

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF052119\
 Data File : VF062677.D
 Acq On : 21 May 2019 12:11
 Operator : FY/SY
 Sample : VF0521SBS01
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0521SBS01

Manual Integrations
 APPROVED

MMDadoda
 5/22/2019 4:20:53 PM

Quant Time: May 22 04:06:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 05:49:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	742076	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	1250825	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	933873	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	425866	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.04	65	270082	51.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.00%	
35) Dibromofluoromethane	4.31	113	502625	52.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.02%	
50) Toluene-d8	7.71	98	1110271	48.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.16%	
62) 4-Bromofluorobenzene	11.49	95	375851	43.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.72%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.01	85	194536	19.264	ug/l	97
3) Chloromethane	1.14	50	190101	20.444	ug/l	96
4) Vinyl Chloride	1.18	62	175052	20.452	ug/l	98
5) Bromomethane	1.39	94	86712	18.518	ug/l	90
6) Chloroethane	1.44	64	59830	19.033	ug/l	94
7) Trichlorofluoromethane	1.56	101	242729	21.120	ug/l	93
8) Diethyl Ether	1.72	74	46306	20.339	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	1.91	101	157795	21.563	ug/l	92
10) Methyl Iodide	1.98	142	315155	21.923	ug/l	98
11) Tert butyl alcohol	2.71	59	32437	93.693	ug/l	95
12) 1,1-Dichloroethene	1.87	96	140108	21.017	ug/l	98
13) Acrolein	2.10	56	33725	93.321	ug/l	94
14) Allyl chloride	2.20	41	128280m	21.262	ug/l	
15) Acrylonitrile	3.11	53	114295	117.036	ug/l	96
16) Acetone	2.36	43	121685	89.446	ug/l	98
17) Carbon Disulfide	1.91	76	402180	20.355	ug/l #	93
18) Methyl Acetate	2.47	43	51560	24.118	ug/l	97
19) Methyl tert-butyl Ether	2.54	73	263737	22.131	ug/l	98
20) Methylene Chloride	2.34	84	145450m	21.330	ug/l	
21) trans-1,2-Dichloroethene	2.43	96	146096	22.422	ug/l	89
22) Diisopropyl ether	2.94	45	329505	22.143	ug/l	97
23) Vinyl Acetate	3.35	43	1055517	105.152	ug/l	99
24) 1,1-Dichloroethane	3.02	63	232873	21.332	ug/l	99
25) 2-Butanone	4.53	43	283695	97.605	ug/l	99
26) 2,2-Dichloropropane	3.78	77	146330	23.428	ug/l	94
27) cis-1,2-Dichloroethene	3.65	96	243252	22.696	ug/l	91
28) Bromochloromethane	3.90	49	118763	19.398	ug/l	93
29) Tetrahydrofuran	4.28	42	126105	107.216	ug/l	96
30) Chloroform	4.05	83	336021	22.170	ug/l	95
31) Cyclohexane	3.88	56	303073	20.677	ug/l	97
32) 1,1,1-Trichloroethane	4.29	97	217509	21.609	ug/l	96
36) 1,1-Dichloropropene	4.48	75	270287	21.088	ug/l	97
37) Ethyl Acetate	4.32	43	97262	18.585	ug/l #	65
38) Carbon Tetrachloride	4.18	117	195280	20.258	ug/l	95

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Manual Integrations
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Quant Time: May 22 04:06:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 05:49:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.64	83	330289	21.416	ug/l	94
40) Benzene	4.82	78	753085	21.568	ug/l	99
41) Methacrylonitrile	4.94	41	54617	19.907	ug/l	96
42) 1,2-Dichloroethane	5.14	62	146065	20.977	ug/l	91
43) Isopropyl Acetate	7.12	43	115005	16.963	ug/l #	88
44) Trichloroethene	5.69	130	217106	22.123	ug/l	85
45) 1,2-Dichloropropane	6.41	63	183794	20.852	ug/l	97
46) Dibromomethane	6.27	93	108409	21.281	ug/l	99
47) Bromodichloromethane	6.56	83	231094	21.852	ug/l	96
48) Methyl methacrylate	6.88	41	64108	18.091	ug/l	97
49) 1,4-Dioxane	6.87	88	19962	439.811	ug/l #	90
51) 4-Methyl-2-Pentanone	8.40	43	448531	96.785	ug/l	94
52) Toluene	7.78	92	364530	19.906	ug/l	93
53) t-1,3-Dichloropropene	8.43	75	171661	19.841	ug/l	97
54) cis-1,3-Dichloropropene	7.46	75	257551	21.266	ug/l	96
55) 1,1,2-Trichloroethane	8.64	97	113974	21.021	ug/l	96
56) Ethyl methacrylate	8.75	69	117917	18.254	ug/l	90
57) 1,3-Dichloropropane	9.00	76	187035	20.252	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.45	63	204474	97.248	ug/l	99
59) 2-Hexanone	9.62	43	293346	85.567	ug/l	94
60) Dibromochloromethane	8.86	129	151808	21.482	ug/l	97
61) 1,2-Dibromoethane	9.13	107	121300	21.063	ug/l	98
64) Tetrachloroethene	8.30	164	158969	21.487	ug/l	95
65) Chlorobenzene	9.94	112	390447	21.287	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.07	131	159531	21.665	ug/l	99
67) Ethyl Benzene	10.04	91	663747	20.830	ug/l	95
68) m/p-Xylenes	10.26	106	479702	40.055	ug/l	83
69) o-Xylene	10.81	106	259025	20.999	ug/l	95
70) Styrene	10.89	104	370276	19.749	ug/l	98
71) Bromoform	10.88	173	74980	20.332	ug/l #	97
73) Isopropylbenzene	11.22	105	707529	23.181	ug/l	97
74) N-amyl acetate	11.45	43	168307	18.245	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.77	83	132863	21.300	ug/l	99
76) 1,2,3-Trichloropropane	11.87	75	83641	20.407	ug/l	93
77) Bromobenzene	11.58	156	163347	21.530	ug/l	90
78) n-propylbenzene	11.67	91	758290	20.992	ug/l	93
79) 2-Chlorotoluene	11.80	91	427875	21.018	ug/l	96
80) 1,3,5-Trimethylbenzene	11.90	105	547939	22.388	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.94	75	38040m	20.880	ug/l	
82) 4-Chlorotoluene	11.97	91	425559	21.198	ug/l	94
83) tert-Butylbenzene	12.19	119	556850	22.426	ug/l	98
84) 1,2,4-Trimethylbenzene	12.27	105	509277	21.499	ug/l	98
85) sec-Butylbenzene	12.37	105	721693	21.658	ug/l	96
86) p-Isopropyltoluene	12.52	119	599074	21.332	ug/l	96
87) 1,3-Dichlorobenzene	12.54	146	287202	20.923	ug/l	97
88) 1,4-Dichlorobenzene	12.63	146	274813	21.335	ug/l	97
89) n-Butylbenzene	12.89	91	623930	22.534	ug/l	90
90) Hexachloroethane	12.97	117	148999	22.117	ug/l	79
91) 1,2-Dichlorobenzene	12.99	146	277114	22.648	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.69	75	17511	23.532	ug/l	87

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Instrument :
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ClientSampleId :
VF0521SBS01

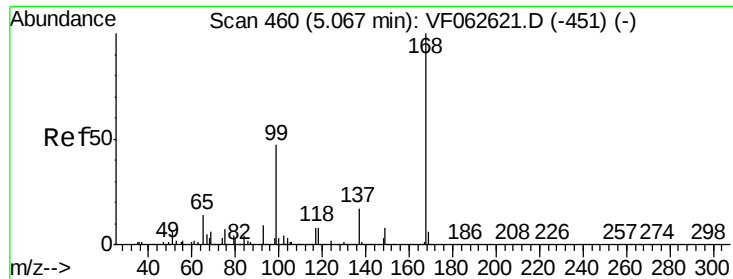
Manual Integrations
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5/22/2019 4:20:53 PM

Quant Time: May 22 04:06:33 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
Quant Title : SW846 8260
QLast Update : Fri May 17 05:49:09 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.23	180	197504	22.551	ug/l	98
94) Hexachlorobutadiene	14.22	225	132668	21.706	ug/l	95
95) Naphthalene	14.49	128	310662	19.525	ug/l	99
96) 1,2,3-Trichlorobenzene	14.64	180	192525	23.207	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. -0.01 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Instrument :

MSVOA_F

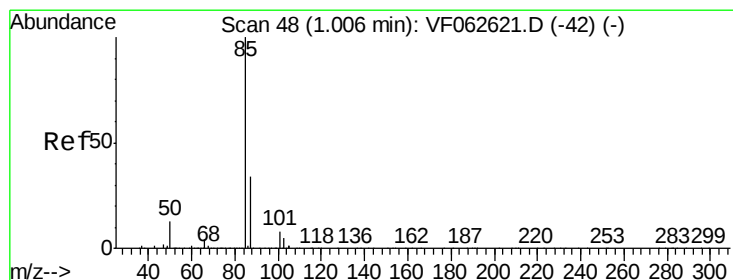
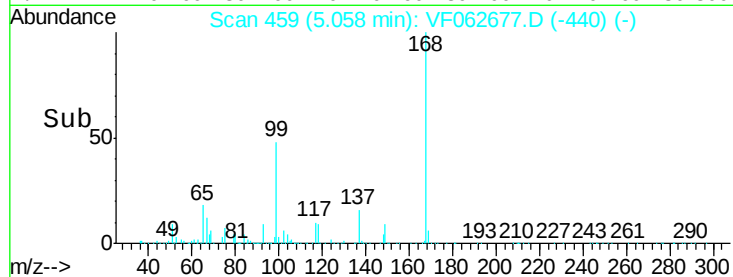
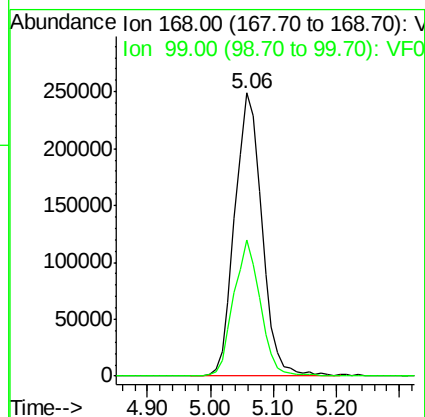
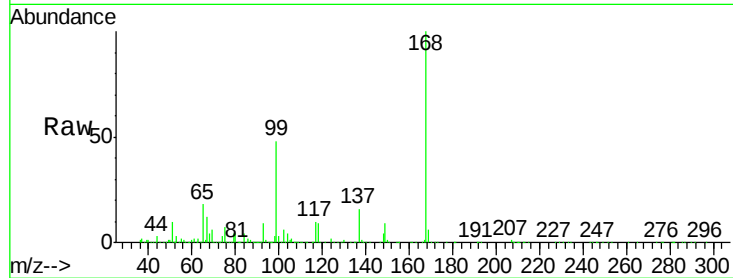
ClientSampleId :

VF0521SBS01

Tot Ion	Ratio	Lower	Upper
168	100		
99	48.1	37.8	56.8

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 19.264 ug/l

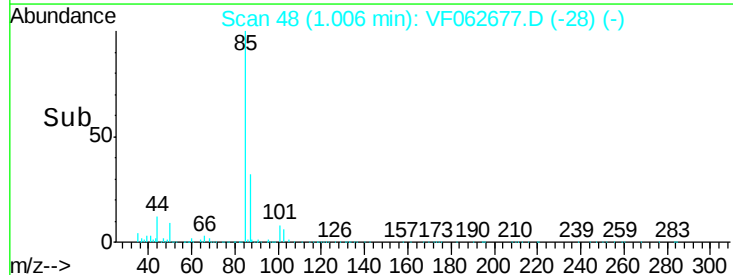
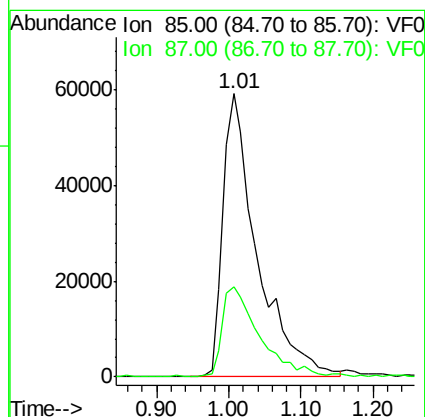
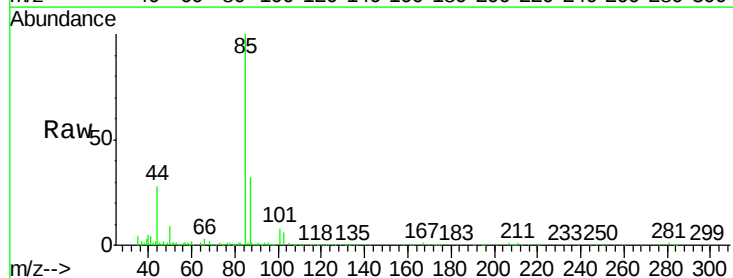
RT: 1.01 min Scan# 48

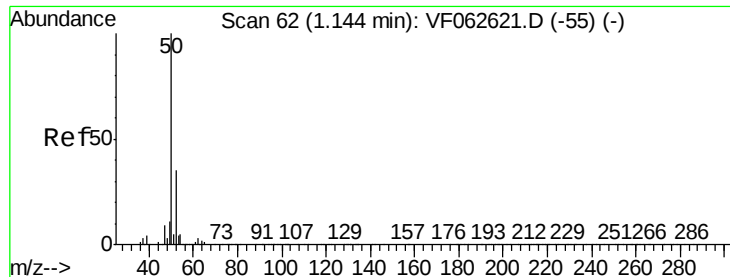
Delta R.T. 0.00 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.0	16.8	50.3





#3

Chloromethane

Concen: 20.444 ug/l

RT: 1.14 min Scan# 62

Delta R.T. 0.00 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Instrument :

MSVOA_F

ClientSampleId :

VF0521SBS01

Tot Ion: 50 Resp: 190101

Ion Ratio Lower Upper

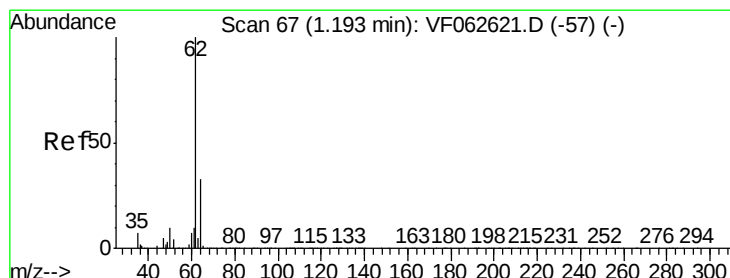
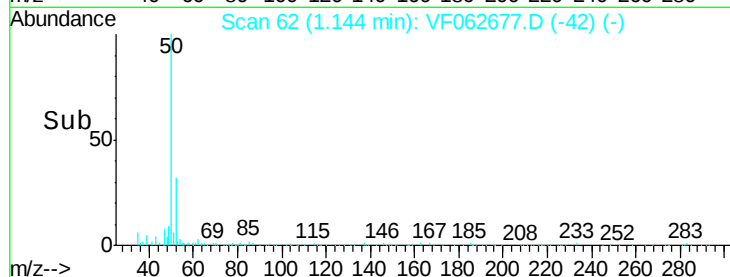
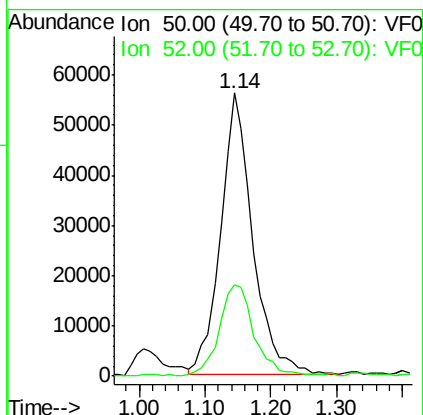
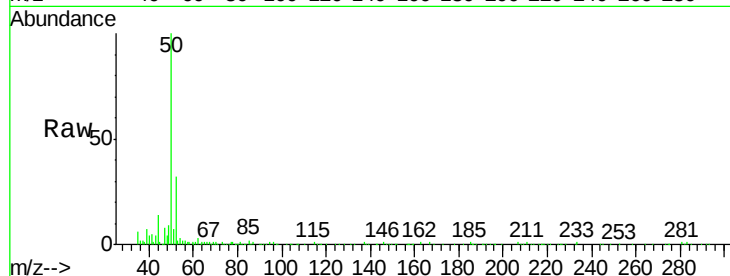
50 100

52 32.2 27.5 41.3

Manual Integrations
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#4

Vinyl Chloride

Concen: 20.452 ug/l

RT: 1.18 min Scan# 66

Delta R.T. -0.01 min

Lab File: VF062677.D

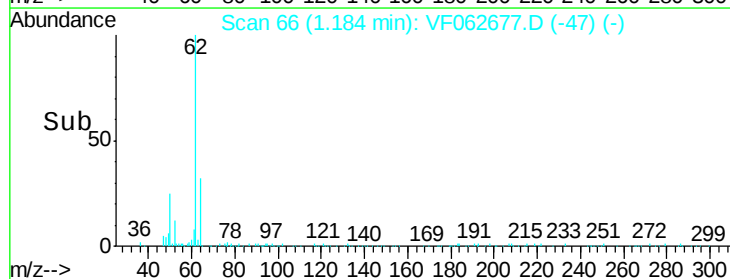
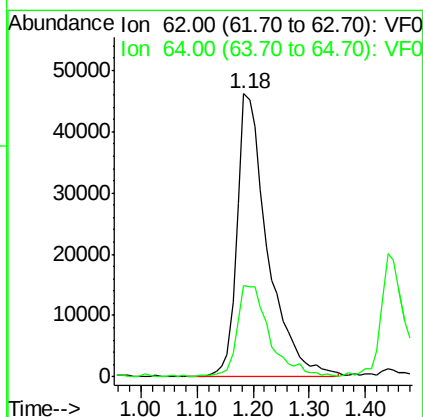
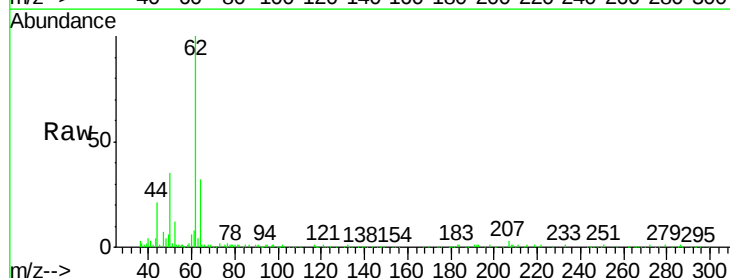
Acq: 21 May 2019 12:11

Tgt Ion: 62 Resp: 175052

Ion Ratio Lower Upper

62 100

64 32.2 26.7 40.1





#5

Bromomethane

Concen: 18.518 ug/l

RT: 1.39 min Scan# 87

Delta R.T. -0.01 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Instrument :

MSVOA_F

ClientSampleId :

VF0521SBS01

Tot Ion: 94 Resp: 86712

Ion Ratio Lower Upper

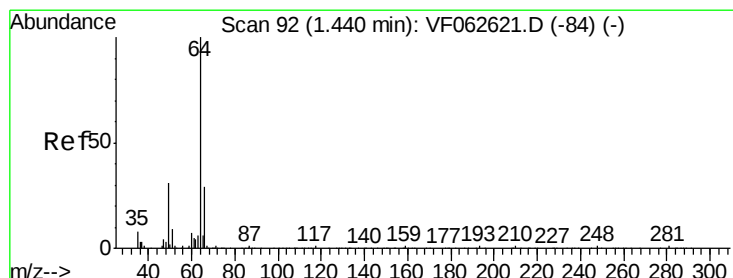
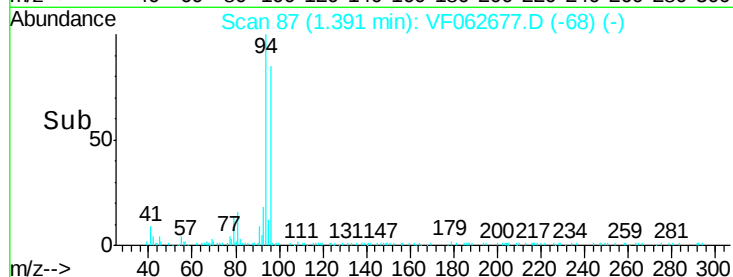
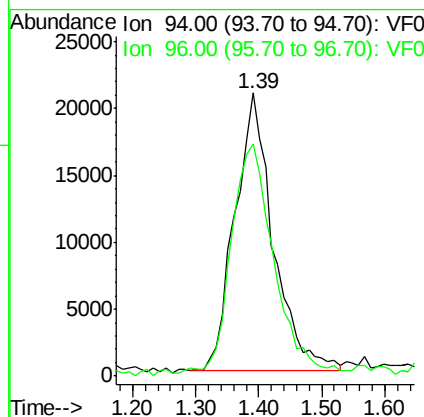
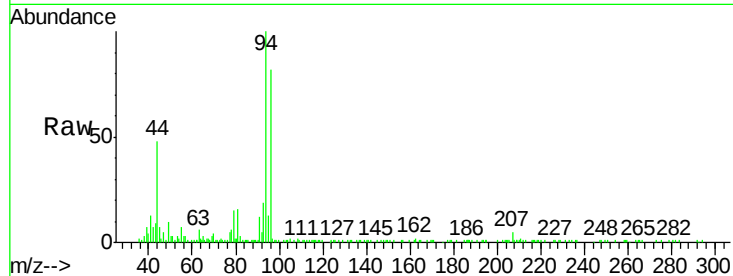
94 100

96 82.0 73.2 109.8

Manual Integrations
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5/22/2019 4:20:53 PM



#6

Chloroethane

Concen: 19.033 ug/l

RT: 1.44 min Scan# 92

Delta R.T. 0.00 min

Lab File: VF062677.D

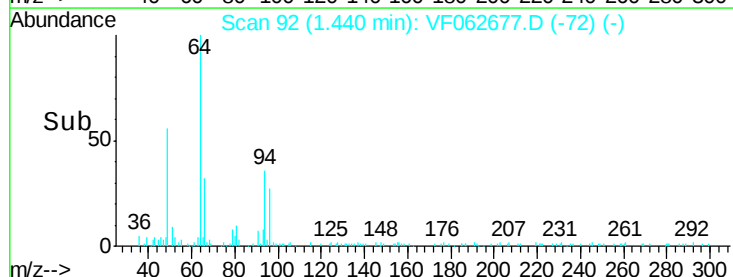
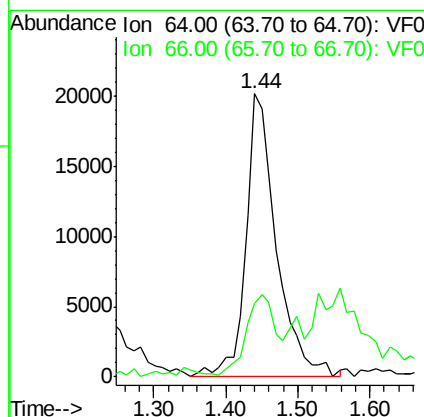
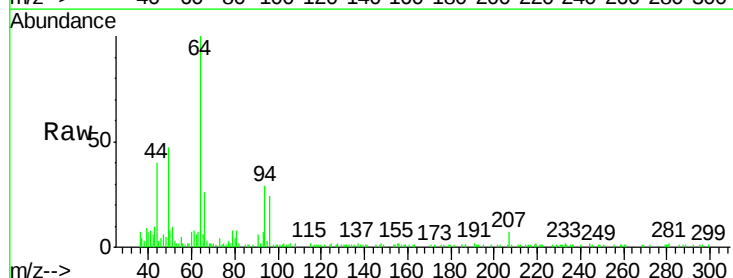
Acq: 21 May 2019 12:11

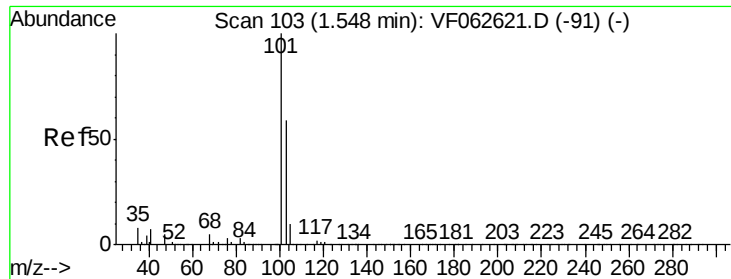
Tgt Ion: 64 Resp: 59830

Ion Ratio Lower Upper

64 100

66 26.1 23.4 35.2





#7

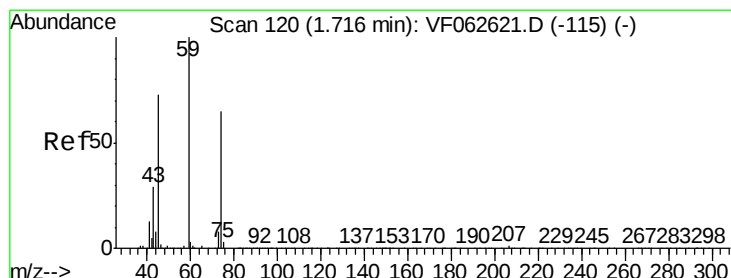
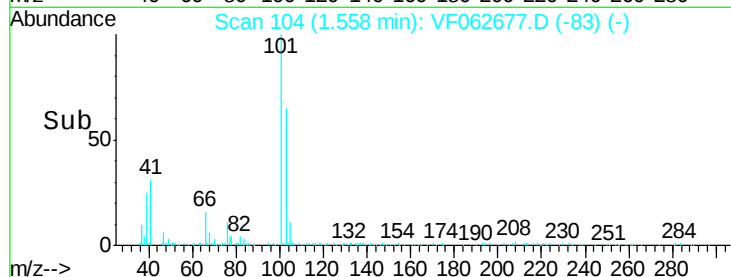
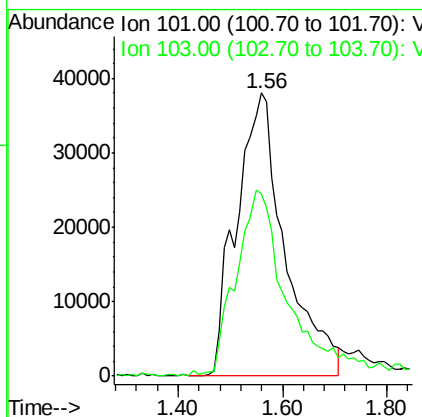
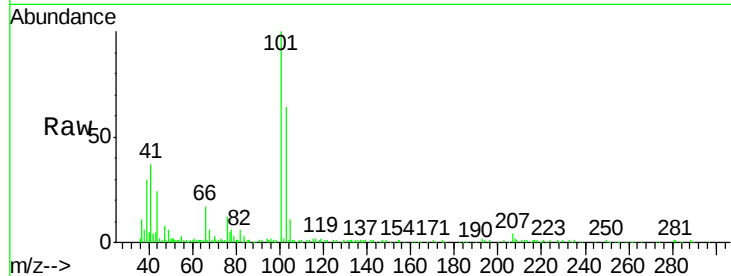
Trichlorofluoromethane
Concen: 21.120 ug/l
RT: 1.56 min Scan# 104
Delta R.T. 0.01 min
Lab File: VF062677.D
Acq: 21 May 2019 12:11

Instrument :
MSVOA_F
ClientSampleId :
VF0521SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.5	47.3	70.9

Manual Integrations
APPROVED

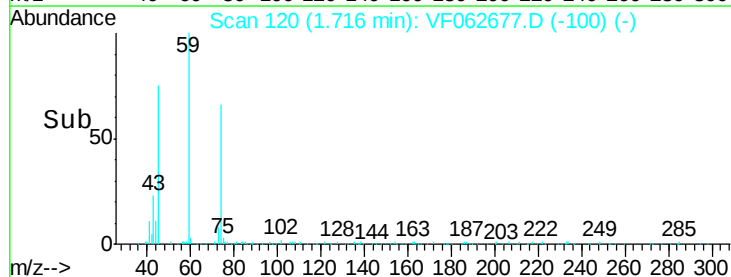
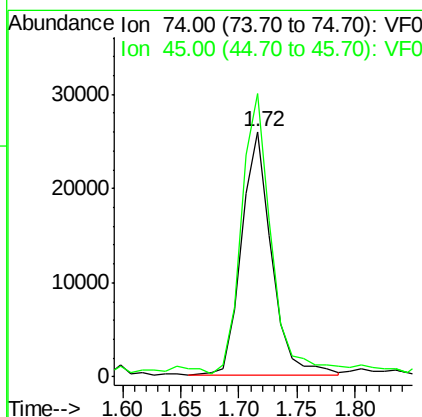
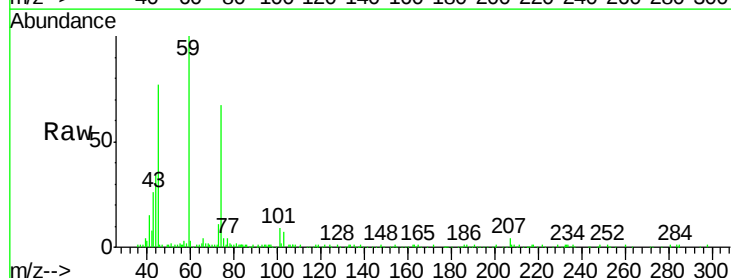
MMDadoda
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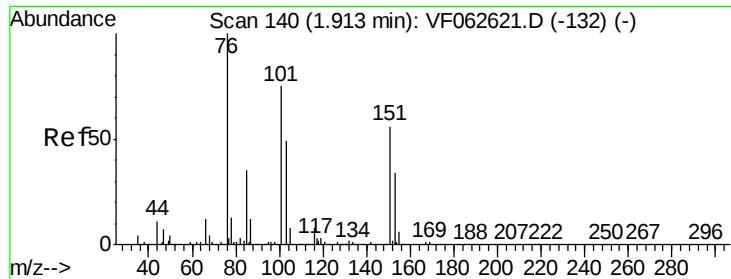


#8

Diethyl Ether
Concen: 20.339 ug/l
RT: 1.72 min Scan# 120
Delta R.T. 0.00 min
Lab File: VF062677.D
Acq: 21 May 2019 12:11

Tgt Ion	Ratio	Lower	Upper
74	100		
45	115.4	57.0	170.8





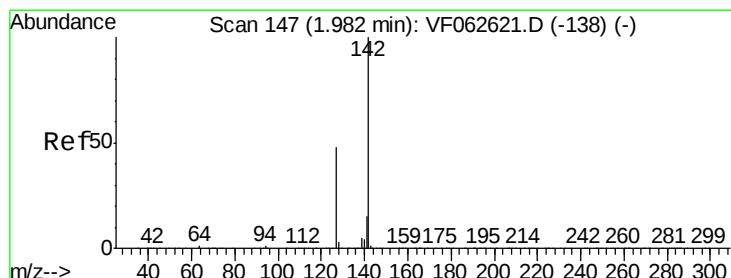
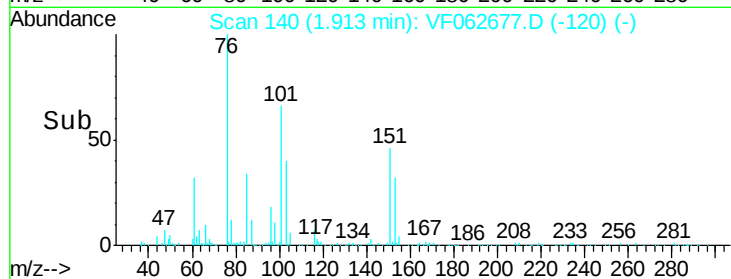
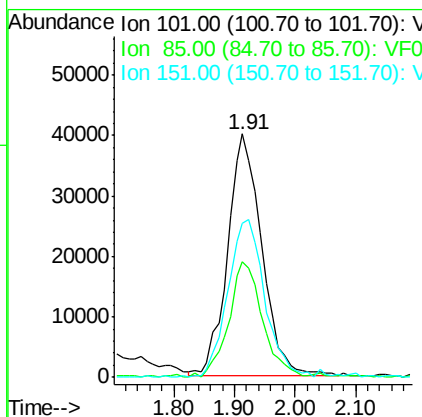
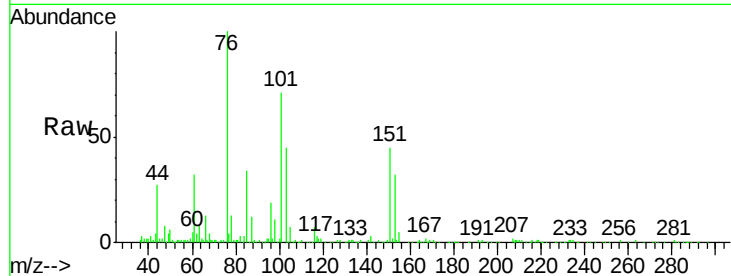
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 21.563 ug/l
 RT: 1.91 min Scan# 140
 Delta R.T. 0.00 min
 Lab File: VF062677.D
 Acq: 21 May 2019 12:11

Instrument :
 MSVOA_F
 ClientSampled :
 VF0521SBS01

Tot Ion	Ratio	Resp	Lower	Upper
101	100	157795		
85	47.4		37.1	55.7
151	63.5		58.8	88.2

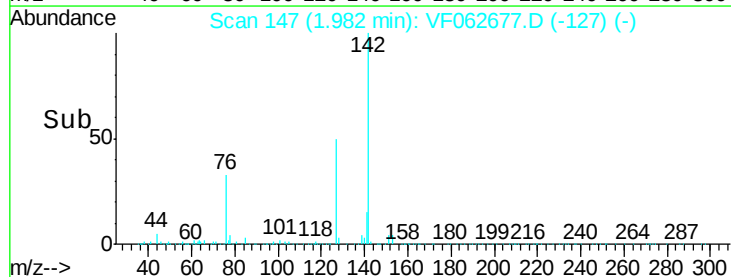
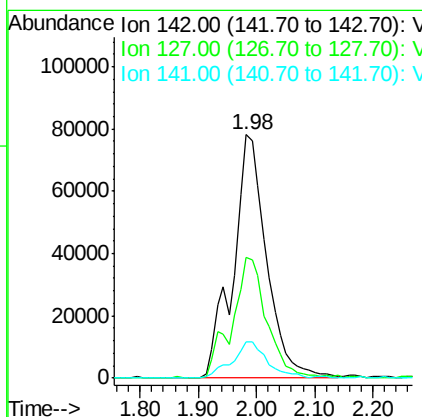
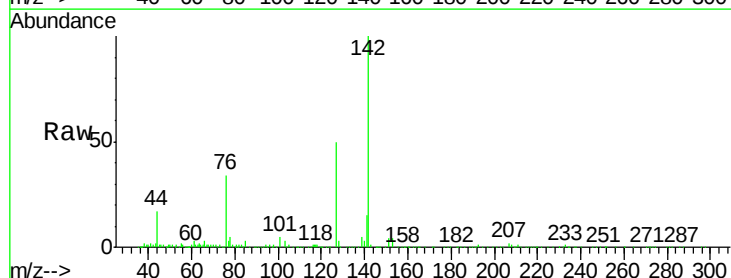
Manual Integrations
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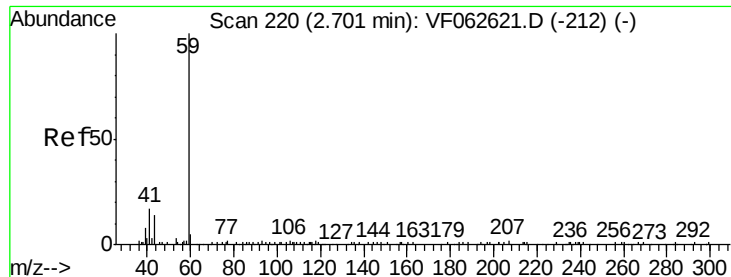
MMDadoda
 5/22/2019 4:20:53 PM



