

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051319\
 Data File : VF062564.D
 Acq On : 14 May 2019 3:07
 Operator : FY/SY
 Sample : VF0513SBS02
 Misc : 5.00µg/5mL/MSVOA F/SOIL
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0513SBS02

Manual Integrations
 APPROVED

MMDadoda
 5/14/2019 11:05:16 AM

Quant Time: May 14 08:26:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.08	168	307058	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.80	114	403293	50.00	ug/l	0.03
63) Chlorobenzene-d5	9.93	117	342505	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.62	152	222618	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.06	65	138600	47.76	ug/l	0.04
Spiked Amount 50.000			Recovery	=	95.52%	
35) Dibromofluoromethane	4.33	113	151455	47.14	ug/l	0.03
Spiked Amount 50.000			Recovery	=	94.28%	
50) Toluene-d8	7.73	98	358851	46.14	ug/l	0.03
Spiked Amount 50.000			Recovery	=	92.28%	
62) 4-Bromofluorobenzene	11.51	95	162053	46.18	ug/l	0.02
Spiked Amount 50.000			Recovery	=	92.36%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.01	85	80156	22.556	ug/l	93
3) Chloromethane	1.15	50	50140	21.393	ug/l	98
4) Vinyl Chloride	1.20	62	48768	20.861	ug/l	92
5) Bromomethane	1.38	94	42970	23.004	ug/l	97
6) Chloroethane	1.45	64	25422	21.630	ug/l	97
7) Trichlorofluoromethane	1.56	101	112200	23.132	ug/l	99
8) Diethyl Ether	1.72	74	15337	20.897	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	1.92	101	63483	22.925	ug/l	94
10) Methyl Iodide	1.99	142	111289	24.387	ug/l	98
11) Tert butyl alcohol	2.71	59	14044	85.633	ug/l	95
12) 1,1-Dichloroethene	1.88	96	49686	21.105	ug/l	96
13) Acrolein	2.11	56	7902	62.079	ug/l #	75
14) Allyl chloride	2.21	41	73114	35.158	ug/l	95
15) Acrylonitrile	3.10	53	36524	117.567	ug/l	99
16) Acetone	2.36	43	52400	89.265	ug/l	97
17) Carbon Disulfide	1.91	76	112923	21.999	ug/l	96
18) Methyl Acetate	2.48	43	24643	21.216	ug/l	100
19) Methyl tert-butyl Ether	2.56	73	104103	21.422	ug/l	99
20) Methylene Chloride	2.34	84	48853m	23.002	ug/l	
21) trans-1,2-Dichloroethene	2.44	96	48811	21.762	ug/l	96
22) Diisopropyl ether	2.95	45	139104	21.402	ug/l	94
23) Vinyl Acetate	3.36	43	278220	96.044	ug/l	100
24) 1,1-Dichloroethane	3.03	63	89806	22.862	ug/l	99
25) 2-Butanone	4.55	43	70431	95.501	ug/l	98
26) 2,2-Dichloropropane	3.79	77	51231	23.354	ug/l	96
27) cis-1,2-Dichloroethene	3.67	96	61292	21.861	ug/l	95
28) Bromochloromethane	3.93	49	36576	20.531	ug/l #	100
29) Tetrahydrofuran	4.29	42	33344	98.376	ug/l	95
30) Chloroform	4.07	83	126767	23.887	ug/l	95
31) Cyclohexane	3.90	56	66308	21.148	ug/l	90
32) 1,1,1-Trichloroethane	4.31	97	105691	23.237	ug/l	98
36) 1,1-Dichloropropene	4.50	75	77267	22.303	ug/l	98
37) Ethyl Acetate	4.32	43	31529	20.234	ug/l #	89
38) Carbon Tetrachloride	4.20	117	100936m	26.799	ug/l	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.66	83	77328	22.256	ug/l	97
40) Benzene	4.84	78	174686	22.898	ug/l	95
41) Methacrylonitrile	4.96	41	16163	19.457	ug/l	92
42) 1,2-Dichloroethane	5.15	62	76080	23.844	ug/l	99
43) Isopropyl Acetate	7.13	43	29128	18.485	ug/l #	99
44) Trichloroethene	5.71	130	66841	23.851	ug/l	97
45) 1,2-Dichloropropane	6.43	63	39178	22.673	ug/l	97
46) Dibromomethane	6.28	93	32399	22.614	ug/l	96
47) Bromodichloromethane	6.58	83	83309	23.258	ug/l	94
48) Methyl methacrylate	6.89	41	22379	20.096	ug/l	98
49) 1,4-Dioxane	6.88	88	3736	317.278	ug/l #	76
51) 4-Methyl-2-Pentanone	8.42	43	128555	107.663	ug/l	99
52) Toluene	7.80	92	105532	22.423	ug/l	96
53) t-1,3-Dichloropropene	8.44	75	57889	21.368	ug/l	97
54) cis-1,3-Dichloropropene	7.48	75	70587	22.387	ug/l	97
55) 1,1,2-Trichloroethane	8.66	97	33170	22.202	ug/l	96
56) Ethyl methacrylate	8.78	69	32772	20.780	ug/l	94
57) 1,3-Dichloropropane	9.01	76	54476	24.139	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.46	63	49825	105.084	ug/l	95
59) 2-Hexanone	9.64	43	90208	109.236	ug/l	95
60) Dibromochloromethane	8.87	129	53536	21.909	ug/l	96
61) 1,2-Dibromoethane	9.15	107	36132	20.577	ug/l	95
64) Tetrachloroethene	8.32	164	66524	23.925	ug/l	98
65) Chlorobenzene	9.95	112	132777	23.430	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.08	131	67139	23.485	ug/l	96
67) Ethyl Benzene	10.05	91	234476	23.629	ug/l	97
68) m/p-Xylenes	10.27	106	169952	46.418	ug/l	96
69) o-Xylene	10.84	106	99806	25.227	ug/l	96
70) Styrene	10.91	104	133666	22.543	ug/l	99
71) Bromoform	10.90	173	32690	20.872	ug/l #	99
73) Isopropylbenzene	11.23	105	294913	22.346	ug/l	99
74) N-amyl acetate	11.46	43	59981	21.170	ug/l	94
75) 1,1,2,2-Tetrachloroethane	11.78	83	45456	21.997	ug/l	100
76) 1,2,3-Trichloropropane	11.88	75	34919	22.149	ug/l #	100
77) Bromobenzene	11.60	156	76435	22.068	ug/l	98
78) n-propylbenzene	11.68	91	323679	23.036	ug/l	99
79) 2-Chlorotoluene	11.81	91	195409	22.365	ug/l	98
80) 1,3,5-Trimethylbenzene	11.91	105	263900	22.814	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.95	75	8065	13.609	ug/l #	78
82) 4-Chlorotoluene	11.98	91	187901	21.774	ug/l	100
83) tert-Butylbenzene	12.21	119	280855	23.102	ug/l	99
84) 1,2,4-Trimethylbenzene	12.28	105	258716	22.854	ug/l	98
85) sec-Butylbenzene	12.38	105	344714	23.296	ug/l	100
86) p-Isopropyltoluene	12.53	119	323021	23.496	ug/l	98
87) 1,3-Dichlorobenzene	12.55	146	149705	23.666	ug/l	100
88) 1,4-Dichlorobenzene	12.64	146	138006	22.604	ug/l	99
89) n-Butylbenzene	12.91	91	288307	23.571	ug/l	97
90) Hexachloroethane	12.99	117	74587	21.728	ug/l	95
91) 1,2-Dichlorobenzene	13.00	146	147022	24.012	ug/l	94
92) 1,2-Dibromo-3-Chloropropan	13.69	75	8619	18.618	ug/l	94

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Quant Title : SW846 8260
QLast Update : Tue May 07 04:34:57 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.25	180	120499	21.941	µg/l	98
94) Hexachlorobutadiene	14.24	225	90972	22.224	µg/l	100
95) Naphthalene	14.50	128	178225	21.586	µg/l	98
96) 1,2,3-Trichlorobenzene	14.65	180	118226	22.220	µg/l	96

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

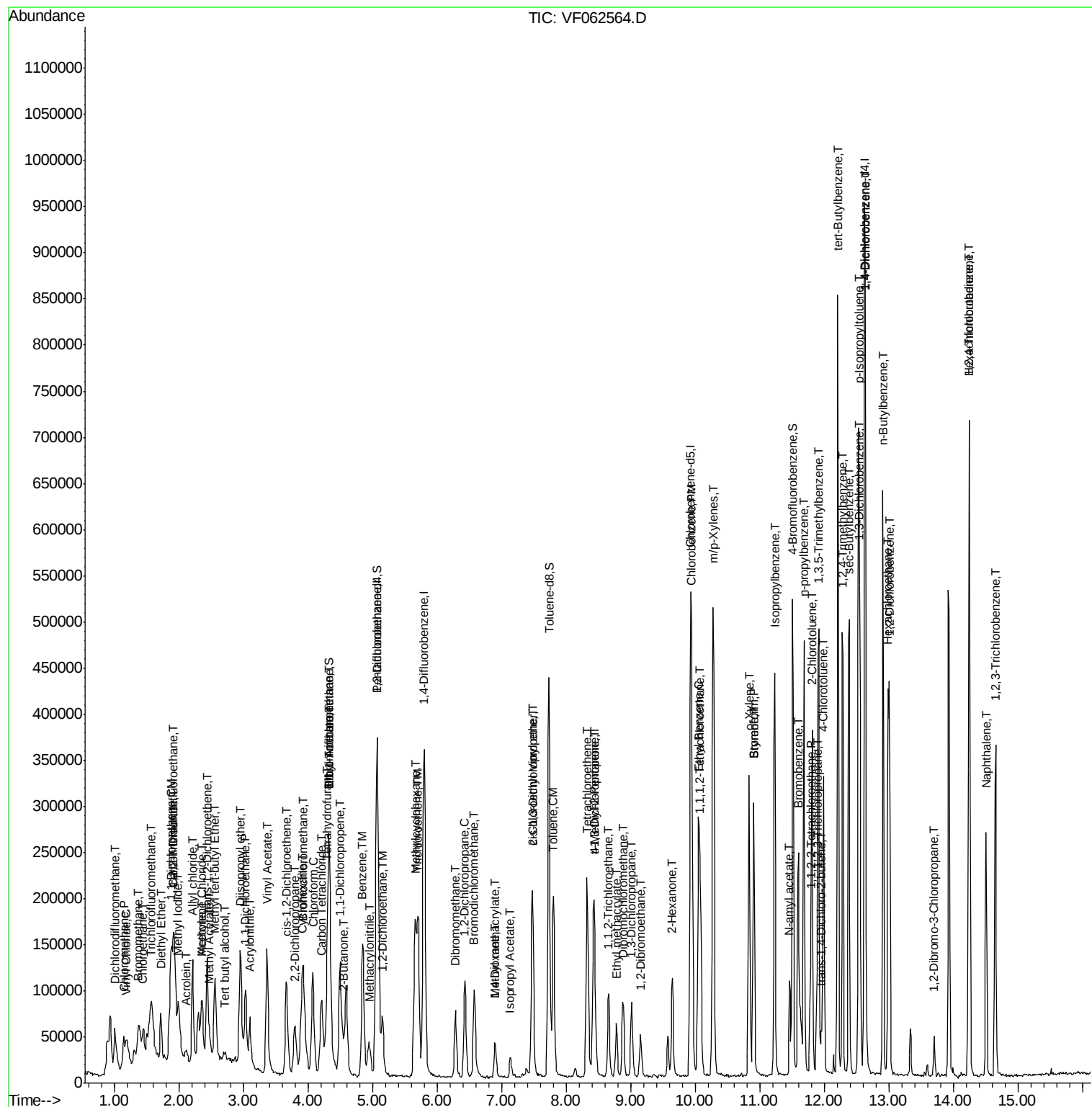
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Data File : VF062564.D
Acq On : 14 May 2019 3:07
Operator : FY/SY
Sample : VF0513SBSD02
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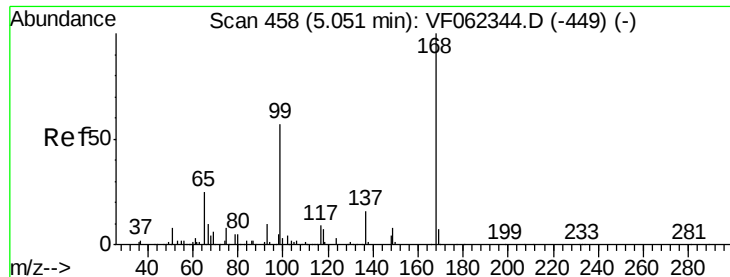
Instrument :
MSVOA_F
ClientSampleId :
VF0513SBSD02

Manual Integrations
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.08 min Scan# 461

Delta R.T. 0.03 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS02

Tot Ion:168 Resp: 307058

Ion Ratio Lower Upper

168 100

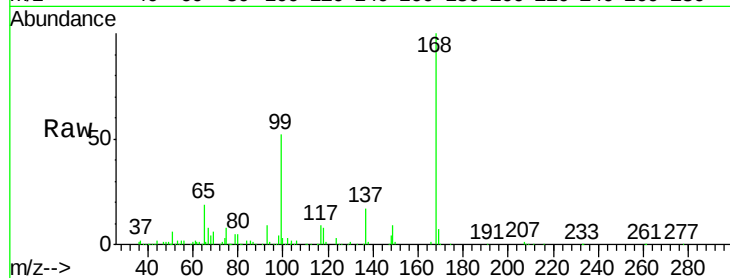
99 52.4 45.9 68.9

Manual Integrations

APPROVED

MMDadoda

5/14/2019 11:05:16 AM



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.08

120000

100000

80000

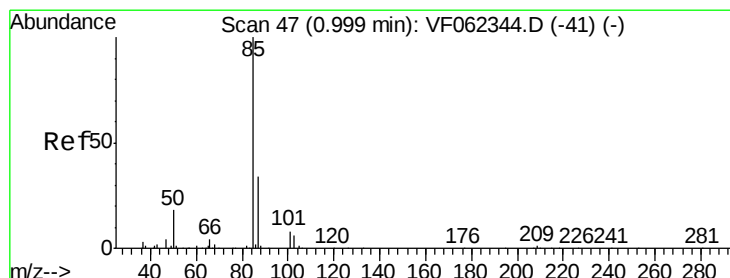
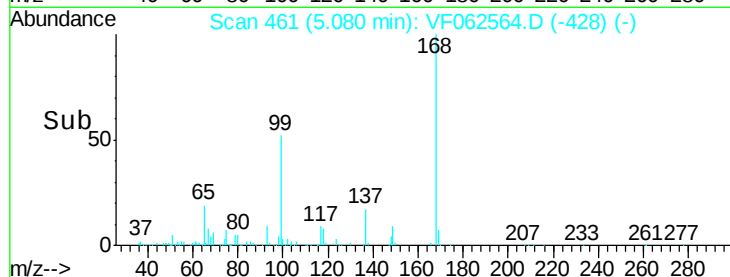
60000

40000

20000

0

Time--> 4.90 5.00 5.10 5.20 5.30



#2

Dichlorodifluoromethane

Concen: 22.556 ug/l

RT: 1.01 min Scan# 48

Delta R.T. 0.01 min

Lab File: VF062564.D

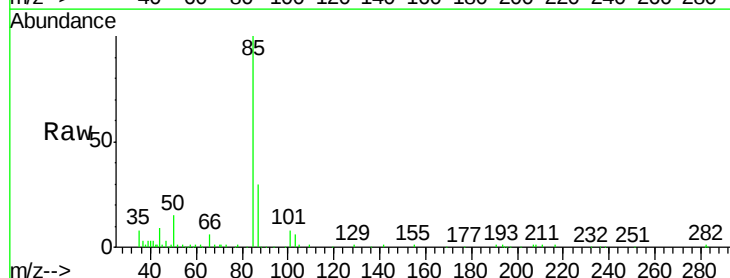
Acq: 14 May 2019 3:07

Tgt Ion: 85 Resp: 80156

Ion Ratio Lower Upper

85 100

87 29.9 16.8 50.4



Abundance Ion 84.90 (84.60 to 85.60): VF0

Ion 86.90 (86.60 to 87.60): VF0

1.01

30000

25000

20000

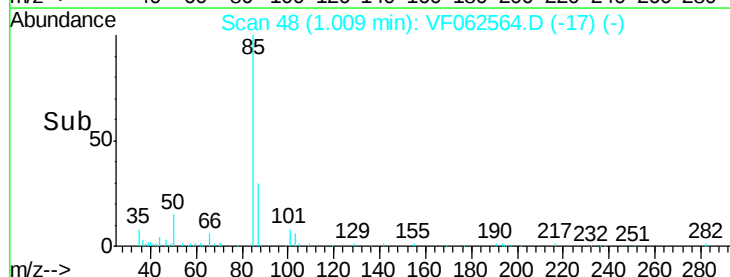
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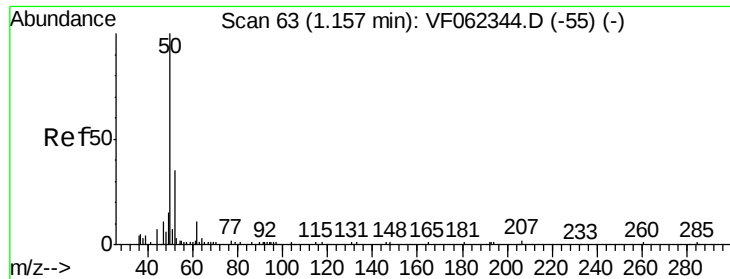
10000