#10
 Methyl Iodide
 Concen: 21.923 ug/l
 RT: 1.98 min Scan# 147
 Delta R.T. 0.00 min
 Lab File: VF062677.D
 Acq: 21 May 2019 12:11

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	315155		
127	49.6		38.1	57.1
141	14.7		11.7	17.5





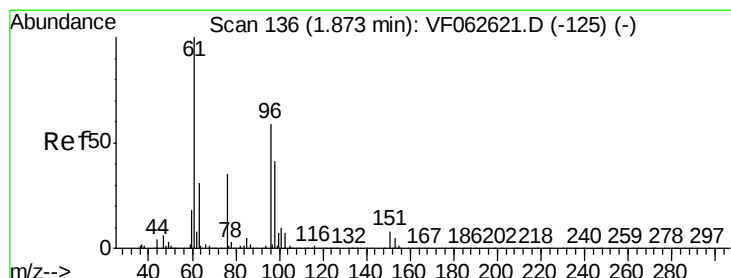
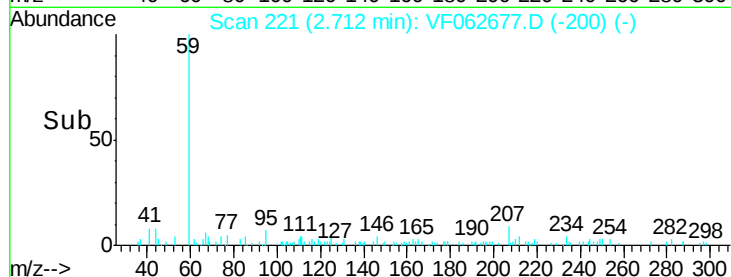
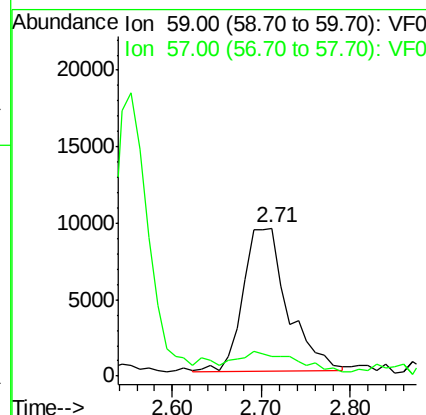
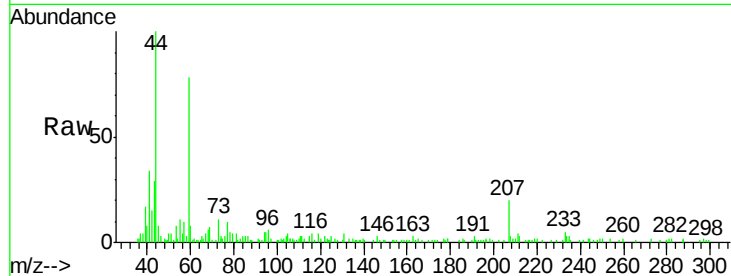
#11
Tert butyl alcohol
Concen: 93.693 ug/l
RT: 2.71 min Scan# 221
Delta R.T. 0.01 min
Lab File: VF062677.D
Acq: 21 May 2019 12:11

Instrument :
MSVOA_F
ClientSampleId :
VF0521SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	13.4	9.3	13.9

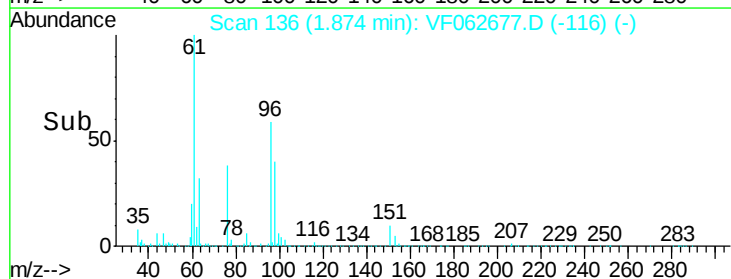
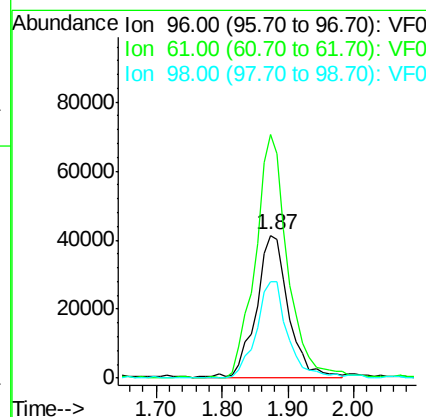
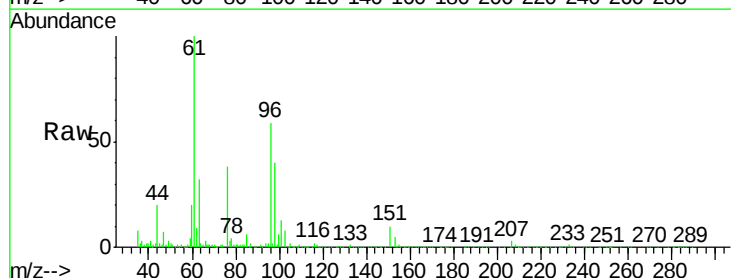
Manual Integrations
APPROVED

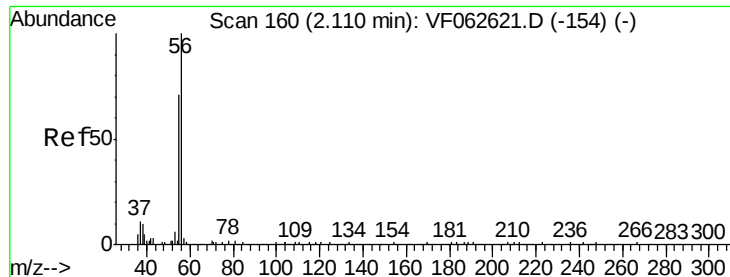
MMDadoda
5/22/2019 4:20:53 PM



#12
1,1-Dichloroethene
Concen: 21.017 ug/l
RT: 1.87 min Scan# 136
Delta R.T. 0.00 min
Lab File: VF062677.D
Acq: 21 May 2019 12:11

Tgt Ion	Ratio	Lower	Upper
96	100		
61	170.2	134.3	201.5
98	67.6	55.0	82.6





#13

Acrolein

Concen: 93.321 ug/l

RT: 2.10 min Scan# 159

Delta R.T. -0.01 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Instrument :

MSVOA_F

ClientSampleId :

VF0521SBS01

Tot Ion: 56 Resp: 33725

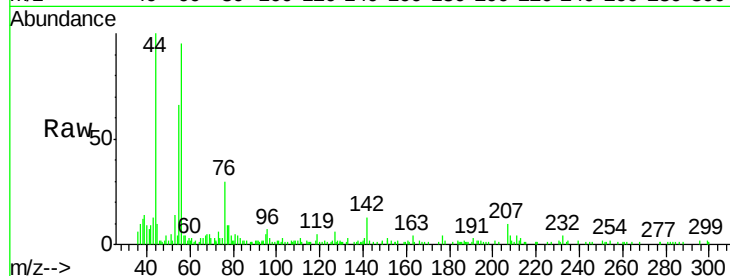
Ion Ratio Lower Upper

56 100

55 69.0 59.4 89.0

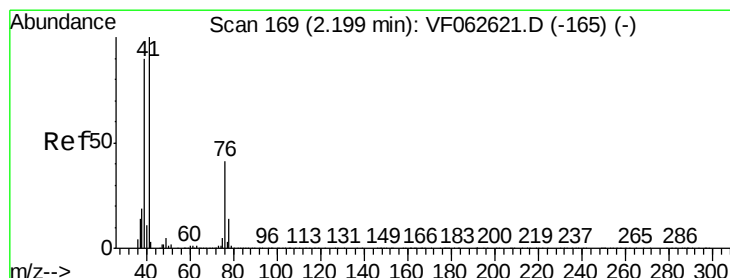
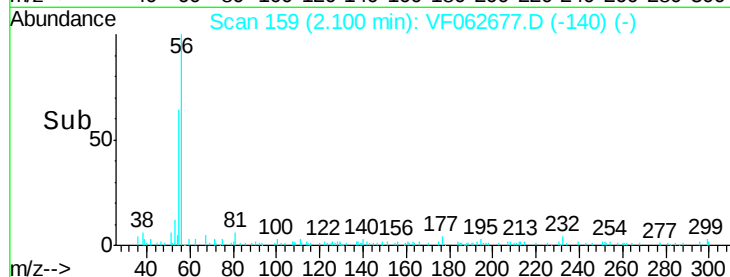
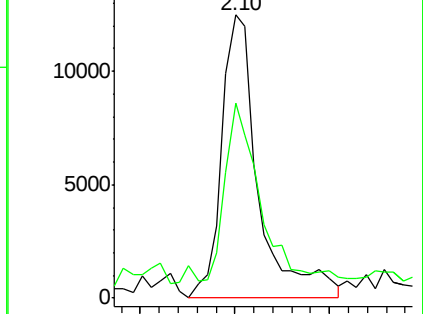
Manual Integrations
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Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 21.262 ug/l m

RT: 2.20 min Scan# 169

Delta R.T. 0.00 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

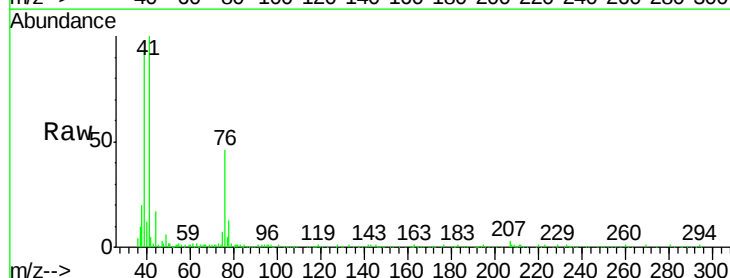
Tgt Ion: 41 Resp: 128280

Ion Ratio Lower Upper

41 100

39 92.5 72.0 108.0

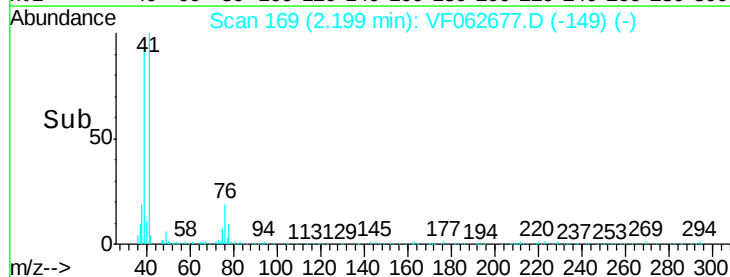
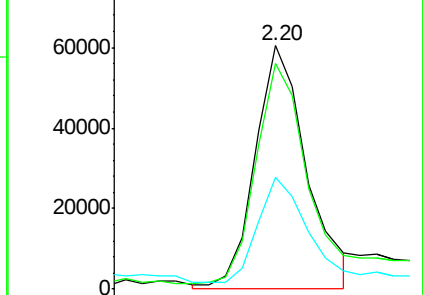
76 46.1 34.8 52.2

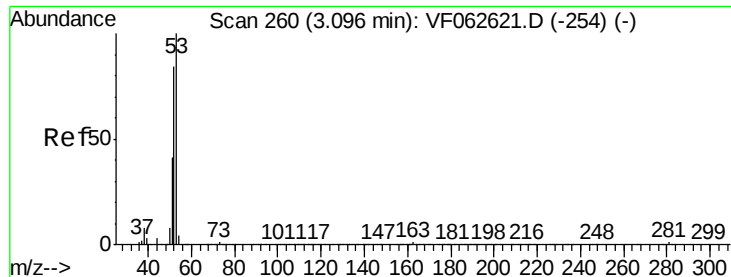


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 117.036 ug/l

RT: 3.11 min Scan# 261

Delta R.T. 0.01 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Instrument :

MSVOA_F

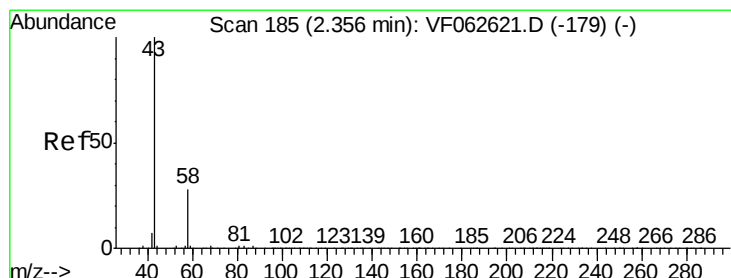
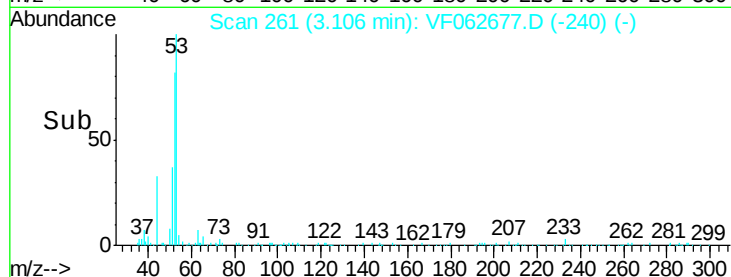
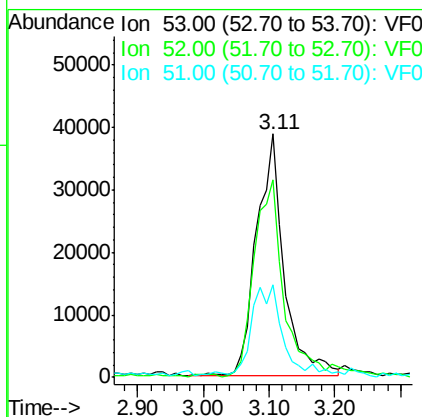
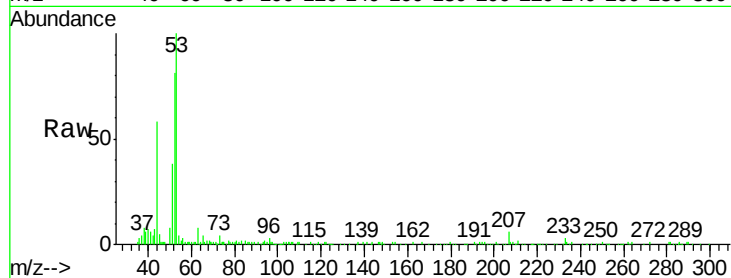
ClientSampleId :

VF0521SBS01

Tot Ion:	53	Resp:	114295
Ion Ratio	Lower	Upper	
53	100		
52	81.3	67.3	100.9
51	37.9	33.0	49.6

Manual Integrations
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#16

Acetone

Concen: 89.446 ug/l

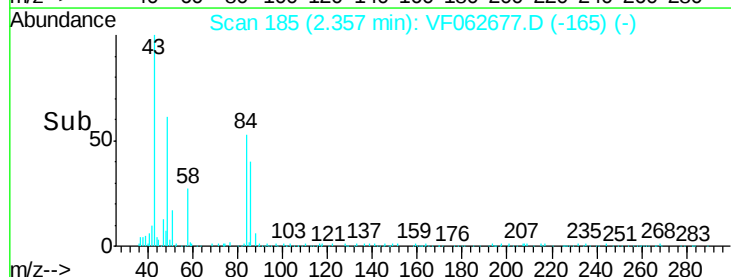
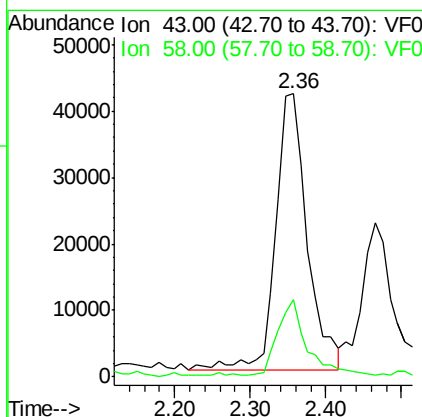
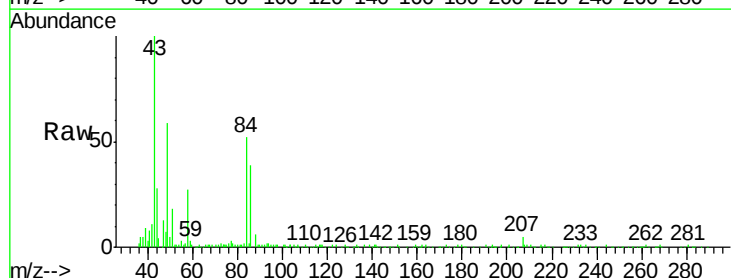
RT: 2.36 min Scan# 185

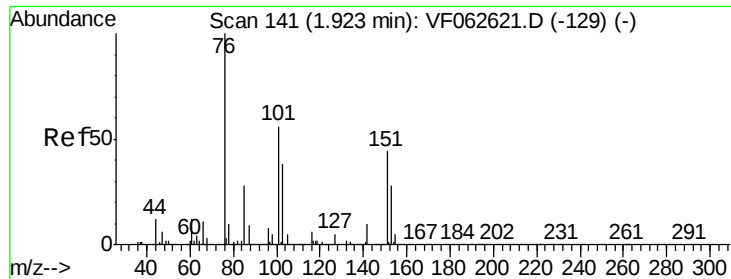
Delta R.T. 0.00 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Tgt Ion:	43	Resp:	121685
Ion Ratio	Lower	Upper	
43	100		
58	27.1	22.6	33.8





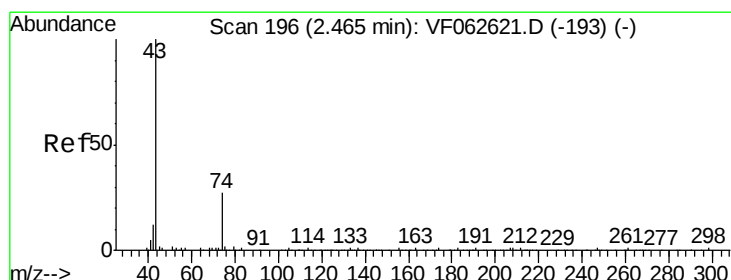
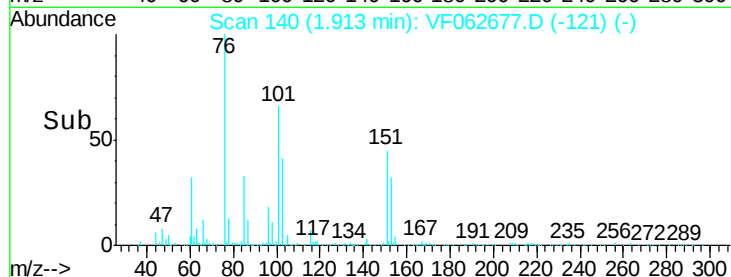
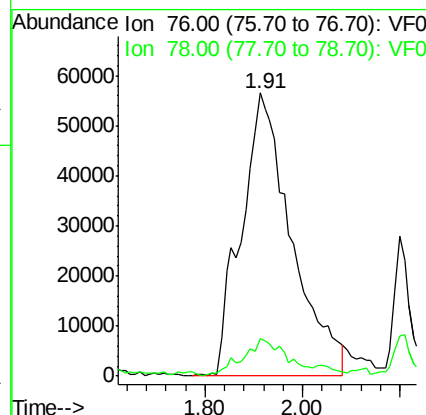
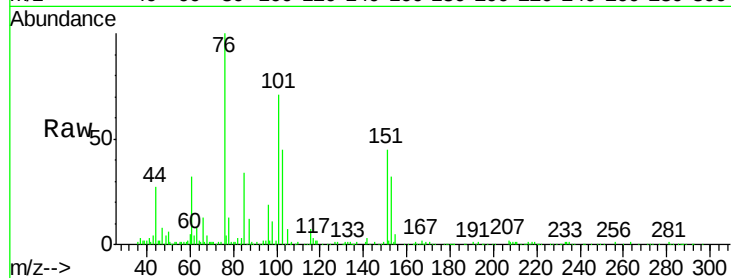
#17
Carbon Disulfide
Concen: 20.355 ug/l
RT: 1.91 min Scan# 140
Delta R.T. -0.01 min
Lab File: VF062677.D
Acq: 21 May 2019 12:11

Instrument :
MSVOA_F
ClientSampleId :
VF0521SBS01

Tot Ion: 76 Resp: 402180
Ion Ratio Lower Upper
76 100
78 13.1 8.4 12.6#

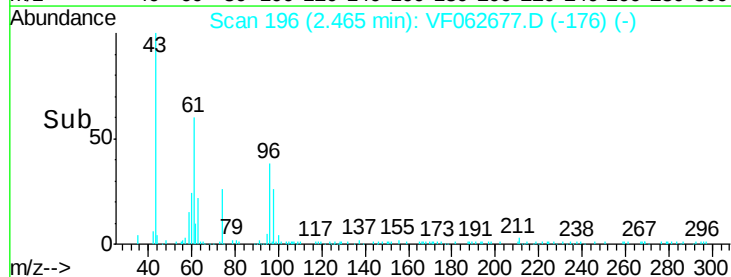
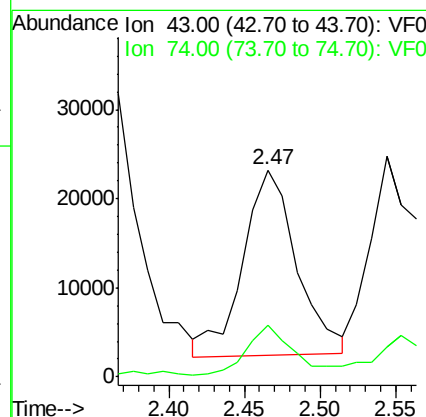
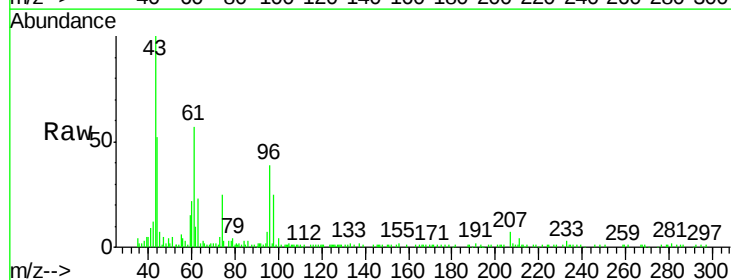
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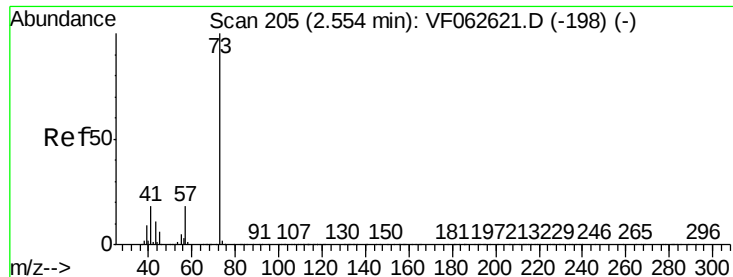
MMDadoda
5/22/2019 4:20:53 PM



#18
Methyl Acetate
Concen: 24.118 ug/l
RT: 2.47 min Scan# 196
Delta R.T. 0.00 min
Lab File: VF062677.D
Acq: 21 May 2019 12:11

Tgt Ion: 43 Resp: 51560
Ion Ratio Lower Upper
43 100
74 25.0 18.9 28.3





#19

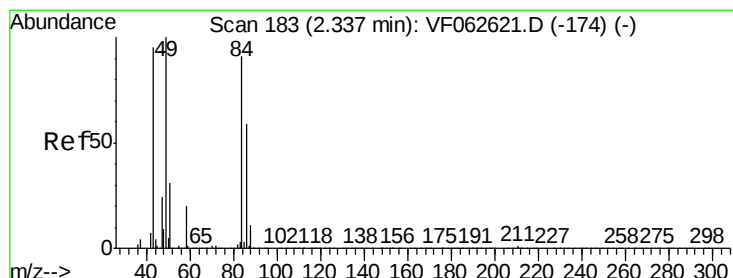
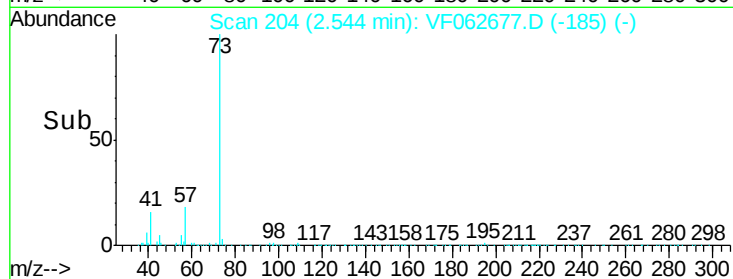
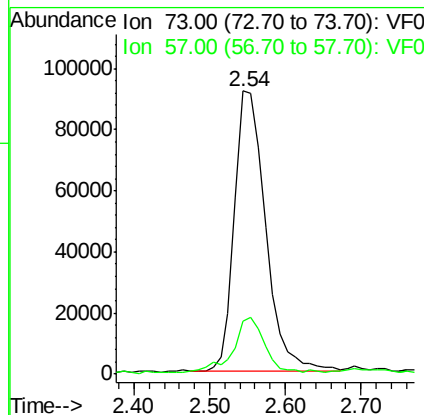
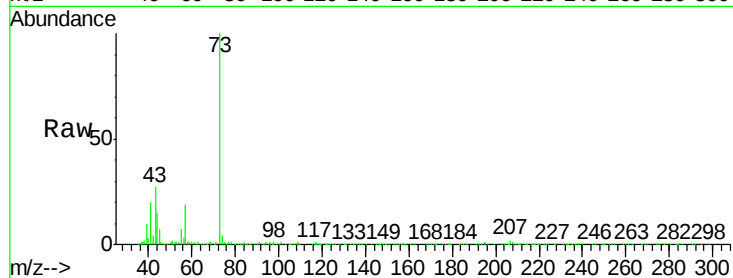
Methyl tert-butyl Ether
 Concen: 22.131 ug/l
 RT: 2.54 min Scan# 204
 Delta R.T. -0.01 min
 Lab File: VF062677.D
 Acq: 21 May 2019 12:11

Instrument :
 MSVOA_F
 ClientSampleID :
 VF0521SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	18.7	14.2	21.4

Manual Integrations
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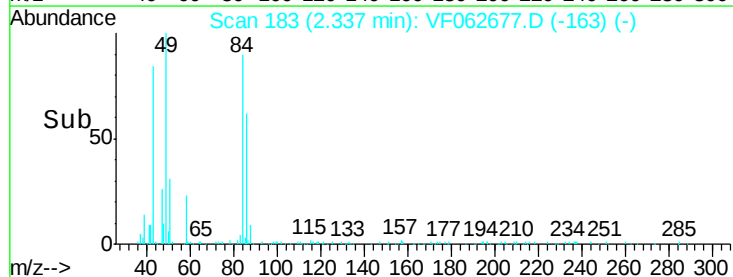
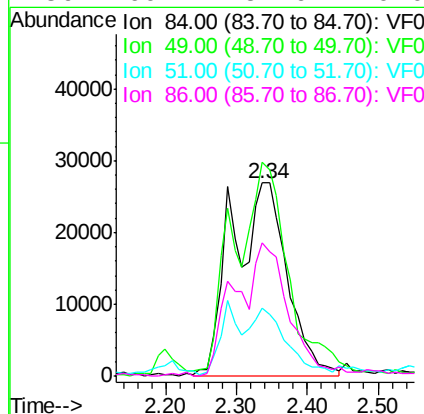
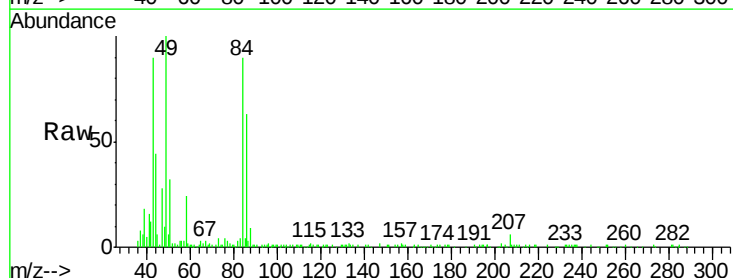
MMDadoda
 5/22/2019 4:20:53 PM

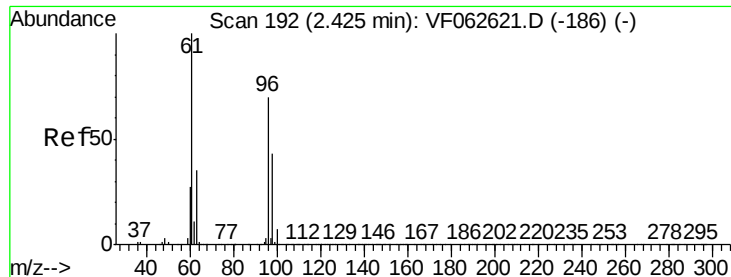


#20

Methylene Chloride
 Concen: 21.330 ug/l m
 RT: 2.34 min Scan# 183
 Delta R.T. 0.00 min
 Lab File: VF062677.D
 Acq: 21 May 2019 12:11

Tgt Ion	Ratio	Lower	Upper
84	100		
49	110.6	89.8	134.8
51	35.3	28.4	42.6
86	69.1	52.6	79.0





#21

trans-1,2-Dichloroethene

Concen: 22.422 ug/l

RT: 2.43 min Scan# 192

Delta R.T. 0.00 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Instrument :

MSVOA_F

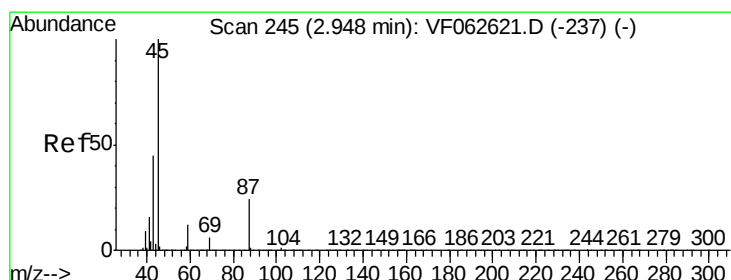
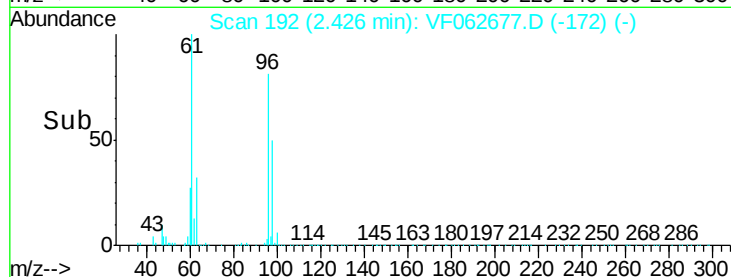
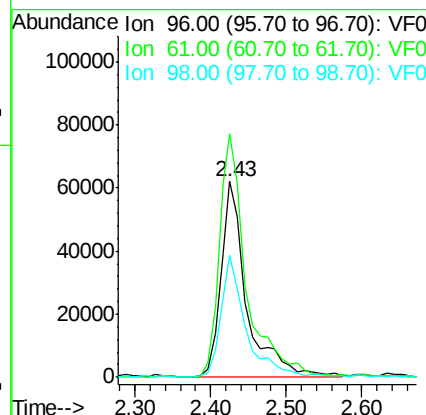
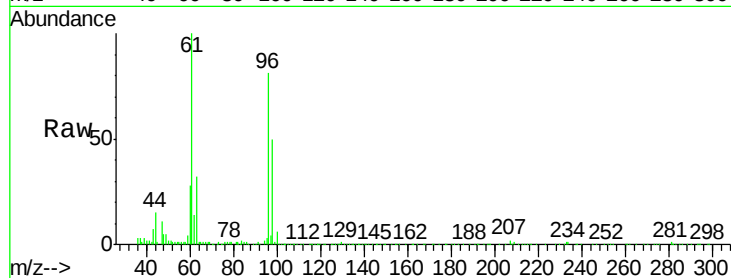
ClientSampleId :

VF0521SBS01

Tot Ion:	96	Resp:	146096
Ion Ratio	Lower	Upper	
96	100		
61	124.1	114.6	171.8
98	62.4	49.5	74.3

Manual Integrations
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#22

Diisopropyl ether

Concen: 22.143 ug/l

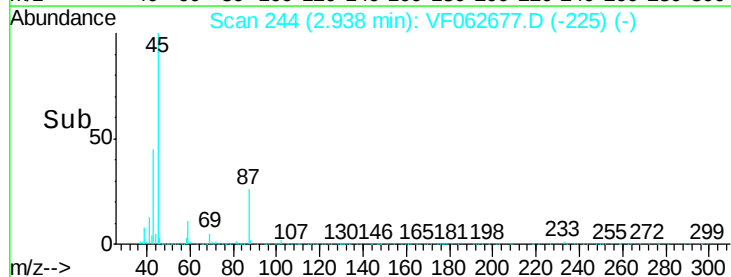
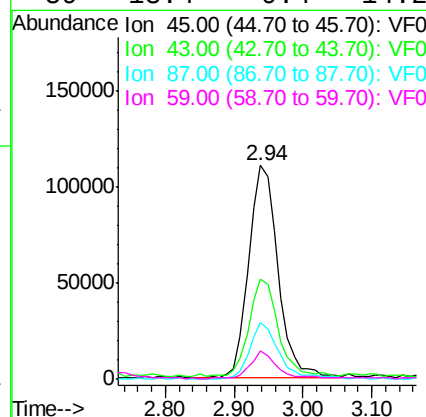
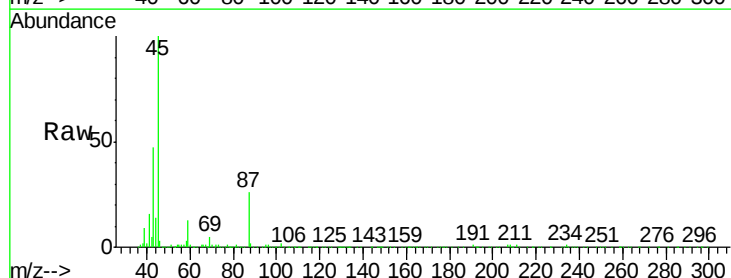
RT: 2.94 min Scan# 244

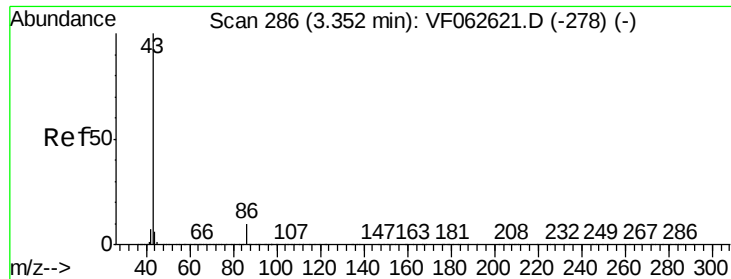
Delta R.T. -0.01 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Tgt Ion:	45	Resp:	329505
Ion Ratio	Lower	Upper	
45	100		
43	46.9	36.4	54.6
87	26.1	19.3	28.9
59	13.4	9.4	14.2





#23

Vinyl Acetate

Concen: 105.152 ug/l

RT: 3.35 min Scan# 286

Delta R.T. 0.00 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Instrument :

MSVOA_F

ClientSampleId :

VF0521SBS01

Tot Ion: 43 Resp: 1055517

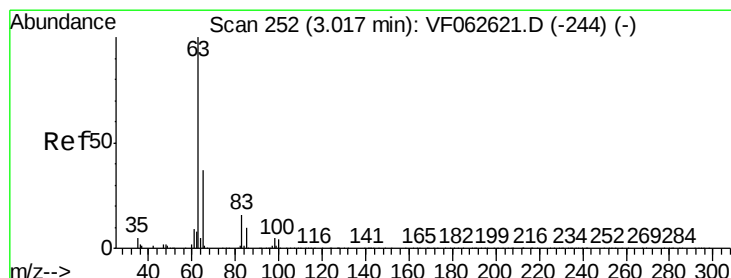
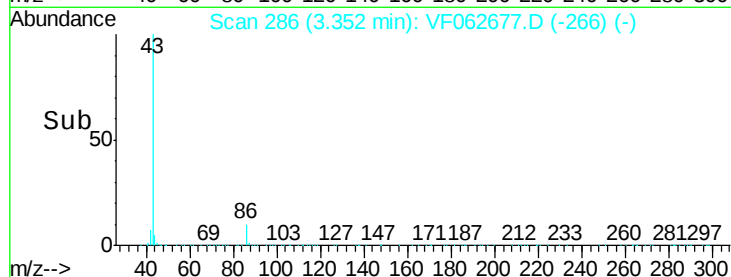
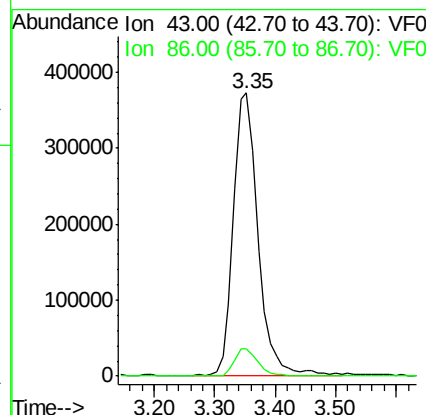
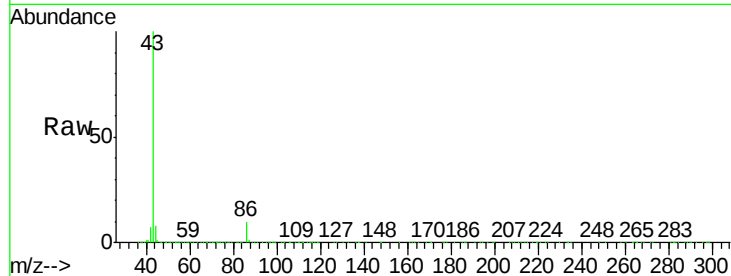
Ion Ratio Lower Upper

43 100

86 9.9 8.2 12.2

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#24

1,1-Dichloroethane

Concen: 21.332 ug/l

RT: 3.02 min Scan# 252

Delta R.T. 0.00 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

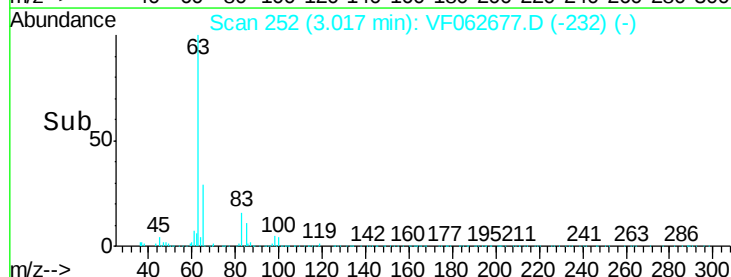
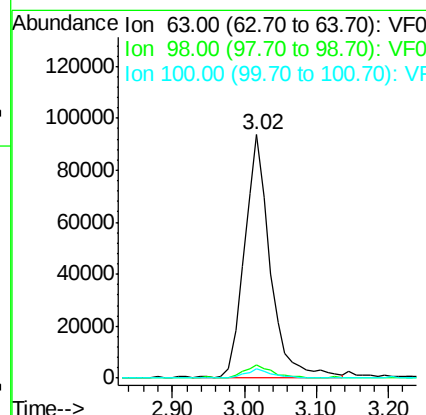
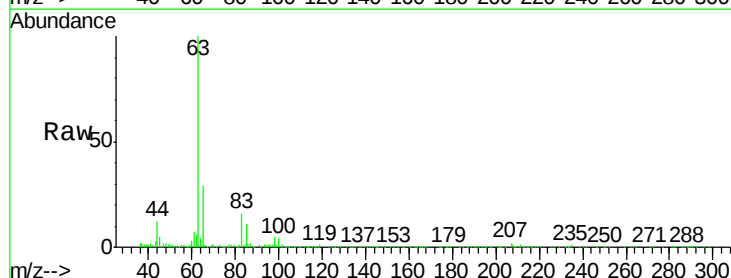
Tgt Ion: 63 Resp: 232873

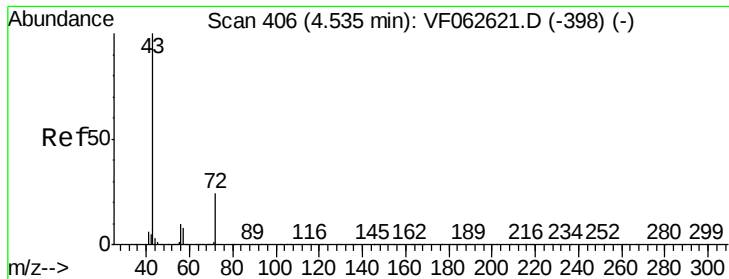
Ion Ratio Lower Upper

63 100

98 5.3 2.8 8.3

100 3.9 1.9 5.7





#25

2-Butanone

Concen: 97.605 ug/l

RT: 4.53 min Scan# 405

Delta R.T. -0.01 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Instrument :

MSVOA_F

ClientSampleId :

VF0521SBS01

Tot Ion: 43 Resp: 283695

Ion Ratio Lower Upper

43 100

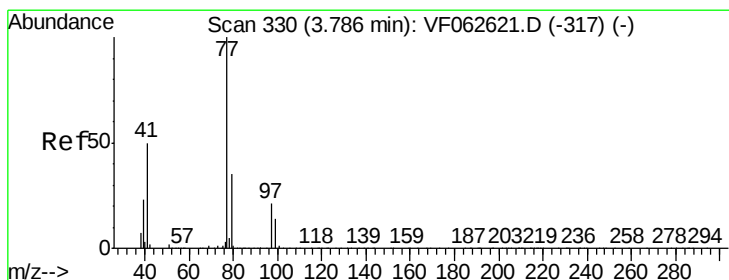
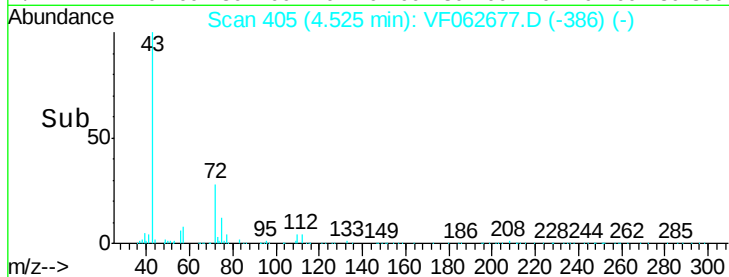
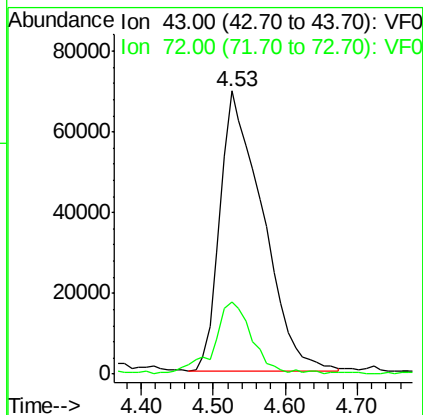
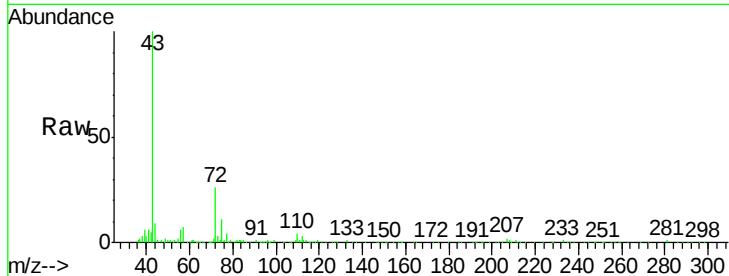
72 25.6 20.1 30.1

Manual Integrations

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MMDadoda

5/22/2019 4:20:53 PM



#26

2,2-Dichloropropane

Concen: 23.428 ug/l

RT: 3.78 min Scan# 329

Delta R.T. -0.01 min

Lab File: VF062677.D

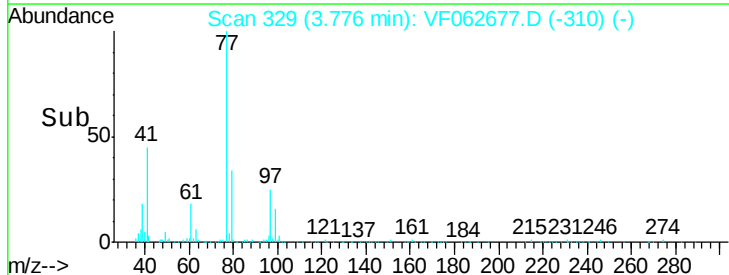
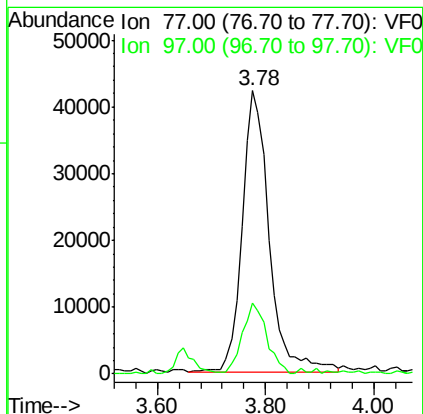
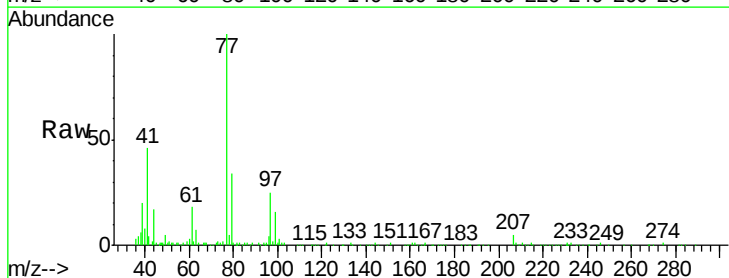
Acq: 21 May 2019 12:11

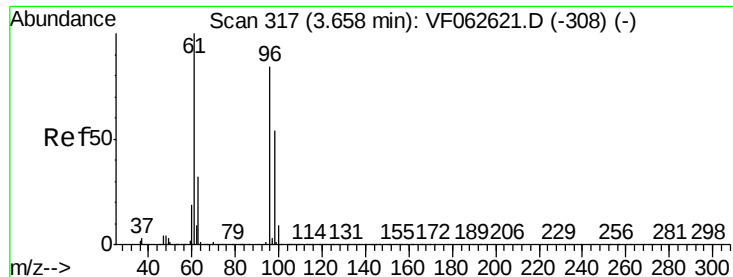
Tgt Ion: 77 Resp: 146330

Ion Ratio Lower Upper

77 100

97 25.1 14.1 42.4





#27

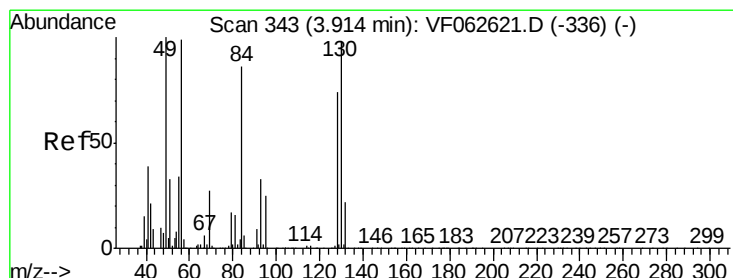
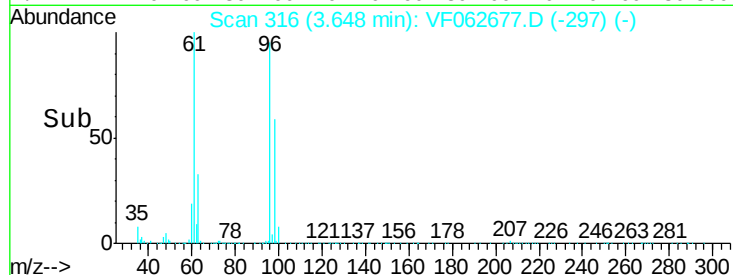
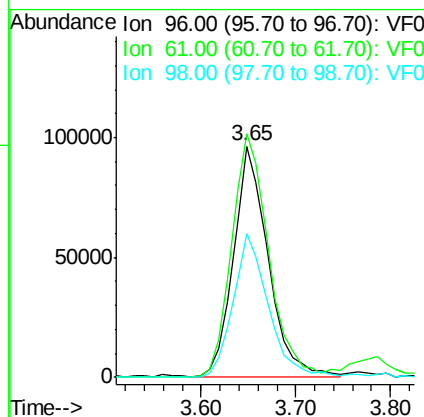
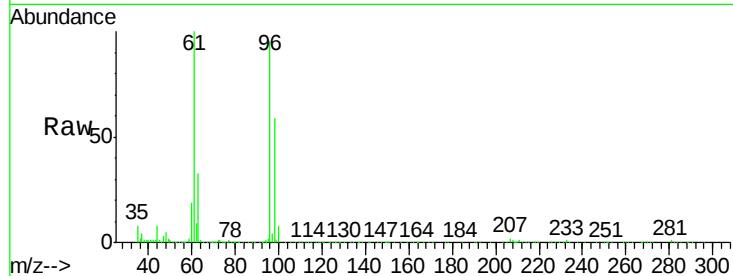
cis-1,2-Dichloroethene
Concen: 22.696 ug/l
RT: 3.65 min Scan# 316
Delta R.T. -0.01 min
Lab File: VF062677.D
Acq: 21 May 2019 12:11

Instrument :
MSVOA_F
ClientSampleId :
VF0521SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	243252		
61	105.2	0.0	237.4	
98	62.2	0.0	129.0	

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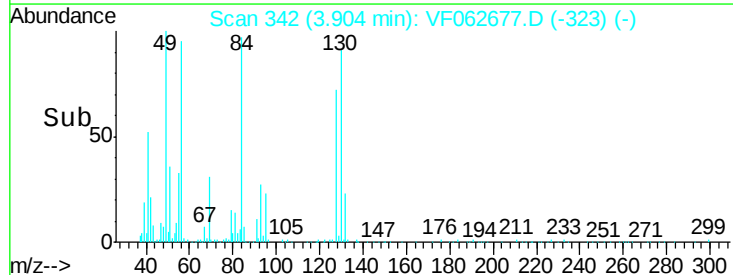
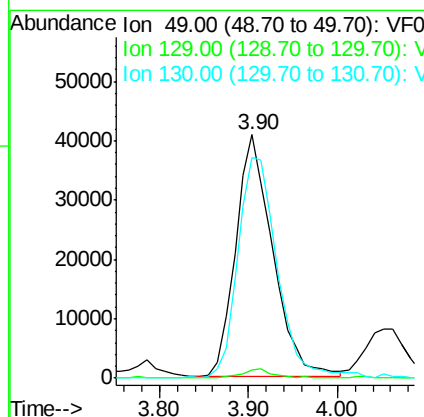
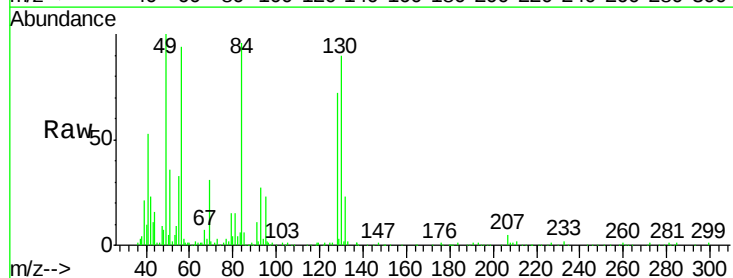
MMDadoda
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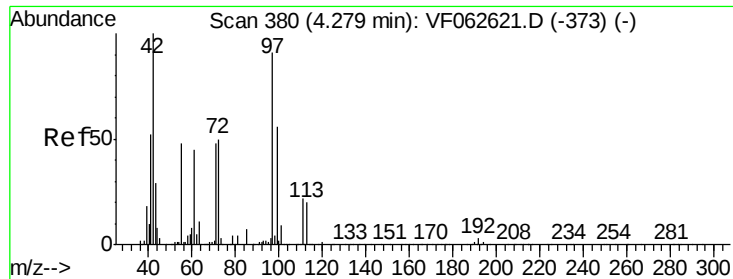


#28

Bromochloromethane
Concen: 19.398 ug/l
RT: 3.90 min Scan# 342
Delta R.T. -0.01 min
Lab File: VF062677.D
Acq: 21 May 2019 12:11

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	118763		
129	3.3	0.0	4.0	
130	90.4	77.8	116.8	





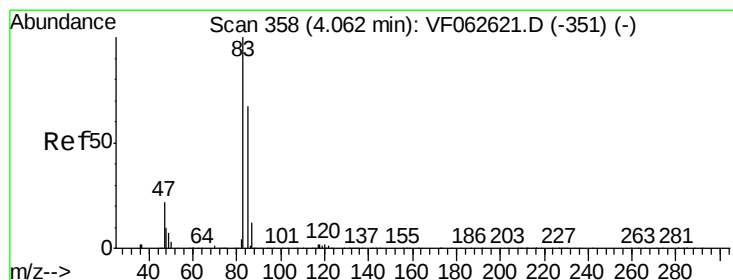
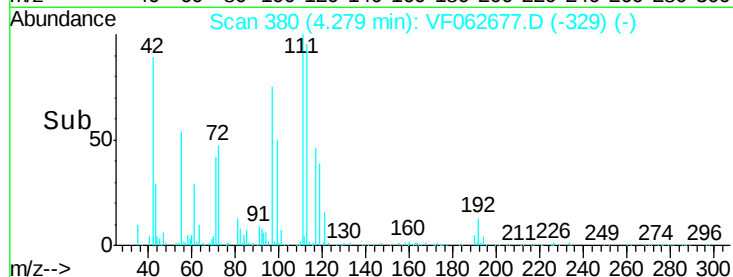
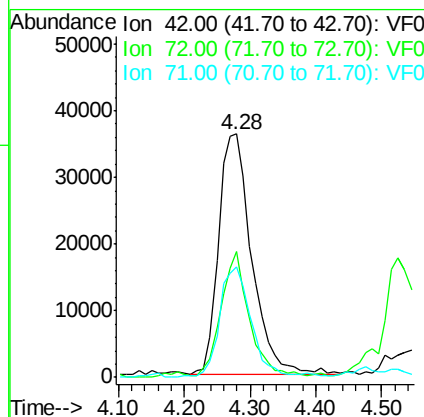
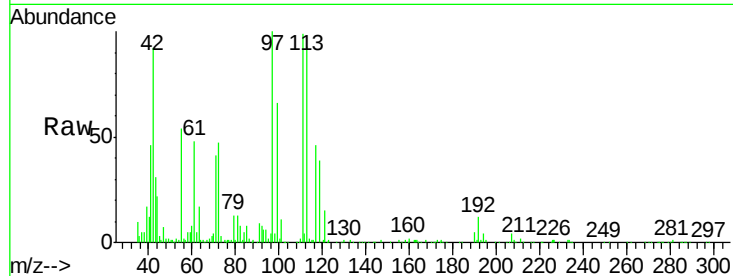
#29
Tetrahydrofuran
Concen: 107.216 ug/l
RT: 4.28 min Scan# 380
Delta R.T. 0.00 min
Lab File: VF062677.D
Acq: 21 May 2019 12:11

Instrument :
MSVOA_F
ClientSampleId :
VF0521SBS01

Tot Ion	Ratio	Resp	Lower	Upper
42	100	126105		
72	44.0		38.2	57.2
71	43.3		35.8	53.6

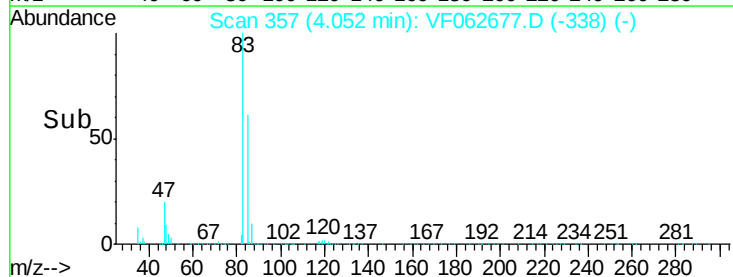
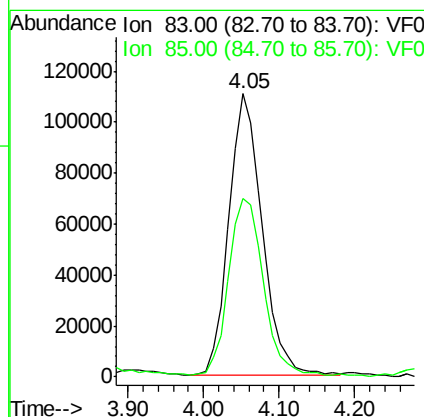
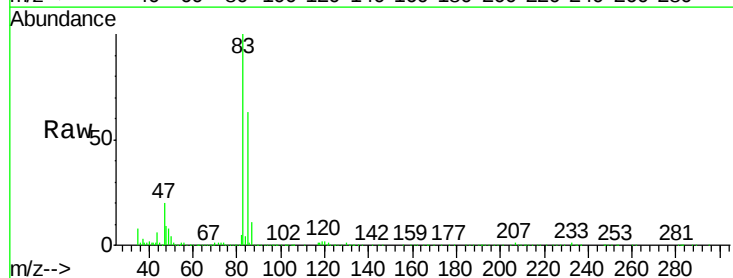
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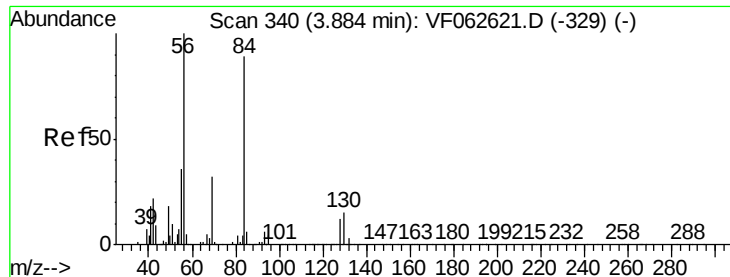
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#30
Chloroform
Concen: 22.170 ug/l
RT: 4.05 min Scan# 357
Delta R.T. -0.01 min
Lab File: VF062677.D
Acq: 21 May 2019 12:11

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	336021		
85	63.0		53.6	80.4





#31

Cyclohexane

Concen: 20.677 ug/l

RT: 3.88 min Scan# 340

Delta R.T. 0.00 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Instrument :

MSVOA_F

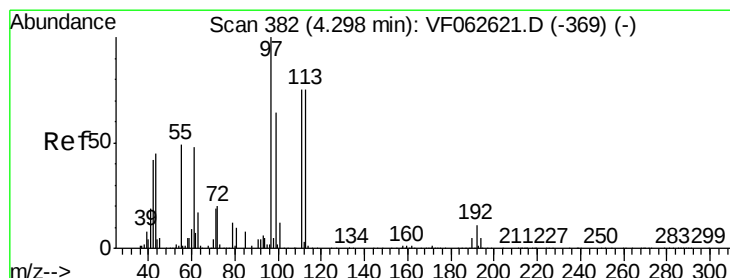
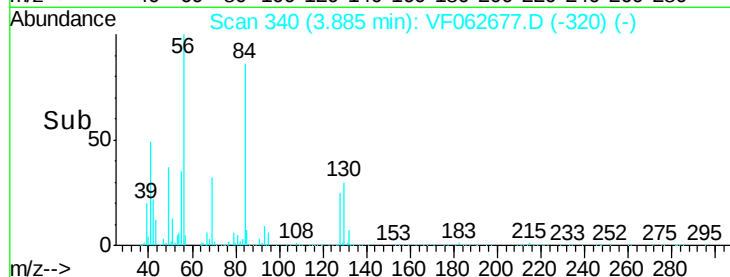
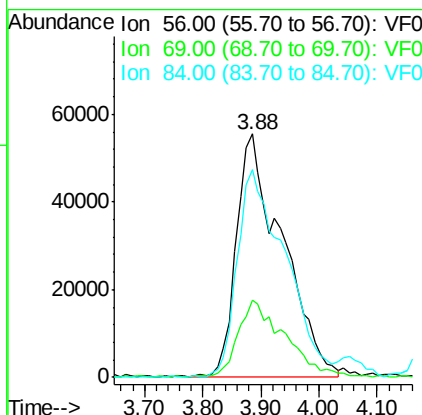
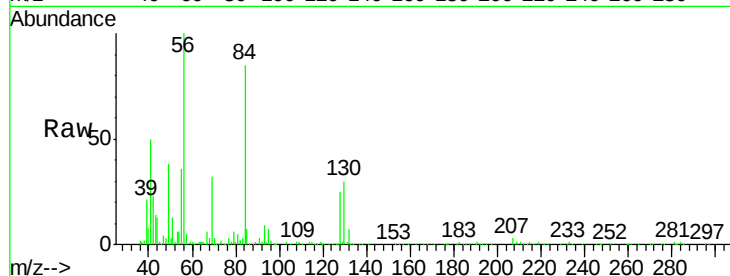
ClientSampleId :

VF0521SBS01

Tot Ion:	56	Resp:	303073
Ion Ratio	Lower	Upper	
56	100		
69	31.6	25.3	37.9
84	85.3	71.0	106.4

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#32

1,1,1-Trichloroethane

Concen: 21.609 ug/l

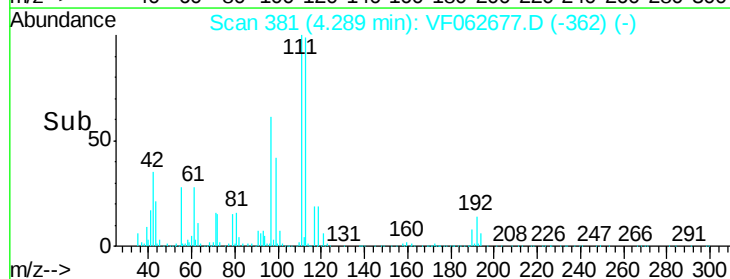
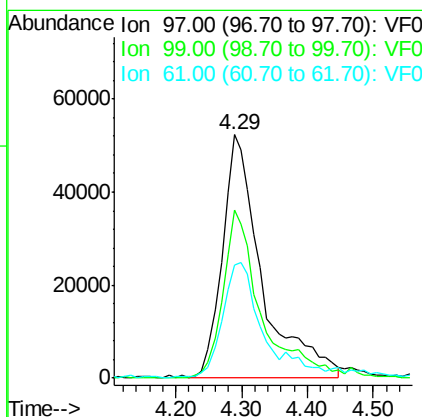
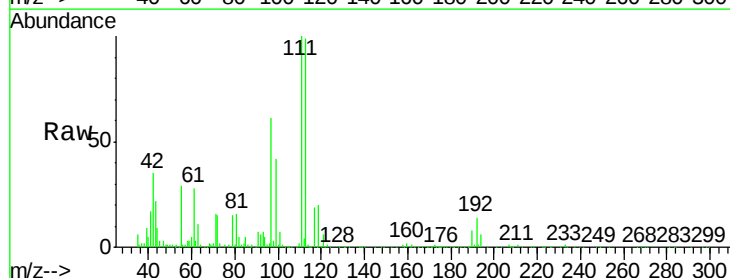
RT: 4.29 min Scan# 381

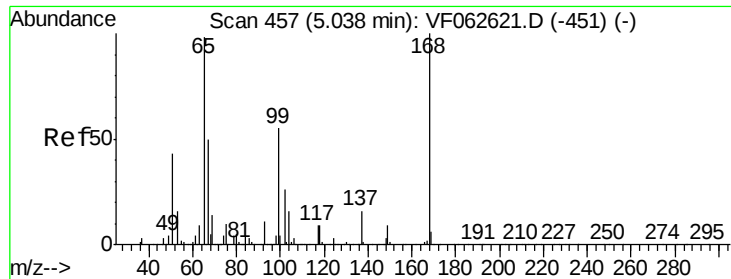
Delta R.T. -0.01 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Tgt Ion:	97	Resp:	217509
Ion Ratio	Lower	Upper	
97	100		
99	68.9	51.3	76.9
61	46.3	38.2	57.2





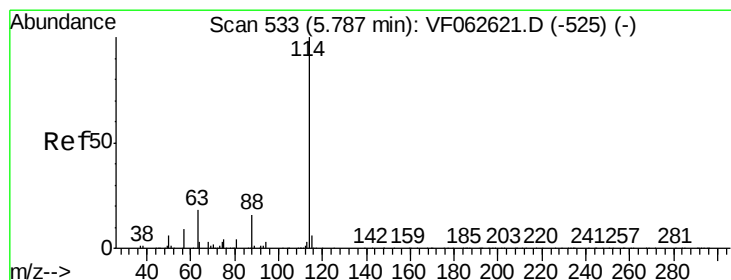
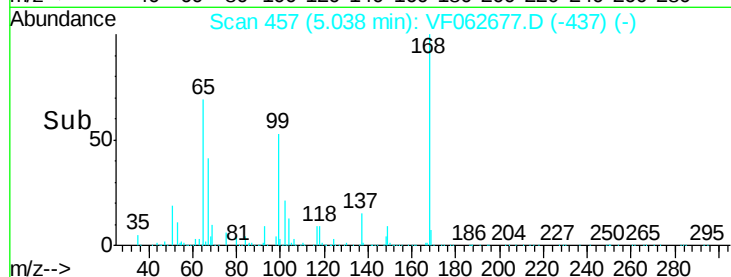
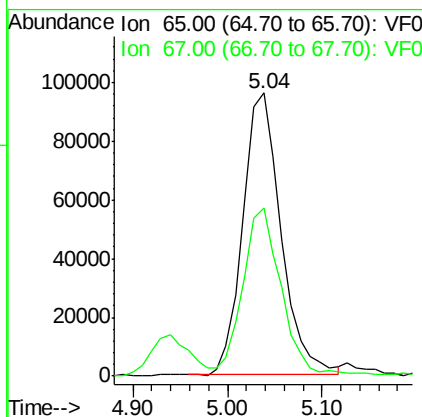
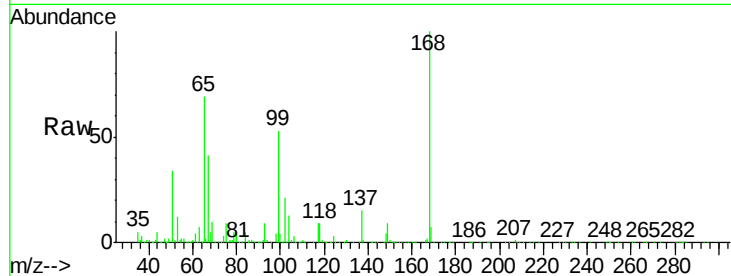
#33
 1,2-Dichloroethane-d4
 Concen: 51.504 ug/l
 RT: 5.04 min Scan# 457
 Delta R.T. 0.00 min
 Lab File: VF062677.D
 Acq: 21 May 2019 12:11

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0521SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	270082		
67	59.5	0.0	117.6	

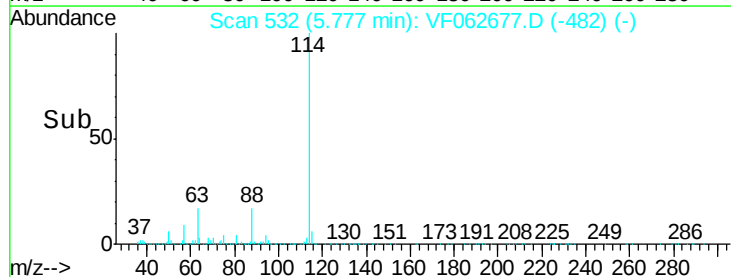
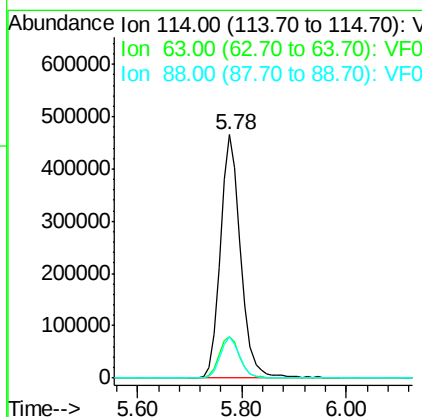
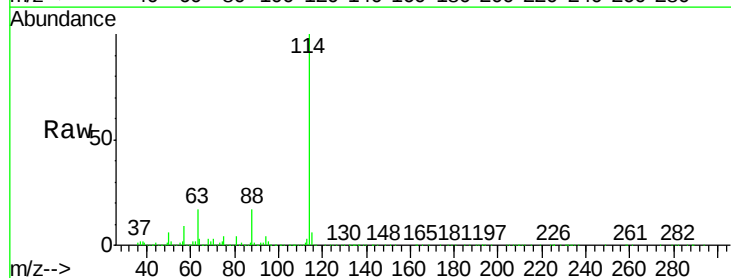
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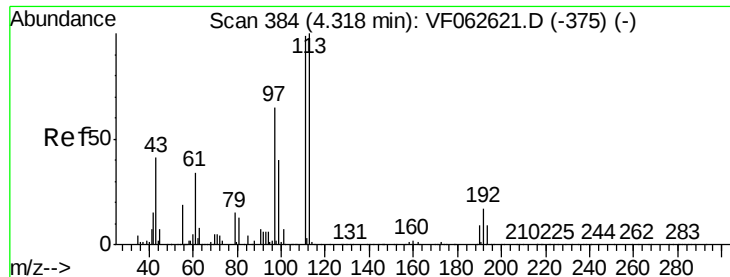
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.78 min Scan# 532
 Delta R.T. -0.01 min
 Lab File: VF062677.D
 Acq: 21 May 2019 12:11