5000

0

Time--> 0.80 0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 21.393 ug/l

RT: 1.15 min Scan# 62

Delta R.T. -0.01 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS02

Tot Ion: 50 Resp: 50140

Ion Ratio Lower Upper

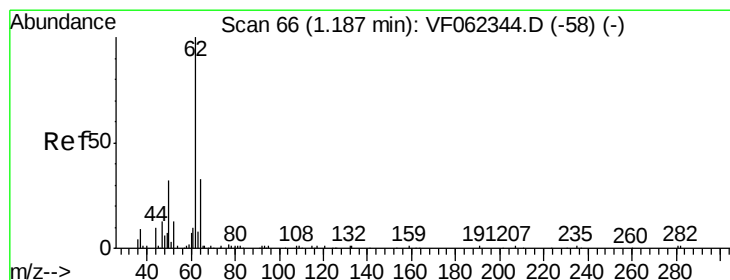
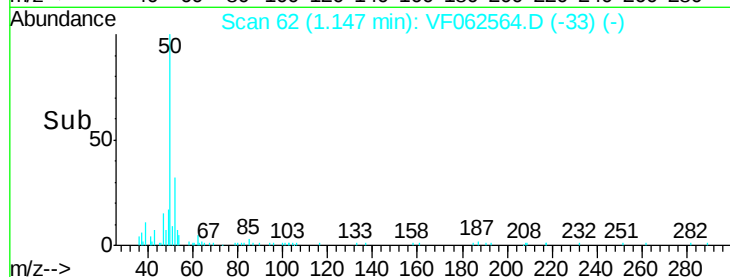
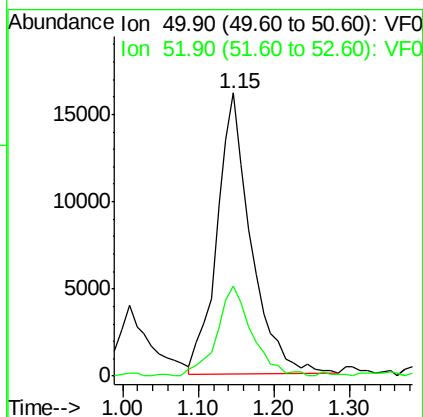
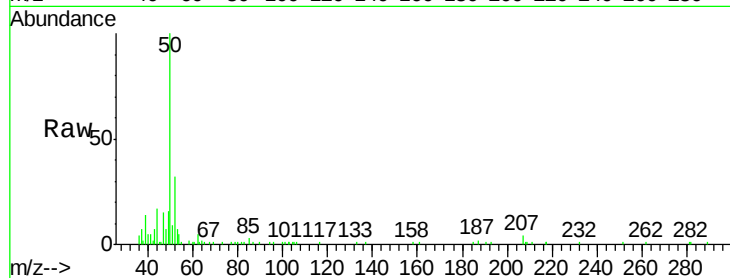
50 100

52 31.3 26.1 39.1

Manual Integrations
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#4

Vinyl Chloride

Concen: 20.861 ug/l

RT: 1.20 min Scan# 67

Delta R.T. 0.01 min

Lab File: VF062564.D

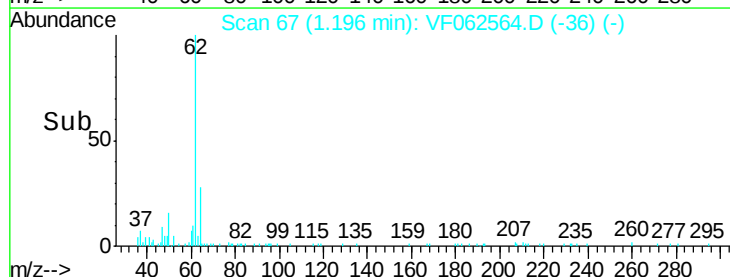
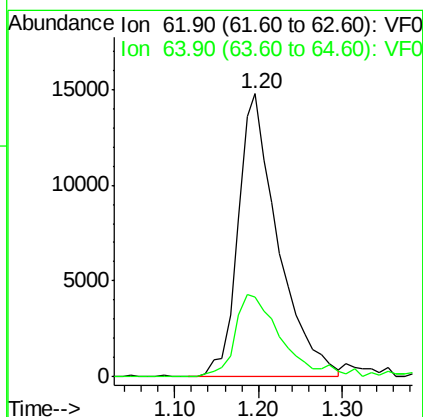
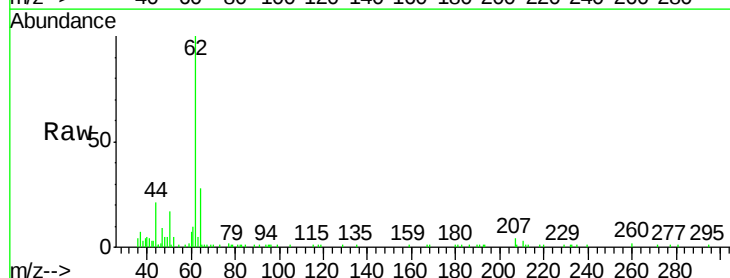
Acq: 14 May 2019 3:07

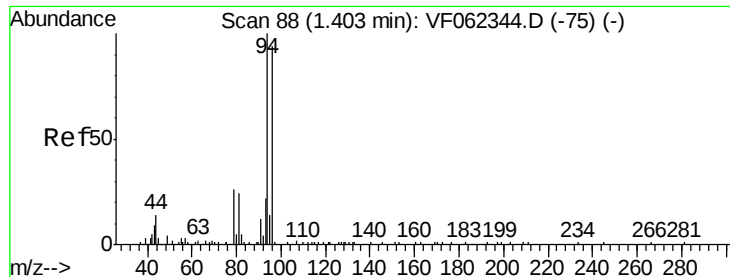
Tgt Ion: 62 Resp: 48768

Ion Ratio Lower Upper

62 100

64 28.1 26.1 39.1





#5

Bromomethane

Concen: 23.004 ug/l

RT: 1.38 min Scan# 86

Delta R.T. -0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS02

Tot Ion: 94 Resp: 42970

Ion Ratio Lower Upper

94 100

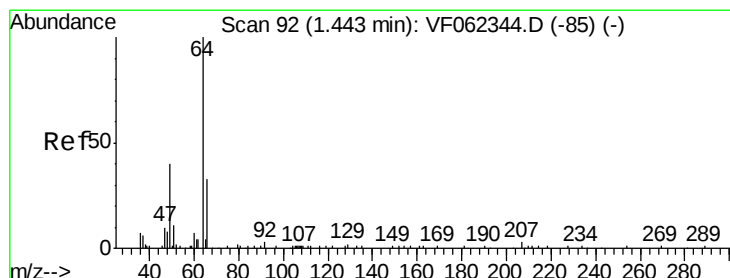
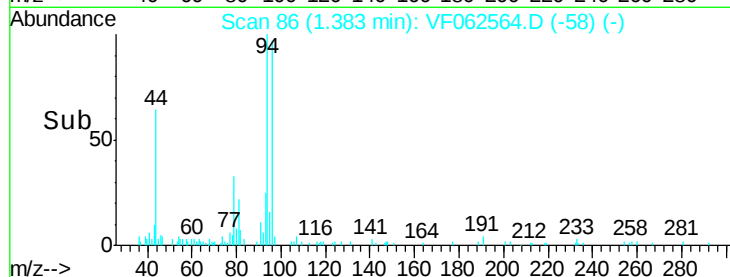
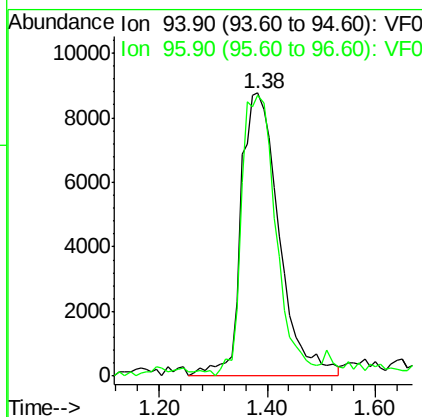
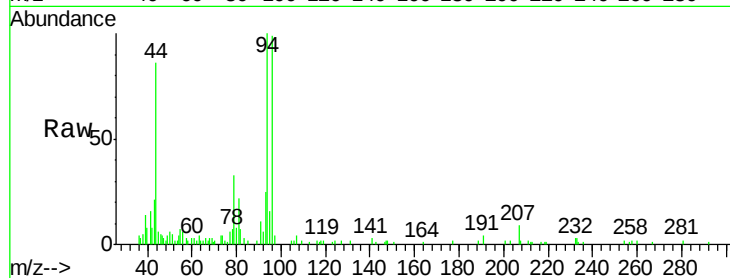
96 97.5 75.4 113.2

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#6

Chloroethane

Concen: 21.630 ug/l

RT: 1.45 min Scan# 93

Delta R.T. 0.01 min

Lab File: VF062564.D

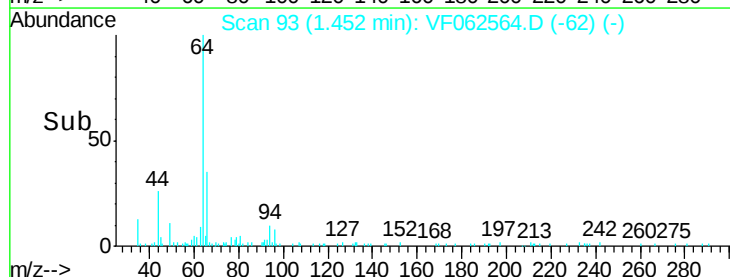
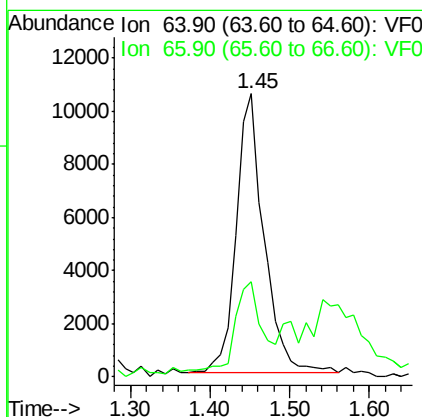
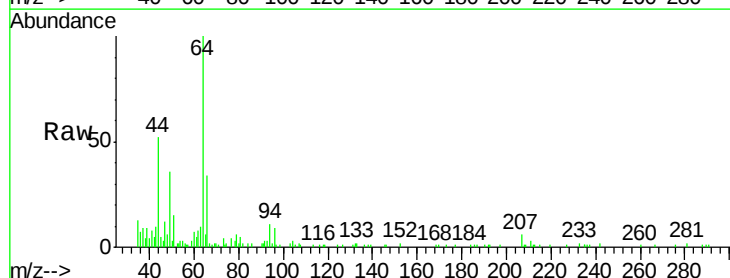
Acq: 14 May 2019 3:07

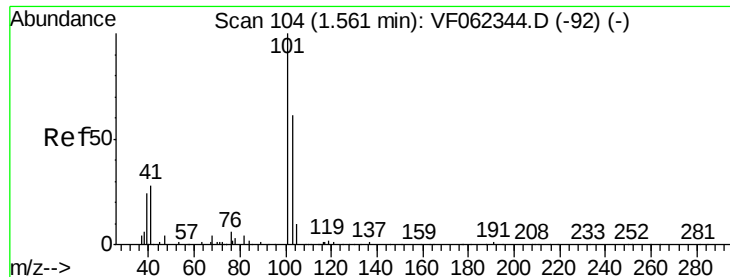
Tgt Ion: 64 Resp: 25422

Ion Ratio Lower Upper

64 100

66 31.6 26.6 39.8





#7

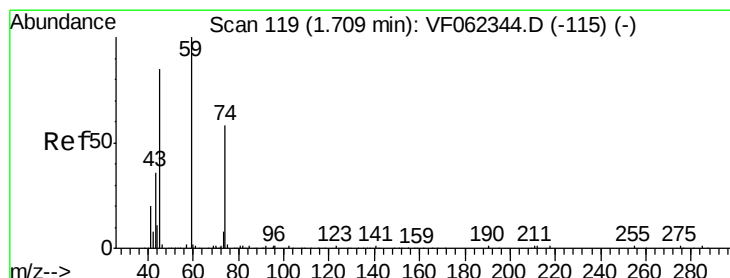
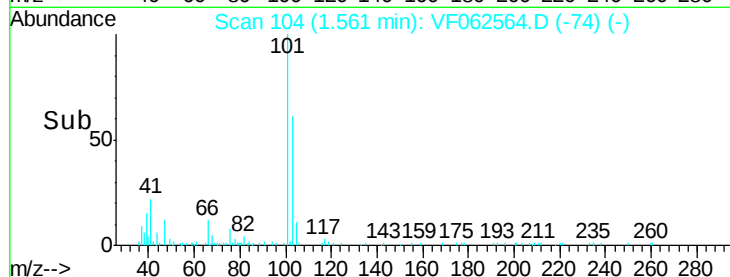
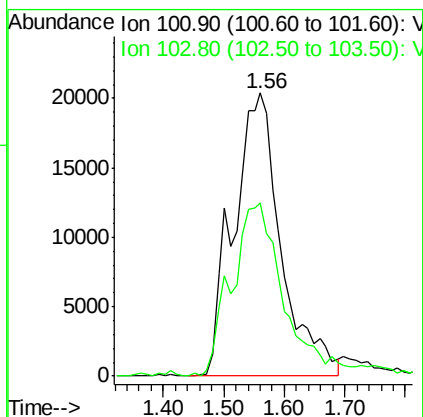
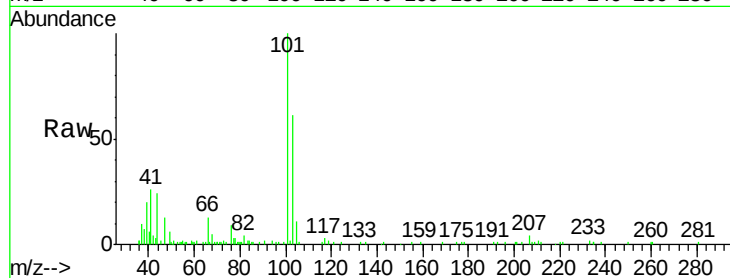
Trichlorofluoromethane
Concen: 23.132 ug/l
RT: 1.56 min Scan# 104
Delta R.T. -0.00 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Instrument :
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ClientSampleId :
VF0513SBS02