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1250825		
63	17.3	0.0	35.4	
88	17.1	0.0	32.4	





#35

Dibromofluoromethane

Concen: 52.513 ug/l

RT: 4.31 min Scan# 383

Delta R.T. -0.01 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Instrument :

MSVOA_F

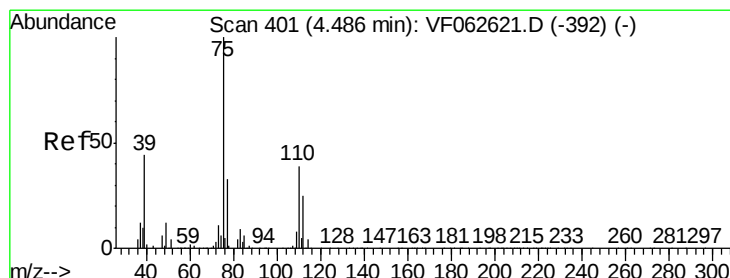
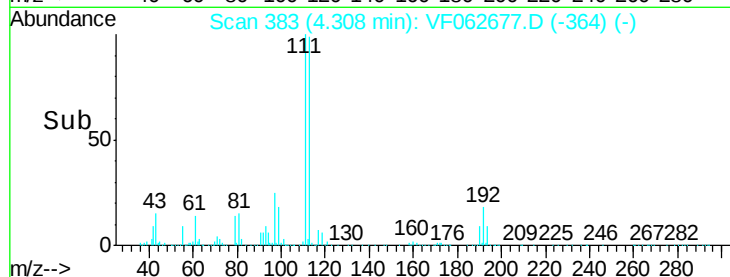
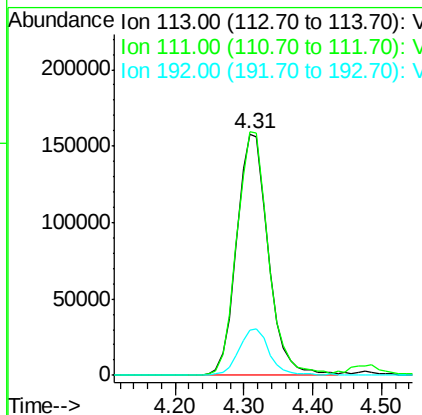
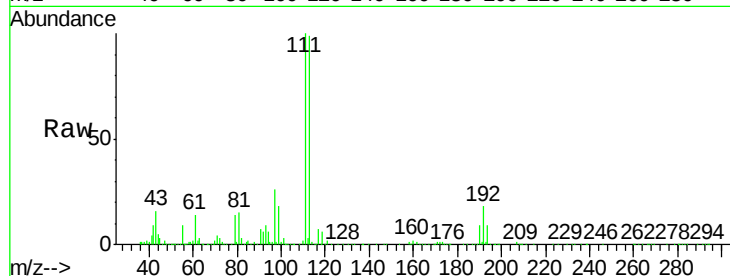
ClientSampleId :

VF0521SBS01

Tot Ion:	113	Resp:	502625
Ion Ratio	Lower	Upper	
113	100		
111	100.9	79.4	119.2
192	18.6	13.4	20.2

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#36

1,1-Dichloropropene

Concen: 21.088 ug/l

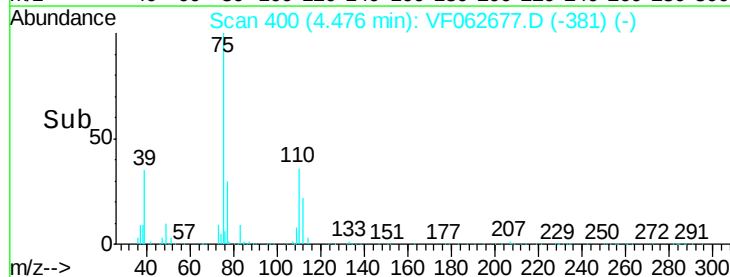
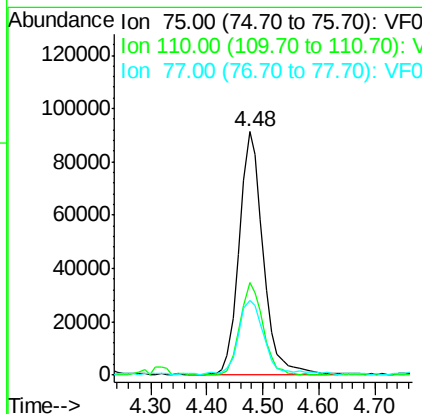
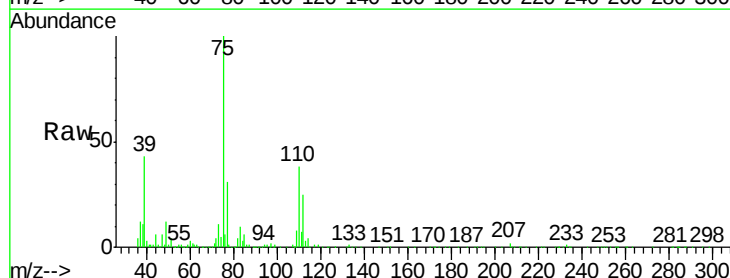
RT: 4.48 min Scan# 400

Delta R.T. -0.01 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Tgt Ion:	75	Resp:	270287
Ion Ratio	Lower	Upper	
75	100		
110	37.8	19.7	59.1
77	30.9	26.3	39.5





#37

Ethyl Acetate

Concen: 18.585 ug/l

RT: 4.32 min Scan# 384

Delta R.T. 0.01 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Instrument :

MSVOA_F

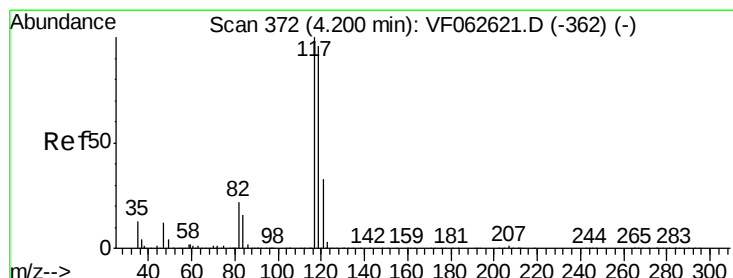
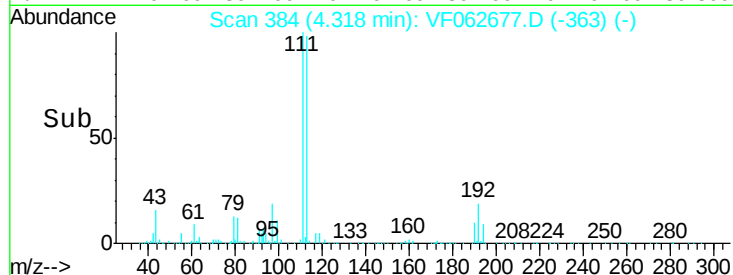
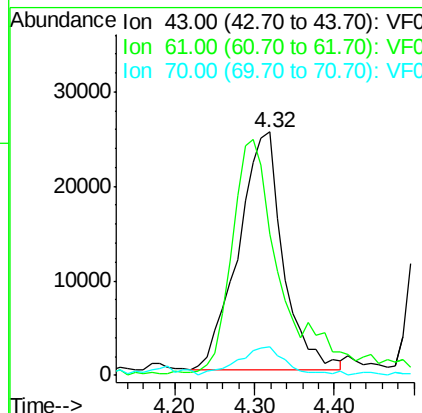
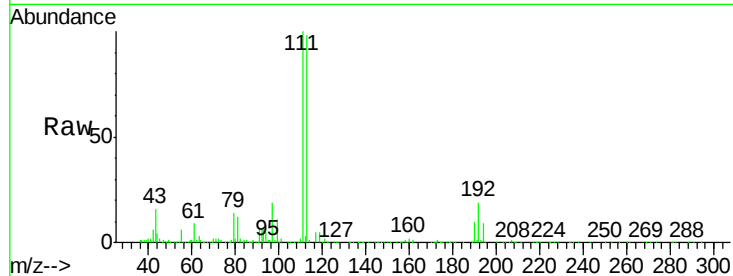
ClientSampleId :

VF0521SBS01

Tot Ion:	43	Resp:	97262
Ion	Ratio	Lower	Upper
43	100		
61	58.2	76.9	115.3#
70	11.9	8.8	13.2

Manual Integrations
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#38

Carbon Tetrachloride

Concen: 20.258 ug/l

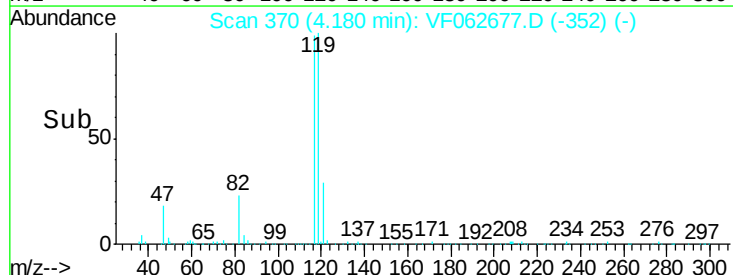
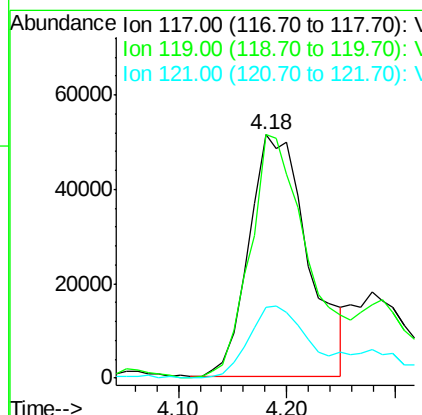
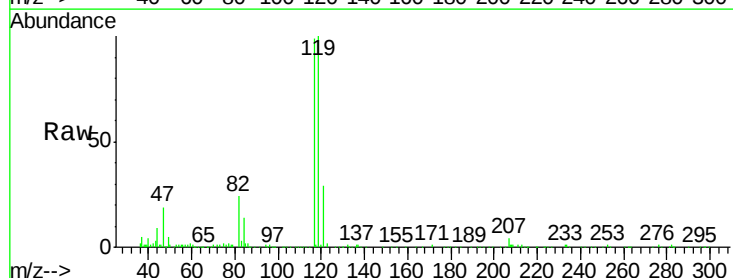
RT: 4.18 min Scan# 370

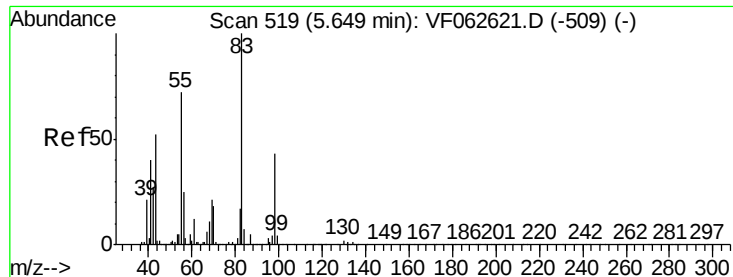
Delta R.T. -0.02 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Tgt Ion:	117	Resp:	195280
Ion	Ratio	Lower	Upper
117	100		
119	99.9	76.7	115.1
121	29.1	26.6	40.0





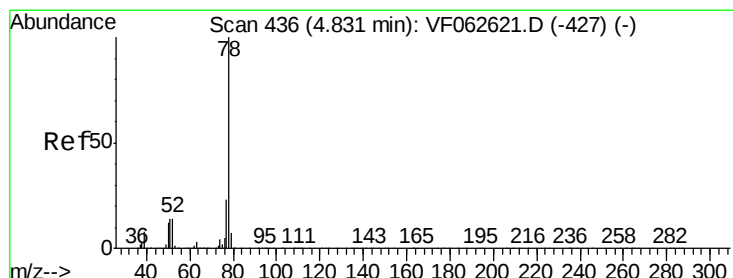
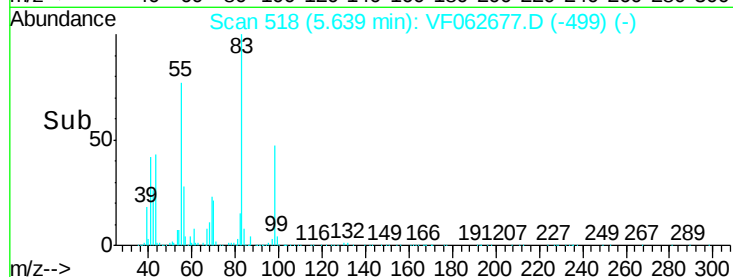
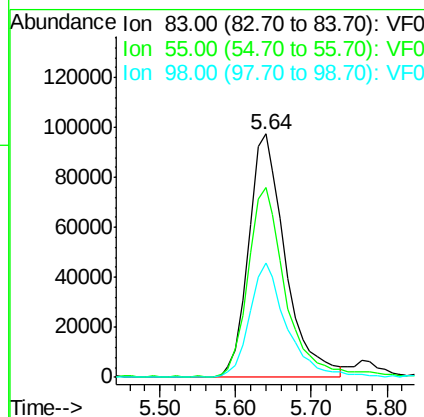
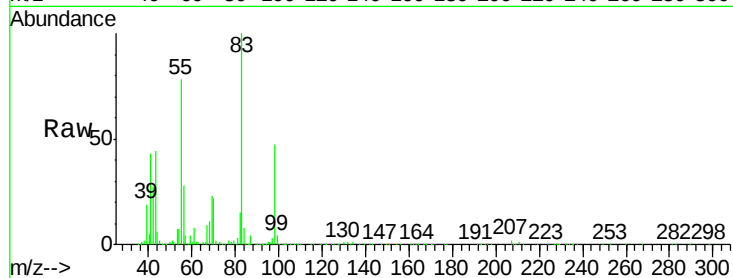
#39
Methvlcvclohexane
Concen: 21.416 ug/l
RT: 5.64 min Scan# 518
Delta R.T. -0.01 min
Lab File: VF062677.D
Acq: 21 May 2019 12:11

Instrument :
MSVOA_F
ClientSampleId :
VF0521SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	77.9	57.9	86.9
98	47.2	34.6	52.0

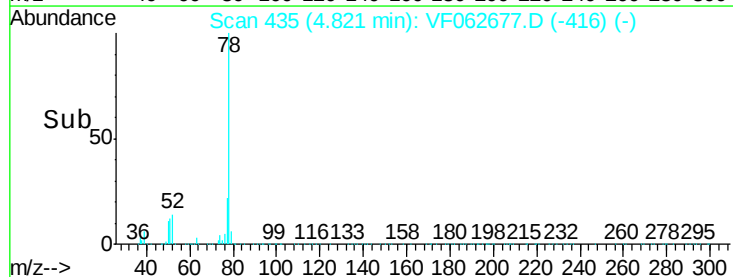
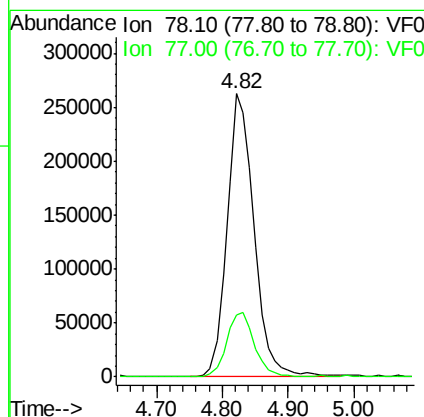
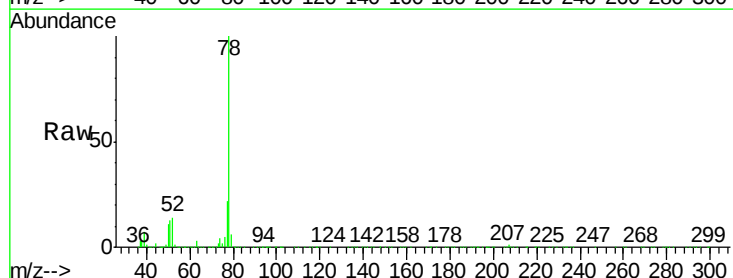
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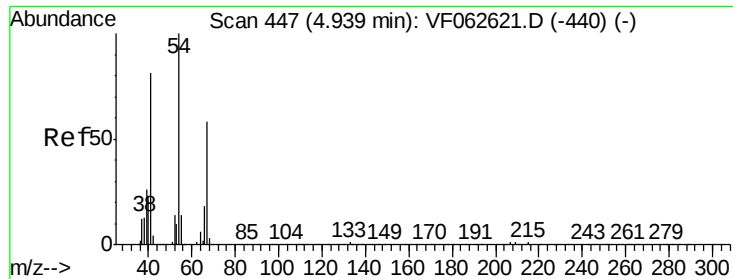
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#40
Benzene
Concen: 21.568 ug/l
RT: 4.82 min Scan# 435
Delta R.T. -0.01 min
Lab File: VF062677.D
Acq: 21 May 2019 12:11

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.1	18.2	27.2





#41

Methacrylonitrile

Concen: 19.907 ug/l

RT: 4.94 min Scan# 447

Delta R.T. 0.00 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Instrument :

MSVOA_F

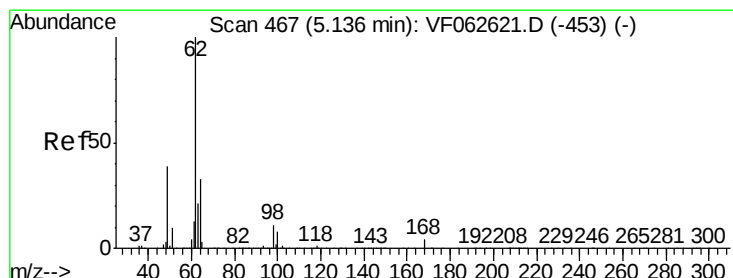
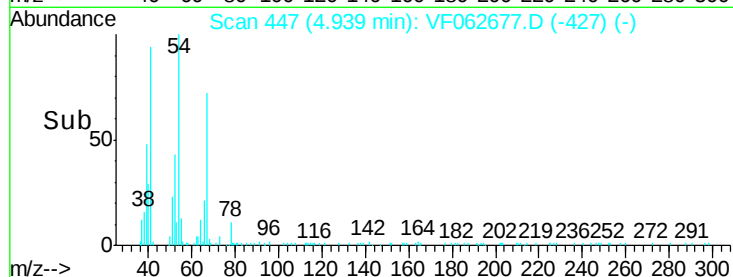
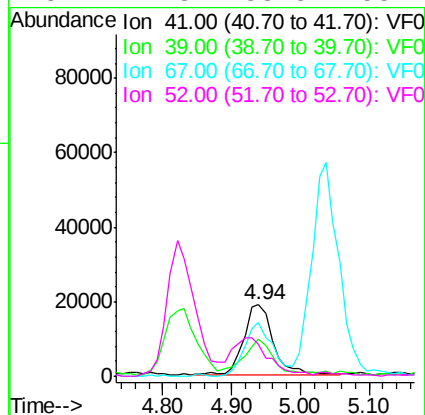
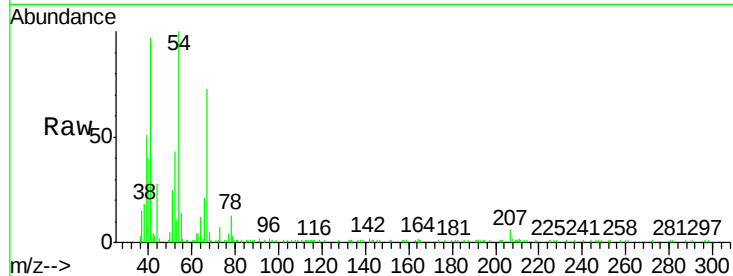
ClientSampleId :

VF0521SBS01

Tot Ion:	41	Resp:	54617
Ion Ratio	Lower	Upper	
41	100		
39	52.8	42.2	63.2
67	74.9	56.4	84.6
52	44.3	38.8	58.2

Manual Integrations
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#42

1,2-Dichloroethane

Concen: 20.977 ug/l

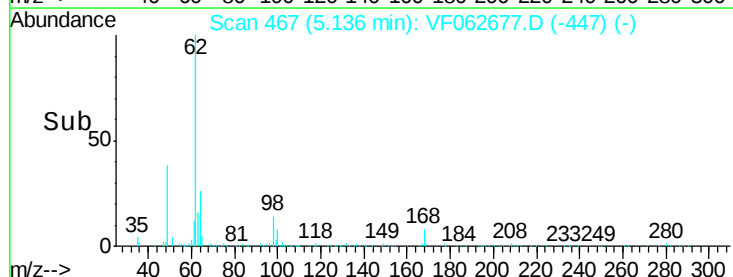
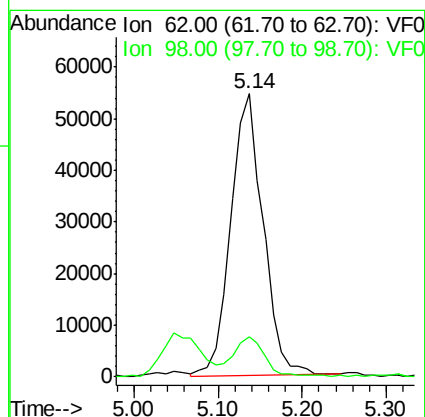
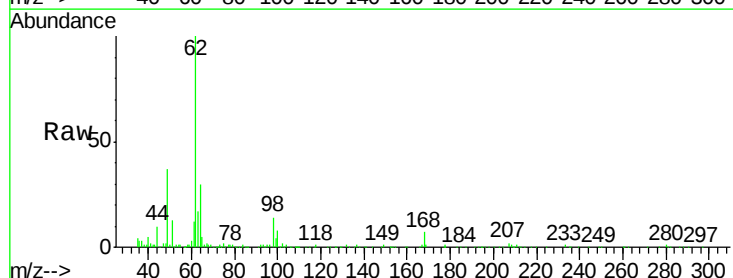
RT: 5.14 min Scan# 467

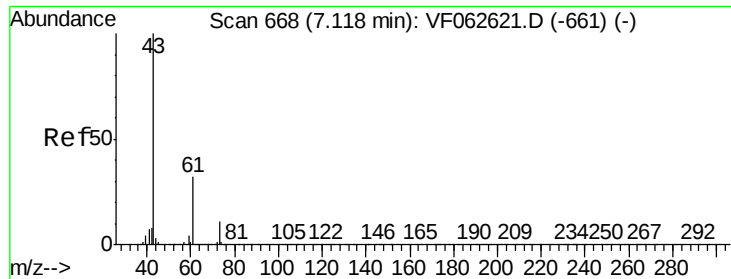
Delta R.T. 0.00 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Tgt Ion:	62	Resp:	146065
Ion Ratio	Lower	Upper	
62	100		
98	14.2	0.0	21.6





#43

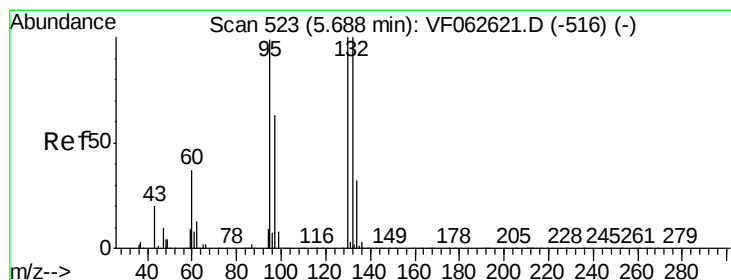
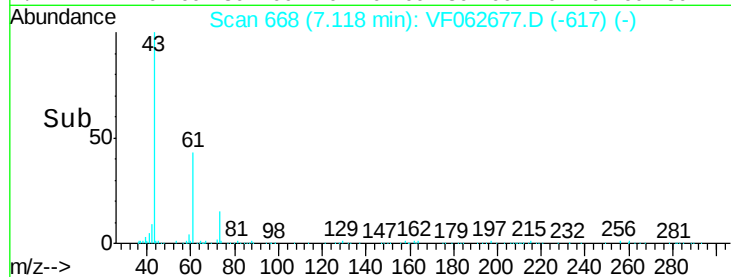
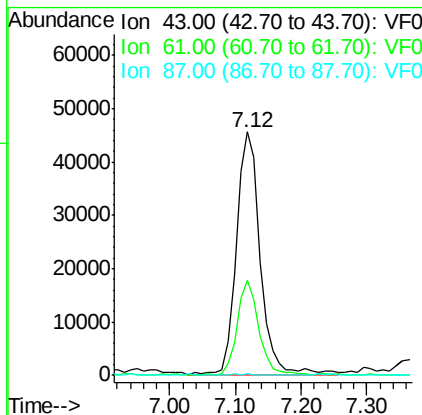
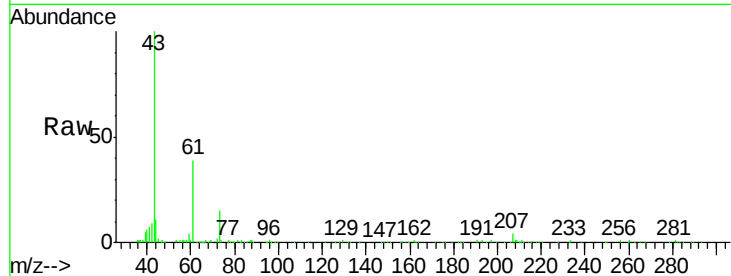
Isopropyl Acetate
 Concen: 16.963 ug/l
 RT: 7.12 min Scan# 668
 Delta R.T. 0.00 min
 Lab File: VF062677.D
 Acq: 21 May 2019 12:11

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0521SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	39.3	25.8	38.8#
87	0.6	0.4	0.6

Manual Integrations
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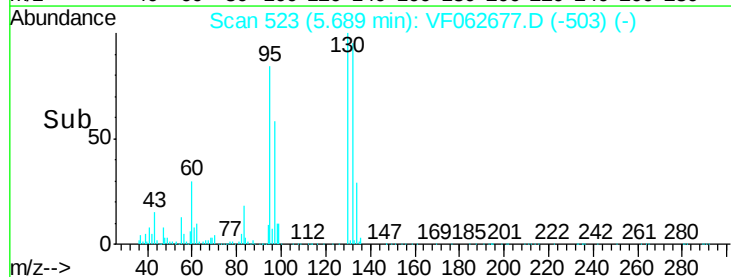
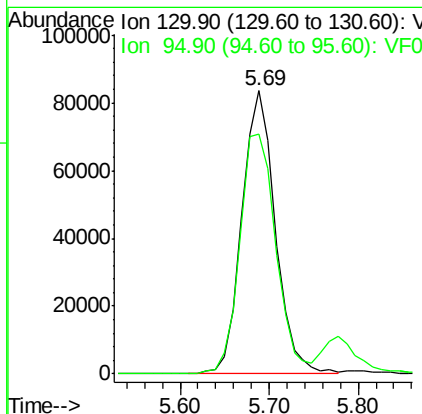
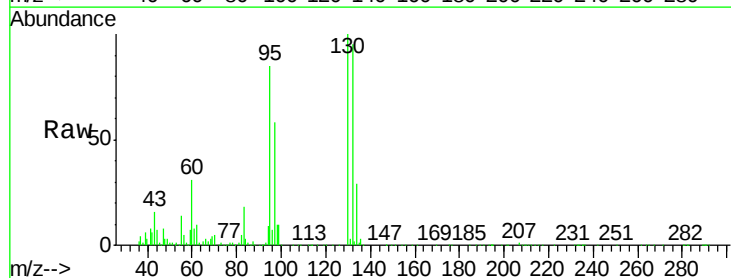
MMDadoda
 5/22/2019 4:20:53 PM

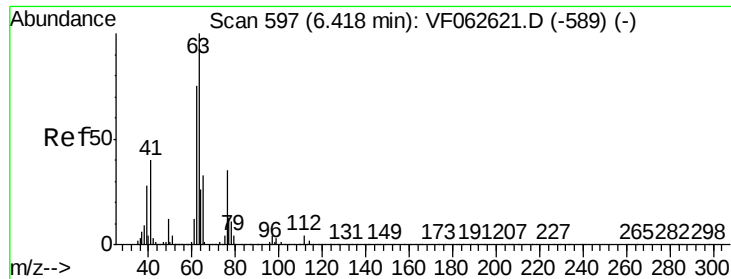


#44

Trichloroethene
 Concen: 22.123 ug/l
 RT: 5.69 min Scan# 523
 Delta R.T. 0.00 min
 Lab File: VF062677.D
 Acq: 21 May 2019 12:11

Tgt Ion	Ratio	Lower	Upper
130	100		
95	84.6	0.0	199.4





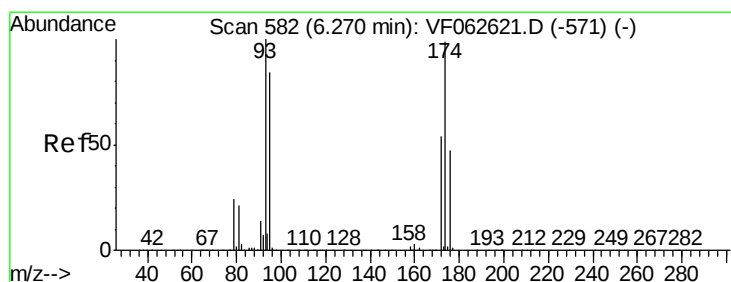
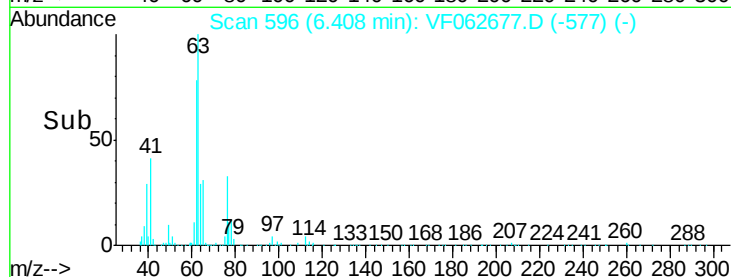
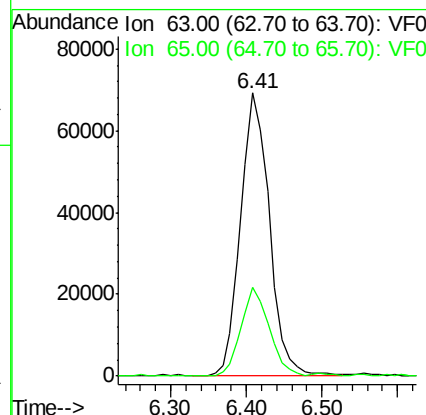
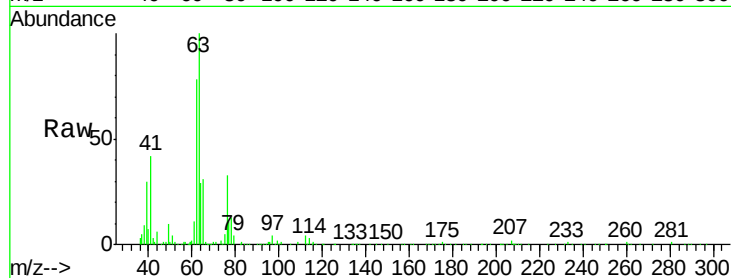
#45
 1,2-Dichloropropane
 Concen: 20.852 ug/l
 RT: 6.41 min Scan# 596
 Delta R.T. -0.01 min
 Lab File: VF062677.D
 Acq: 21 May 2019 12:11

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0521SBS01

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.3	26.3	39.5

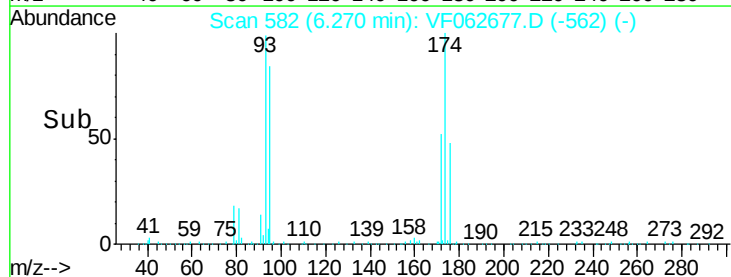
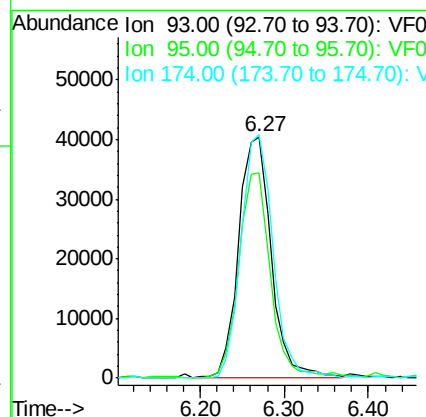
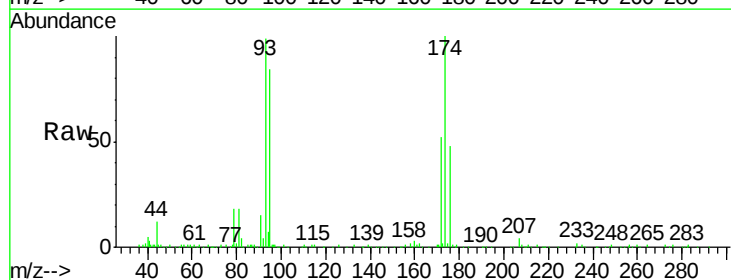
Manual Integrations
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#46
 Dibromomethane
 Concen: 21.281 ug/l
 RT: 6.27 min Scan# 582
 Delta R.T. 0.00 min
 Lab File: VF062677.D
 Acq: 21 May 2019 12:11

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.8	67.4	101.2
174	100.8	79.4	119.2





#47

Bromodichloromethane

Concen: 21.852 ug/l

RT: 6.56 min Scan# 611

Delta R.T. -0.01 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Instrument :

MSVOA_F

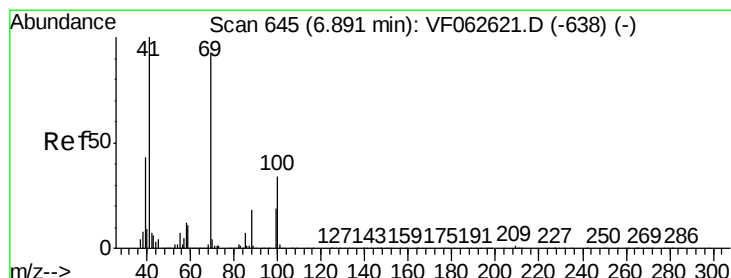
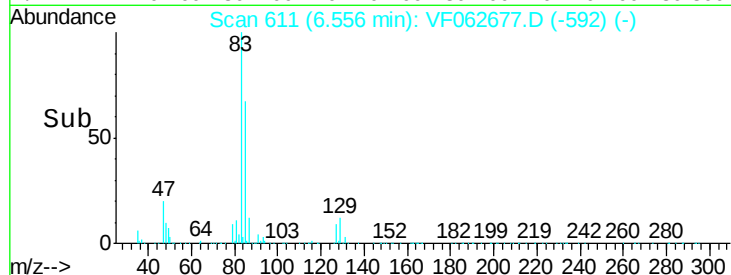
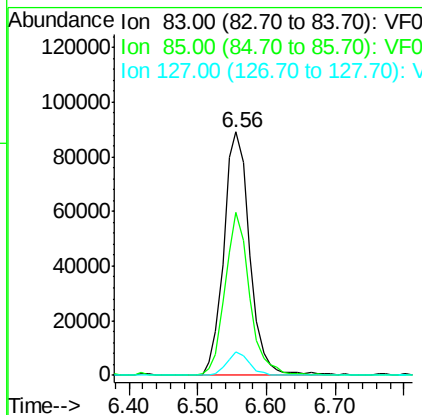
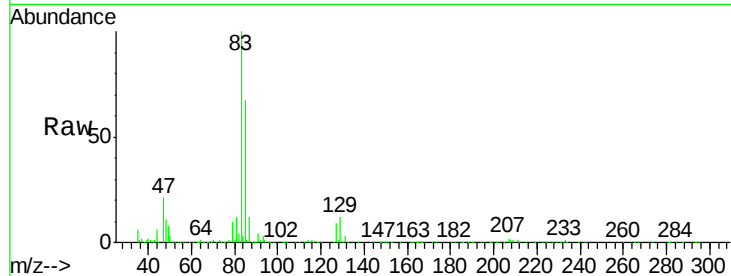
ClientSampleId :

VF0521SBS01

Tot Ion:	83	Resp:	231094
Ion Ratio	Lower	Upper	
83	100		
85	68.2	52.0	78.0
127	9.4	7.7	11.5

Manual Integrations
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5/22/2019 4:20:53 PM



#48

Methyl methacrylate

Concen: 18.091 ug/l

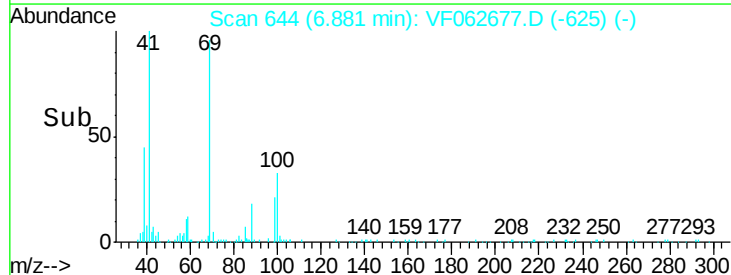
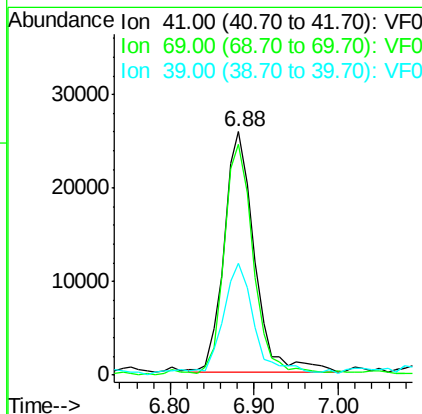
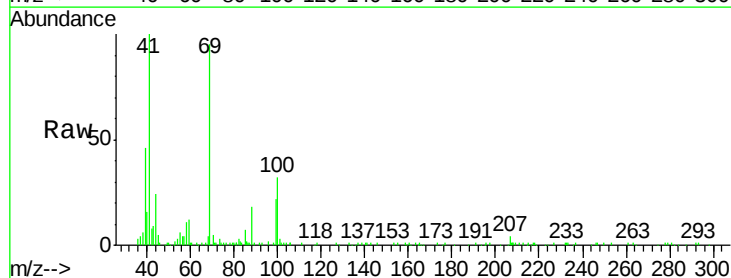
RT: 6.88 min Scan# 644

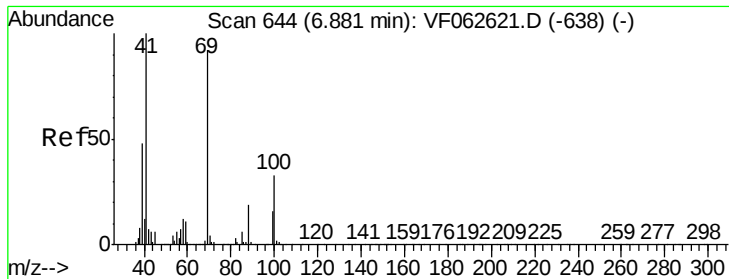
Delta R.T. -0.01 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Tgt Ion:	41	Resp:	64108
Ion Ratio	Lower	Upper	
41	100		
69	95.0	74.2	111.2
39	45.9	34.2	51.4





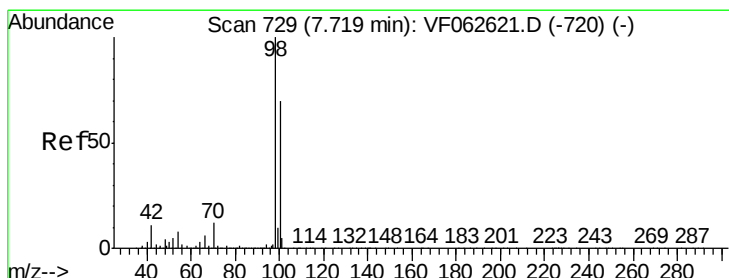
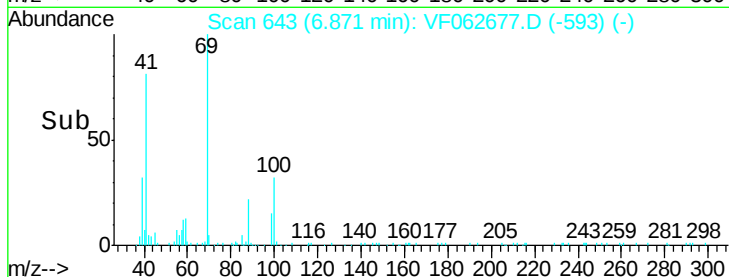
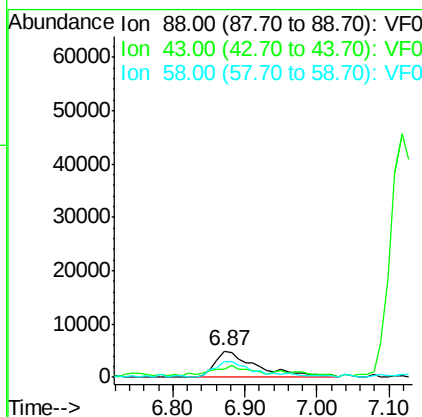
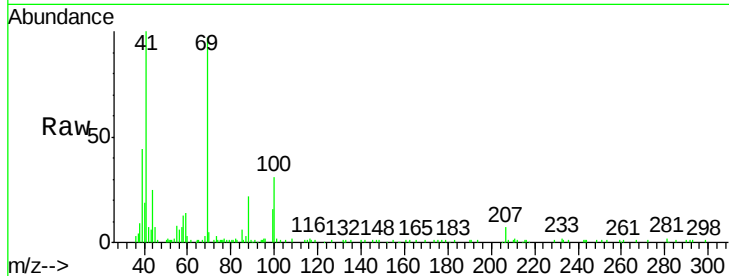
#49
1,4-Dioxane
Concen: 439.811 ug/l
RT: 6.87 min Scan# 643
Delta R.T. -0.01 min
Lab File: VF062677.D
Acq: 21 May 2019 12:11

Instrument :
MSVOA_F
ClientSampleId :
VF0521SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	28.5	30.0	45.0#
58	58.6	51.1	76.7

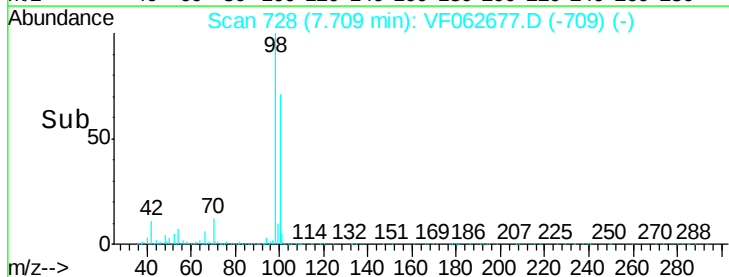
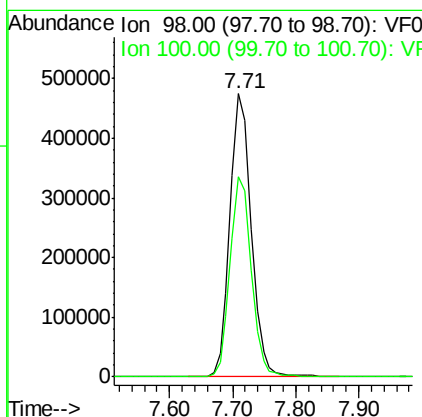
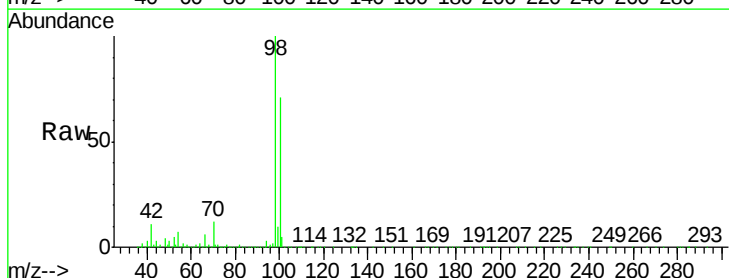
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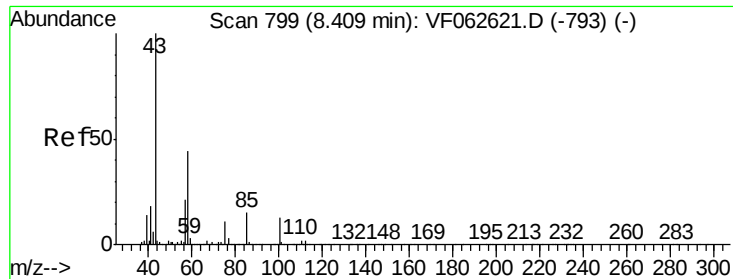
MMDadoda
5/22/2019 4:20:53 PM



#50
Toluene-d8
Concen: 48.584 ug/l
RT: 7.71 min Scan# 728
Delta R.T. -0.01 min
Lab File: VF062677.D
Acq: 21 May 2019 12:11

Tgt Ion	Ratio	Lower	Upper
98	100		
100	70.9	56.2	84.2





#51

4-Methyl-2-Pentanone

Concen: 96.785 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.01 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Instrument :

MSVOA_F

ClientSampleId :

VF0521SBS01

Tot Ion: 43 Resp: 448531

Ion Ratio Lower Upper

43 100

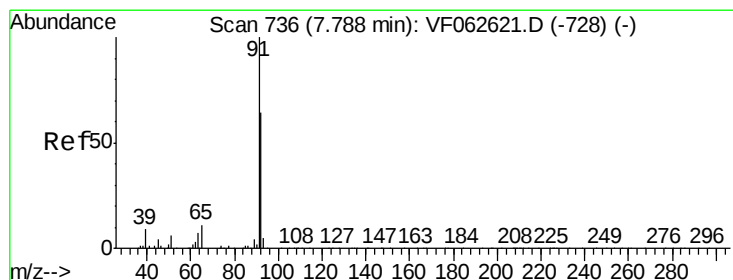
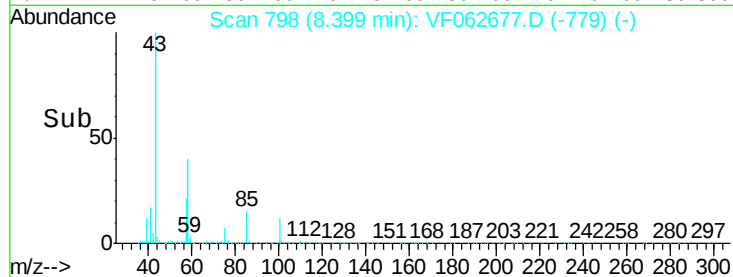
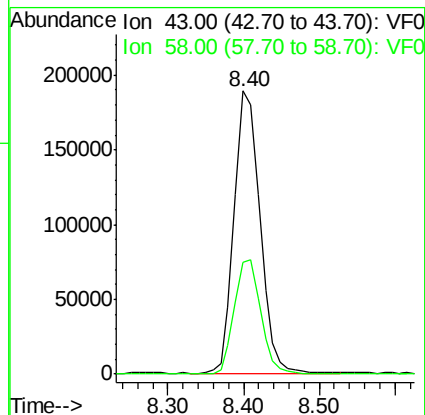
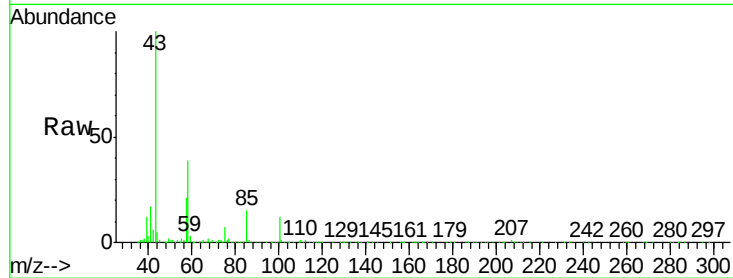
58 39.4 34.9 52.3

Manual Integrations

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5/22/2019 4:20:53 PM



#52

Toluene

Concen: 19.906 ug/l

RT: 7.78 min Scan# 735

Delta R.T. -0.01 min

Lab File: VF062677.D

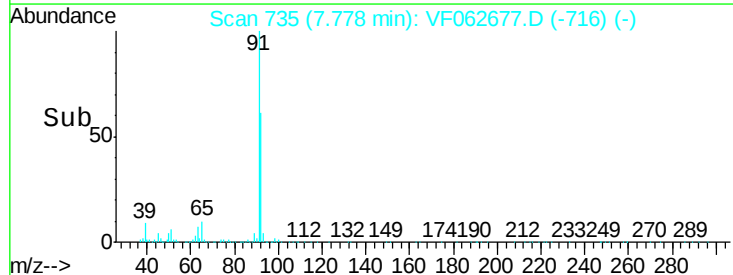
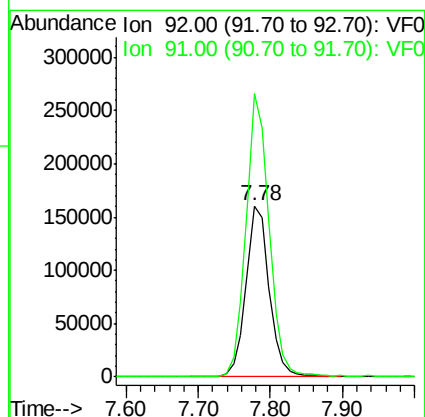
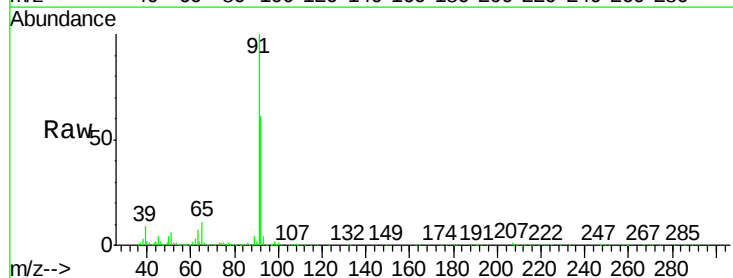
Acq: 21 May 2019 12:11

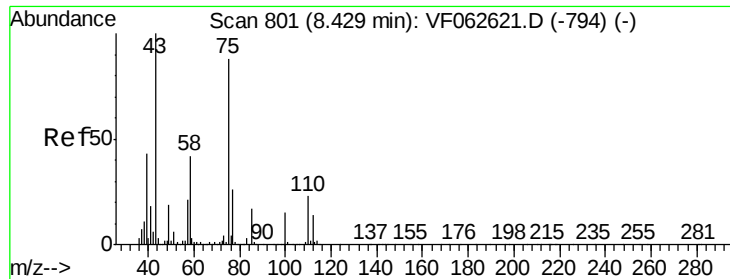
Tgt Ion: 92 Resp: 364530

Ion Ratio Lower Upper

92 100

91 165.3 125.4 188.0





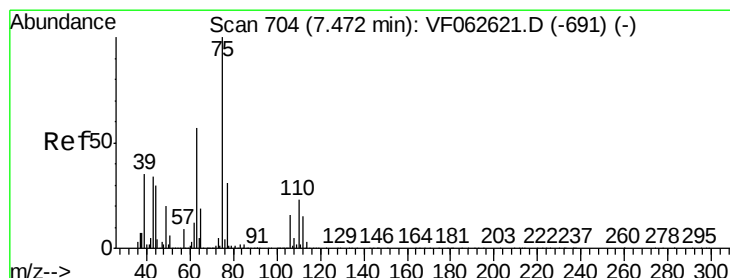
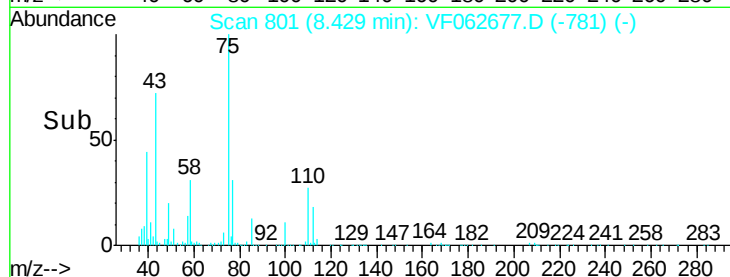
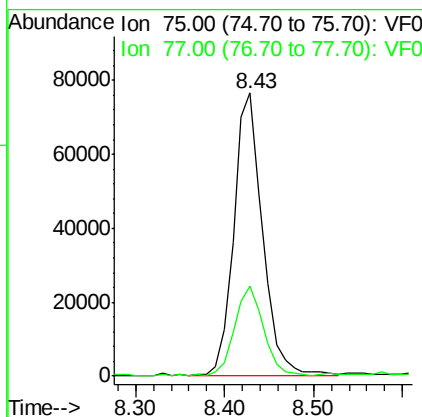
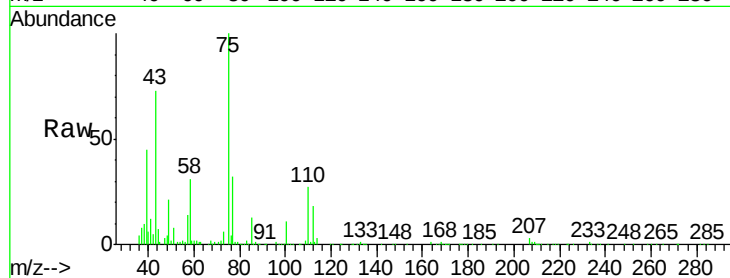
#53
t-1,3-Dichloropropene
Concen: 19.841 ug/l
RT: 8.43 min Scan# 801
Delta R.T. 0.00 min
Lab File: VF062677.D
Acq: 21 May 2019 12:11

Instrument :
MSVOA_F
ClientSampleId :
VF0521SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.8	24.2	36.4

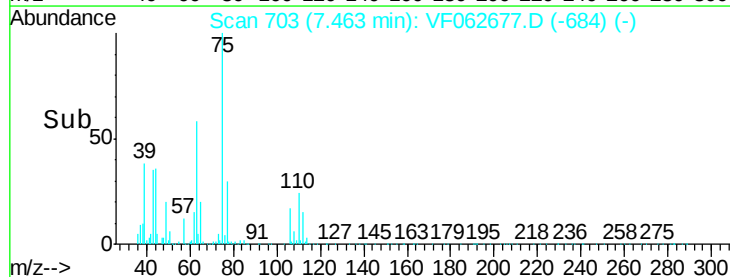
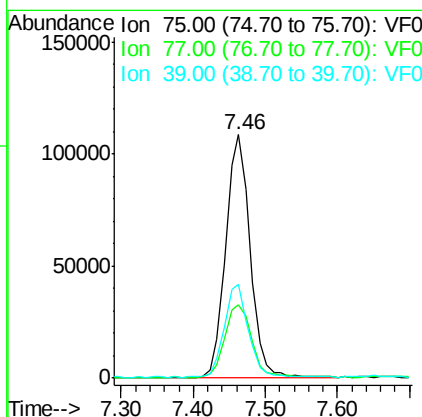
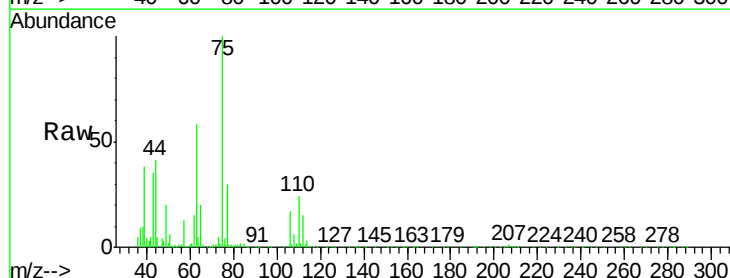
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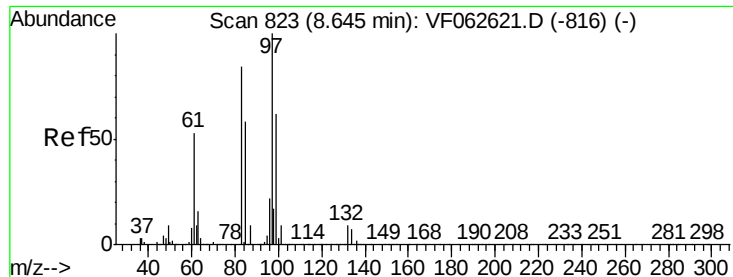
MMDadoda
5/22/2019 4:20:53 PM



#54
cis-1,3-Dichloropropene
Concen: 21.266 ug/l
RT: 7.46 min Scan# 703
Delta R.T. -0.01 min
Lab File: VF062677.D
Acq: 21 May 2019 12:11

Tgt Ion	Ratio	Lower	Upper
75	100		
77	30.0	25.3	37.9
39	38.4	28.2	42.2





#55

1,1,2-Trichloroethane

Concen: 21.021 ug/l

RT: 8.64 min Scan# 822

Delta R.T. -0.01 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Instrument :

MSVOA_F

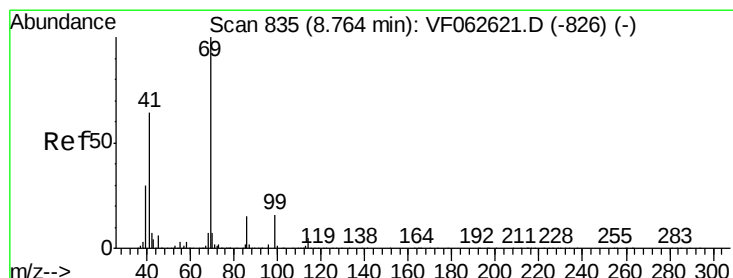
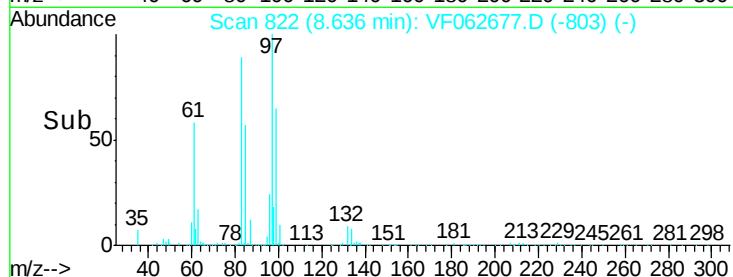
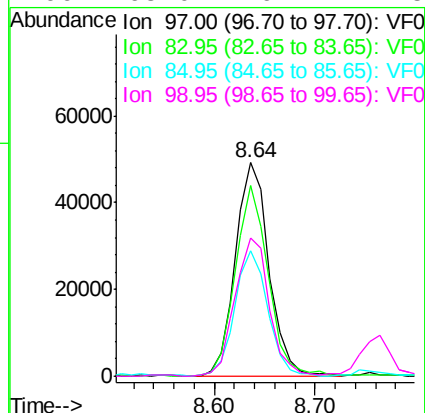
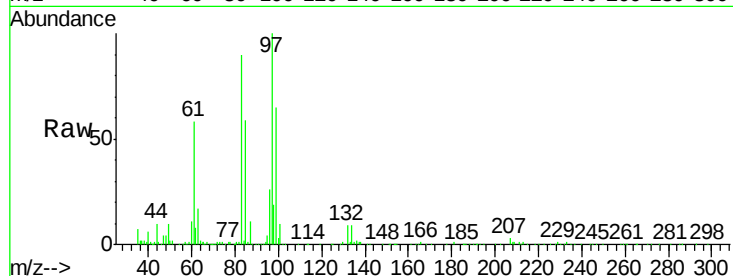
ClientSampleId :

VF0521SBS01

Tot Ion:	97	Resp:	113974
Ion	Ratio	Lower	Upper
97	100		
83	89.5	67.3	100.9
85	59.0	46.6	69.8
99	65.0	49.7	74.5

Manual Integrations
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#56

Ethyl methacrylate

Concen: 18.254 ug/l

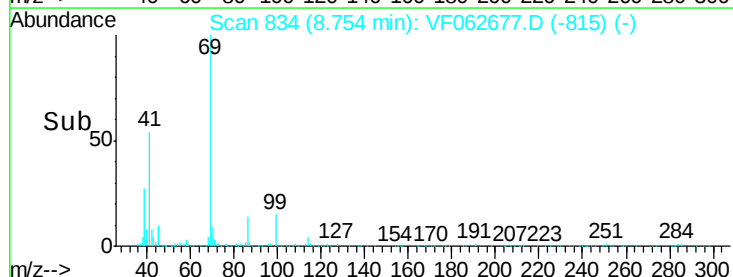
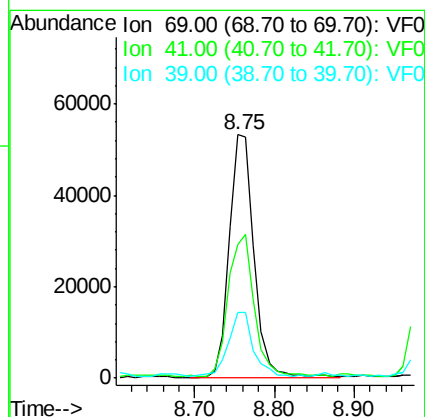
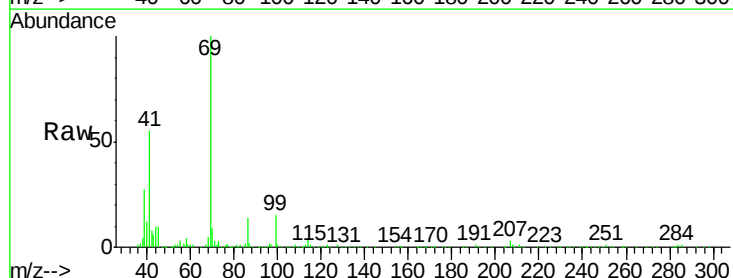
RT: 8.75 min Scan# 834

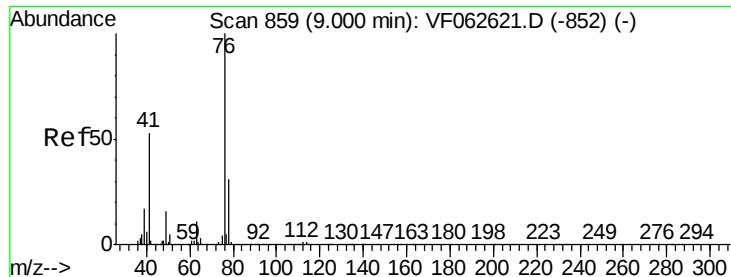
Delta R.T. -0.01 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Tgt Ion:	69	Resp:	117917
Ion	Ratio	Lower	Upper
69	100		
41	55.0	51.4	77.2
39	26.8	23.6	35.4





#57

1,3-Dichloropropane

Concen: 20.252 ug/l

RT: 9.00 min Scan# 859

Delta R.T. 0.00 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Instrument :

MSVOA_F

ClientSampleId :

VF0521SBS01

Tot Ion: 76 Resp: 187035

Ion Ratio Lower Upper

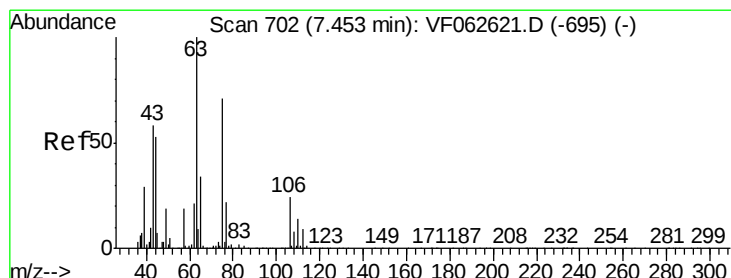
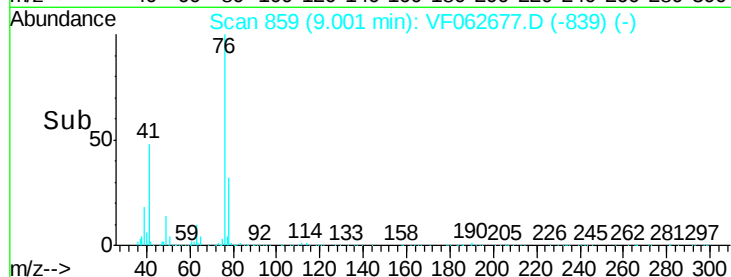
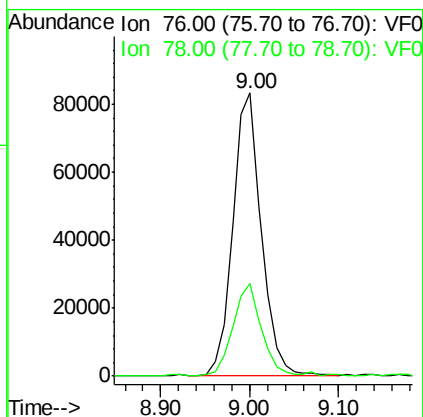
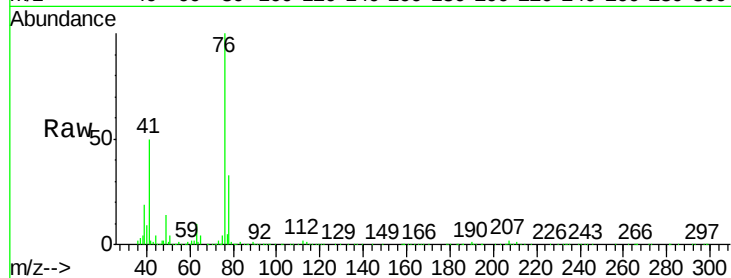
76 100

78 32.8 25.4 38.0

Manual Integrations
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5/22/2019 4:20:53 PM



#58

2-Chloroethyl Vinyl ether

Concen: 97.248 ug/l

RT: 7.45 min Scan# 702

Delta R.T. 0.00 min

Lab File: VF062677.D

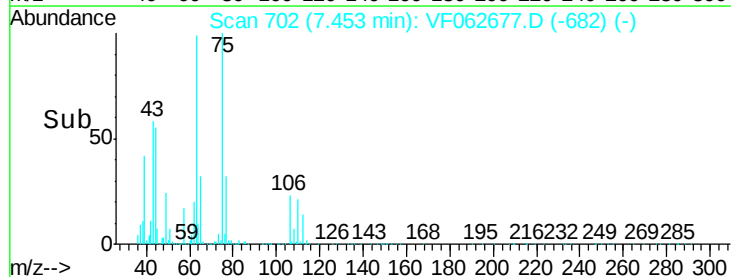
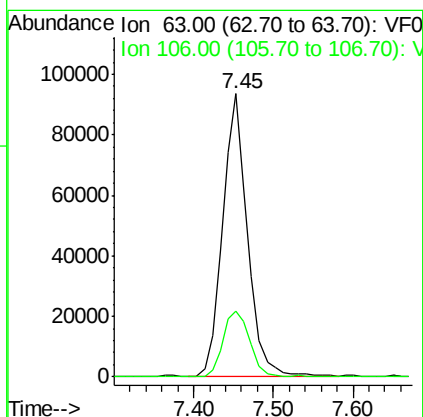
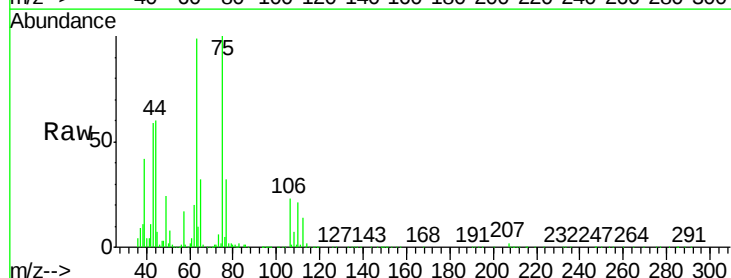
Acq: 21 May 2019 12:11