Tot Ion	Ratio	Lower	Upper
101	100		
103	61.3	48.5	72.7

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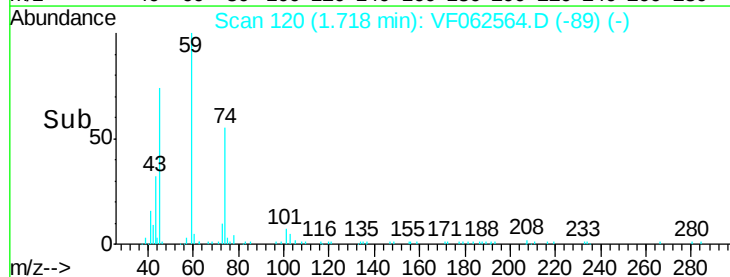
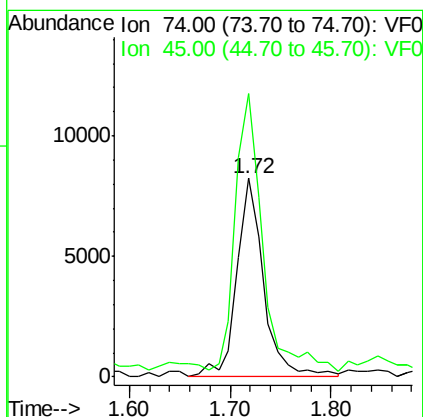
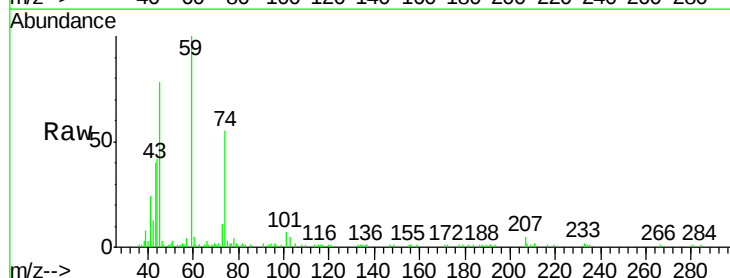
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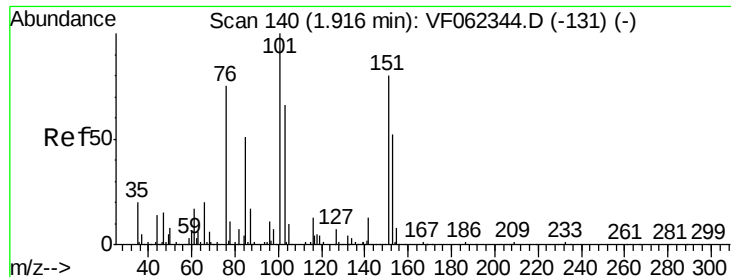


#8

Diethyl Ether
Concen: 20.897 ug/l
RT: 1.72 min Scan# 120
Delta R.T. 0.01 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Tgt Ion	Ratio	Lower	Upper
74	100		
45	140.9	73.9	221.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.925 ug/l

RT: 1.92 min Scan# 140

Delta R.T. -0.00 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

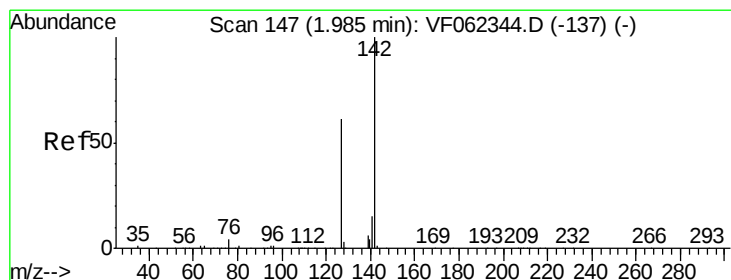
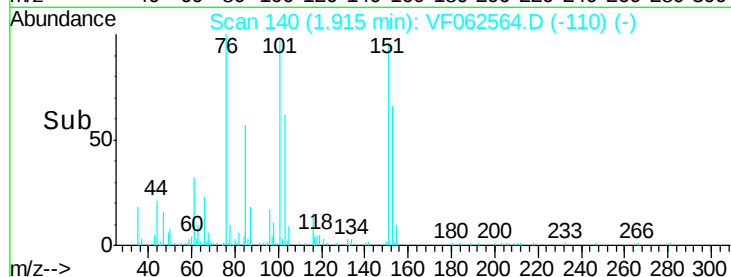
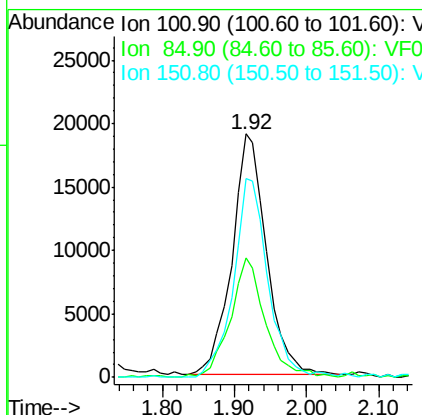
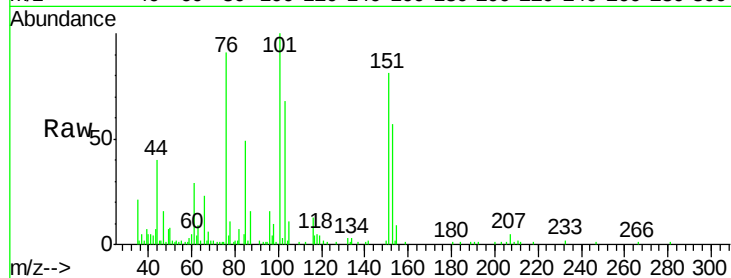
ClientSampleId :

VF0513SBS02

Tot Ion:	101	Resp:	63483
Ion Ratio	Lower	Upper	
101	100		
85	50.0	39.5	59.3
151	82.6	59.9	89.9

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#10

Methyl Iodide

Concen: 24.387 ug/l

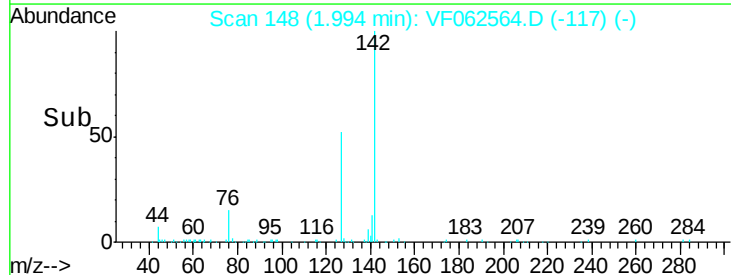
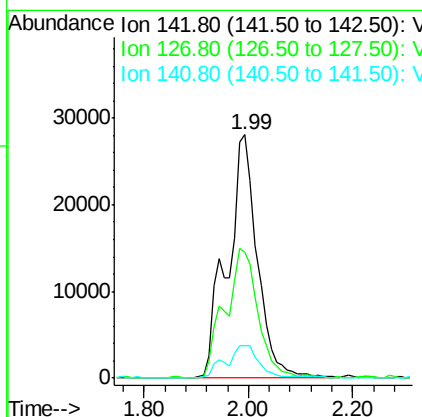
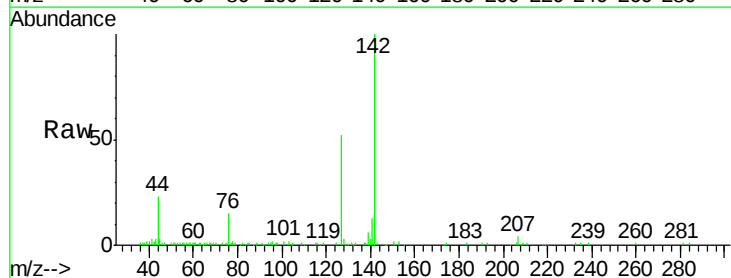
RT: 1.99 min Scan# 148

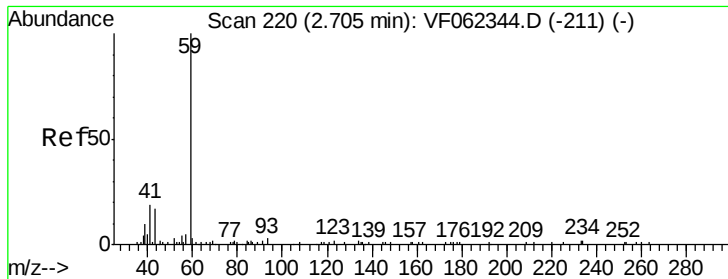
Delta R.T. 0.01 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Tgt Ion:	142	Resp:	111289
Ion Ratio	Lower	Upper	
142	100		
127	58.9	48.4	72.6
141	14.9	12.2	18.4





#11

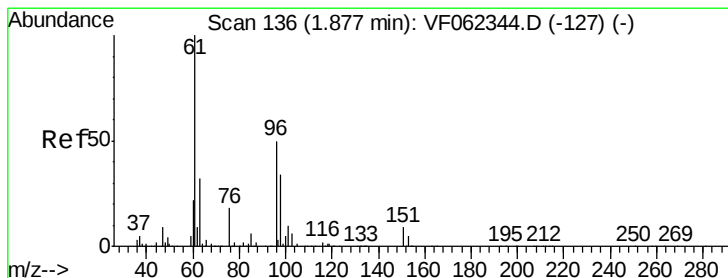
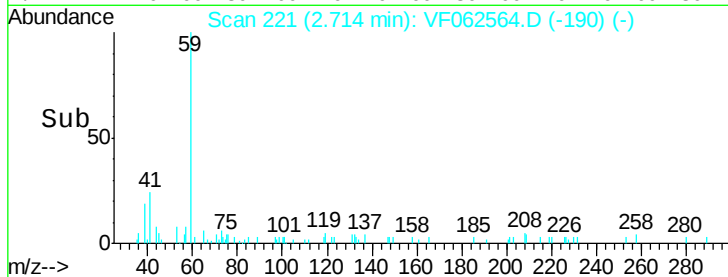
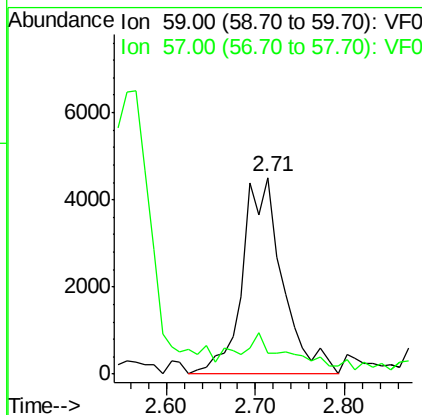
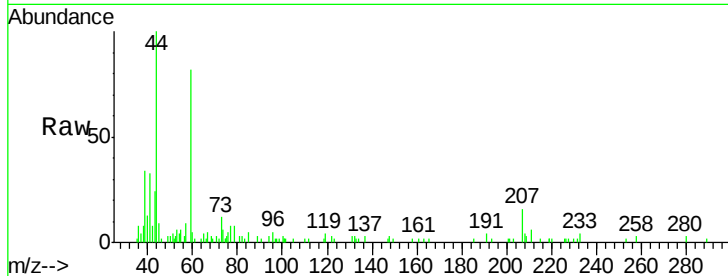
Tert butyl alcohol
 Concen: 85.633 ug/l
 RT: 2.71 min Scan# 221
 Delta R.T. 0.01 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0513SBS02

Tot Ion	Ratio	Lower	Upper
59	100		
57	13.3	9.3	13.9

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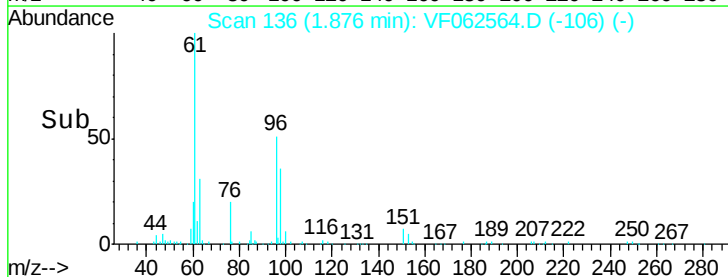
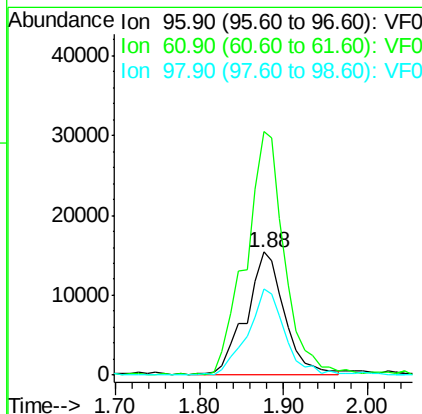
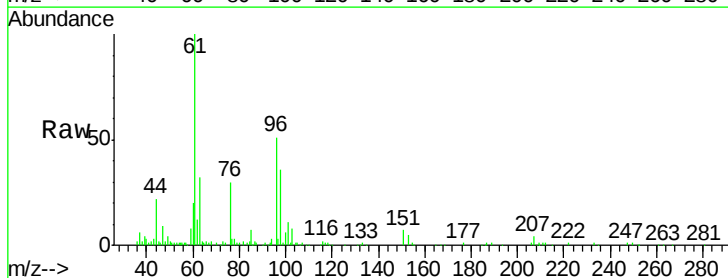
MMDadoda
 5/14/2019 11:05:16 AM

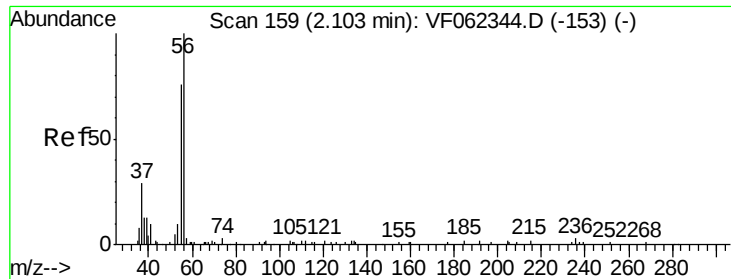


#12

1,1-Dichloroethene
 Concen: 21.105 ug/l
 RT: 1.88 min Scan# 136
 Delta R.T. -0.00 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

Tgt Ion	Ratio	Lower	Upper
96	100		
61	197.1	163.2	244.8
98	70.5	55.2	82.8





#13

Acrolein

Concen: 62.079 ug/l

RT: 2.11 min Scan# 160

Delta R.T. 0.01 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS02

Tot Ion: 56 Resp: 7902

Ion Ratio Lower Upper

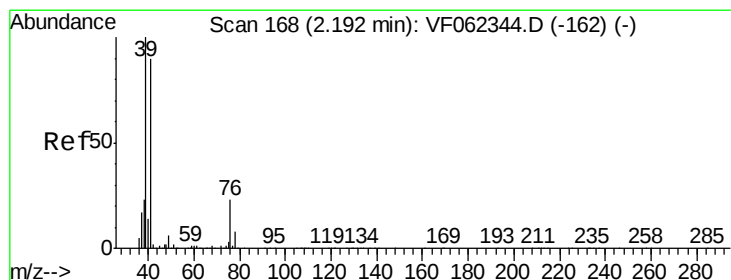
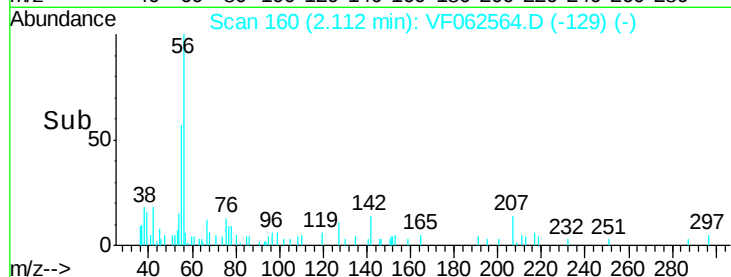
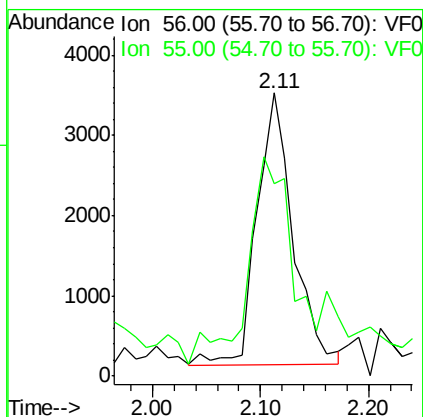
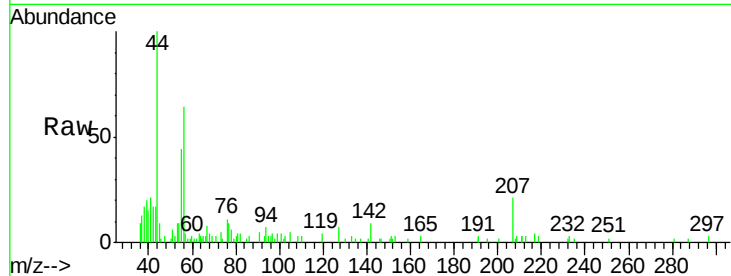
56 100

55 94.1 58.4 87.6#

Manual Integrations
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MMDadoda