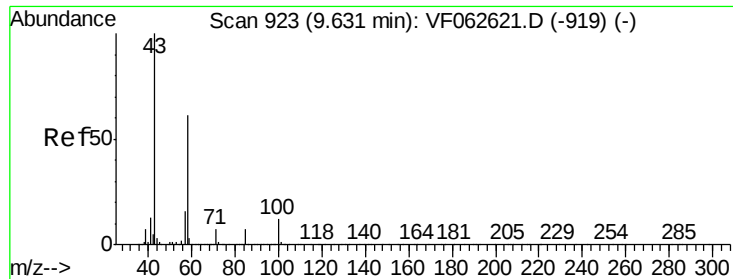
Tgt Ion: 63 Resp: 204474

Ion Ratio Lower Upper

63 100

106 23.4 19.1 28.7





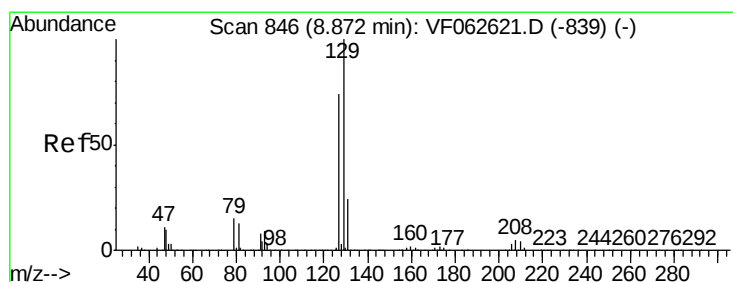
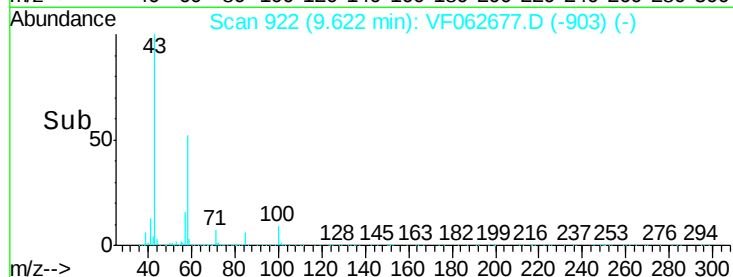
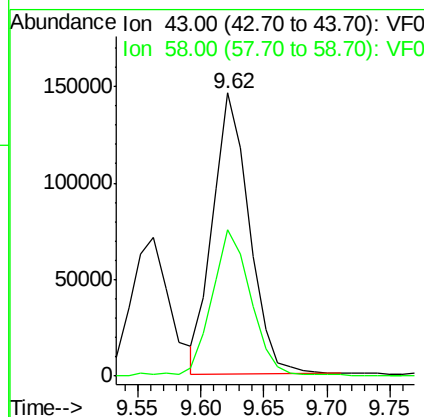
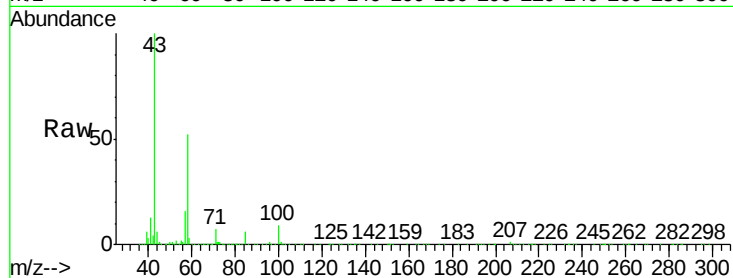
#59
2-Hexanone
Concen: 85.567 ug/l
RT: 9.62 min Scan# 922
Delta R.T. -0.01 min
Lab File: VF062677.D
Acq: 21 May 2019 12:11

Instrument :
MSVOA_F
ClientSampleId :
VF0521SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	51.8	28.1	84.4

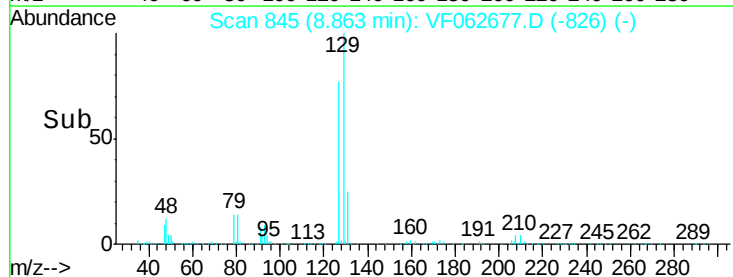
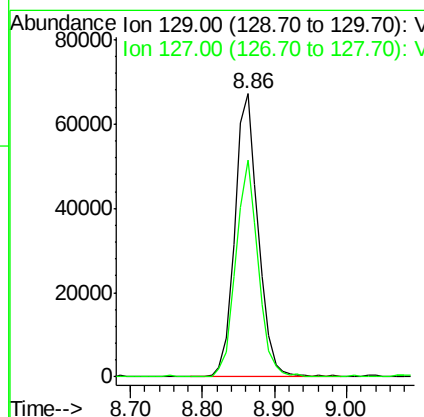
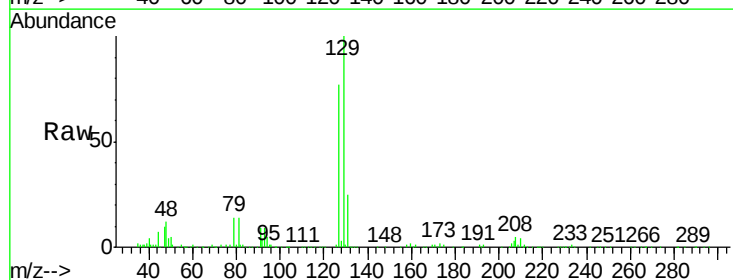
Manual Integrations
APPROVED

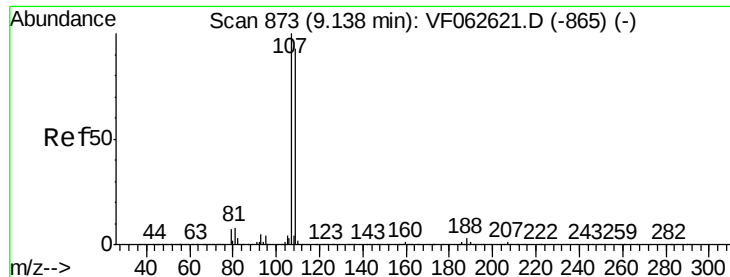
MMDadoda
5/22/2019 4:20:53 PM



#60
Dibromochloromethane
Concen: 21.482 ug/l
RT: 8.86 min Scan# 845
Delta R.T. -0.01 min
Lab File: VF062677.D
Acq: 21 May 2019 12:11

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.7	37.2	111.6





#61

1,2-Dibromoethane

Concen: 21.063 ug/l

RT: 9.13 min Scan# 872

Delta R.T. -0.01 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Instrument :

MSVOA_F

ClientSampleId :

VF0521SBS01

Tot Ion: 107 Resp: 121300

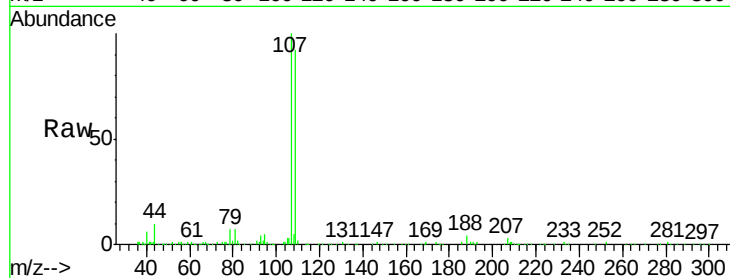
Ion Ratio Lower Upper

107 100

109 91.7 74.8 112.2

Manual Integrations
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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

60000

50000

40000

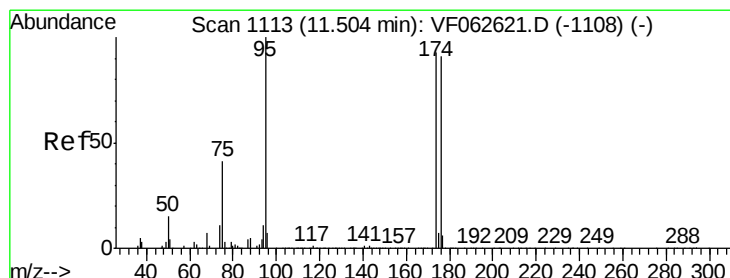
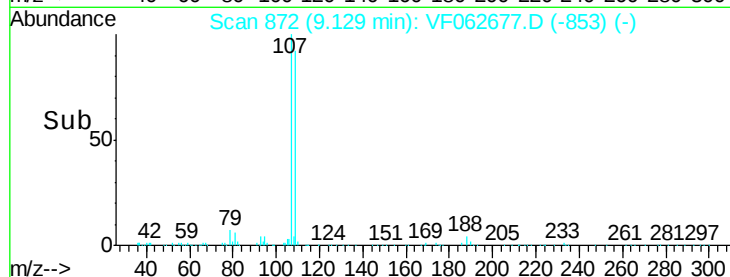
30000

20000

10000

0

Time--> 9.00 9.10 9.20



#62

4-Bromofluorobenzene

Concen: 43.364 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

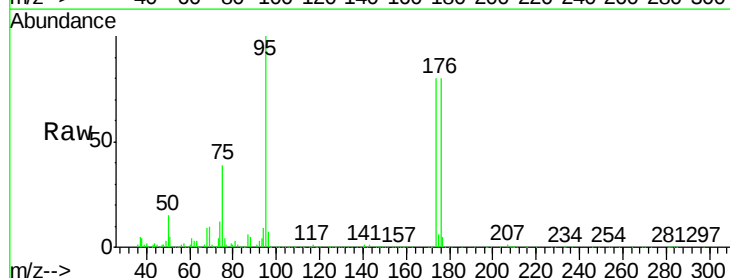
Tgt Ion: 95 Resp: 375851

Ion Ratio Lower Upper

95 100

174 79.6 0.0 185.6

176 80.2 0.0 182.4



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

300000

250000

200000

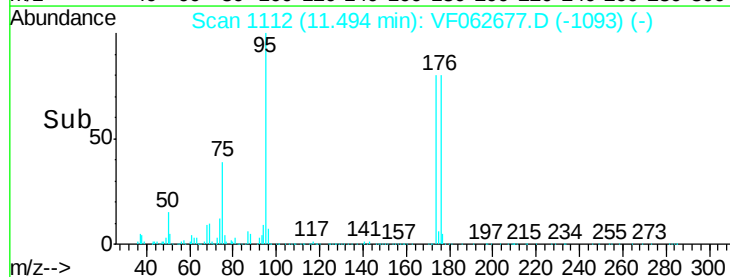
150000

100000

50000

0

Time--> 11.40 11.50 11.60





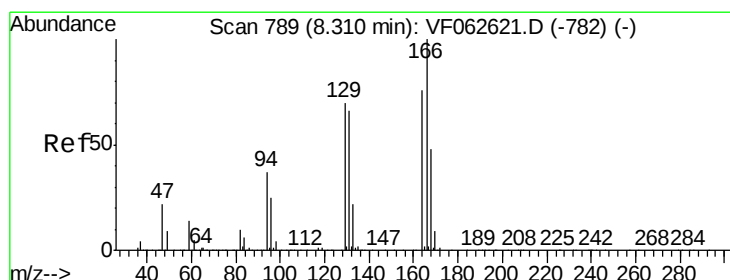
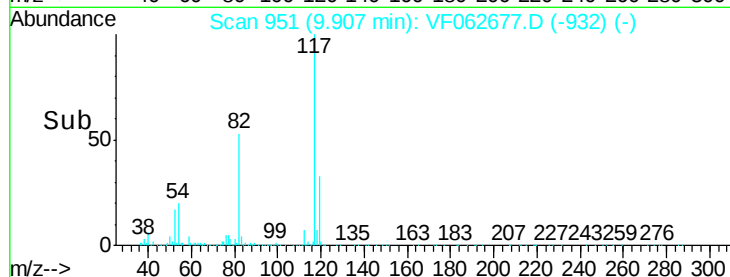
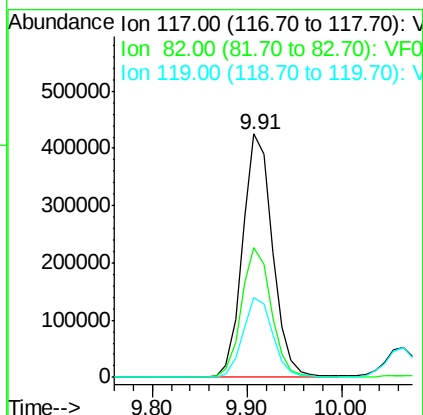
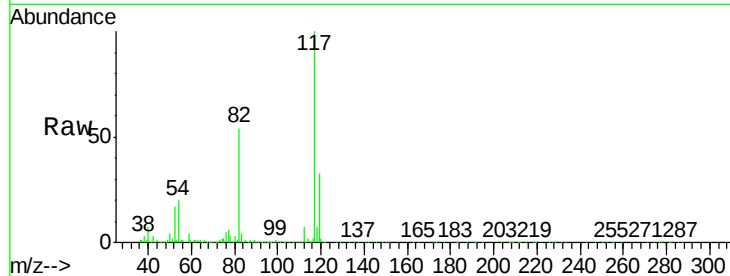
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 951
Delta R.T. -0.01 min
Lab File: VF062677.D
Acq: 21 May 2019 12:11

Instrument :
MSVOA_F
ClientSampleId :
VF0521SBS01

Tot Ion:	117	Resp:	933873
Ion Ratio	Lower	Upper	
117	100		
82	53.5	43.3	64.9
119	32.9	27.4	41.0

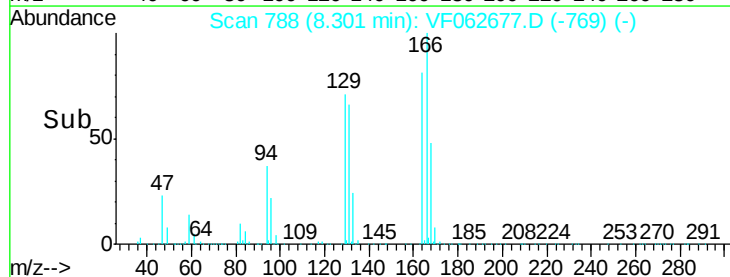
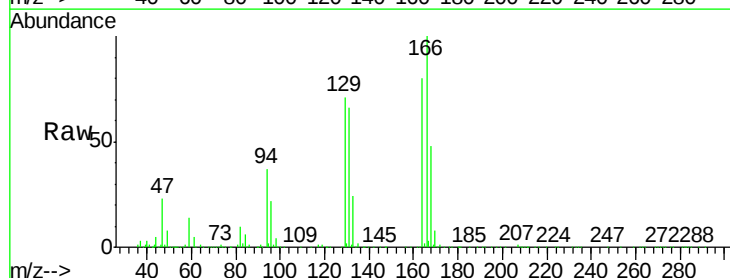
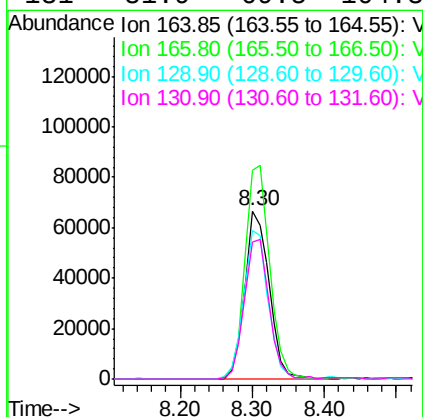
Manual Integrations
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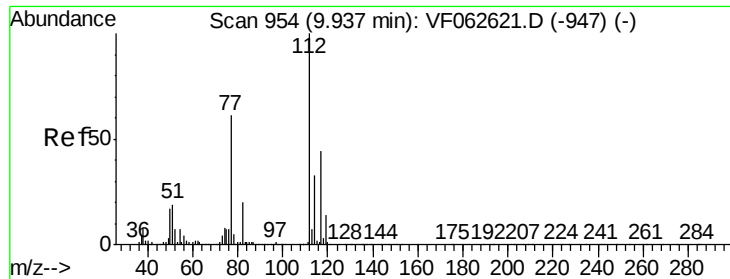
MMDadoda
5/22/2019 4:20:53 PM



#64
Tetrachloroethene
Concen: 21.487 ug/l
RT: 8.30 min Scan# 788
Delta R.T. -0.01 min
Lab File: VF062677.D
Acq: 21 May 2019 12:11

Tgt Ion:	164	Resp:	158969
Ion Ratio	Lower	Upper	
164	100		
166	124.4	105.5	158.3
129	88.6	73.8	110.6
131	81.9	69.5	104.3





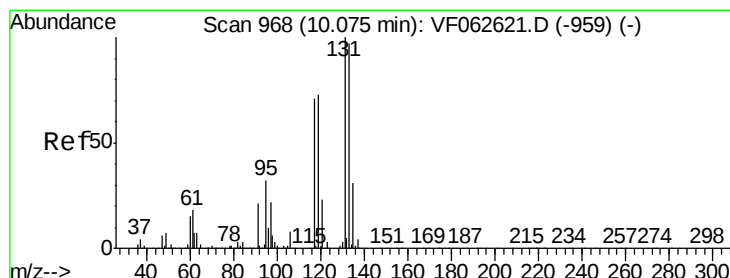
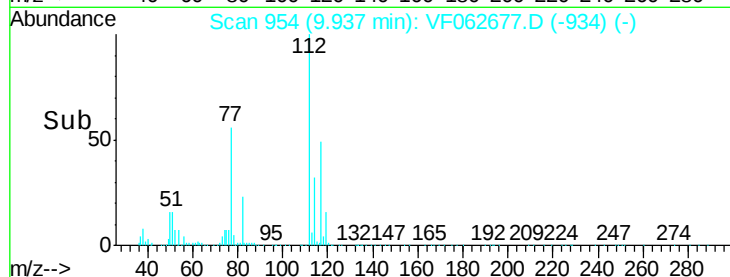
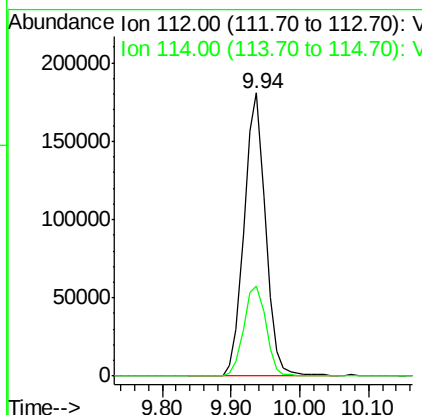
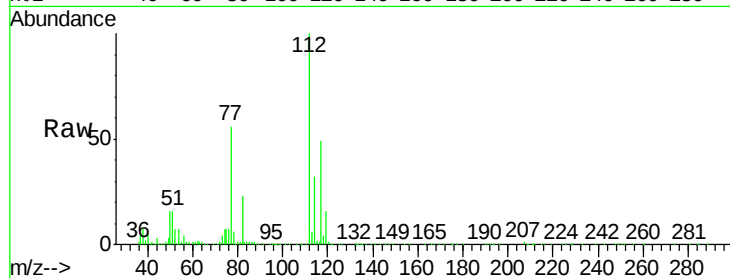
#65
Chlorobenzene
Concen: 21.287 ug/l
RT: 9.94 min Scan# 954
Delta R.T. 0.00 min
Lab File: VF062677.D
Acq: 21 May 2019 12:11

Instrument :
MSVOA_F
ClientSampleId :
VF0521SBS01

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.0	26.8	40.2

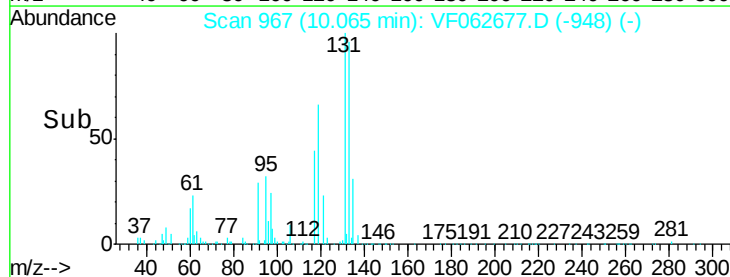
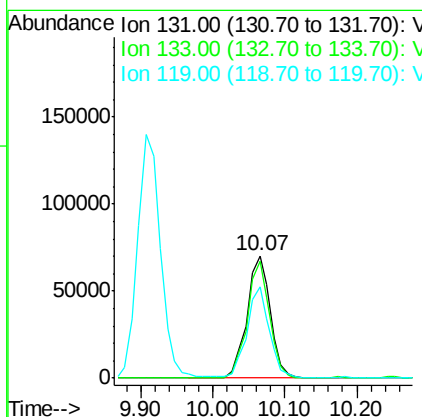
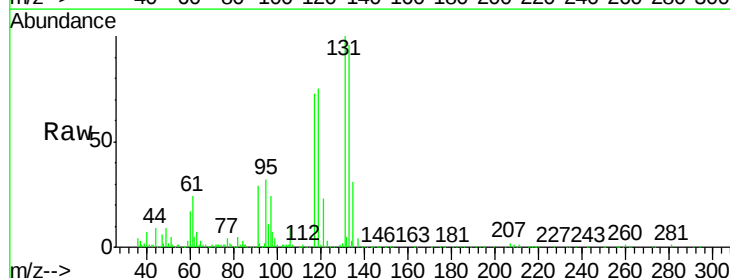
Manual Integrations
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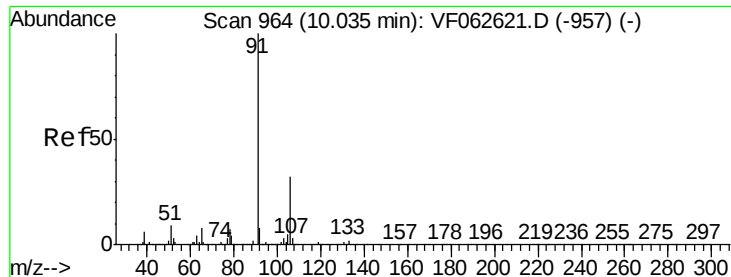
MMDadoda
5/22/2019 4:20:53 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 21.665 ug/l
RT: 10.07 min Scan# 967
Delta R.T. -0.01 min
Lab File: VF062677.D
Acq: 21 May 2019 12:11

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.7	48.5	145.5
119	74.9	36.8	110.4





#67

Ethyl Benzene

Concen: 20.830 ug/l

RT: 10.04 min Scan# 964

Delta R.T. 0.00 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Instrument :

MSVOA_F

ClientSampleId :

VF0521SBS01

Tot Ion: 91 Resp: 663747

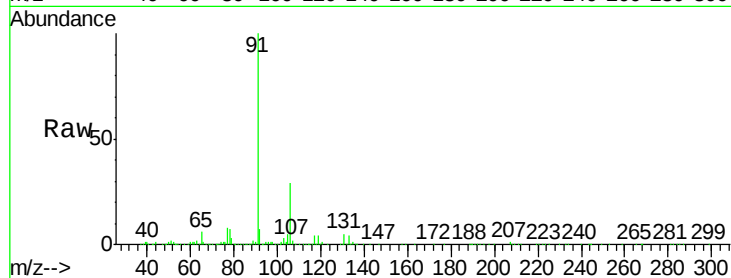
Ion Ratio Lower Upper

91 100

106 29.3 25.8 38.8

Manual Integrations
APPROVED

MMDadoda
5/22/2019 4:20:53 PM



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

10.04

300000

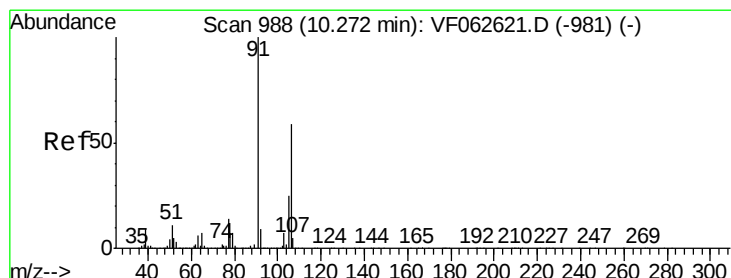
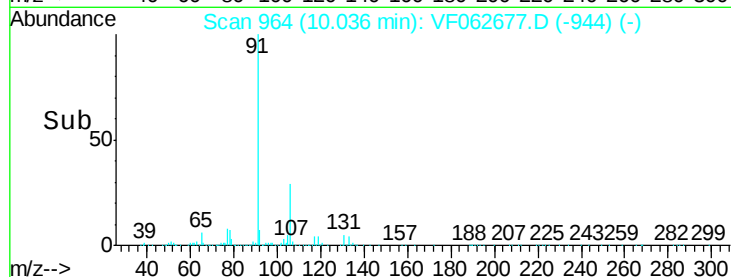
200000

100000

0

9.90 10.00 10.10 10.20

Time-->



#68

m/p-Xylenes

Concen: 40.055 ug/l

RT: 10.26 min Scan# 987

Delta R.T. -0.01 min

Lab File: VF062677.D

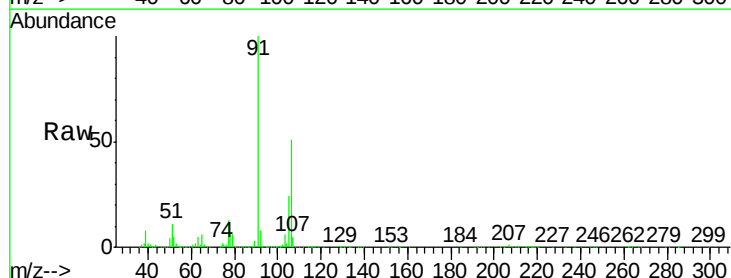
Acq: 21 May 2019 12:11

Tgt Ion: 106 Resp: 479702

Ion Ratio Lower Upper

106 100

91 194.6 136.9 205.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

500000

400000

300000

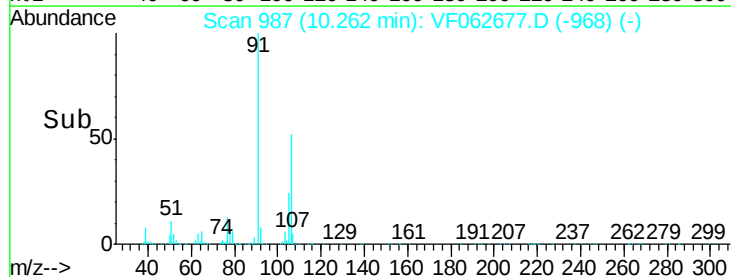
200000

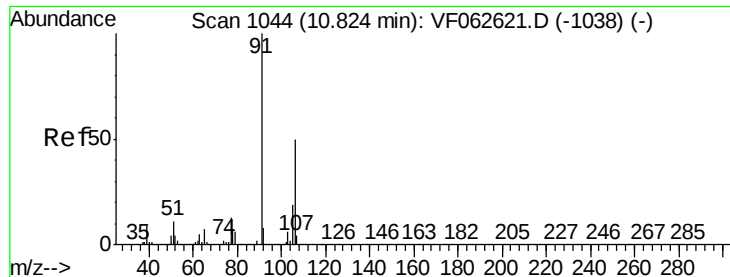
100000

0

10.20 10.30 10.40

Time-->





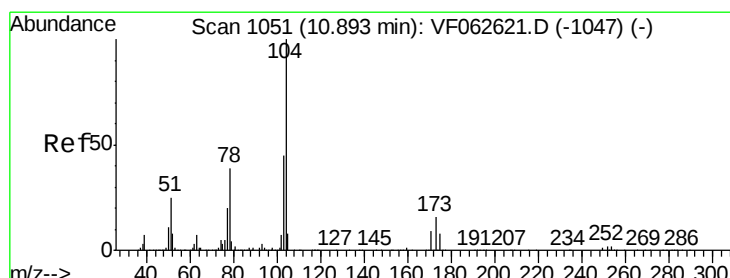
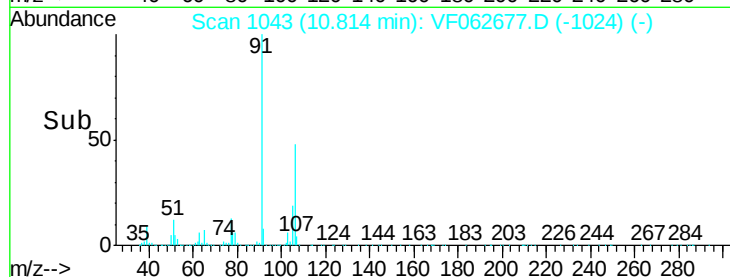
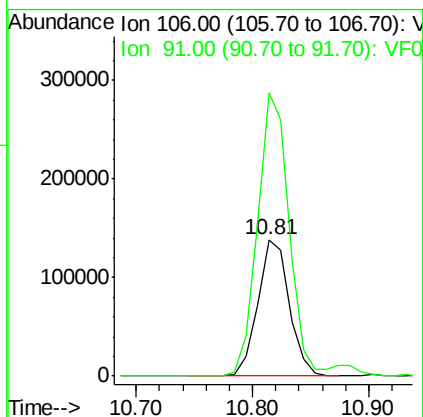
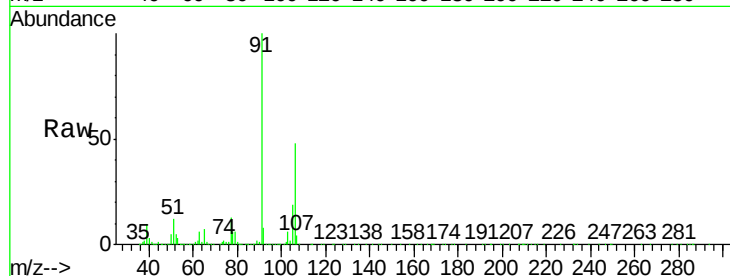
#69
o-Xylene
Concen: 20.999 ug/l
RT: 10.81 min Scan# 1043
Delta R.T. -0.01 min
Lab File: VF062677.D
Acq: 21 May 2019 12:11

Instrument :
MSVOA_F
ClientSampleId :
VF0521SBS01

Tot Ion	Ratio	Lower	Upper
106	100		
91	207.6	100.2	300.5

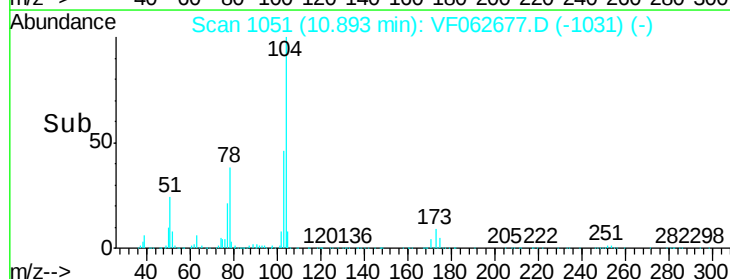
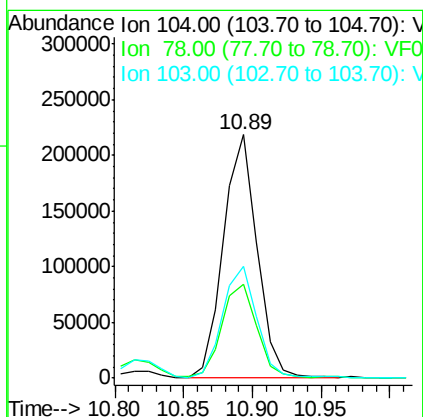
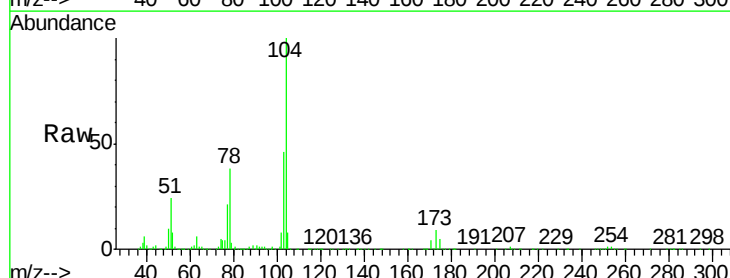
Manual Integrations
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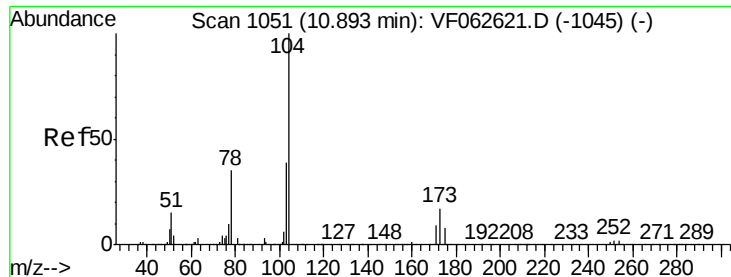
MMDadoda
5/22/2019 4:20:53 PM



#70
Styrene
Concen: 19.749 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. 0.00 min
Lab File: VF062677.D
Acq: 21 May 2019 12:11

Tgt Ion	Ratio	Lower	Upper
104	100		
78	38.4	31.9	47.9
103	46.1	36.1	54.1





#71

Bromoform

Concen: 20.332 ug/l

RT: 10.88 min Scan# 1050

Delta R.T. -0.01 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Instrument :

MSVOA_F

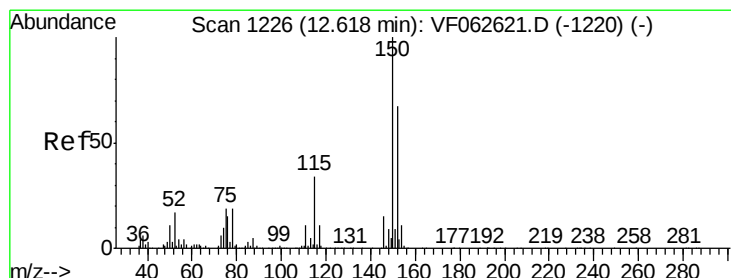
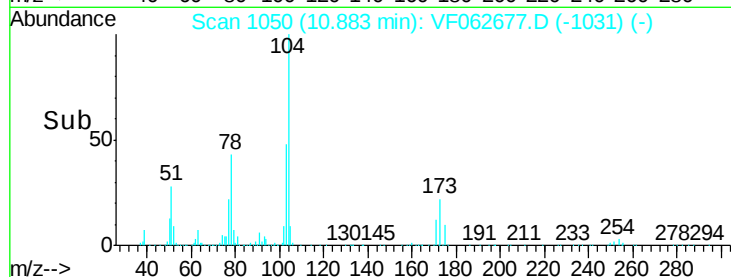
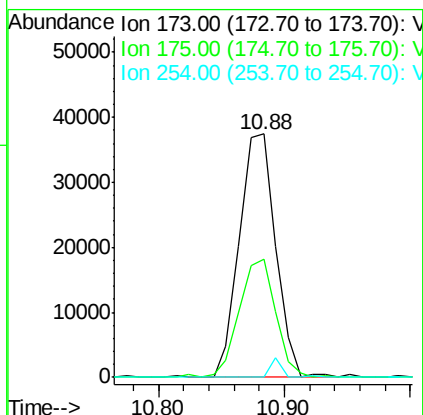
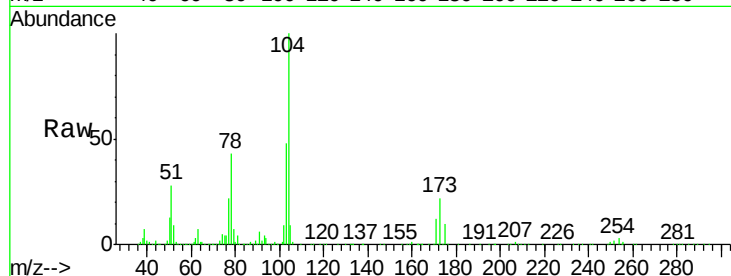
ClientSampleId :

VF0521SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.4	25.3	75.9
254	0.4	0.2	0.2#

Manual Integrations
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5/22/2019 4:20:53 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

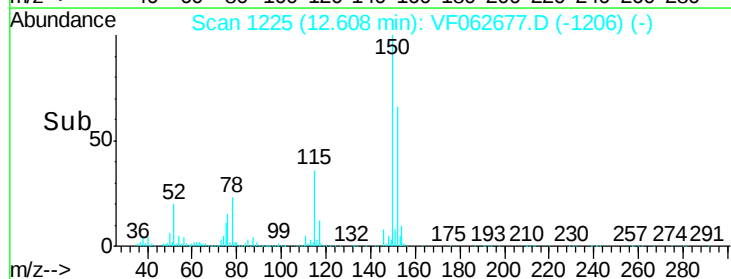
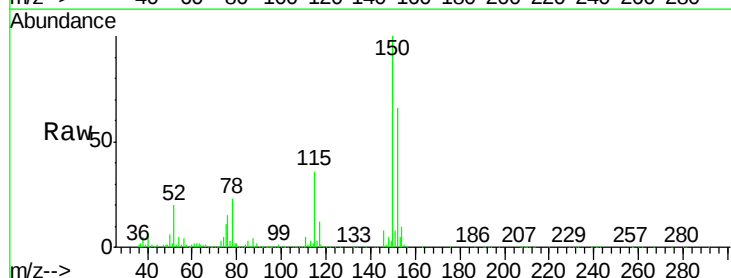
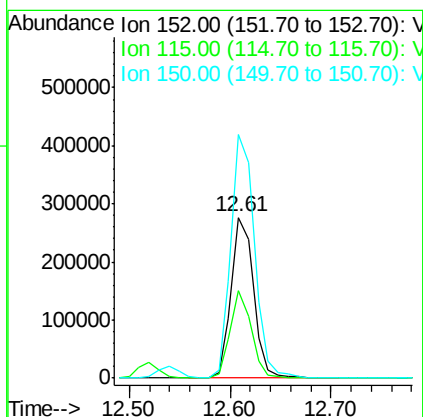
RT: 12.61 min Scan# 1225

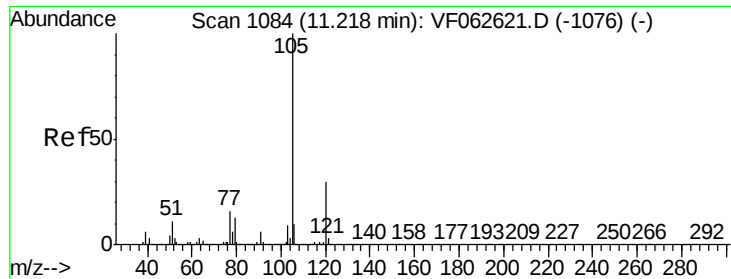
Delta R.T. -0.01 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.1	25.2	75.6
150	151.7	0.0	306.2





#73

Isopropylbenzene

Concen: 23.181 ug/l

RT: 11.22 min Scan# 1084

Delta R.T. 0.00 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Instrument :

MSVOA_F

ClientSampleId :

VF0521SBS01

Tot Ion: 105 Resp: 707529

Ion Ratio Lower Upper

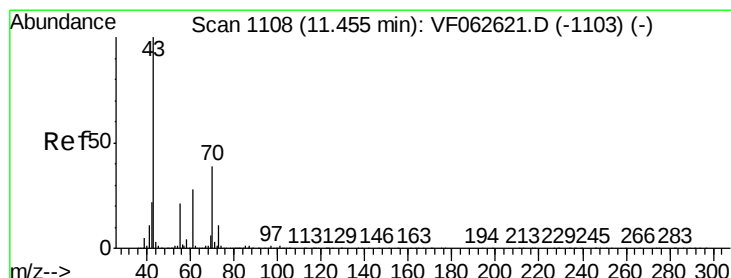
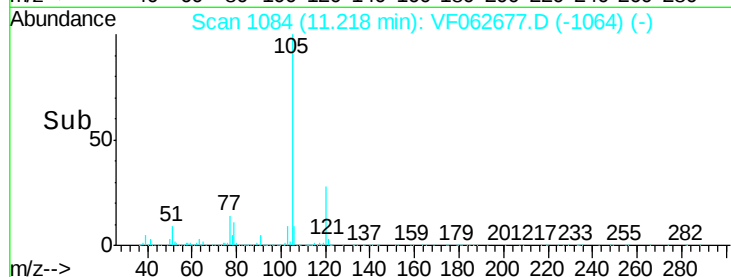
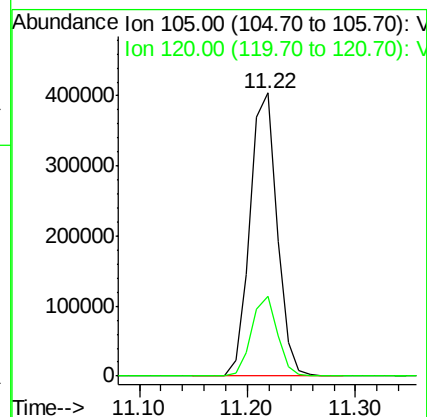
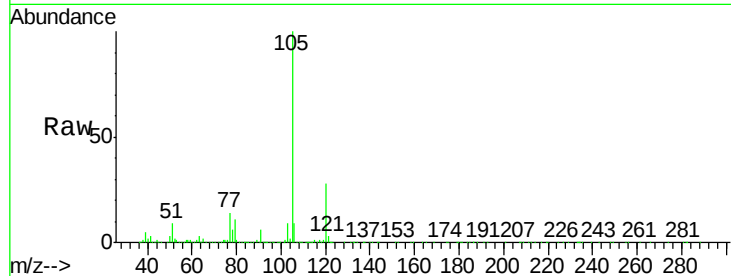
105 100

120 28.1 14.8 44.4

Manual Integrations
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5/22/2019 4:20:53 PM



#74

N-ethyl acetate

Concen: 18.245 ug/l

RT: 11.45 min Scan# 1107

Delta R.T. -0.01 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Tgt Ion: 43 Resp: 168307

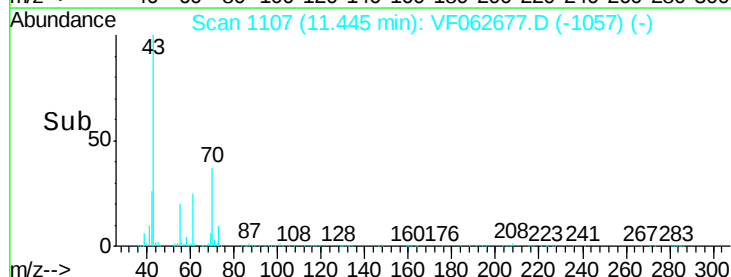
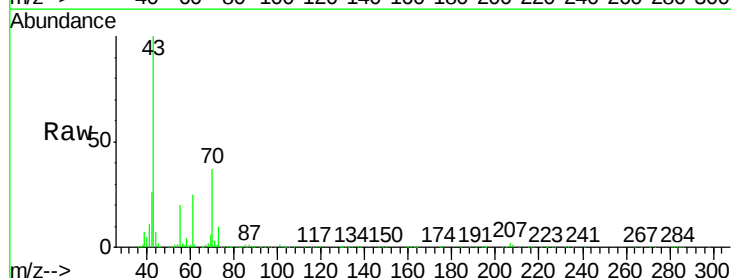
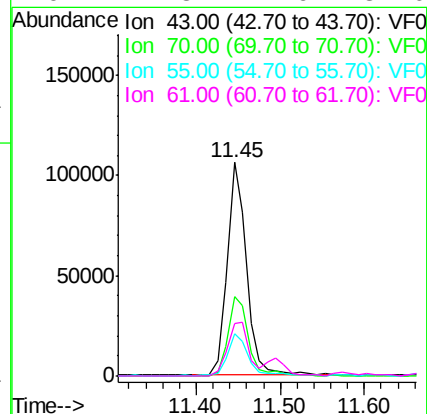
Ion Ratio Lower Upper

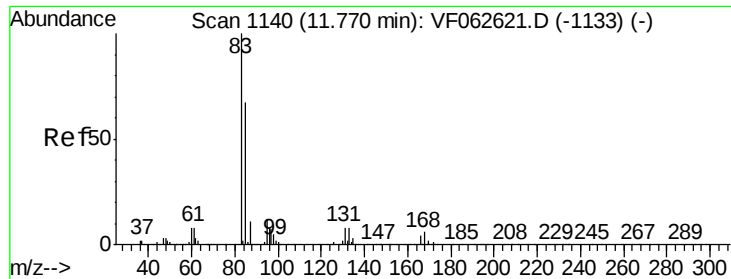
43 100

70 37.3 30.9 46.3

55 20.0 17.0 25.4

61 24.8 22.6 34.0





#75

1,1,2,2-Tetrachloroethane

Concen: 21.300 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. 0.00 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Instrument :

MSVOA_F

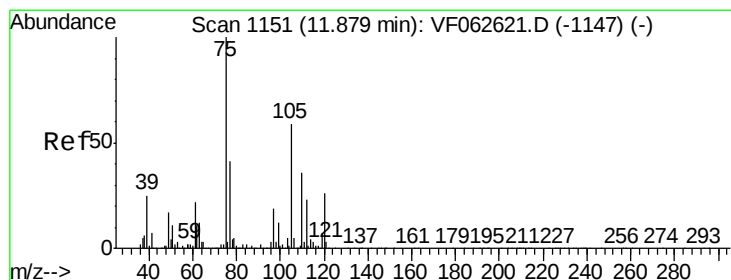
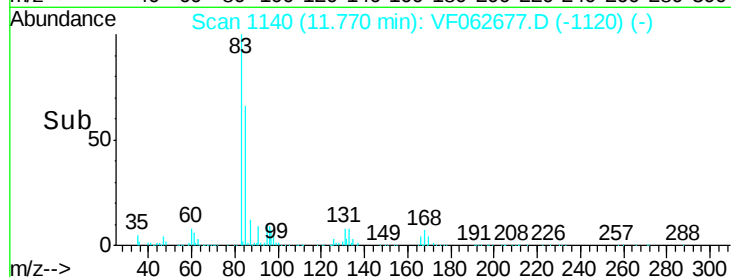
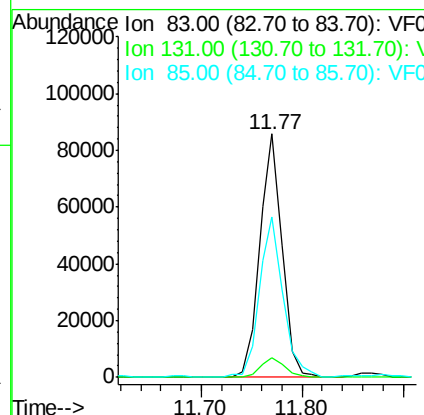
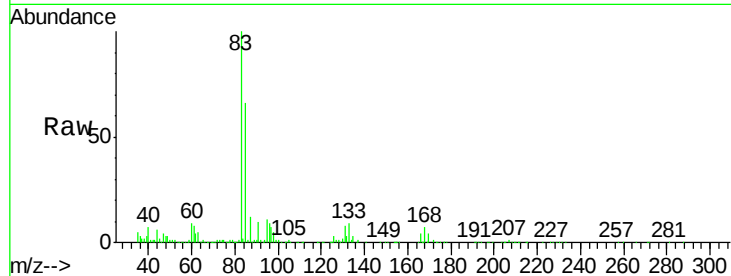
ClientSampleId :

VF0521SBS01

Tot Ion:	83	Resp:	132863
Ion Ratio	Lower	Upper	
83	100		
131	8.2	4.0	12.0
85	65.8	33.5	100.5

Manual Integrations
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5/22/2019 4:20:53 PM



#76

1,2,3-Trichloropropane

Concen: 20.407 ug/l

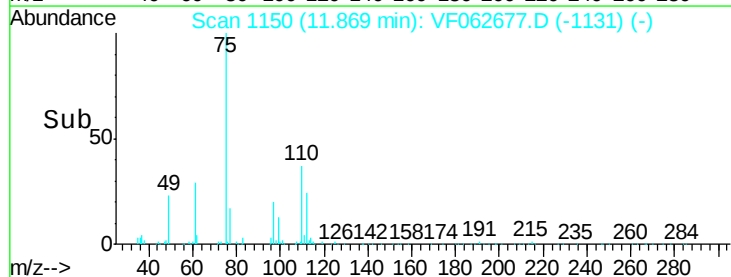
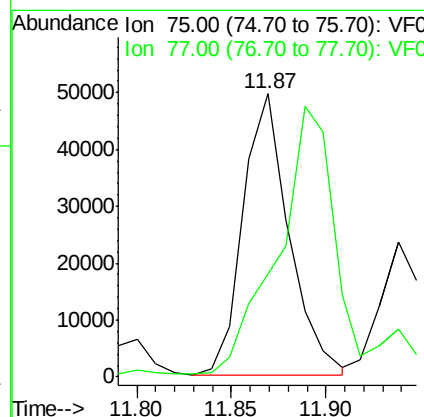
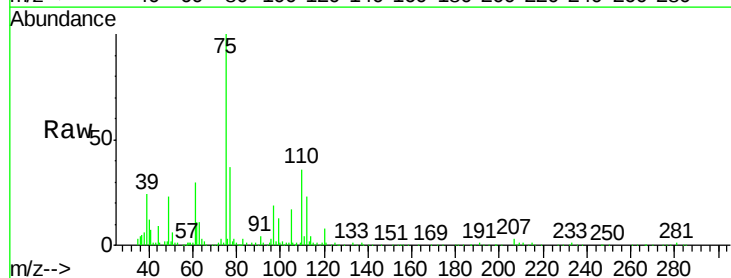
RT: 11.87 min Scan# 1150

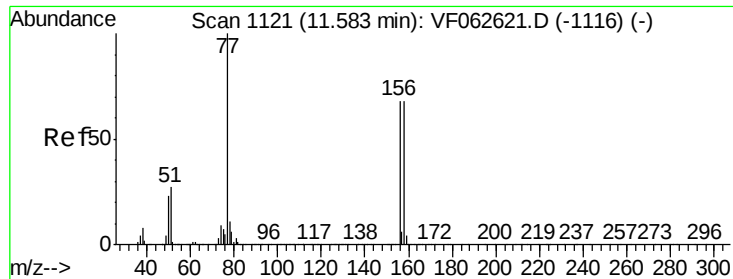
Delta R.T. -0.01 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Tgt Ion:	75	Resp:	83641
Ion Ratio	Lower	Upper	
75	100		
77	36.5	20.6	61.8





#77

Bromobenzene

Concen: 21.530 ug/l

RT: 11.58 min Scan# 1121

Delta R.T. 0.00 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Instrument :

MSVOA_F

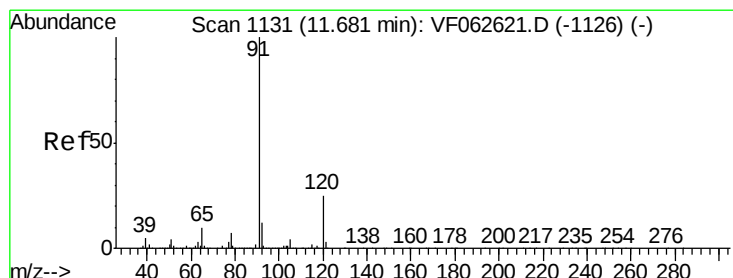
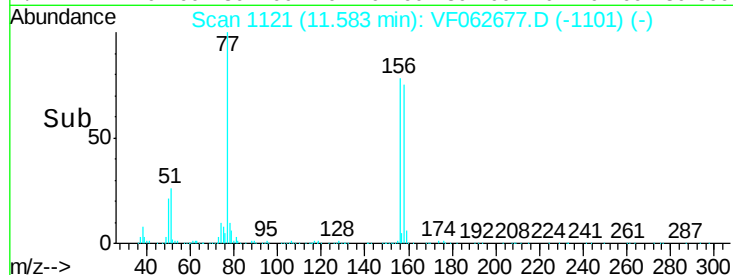
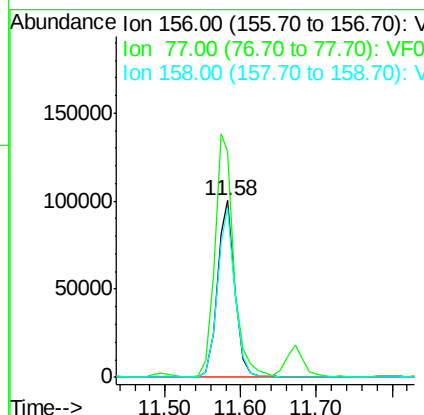
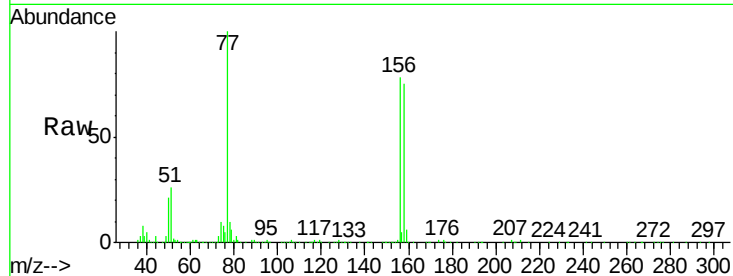
ClientSampleId :

VF0521SBS01

Tot Ion:	156	Resp:	163347
Ion Ratio	Lower	Upper	
156	100		
77	128.0	73.6	220.8
158	95.9	49.6	148.8

Manual Integrations
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#78

n-propylbenzene

Concen: 20.992 ug/l

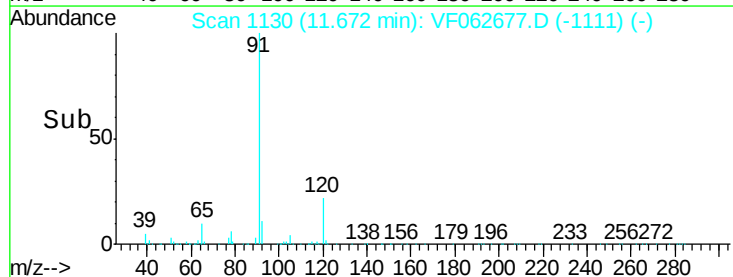
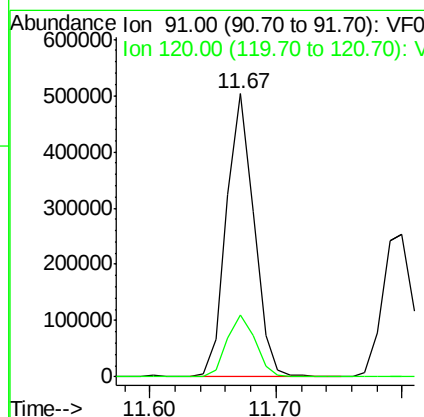
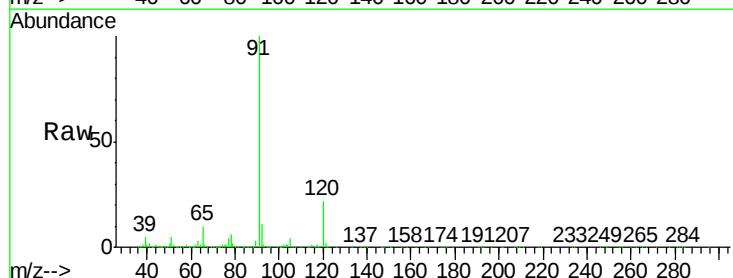
RT: 11.67 min Scan# 1130

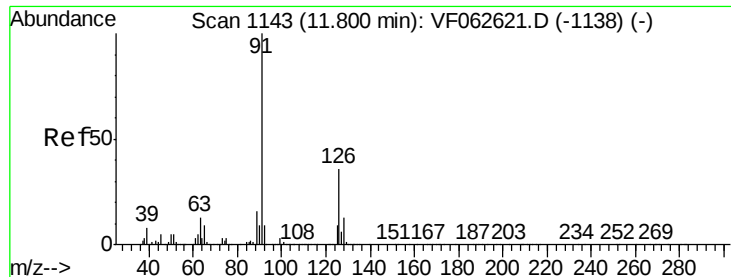
Delta R.T. -0.01 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Tgt Ion:	91	Resp:	758290
Ion Ratio	Lower	Upper	
91	100		
120	22.0	12.7	38.1





#79

2-Chlorotoluene

Concen: 21.018 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Instrument :

MSVOA_F

ClientSampleId :

VF0521SBS01

Tot Ion: 91 Resp: 427875

Ion Ratio Lower Upper

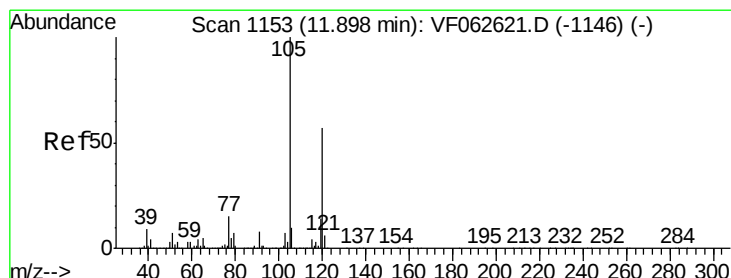
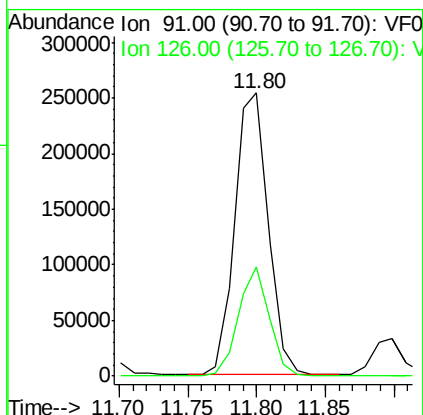
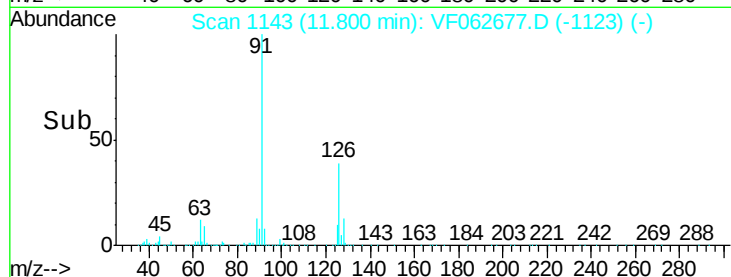
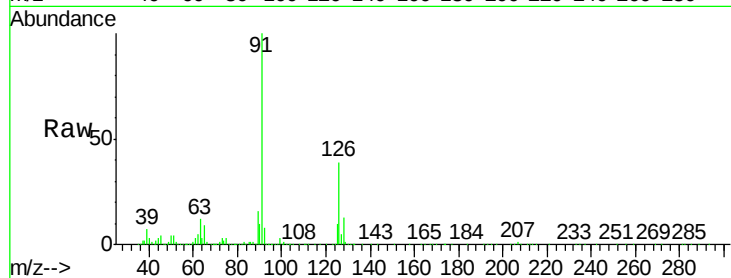
91 100

126 38.5 18.1 54.4

Manual Integrations
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#80

1,3,5-Trimethylbenzene

Concen: 22.388 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. 0.00 min

Lab File: VF062677.D

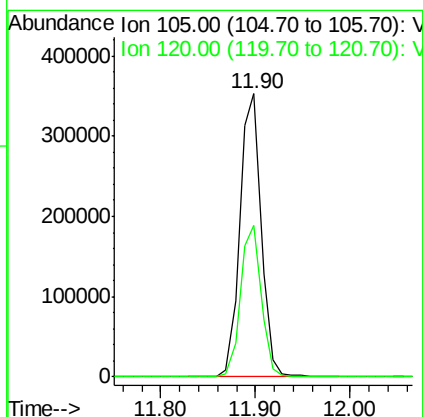
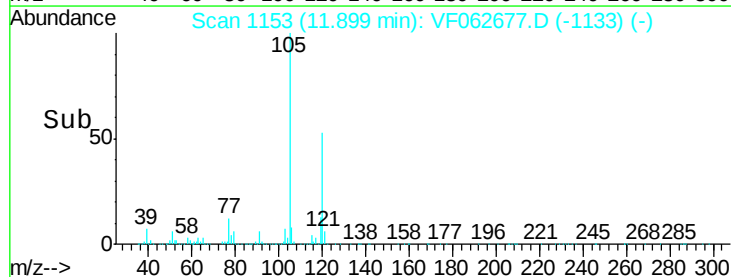
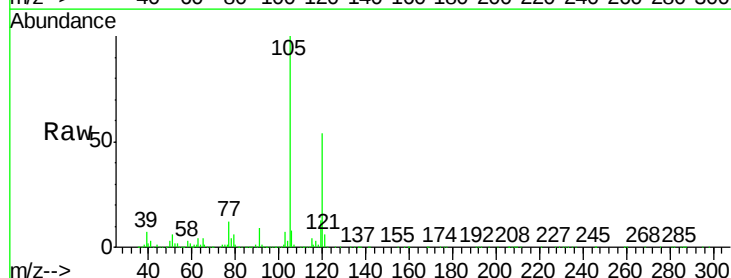
Acq: 21 May 2019 12:11

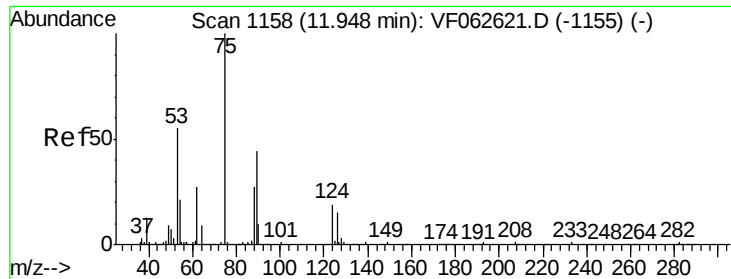
Tgt Ion: 105 Resp: 547939

Ion Ratio Lower Upper

105 100

120 53.6 28.7 86.3





#81

trans-1,4-Dichloro-2-butene

Concen: 20.880 ug/l m

RT: 11.94 min Scan# 1157

Delta R.T. -0.01 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Instrument :

MSVOA_F

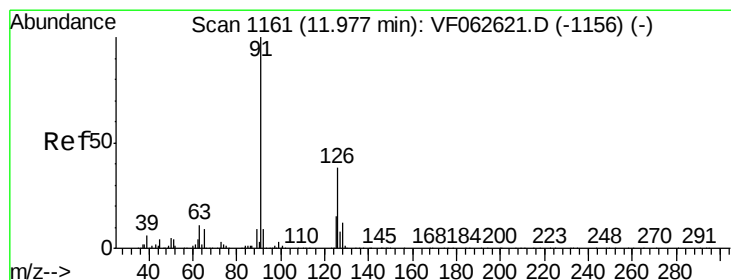
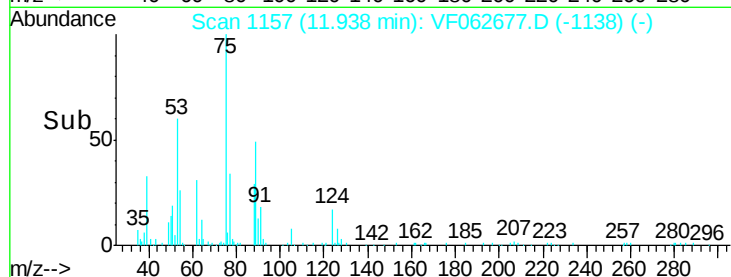
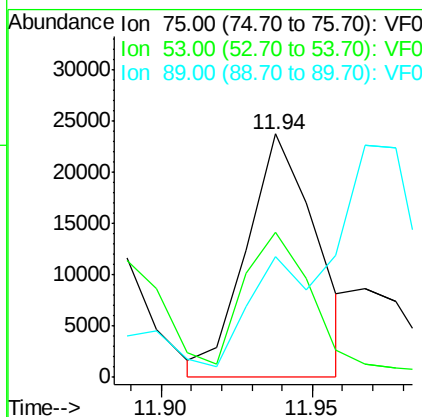
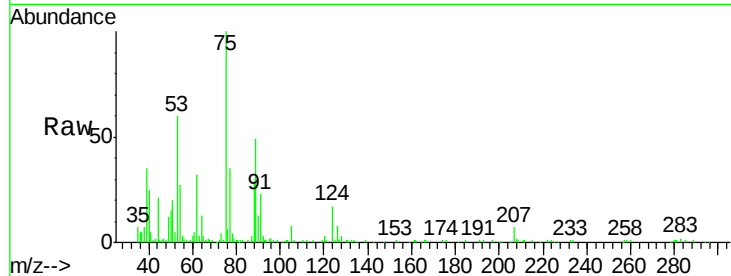
ClientSampled :

VF0521SBS01

Tot Ion:	75	Resp:	38040
Ion Ratio	Lower	Upper	
75	100		
53	59.6	46.9	70.3
89	49.4	36.4	54.6

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#82

4-Chlorotoluene

Concen: 21.198 ug/l

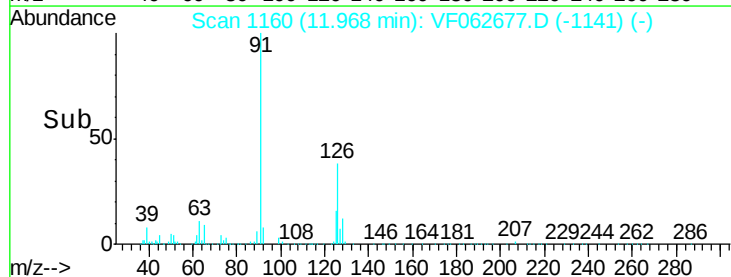
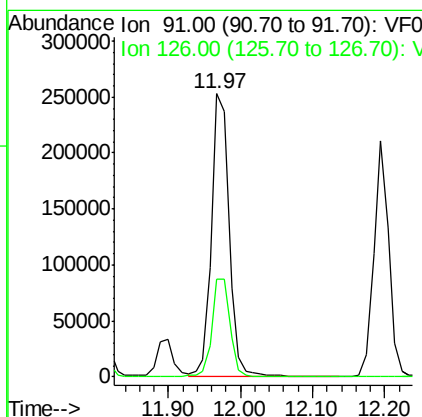
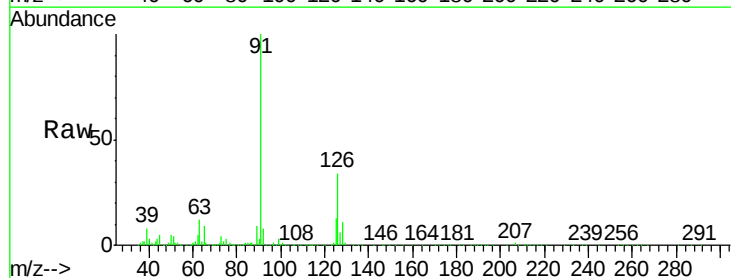
RT: 11.97 min Scan# 1160

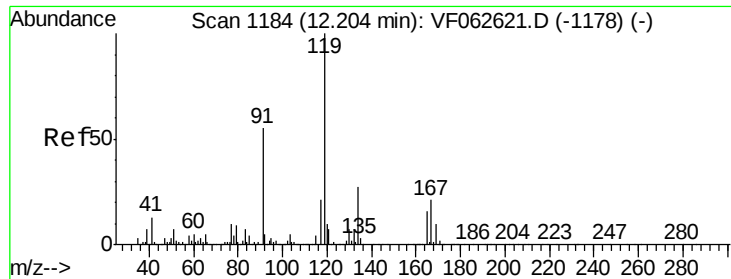
Delta R.T. -0.01 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Tgt Ion:	91	Resp:	425559
Ion Ratio	Lower	Upper	
91	100		
126	34.4	19.1	57.1





#83

tert-Butylbenzene

Concen: 22.426 ug/l

RT: 12.19 min Scan# 1183

Delta R.T. -0.01 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Instrument :

MSVOA_F

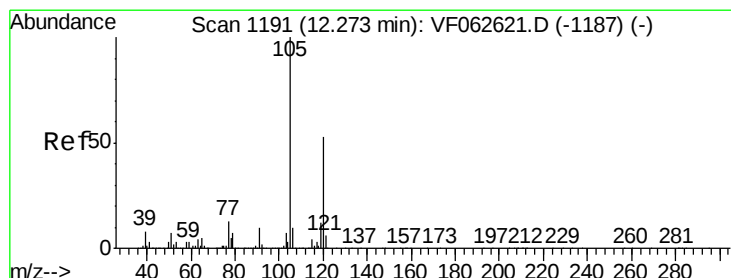
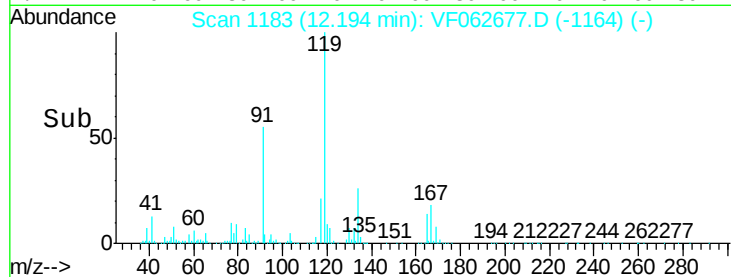
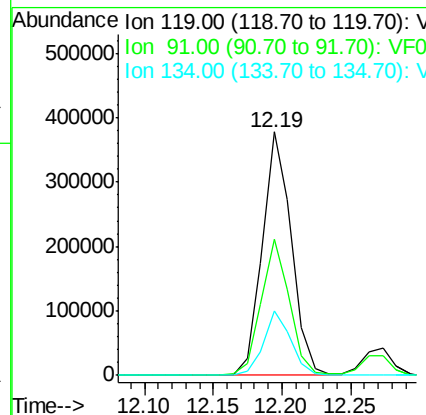
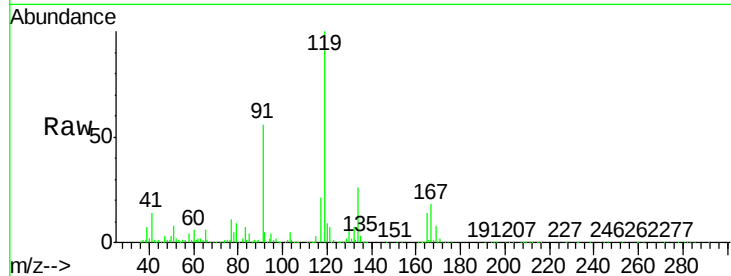
ClientSampled :

VF0521SBS01

Tot Ion:	119	Resp:	556850
Ion Ratio	Lower	Upper	
119	100		
91	55.9	27.3	81.9
134	26.4	13.6	40.7