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#14

Allyl chloride

Concen: 35.158 ug/l

RT: 2.21 min Scan# 170

Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

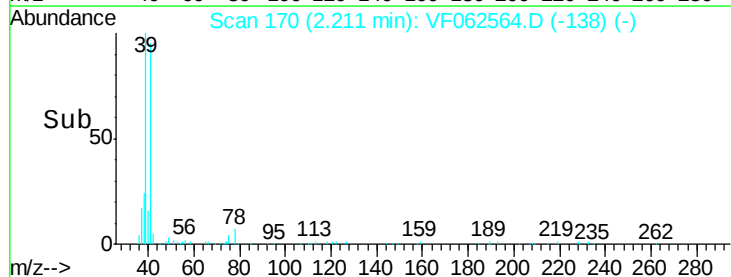
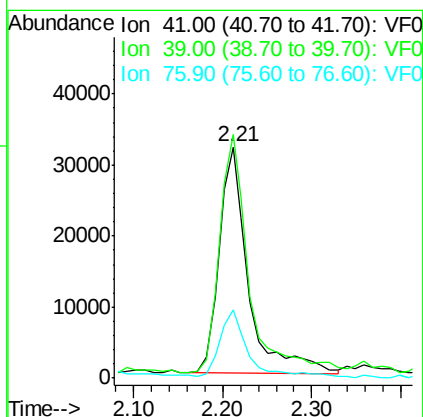
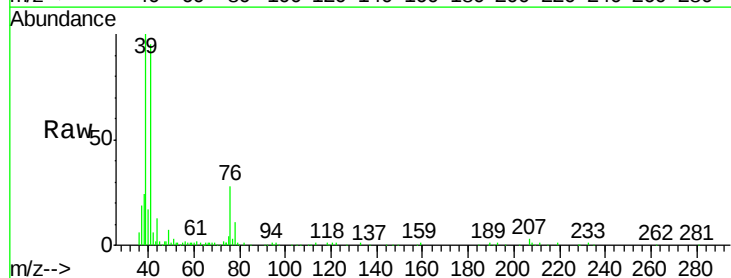
Tgt Ion: 41 Resp: 73114

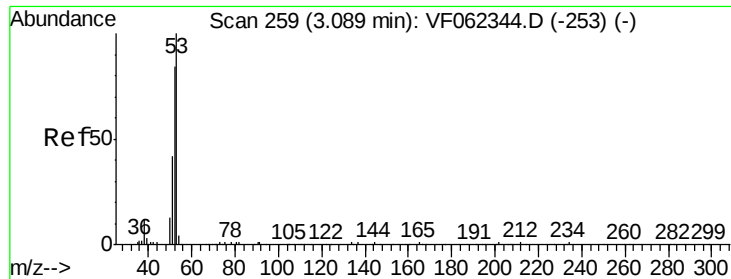
Ion Ratio Lower Upper

41 100

39 107.6 90.8 136.2

76 30.2 22.2 33.4





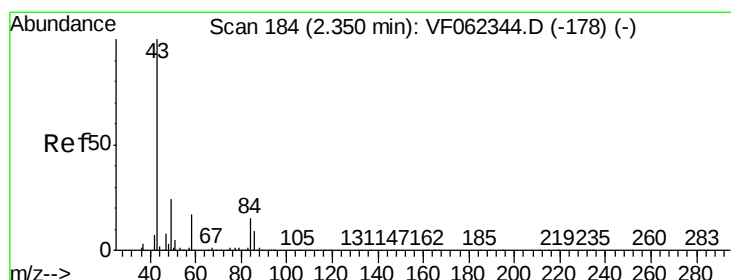
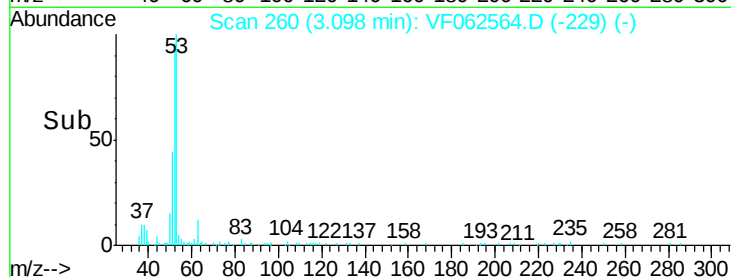
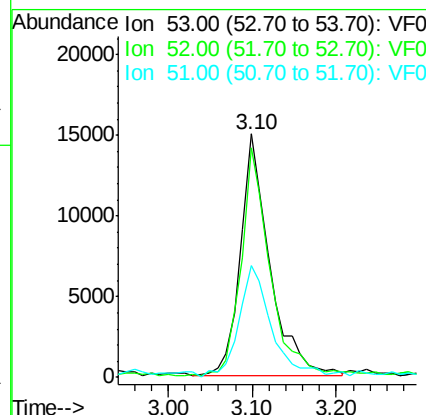
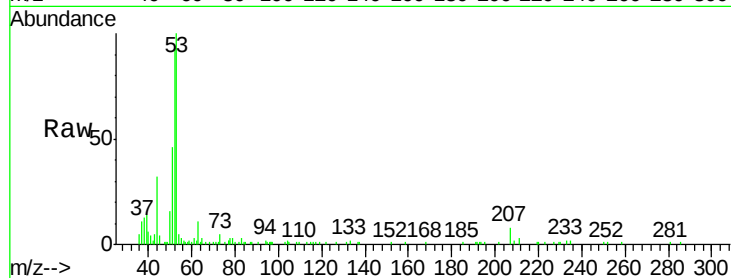
#15
Acrylonitrile
Concen: 117.567 ug/l
RT: 3.10 min Scan# 260
Delta R.T. 0.01 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS02

Tot Ion:	53	Resp:	36524
Ion	Ratio	Lower	Upper
53	100		
52	96.2	77.2	115.8
51	51.6	40.6	61.0

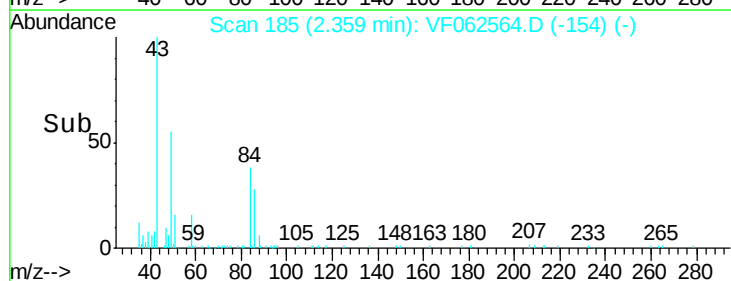
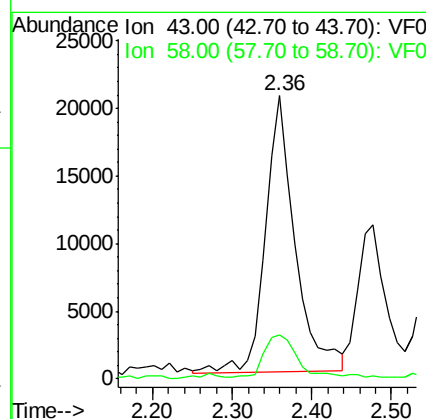
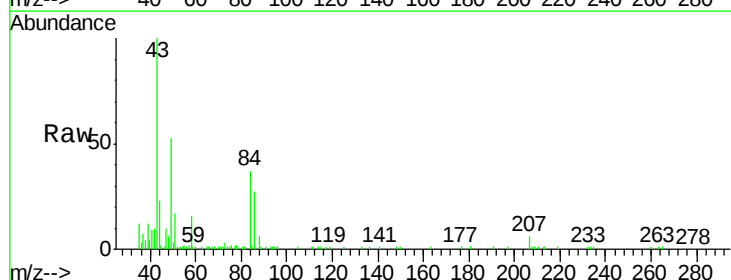
Manual Integrations
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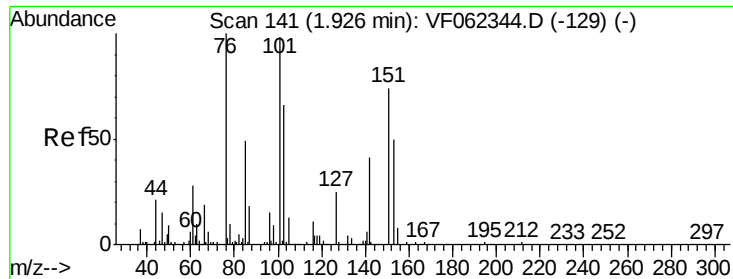
MMDadoda
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#16
Acetone
Concen: 89.265 ug/l
RT: 2.36 min Scan# 185
Delta R.T. 0.01 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Tgt Ion:	43	Resp:	52400
Ion	Ratio	Lower	Upper
43	100		
58	15.1	13.1	19.7





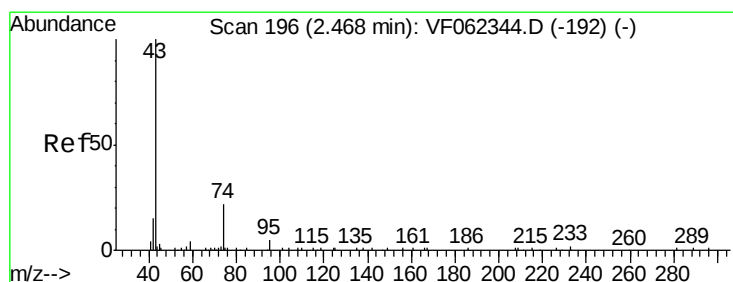
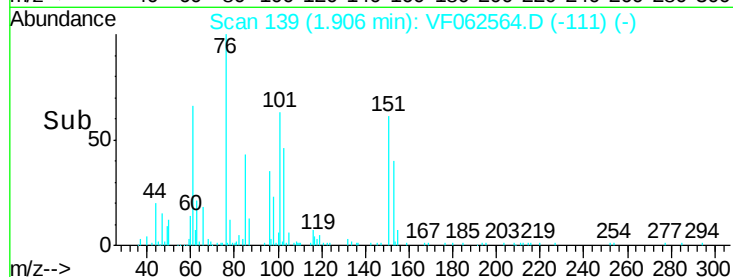
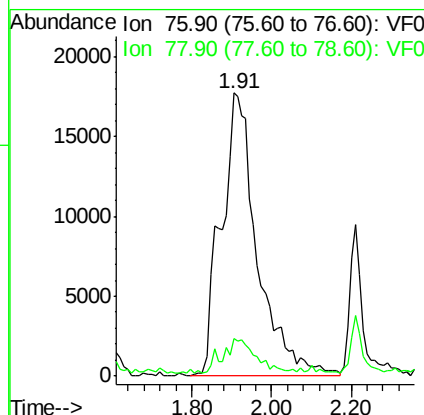
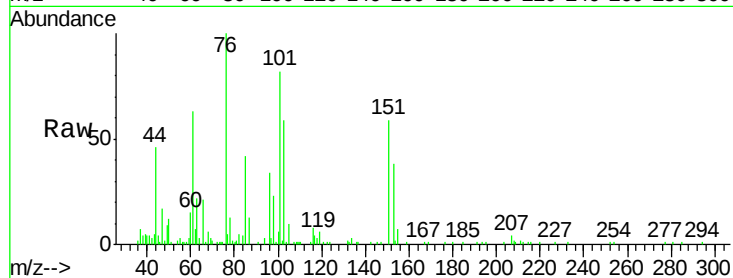
#17
Carbon Disulfide
Concen: 21.999 ug/l
RT: 1.91 min Scan# 139
Delta R.T. -0.02 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS02

Tot Ion	Ratio	Lower	Upper
76	100		
78	12.6	9.0	13.4

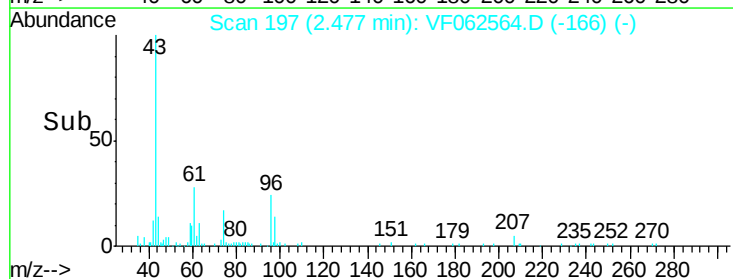
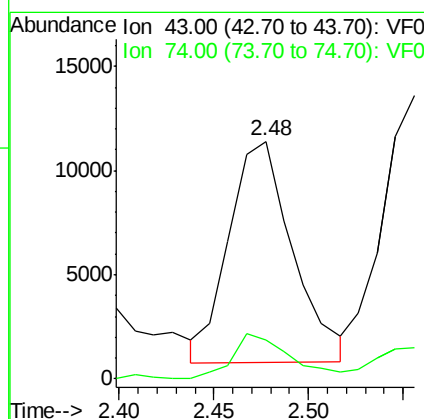
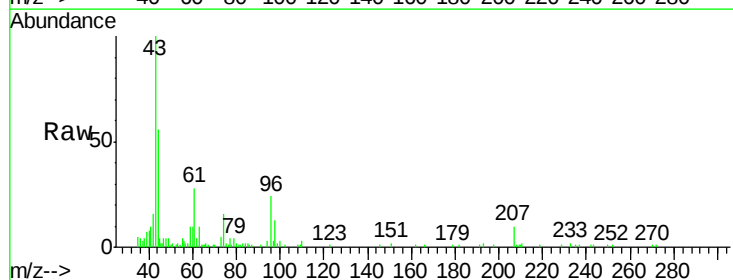
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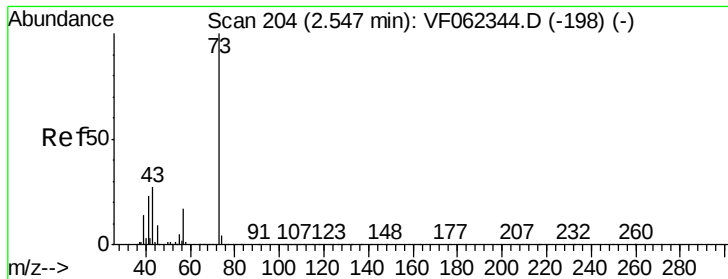
MMDadoda
5/14/2019 11:05:16 AM



#18
Methyl Acetate
Concen: 21.216 ug/l
RT: 2.48 min Scan# 197
Delta R.T. 0.01 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Tgt Ion	Ratio	Lower	Upper
43	100		
74	18.7	15.0	22.4





#19

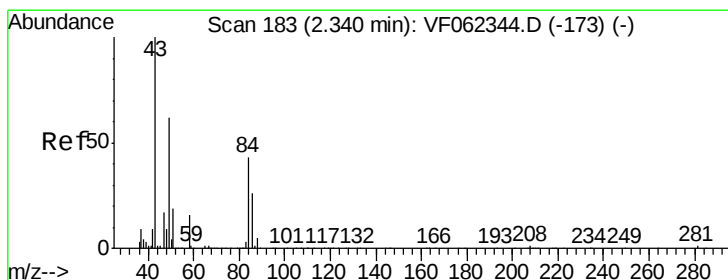
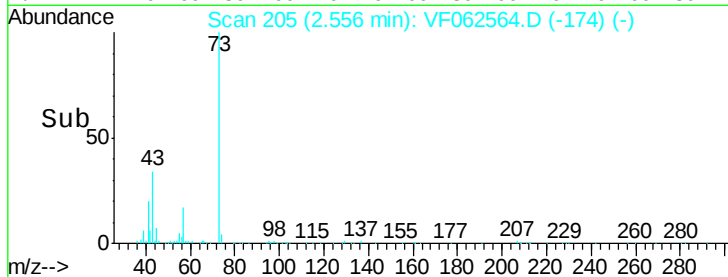
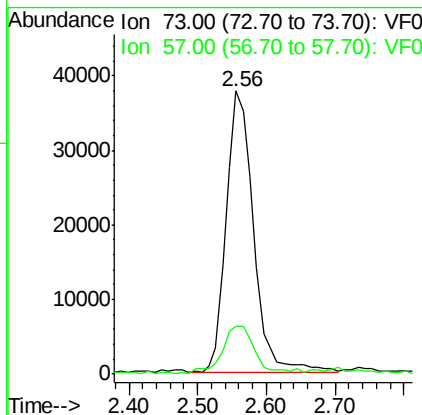
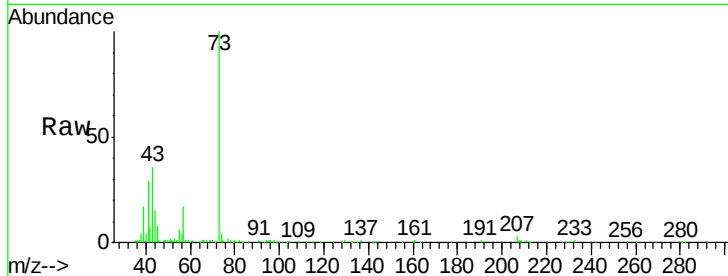
Methyl tert-butyl Ether
 Concen: 21.422 ug/l
 RT: 2.56 min Scan# 205
 Delta R.T. 0.01 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0513SBS02

Tot Ion	73	Resp	104103
Ion Ratio	Lower	Upper	
73	100		
57	16.8	13.7	20.5

Manual Integrations
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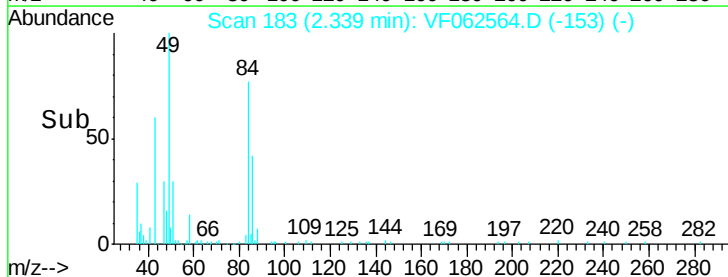
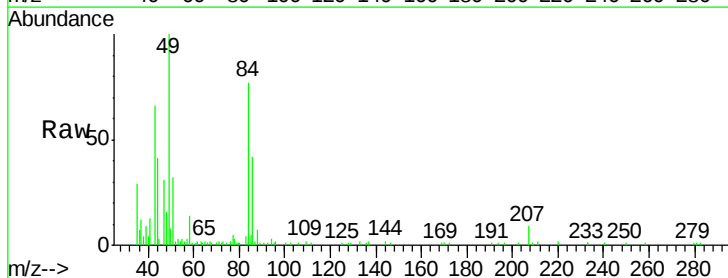
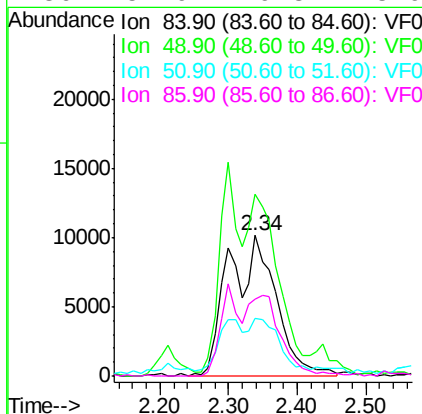
MMDadoda
 5/14/2019 11:05:16 AM

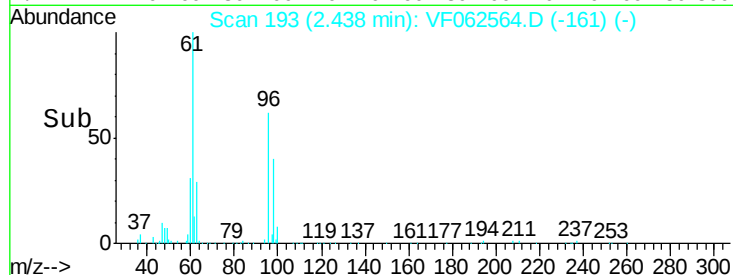
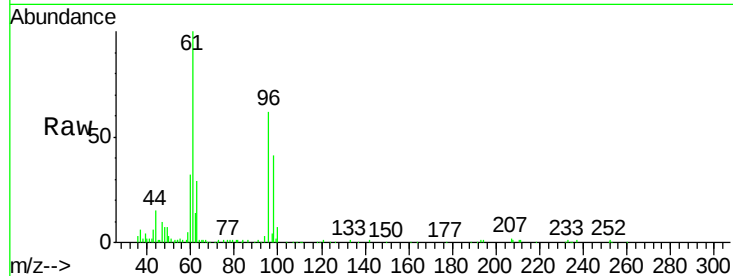
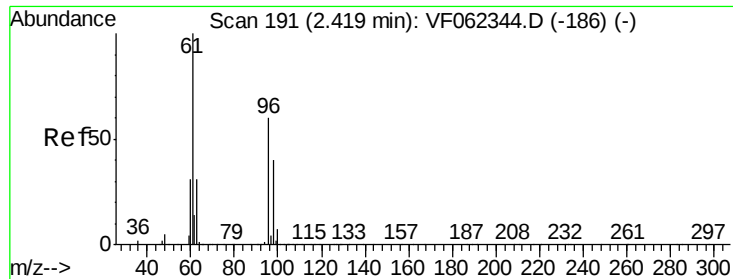


#20

Methylene Chloride
 Concen: 23.002 ug/l m
 RT: 2.34 min Scan# 183
 Delta R.T. -0.00 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

Tgt Ion	84	Resp	48853
Ion Ratio	Lower	Upper	
84	100		
49	129.3	117.5	176.3
51	41.0	37.0	55.4
86	54.9	49.3	73.9





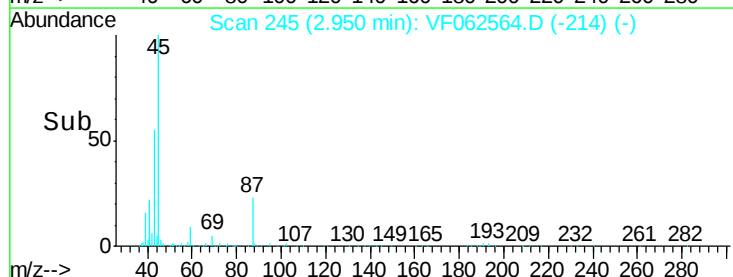
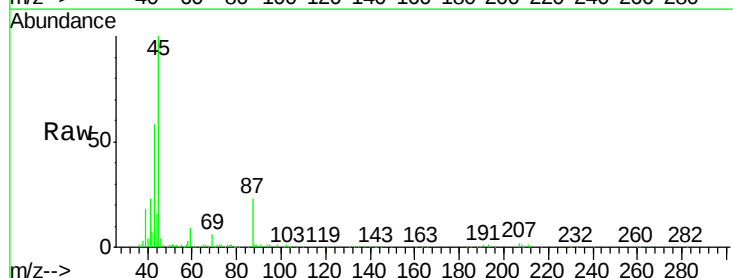
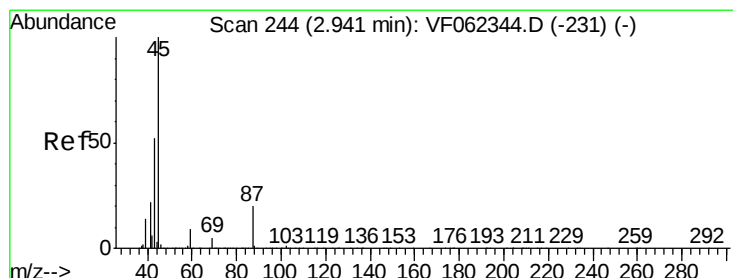
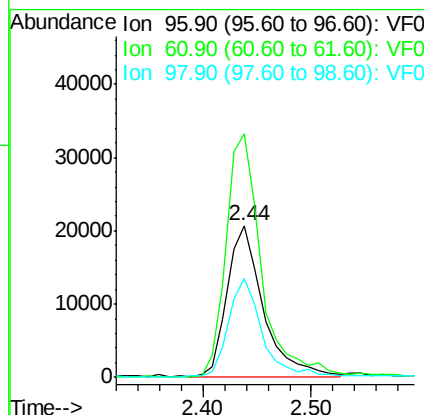
#21
trans-1,2-Dichloroethene
Concen: 21.762 ug/l
RT: 2.44 min Scan# 193
Delta R.T. 0.02 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Tot Ion:	96	Resp:	48811
Ion Ratio	Lower	Upper	
96	100		
61	160.7	133.2	199.8
98	64.4	53.1	79.7

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS02

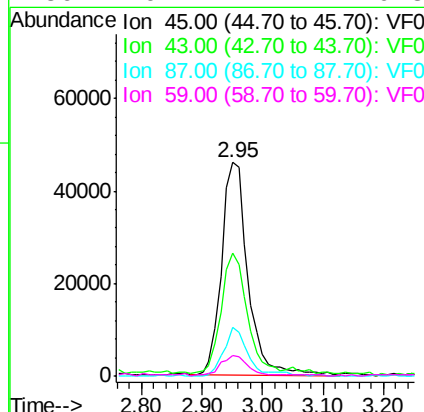
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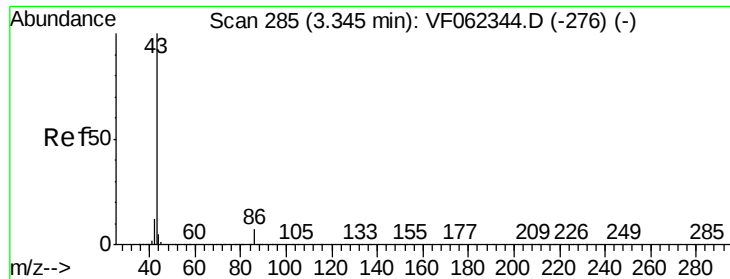
MMDadoda
5/14/2019 11:05:16 AM



#22
Diisopropyl ether
Concen: 21.402 ug/l
RT: 2.95 min Scan# 245
Delta R.T. 0.01 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Tgt Ion:	45	Resp:	139104
Ion Ratio	Lower	Upper	
45	100		
43	56.6	41.4	62.0
87	23.1	15.8	23.6
59	9.1	7.2	10.8





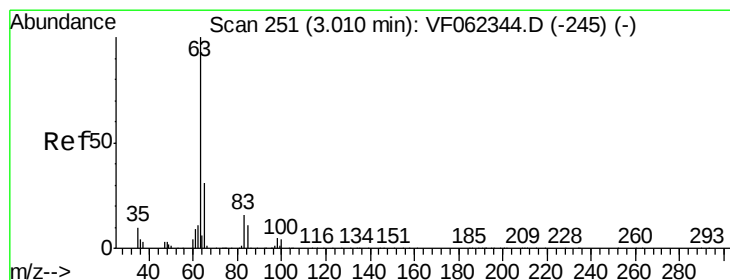
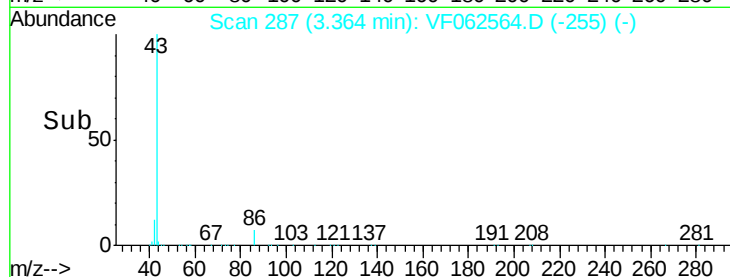
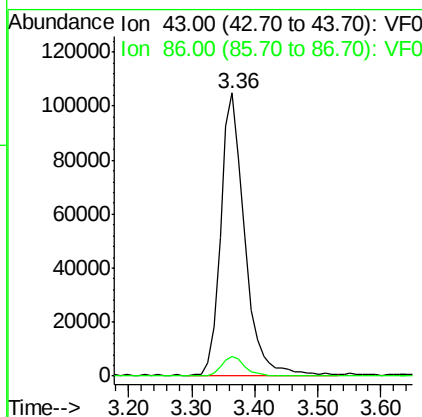
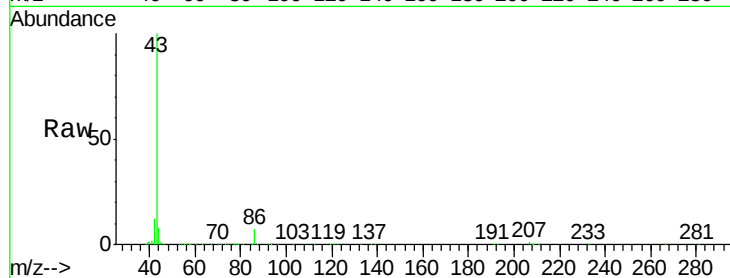
#23
 Vinyl Acetate
 Concen: 96.044 ug/l
 RT: 3.36 min Scan# 287
 Delta R.T. 0.02 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0513SBS02

Tot Ion	43	Resp	278220
Ion Ratio	100	Lower	Upper
43	100		
86	7.0	5.7	8.5

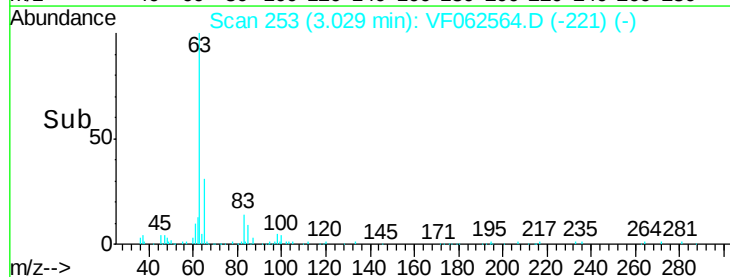
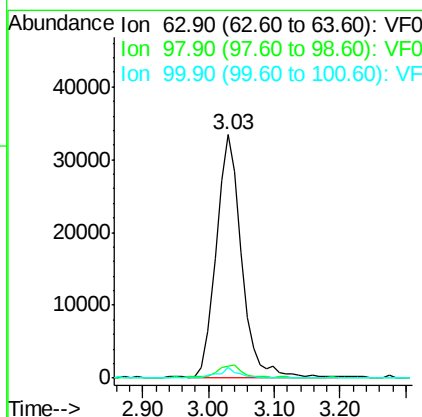
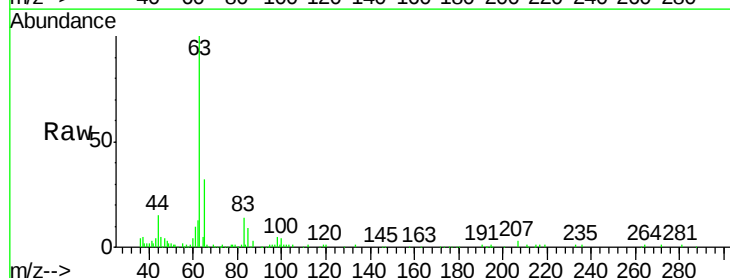
Manual Integrations
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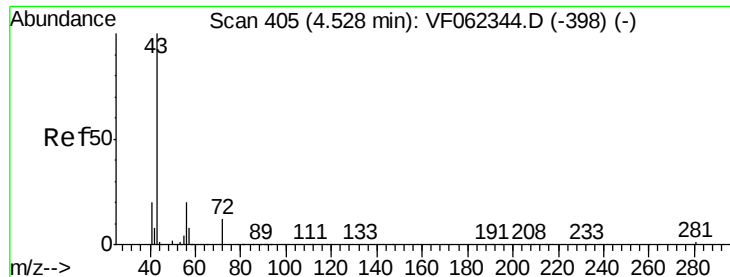
MMDadoda
 5/14/2019 11:05:16 AM



#24
 1,1-Dichloroethane
 Concen: 22.862 ug/l
 RT: 3.03 min Scan# 253
 Delta R.T. 0.02 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

Tgt Ion	63	Resp	89806
Ion Ratio	100	Lower	Upper
63	100		
98	5.1	2.6	8.0
100	4.3	1.8	5.4





#25

2-Butanone

Concen: 95.501 ug/l

RT: 4.55 min Scan# 407

Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS02

Tot Ion: 43 Resp: 70431

Ion Ratio Lower Upper

43 100

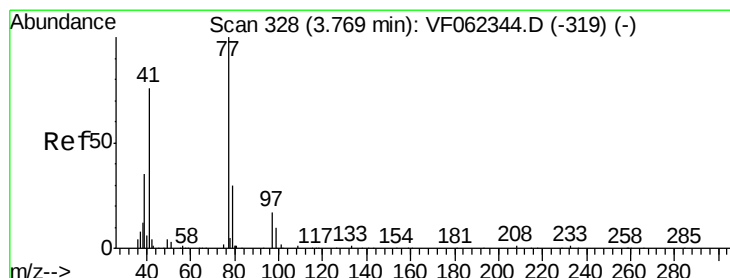
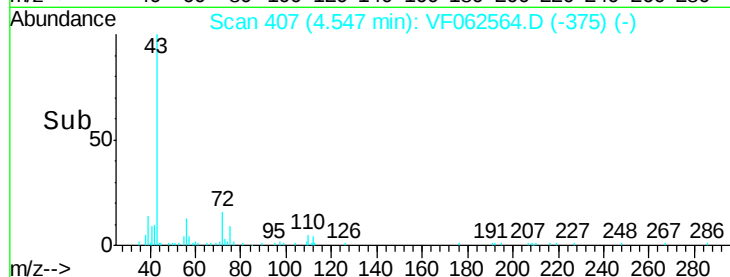
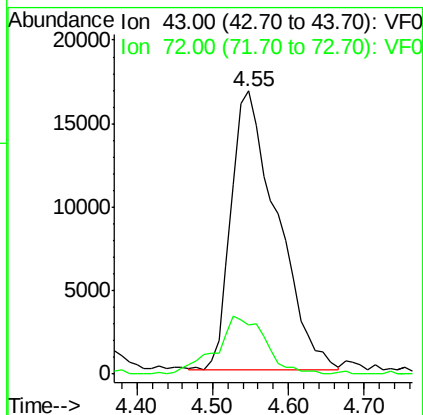
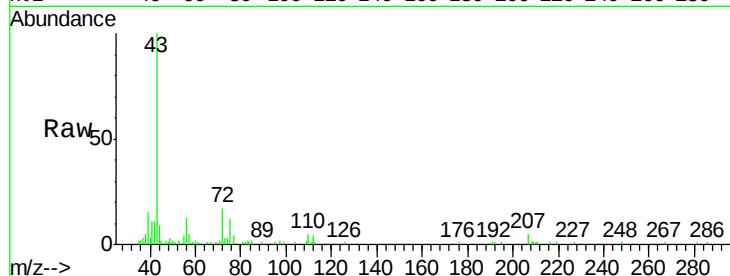
72 17.0 14.2 21.4