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 21.499 ug/l

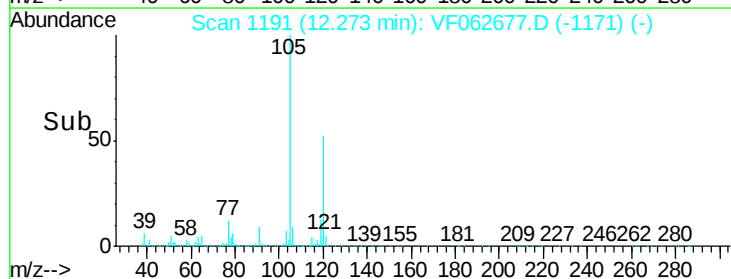
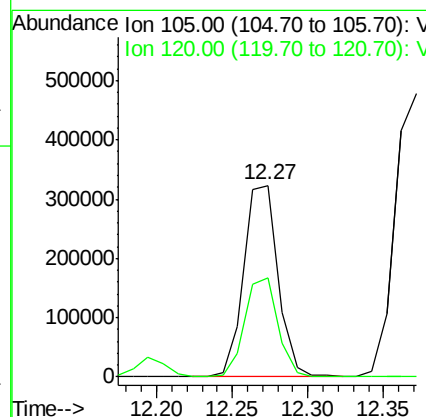
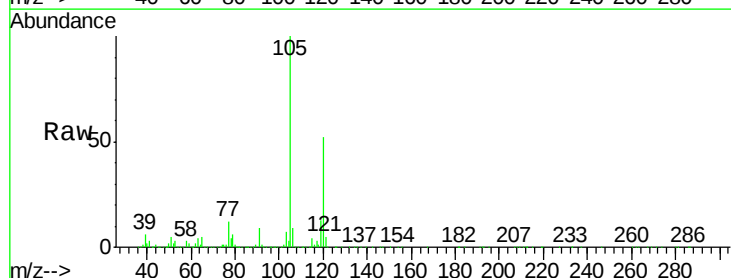
RT: 12.27 min Scan# 1191

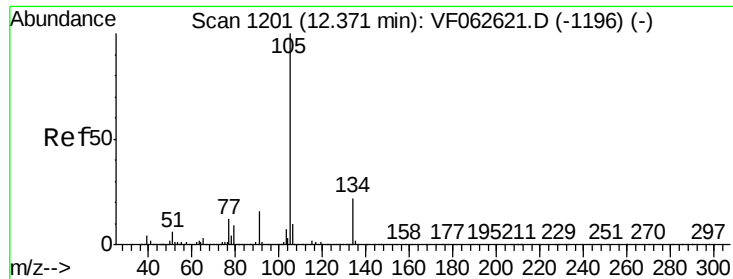
Delta R.T. 0.00 min

Lab File: VF062677.D

Acq: 21 May 2019 12:11

Tgt Ion:	105	Resp:	509277
Ion Ratio	Lower	Upper	
105	100		
120	51.8	26.7	80.1





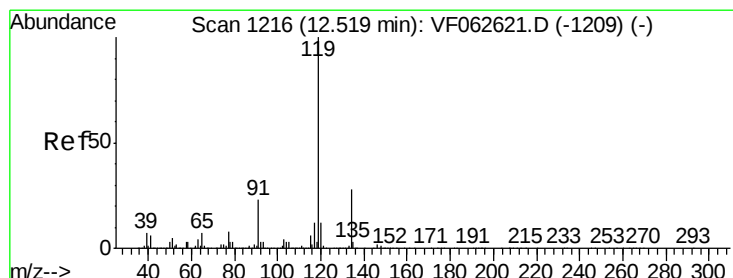
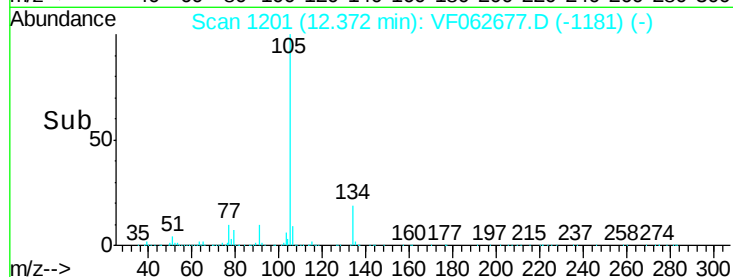
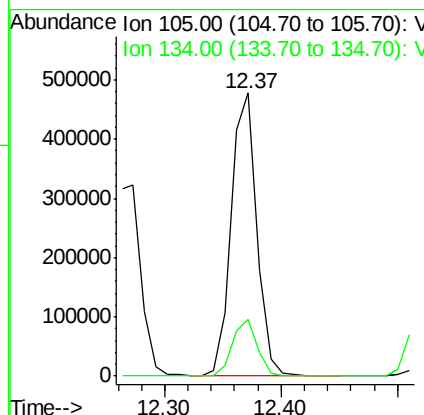
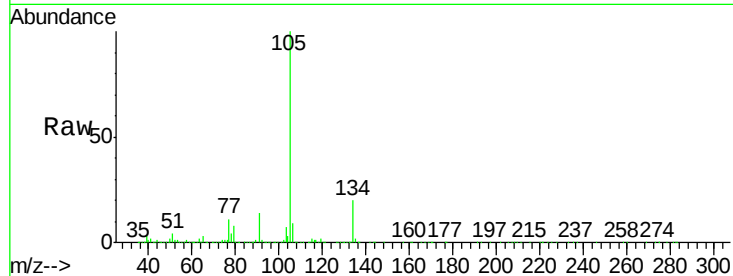
#85
 sec-Butylbenzene
 Concen: 21.658 ug/l
 RT: 12.37 min Scan# 1201
 Delta R.T. 0.00 min
 Lab File: VF062677.D
 Acq: 21 May 2019 12:11

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0521SBS01

Tot Ion	Ratio	Resp	Lower	Upper
105	100	721693		
134	19.9	10.8	32.4	

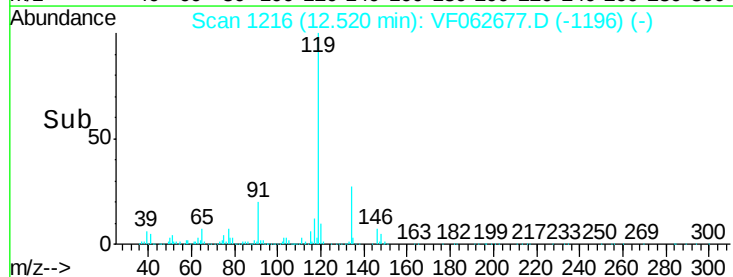
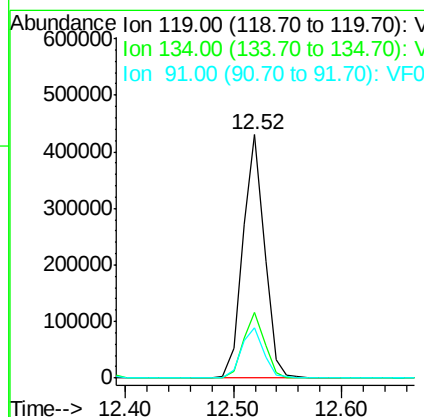
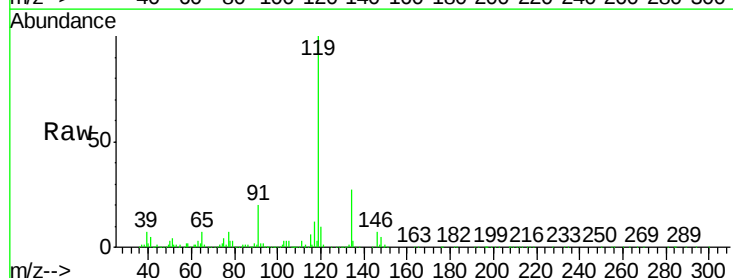
Manual Integrations
 APPROVED

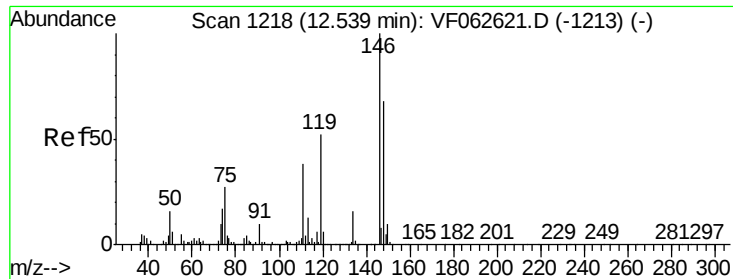
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#86
 p-Isopropyltoluene
 Concen: 21.332 ug/l
 RT: 12.52 min Scan# 1216
 Delta R.T. 0.00 min
 Lab File: VF062677.D
 Acq: 21 May 2019 12:11

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	599074		
134	26.9	14.1	42.3	
91	20.4	11.4	34.2	





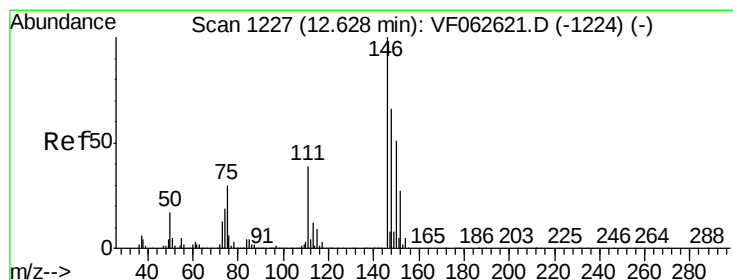
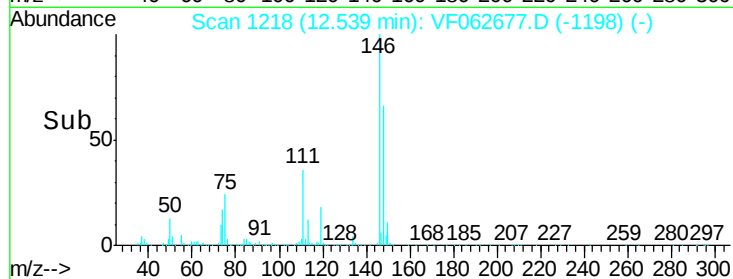
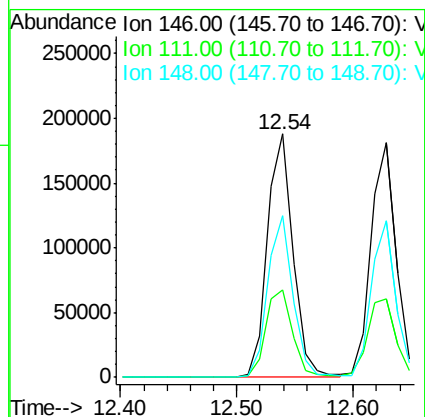
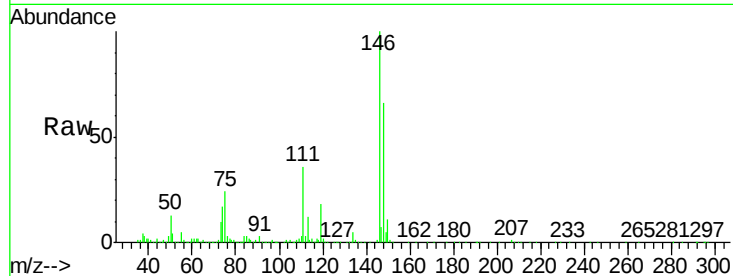
#87
 1,3-Dichlorobenzene
 Concen: 20.923 ug/l
 RT: 12.54 min Scan# 1218
 Delta R.T. 0.00 min
 Lab File: VF062677.D
 Acq: 21 May 2019 12:11

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0521SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.7	18.9	56.9
148	66.3	34.0	101.8

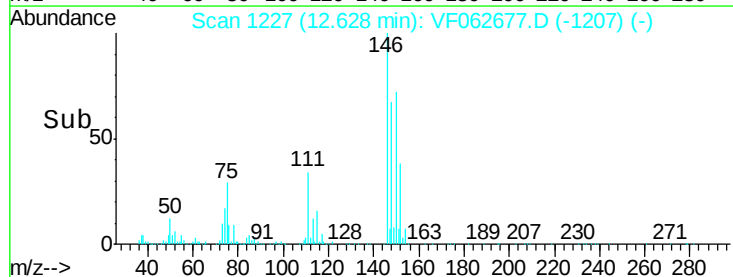
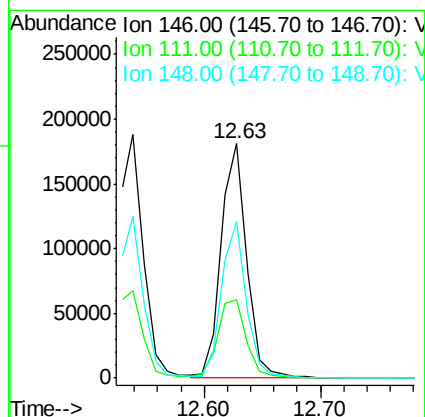
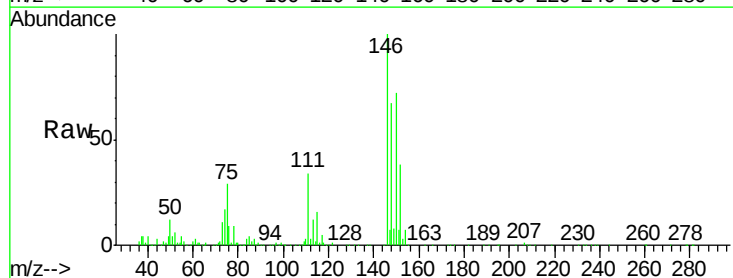
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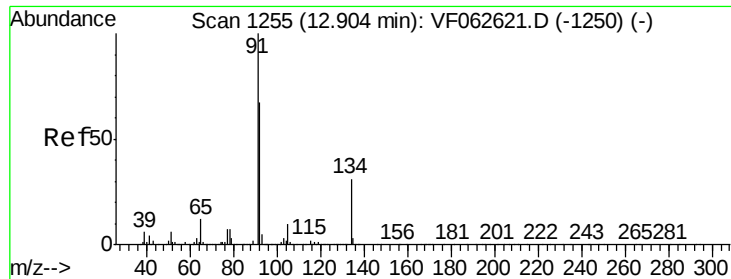
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#88
 1,4-Dichlorobenzene
 Concen: 21.335 ug/l
 RT: 12.63 min Scan# 1227
 Delta R.T. 0.00 min
 Lab File: VF062677.D
 Acq: 21 May 2019 12:11

Tgt Ion	Ratio	Lower	Upper
146	100		
111	33.6	19.4	58.2
148	66.7	33.2	99.6





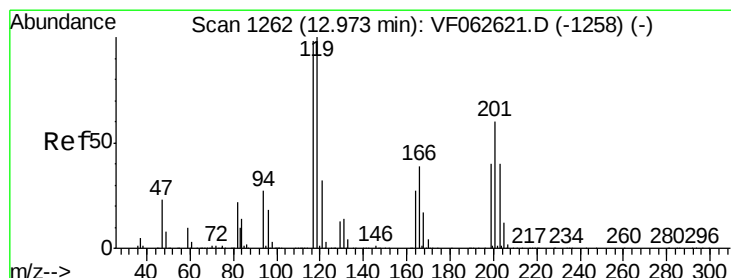
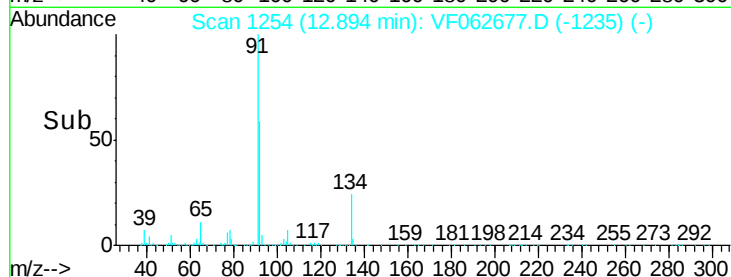
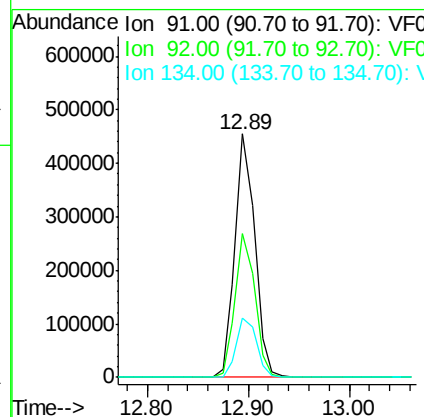
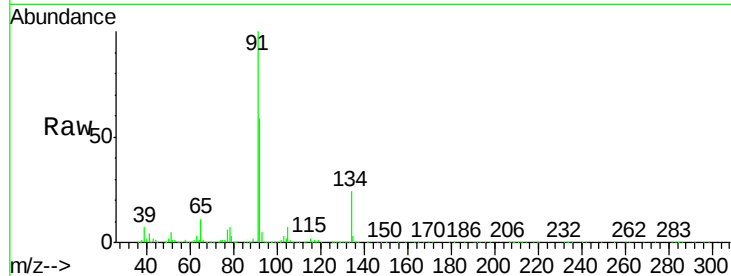
#89
n-Butylbenzene
Concen: 22.534 ug/l
RT: 12.89 min Scan# 1254
Delta R.T. -0.01 min
Lab File: VF062677.D
Acq: 21 May 2019 12:11

Instrument :
MSVOA_F
ClientSampleId :
VF0521SBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	623930		
92	59.0		33.3	99.8
134	24.3		15.4	46.4

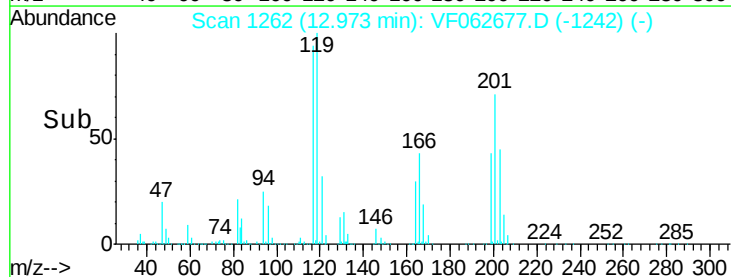
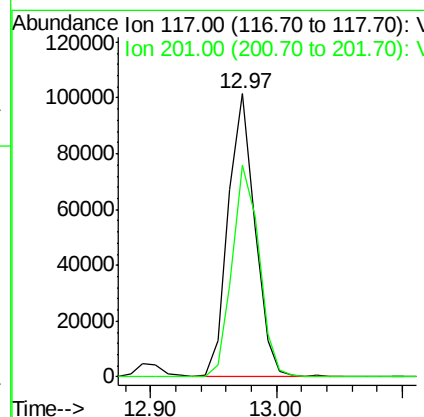
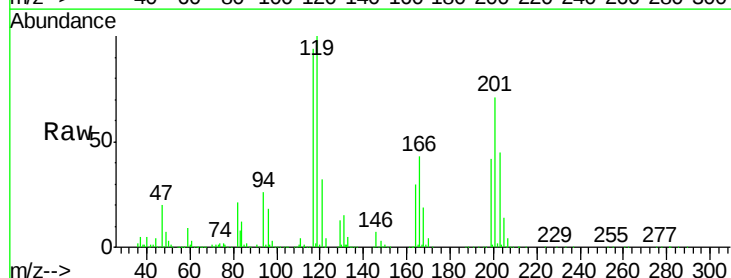
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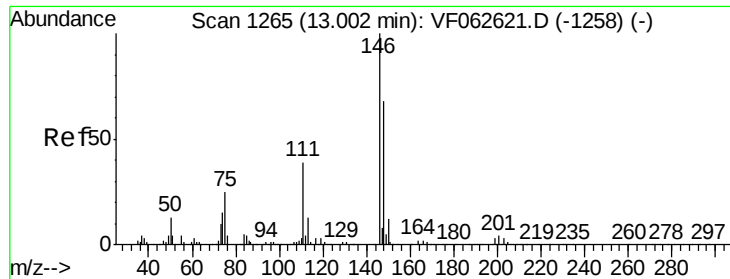
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#90
Hexachloroethane
Concen: 22.117 ug/l
RT: 12.97 min Scan# 1262
Delta R.T. 0.00 min
Lab File: VF062677.D
Acq: 21 May 2019 12:11

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	148999		
201	77.1		30.7	92.1





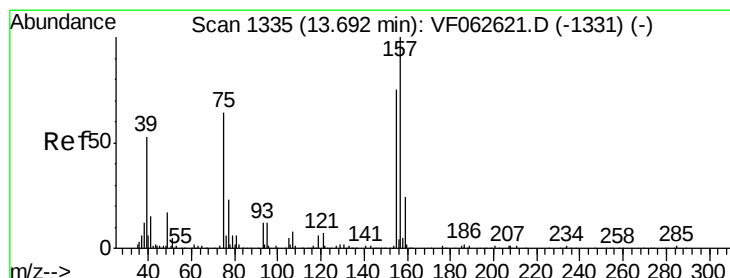
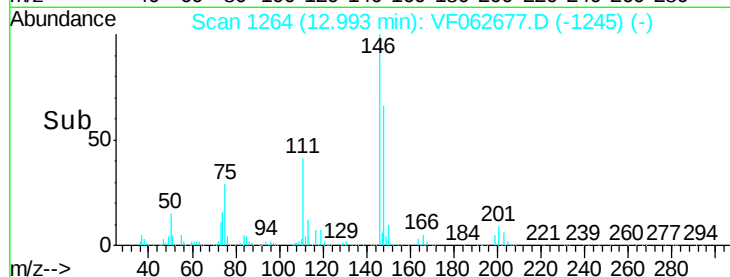
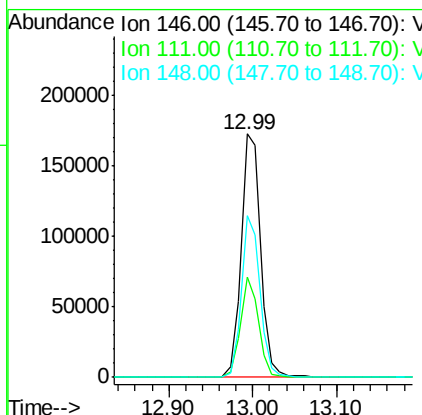
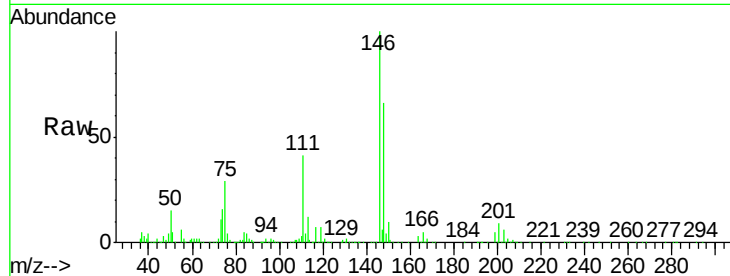
#91
 1,2-Dichlorobenzene
 Concen: 22.648 ug/l
 RT: 12.99 min Scan# 1264
 Delta R.T. -0.01 min
 Lab File: VF062677.D
 Acq: 21 May 2019 12:11

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0521SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.3	19.8	59.3
148	66.4	34.1	102.2

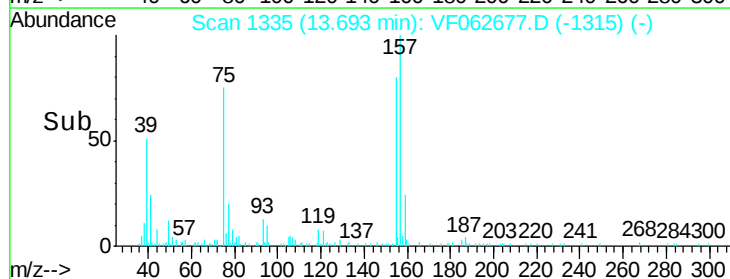
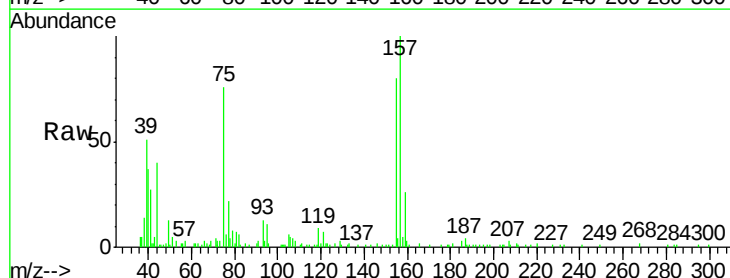
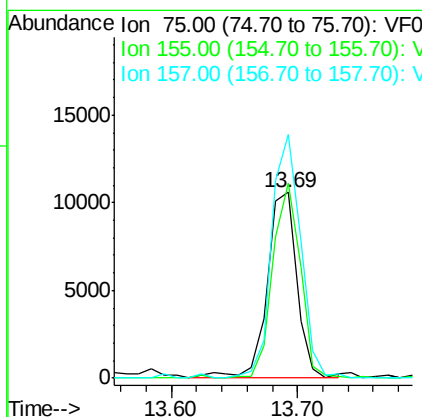
Manual Integrations
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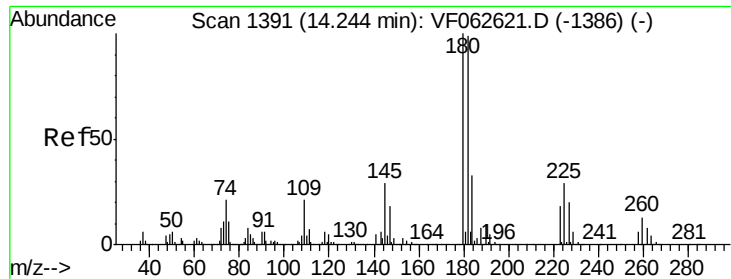
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 23.532 ug/l
 RT: 13.69 min Scan# 1335
 Delta R.T. 0.00 min
 Lab File: VF062677.D
 Acq: 21 May 2019 12:11

Tgt Ion	Ratio	Lower	Upper
75	100		
155	110.0	58.1	174.3
157	131.1	77.8	233.4





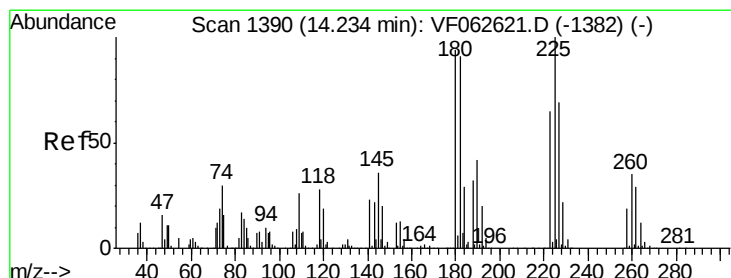
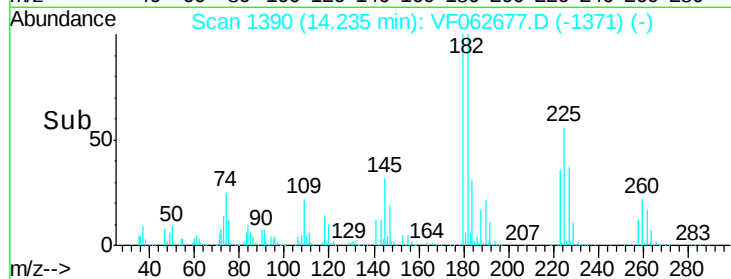
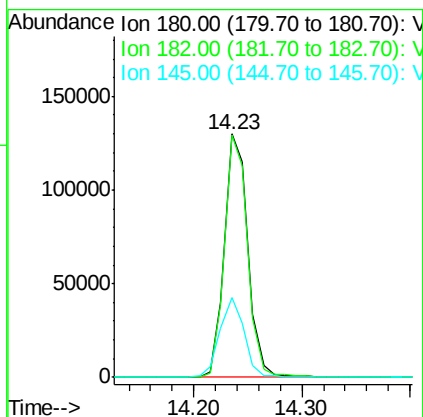
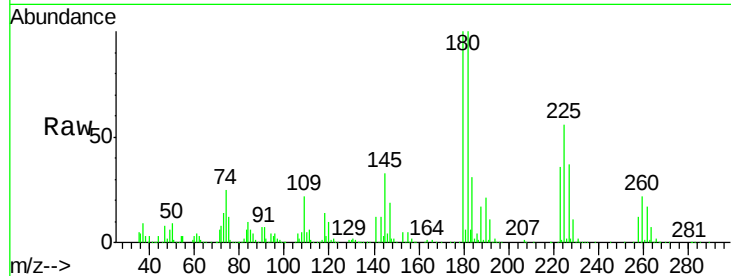
#93
 1,2,4-Trichlorobenzene
 Concen: 22.551 ug/l
 RT: 14.23 min Scan# 1390
 Delta R.T. -0.01 min
 Lab File: VF062677.D
 Acq: 21 May 2019 12:11

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0521SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	197504		
182	99.6	49.7	149.1	
145	32.5	14.6	44.0	

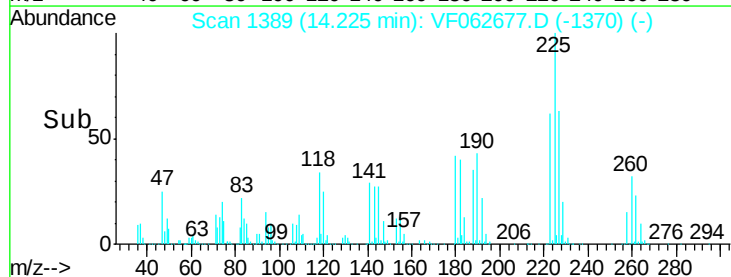
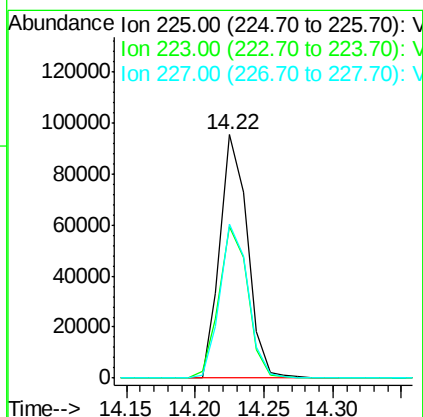
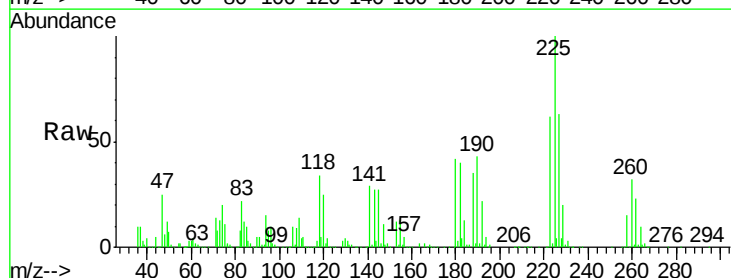
Manual Integrations
 APPROVED

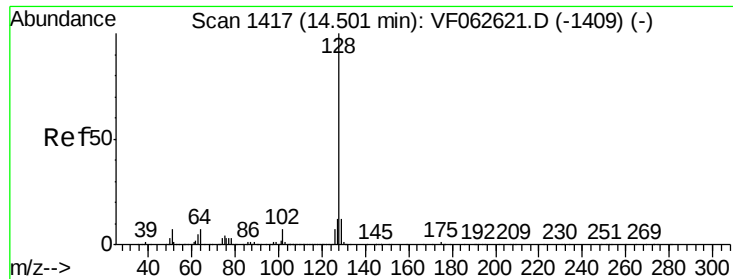
MMDadoda
 5/22/2019 4:20:53 PM



#94
 Hexachlorobutadiene
 Concen: 21.706 ug/l
 RT: 14.22 min Scan# 1389
 Delta R.T. -0.01 min
 Lab File: VF062677.D
 Acq: 21 May 2019 12:11

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	132668		
223	62.3	32.5	97.4	
227	63.4	34.5	103.5	





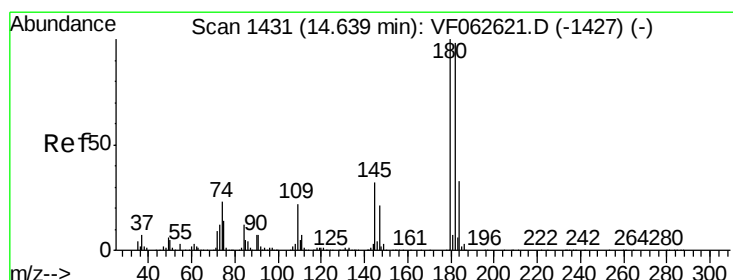
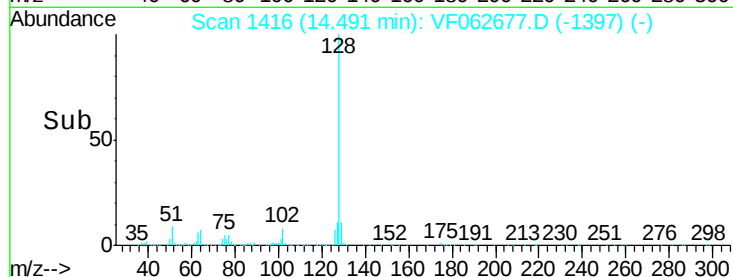
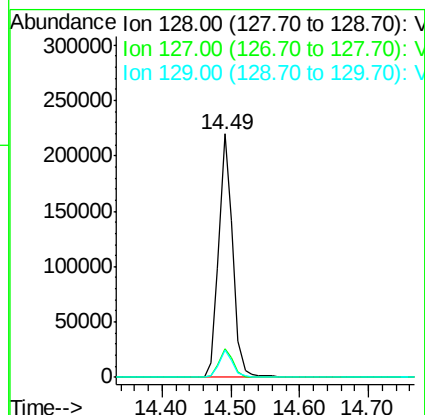
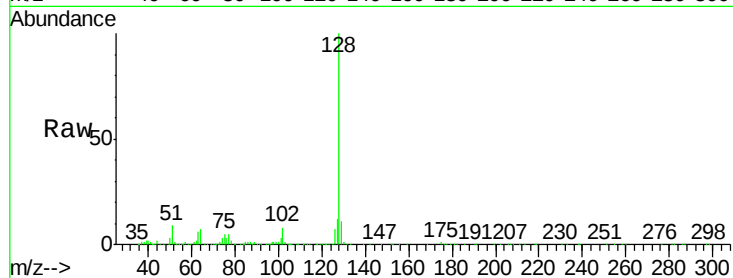
#95
Naphthalene
Concen: 19.525 ug/l
RT: 14.49 min Scan# 1416
Delta R.T. -0.01 min
Lab File: VF062677.D
Acq: 21 May 2019 12:11

Instrument :
MSVOA_F
ClientSampleId :
VF0521SBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	310662		
127	11.5		9.7	14.5
129	11.1		9.3	13.9

Manual Integrations
APPROVED

MMDadoda
5/22/2019 4:20:53 PM



#96
1,2,3-Trichlorobenzene
Concen: 23.207 ug/l
RT: 14.64 min Scan# 1431
Delta R.T. 0.00 min
Lab File: VF062677.D
Acq: 21 May 2019 12:11

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	192525		
182	95.0		48.9	146.7
145	26.3		16.1	48.2