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 23.354 ug/l

RT: 3.79 min Scan# 330

Delta R.T. 0.02 min

Lab File: VF062564.D

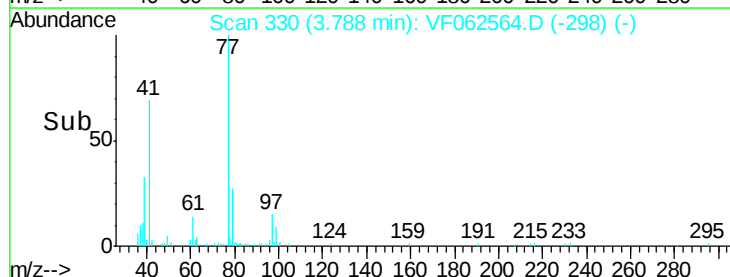
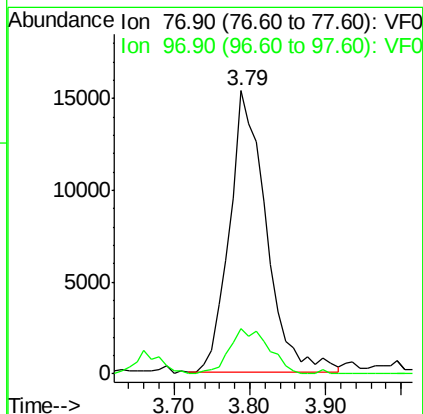
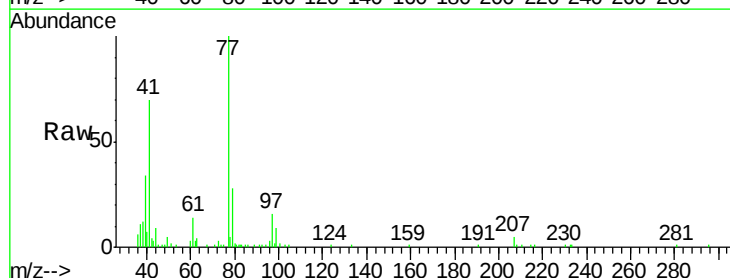
Acq: 14 May 2019 3:07

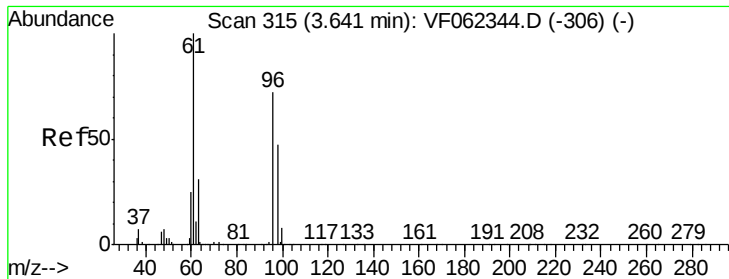
Tgt Ion: 77 Resp: 51231

Ion Ratio Lower Upper

77 100

97 17.3 9.5 28.5





#27

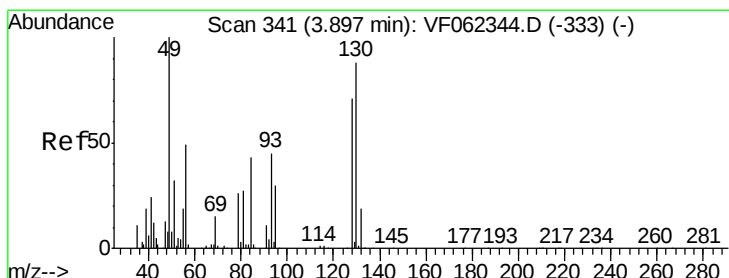
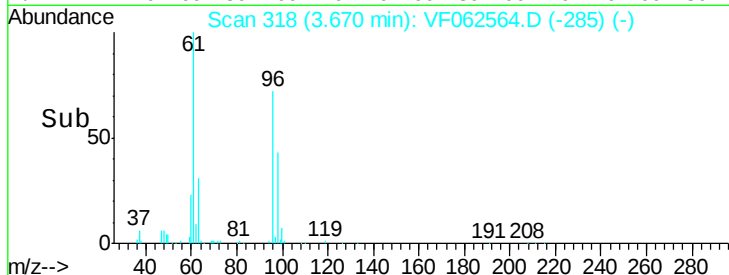
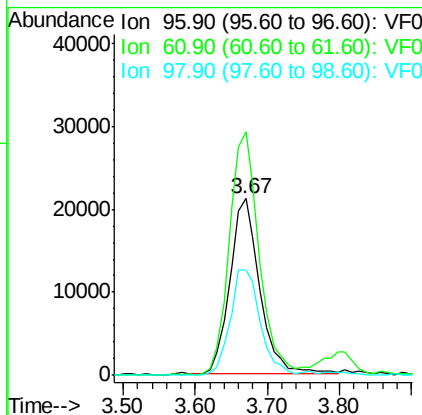
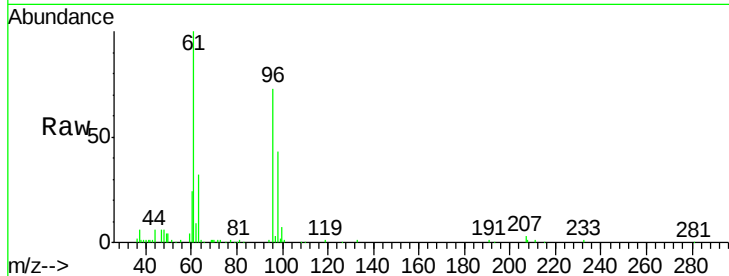
cis-1,2-Dichloroethene
Concen: 21.861 ug/l
RT: 3.67 min Scan# 318
Delta R.T. 0.03 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS02

Tot Ion	Ratio	Resp	Lower	Upper
96	100	61292		
61	137.4	0.0	263.0	
98	60.6	0.0	130.8	

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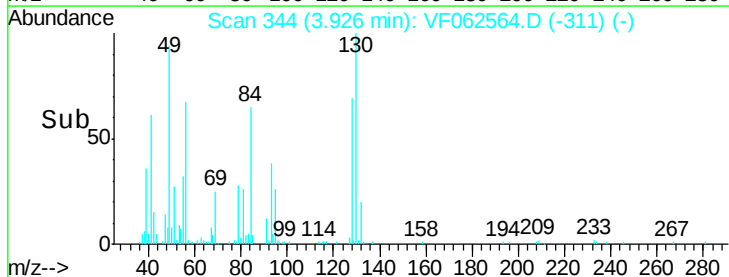
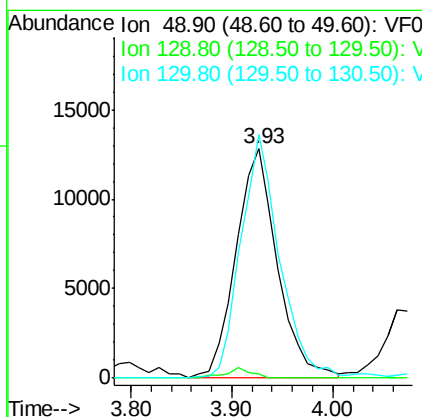
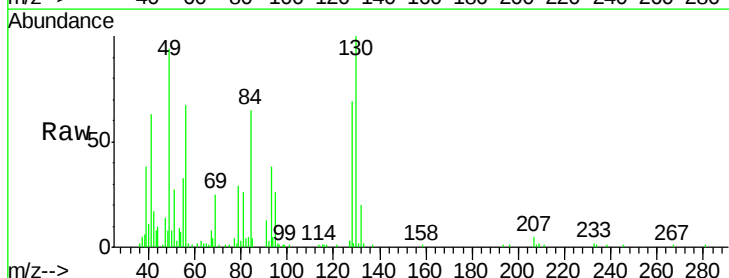
MMDadoda
5/14/2019 11:05:16 AM

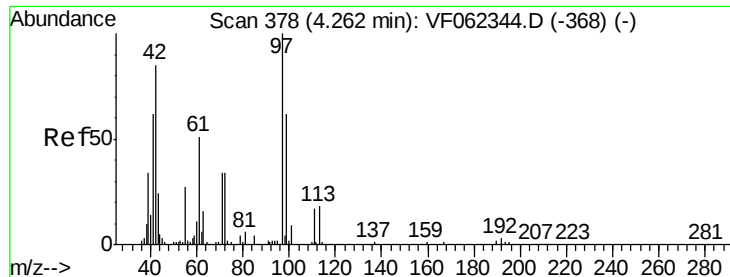


#28

Bromochloromethane
Concen: 20.531 ug/l
RT: 3.93 min Scan# 344
Delta R.T. 0.03 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	36576		
129	2.6	0.0	2.2#	
130	99.7	79.4	119.0	





#29

Tetrahydrofuran

Concen: 98.376 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.03 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

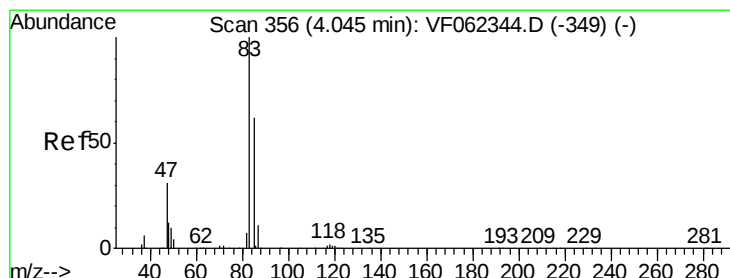
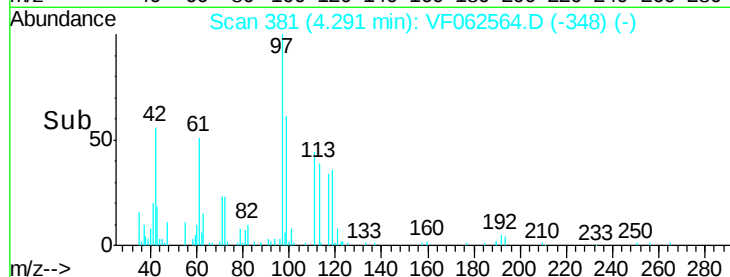
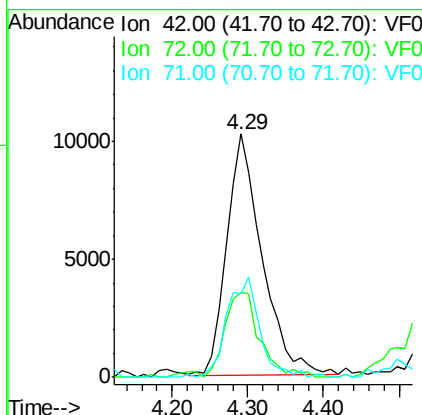
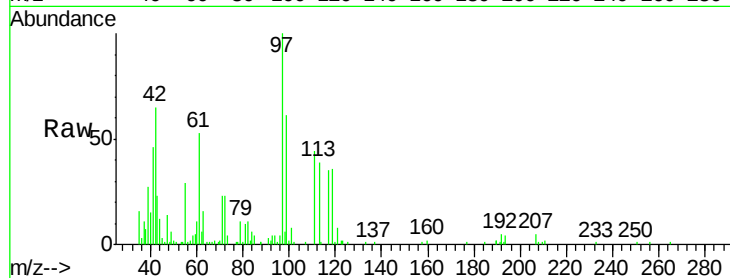
ClientSampleId :

VF0513SBS02

Tot Ion:	42	Resp:	33344
Ion Ratio	Lower	Upper	
42	100		
72	34.6	31.4	47.0
71	38.5	31.7	47.5

Manual Integrations
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#30

Chloroform

Concen: 23.887 ug/l

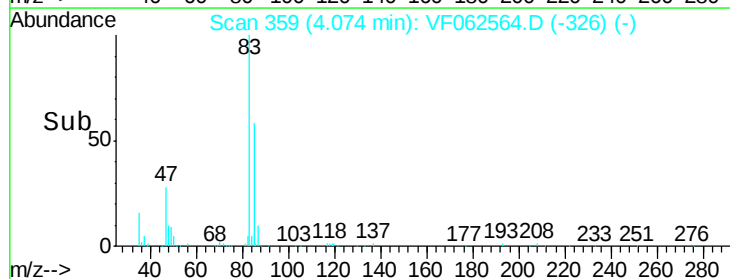
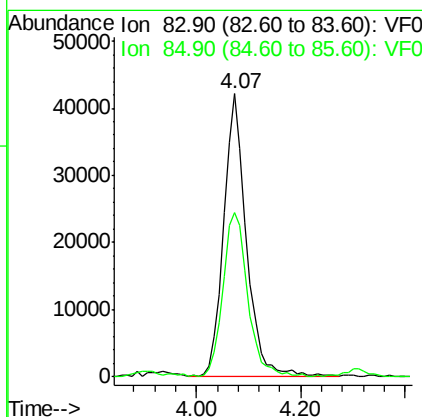
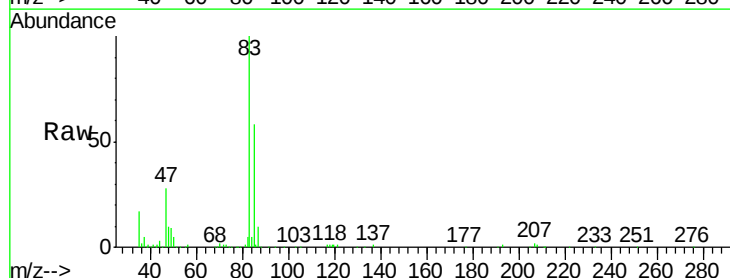
RT: 4.07 min Scan# 359

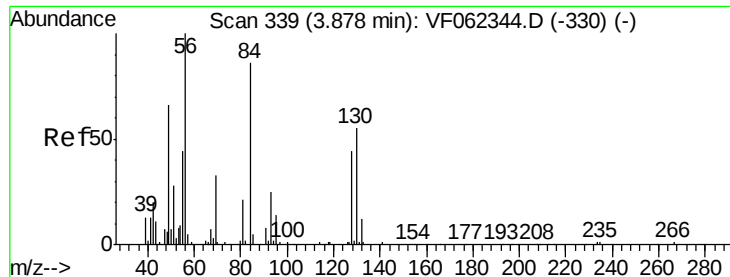
Delta R.T. 0.03 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Tgt Ion:	83	Resp:	126767
Ion Ratio	Lower	Upper	
83	100		
85	57.9	49.6	74.4





#31

Cyclohexane

Concen: 21.148 ug/l

RT: 3.90 min Scan# 341

Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

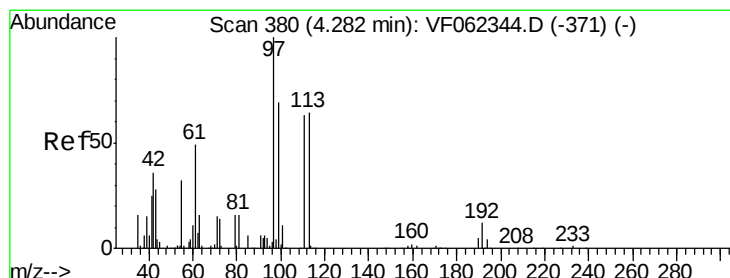
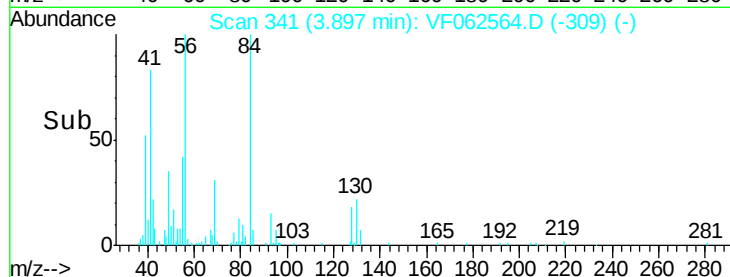
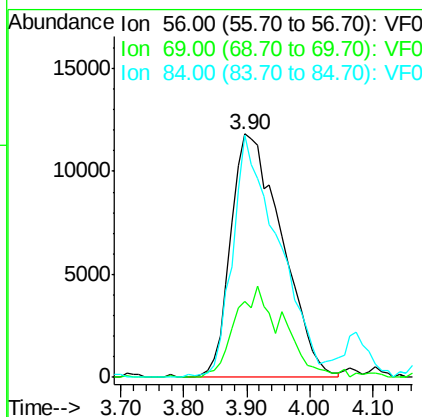
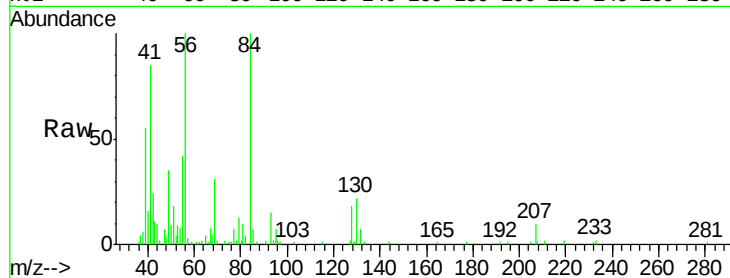
ClientSampleId :

VF0513SBS02

Tot Ion:	56	Resp:	66308
Ion	Ratio	Lower	Upper
56	100		
69	31.2	26.4	39.6
84	98.4	69.0	103.6

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#32

1,1,1-Trichloroethane

Concen: 23.237 ug/l

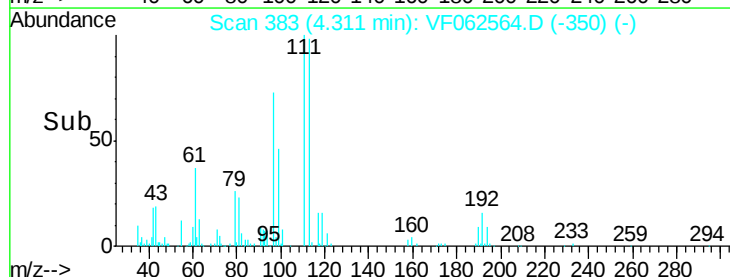
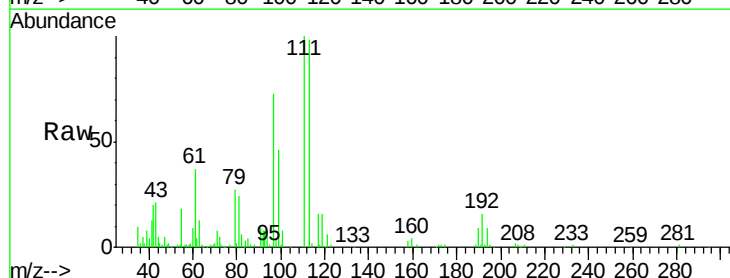
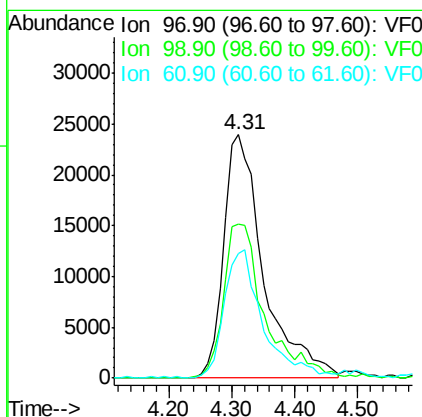
RT: 4.31 min Scan# 383

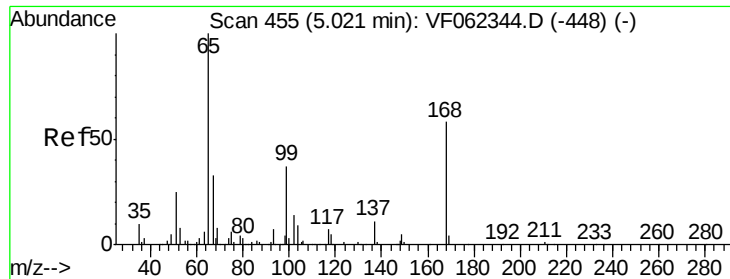
Delta R.T. 0.03 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Tgt Ion:	97	Resp:	105691
Ion	Ratio	Lower	Upper
97	100		
99	64.8	52.6	78.8
61	50.7	39.4	59.0





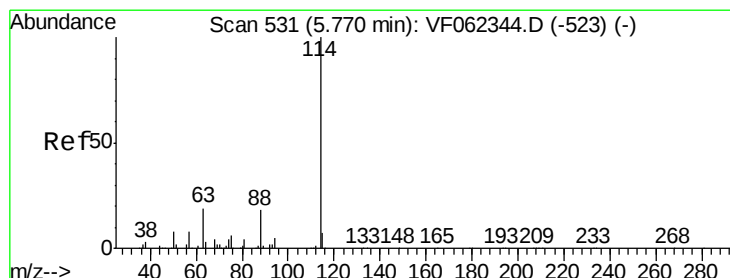
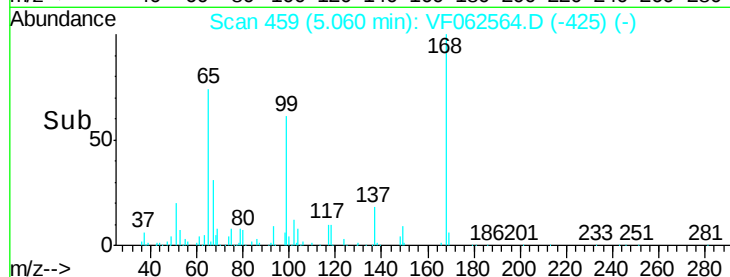
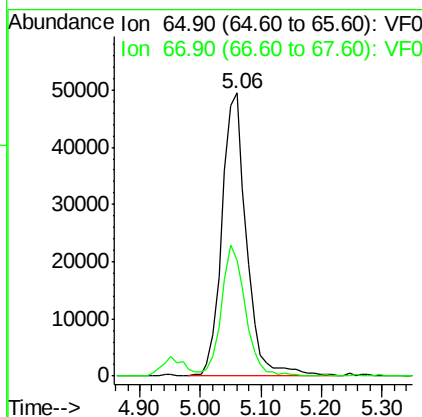
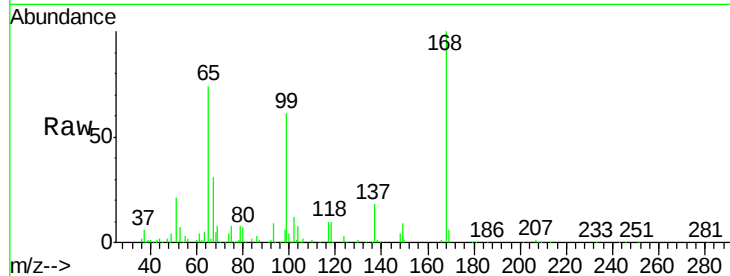
#33
 1,2-Dichloroethane-d4
 Concen: 47.763 ug/l
 RT: 5.06 min Scan# 459
 Delta R.T. 0.04 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0513SBS02

Tot Ion	Ratio	Resp	Lower	Upper
65	100	138600		
67	45.1	0.0	85.8	

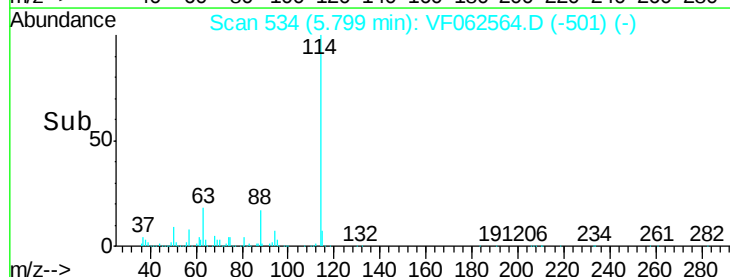
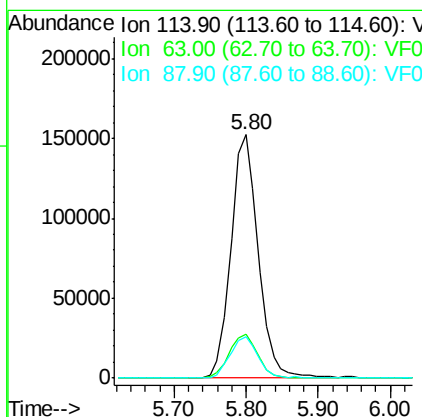
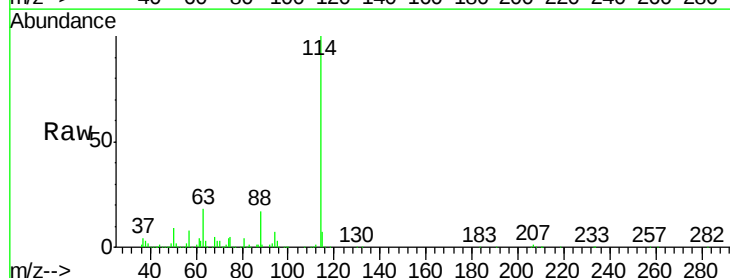
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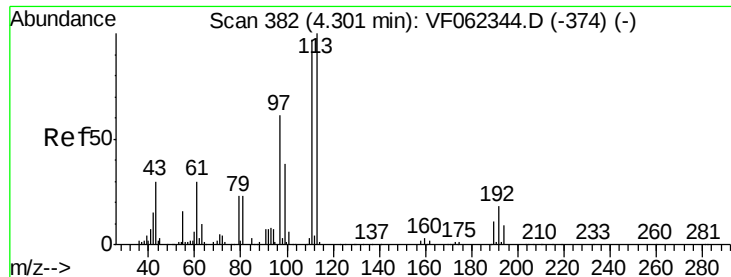
MMDadoda
 5/14/2019 11:05:16 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.80 min Scan# 534
 Delta R.T. 0.03 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	403293		
63	18.1	0.0	37.4	
88	17.2	0.0	36.4	





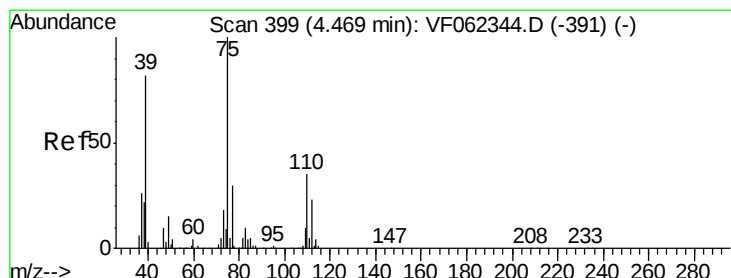
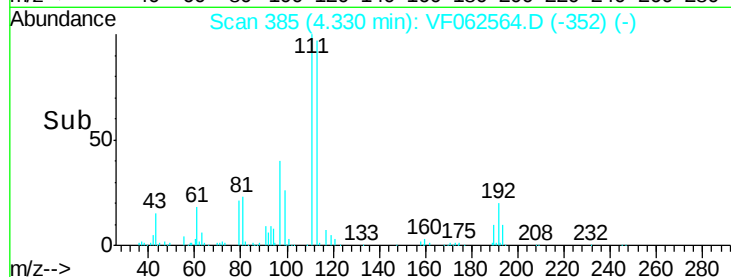
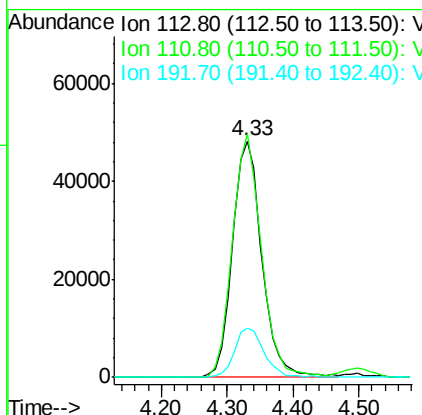
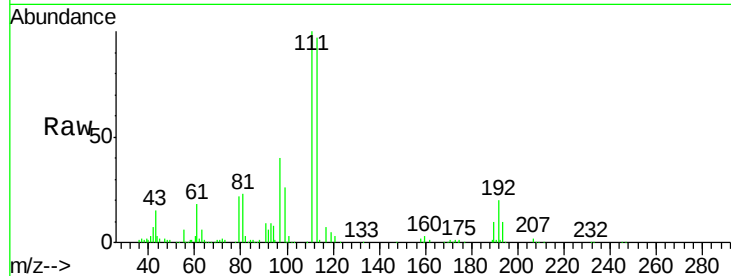
#35
 Dibromofluoromethane
 Concen: 47.139 ug/l
 RT: 4.33 min Scan# 385
 Delta R.T. 0.03 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0513SBS02

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.7	79.4	119.0
192	20.9	16.0	24.0

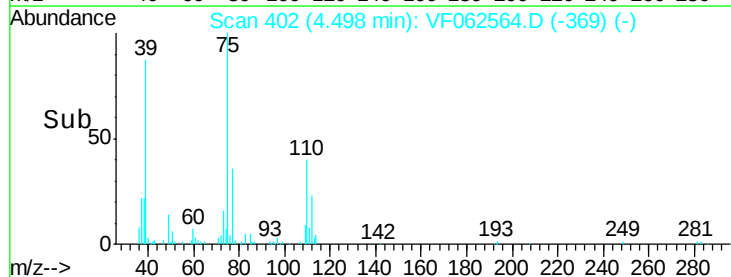
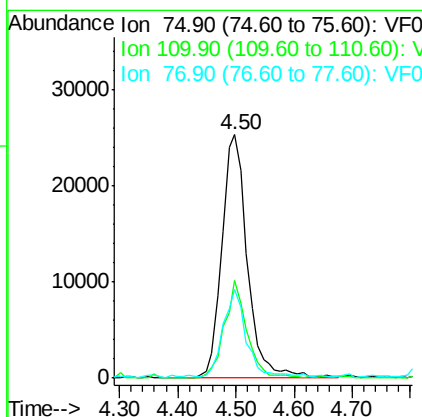
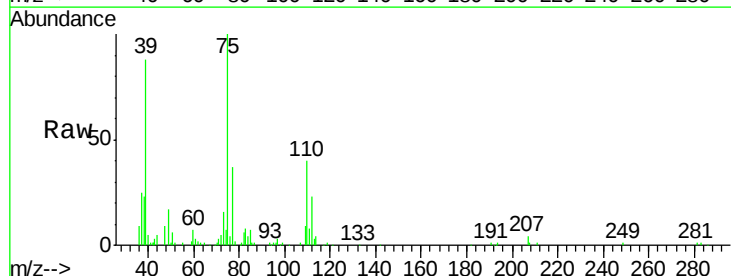
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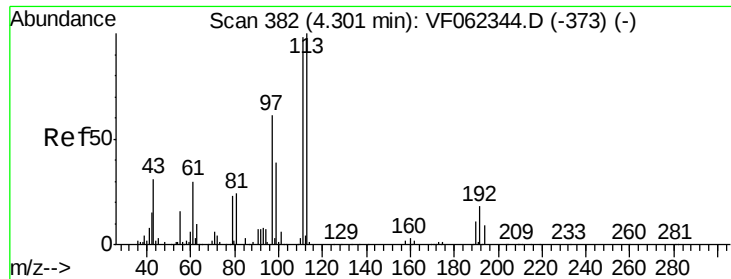
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#36
 1,1-Dichloropropene
 Concen: 22.303 ug/l
 RT: 4.50 min Scan# 402
 Delta R.T. 0.03 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

Tgt Ion	Ratio	Lower	Upper
75	100		
110	35.3	17.2	51.5
77	30.7	25.2	37.8





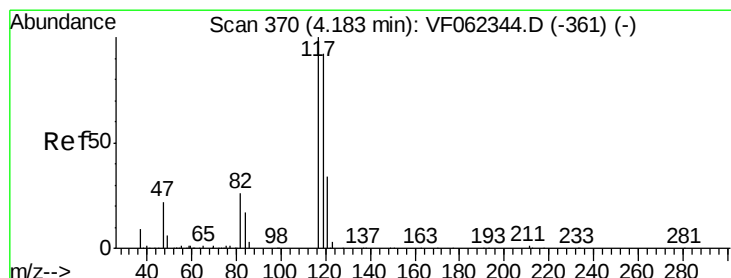
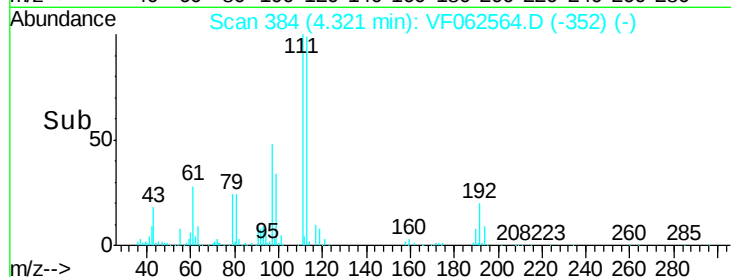
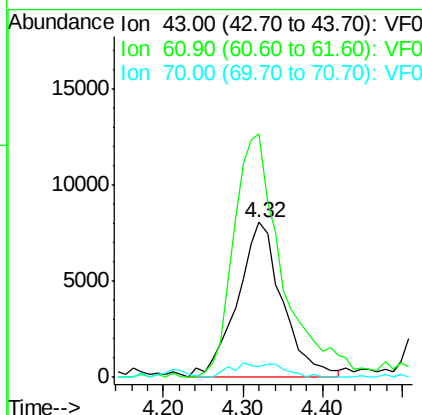
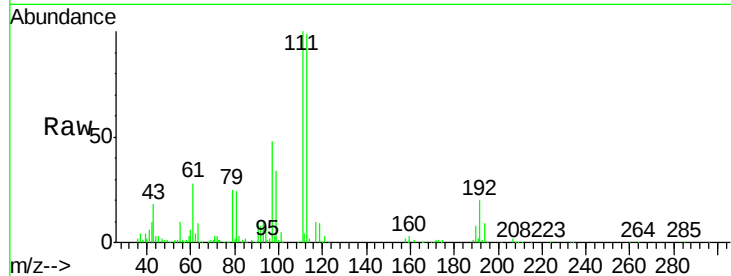
#37
Ethyl Acetate
Concen: 20.234 ug/l
RT: 4.32 min Scan# 384
Delta R.T. 0.02 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS02

Tot Ion	Ratio	Resp	Lower	Upper
43	100			
61	170.1	0.0	0.0	0.0
70	6.0	8.2	12.2	

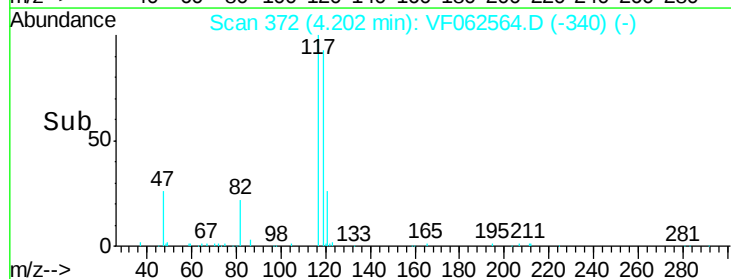
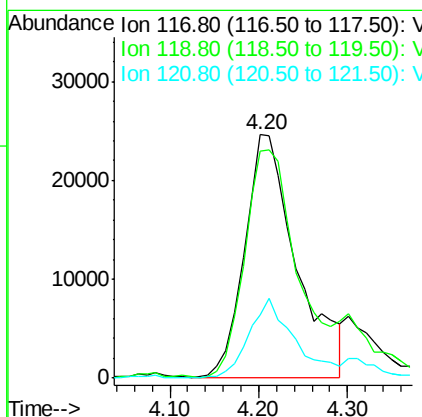
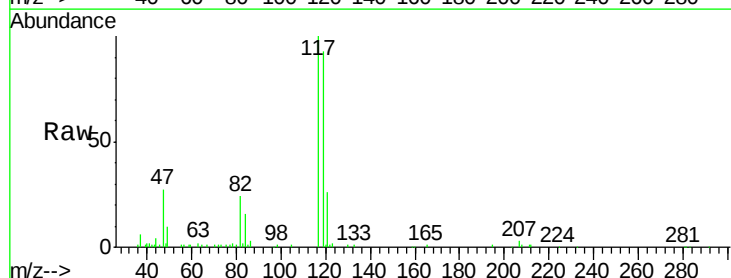
Manual Integrations
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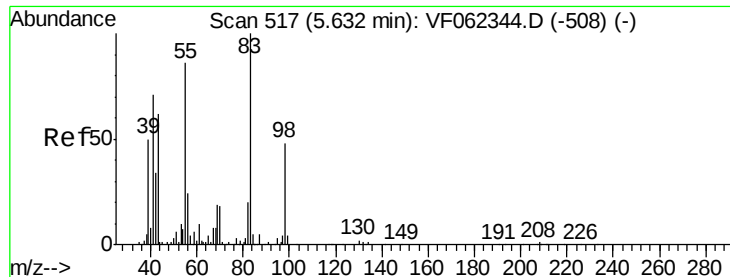
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#38
Carbon Tetrachloride
Concen: 26.799 ug/l m
RT: 4.20 min Scan# 372
Delta R.T. 0.02 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
119	93.2	73.4	110.2	
121	26.2	27.4	41.0	





#39

Methvlcvclohexane

Concen: 22.256 ug/l

RT: 5.66 min Scan# 520

Delta R.T. 0.03 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

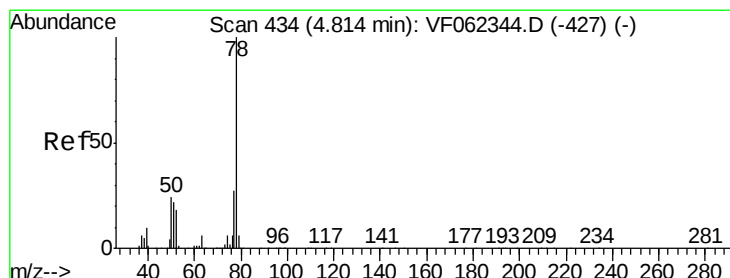
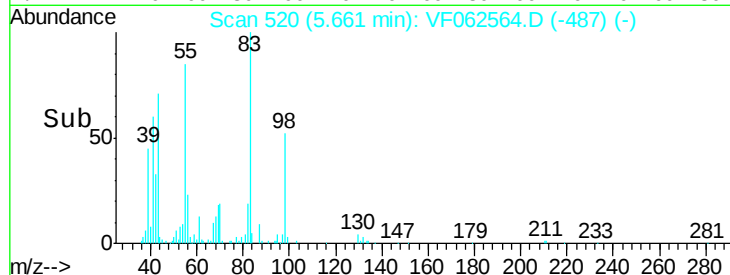
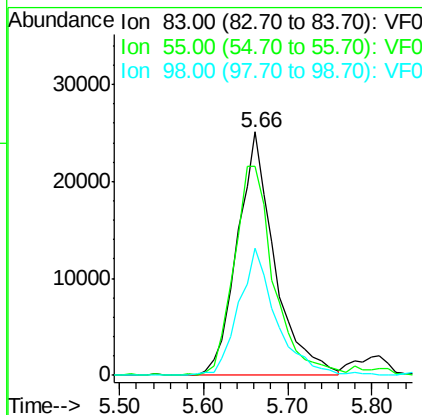
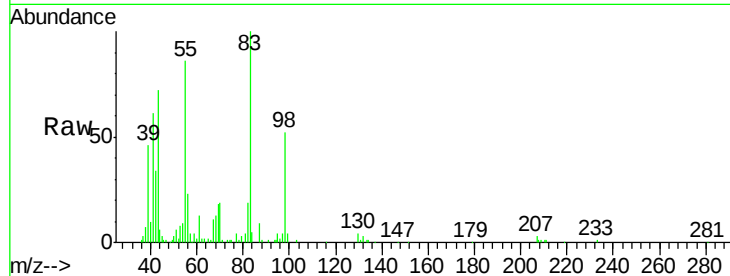
ClientSampleId :

VF0513SBS02

Tot Ion:	83	Resp:	77328
Ion	Ratio	Lower	Upper
83	100		
55	84.9	69.0	103.6
98	52.1	38.6	58.0

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#40

Benzene

Concen: 22.898 ug/l

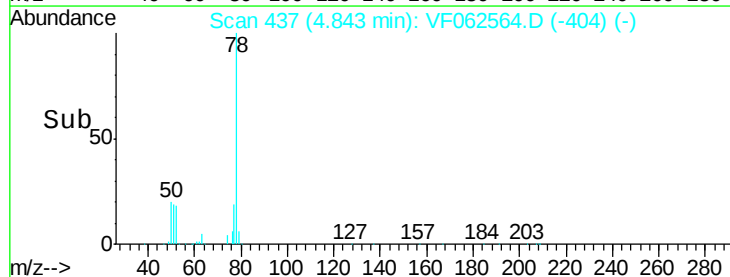
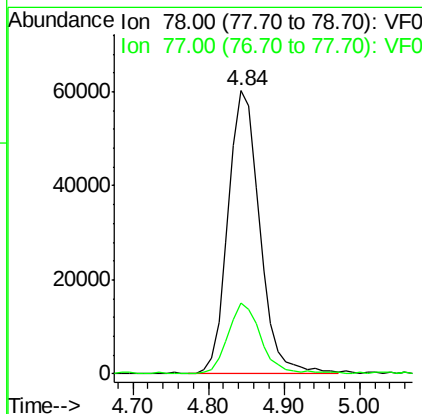
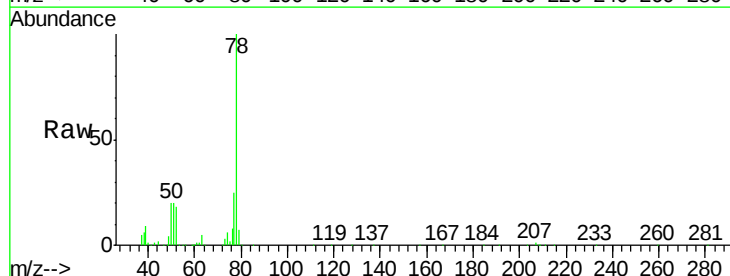
RT: 4.84 min Scan# 437

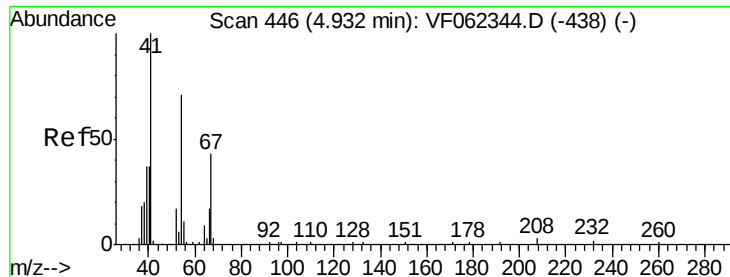
Delta R.T. 0.03 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Tgt Ion:	78	Resp:	174686
Ion	Ratio	Lower	Upper
78	100		
77	24.5	21.6	32.4





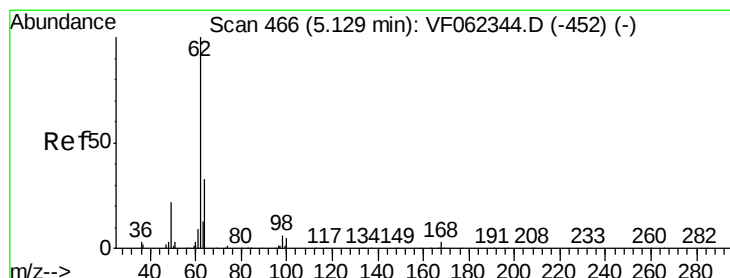
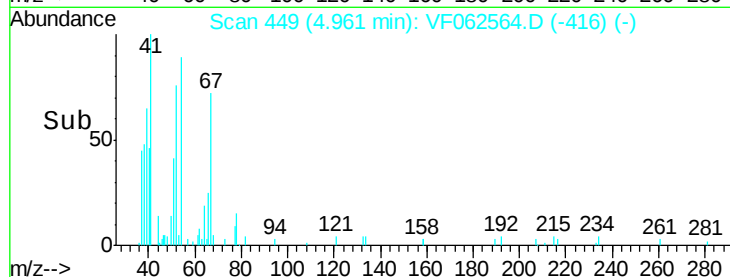
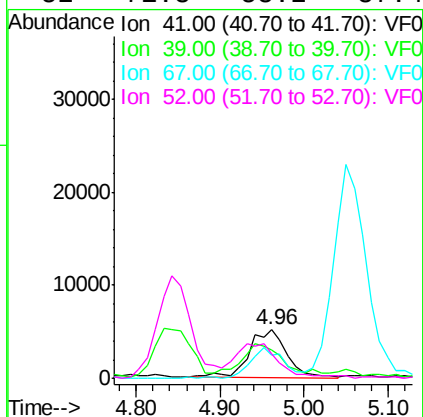
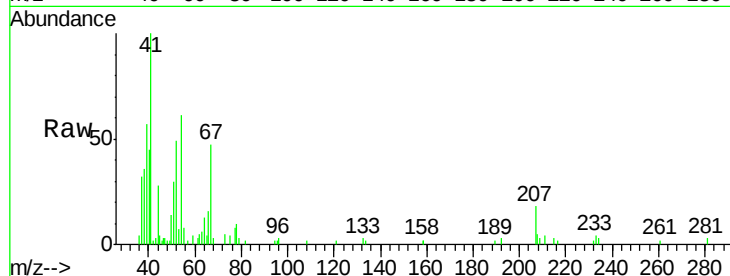
#41
Methacrylonitrile
Concen: 19.457 ug/l
RT: 4.96 min Scan# 449
Delta R.T. 0.03 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		16163		
39	77.8	54.3	81.5		
67	54.9	37.8	56.8		
52	71.8	58.2	87.4		

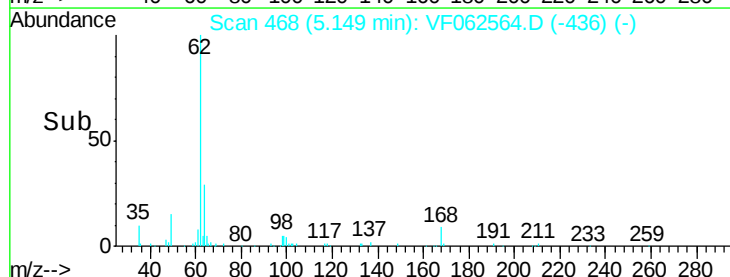
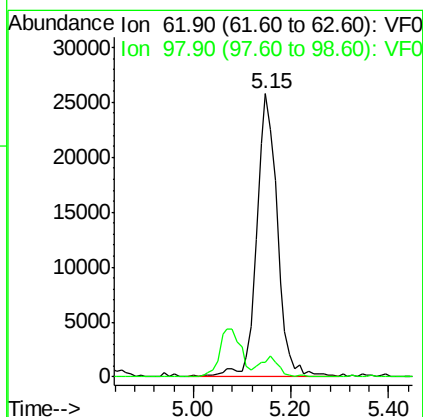
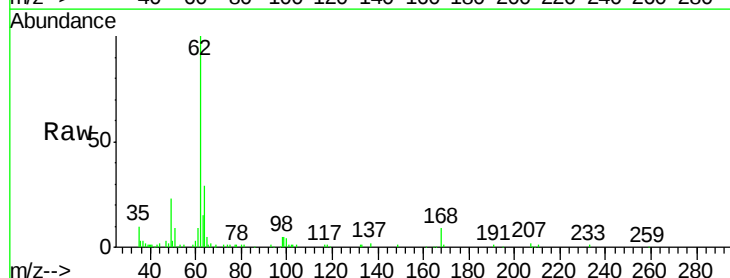
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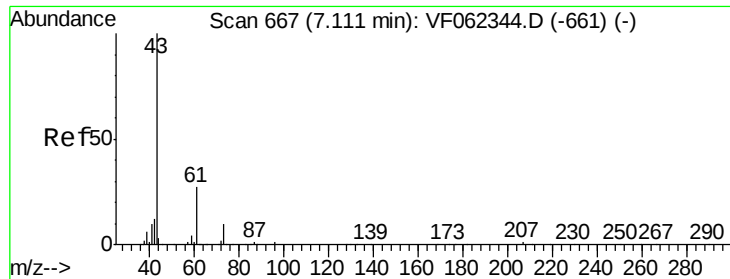
MMDadoda
5/14/2019 11:05:16 AM



#42
1,2-Dichloroethane
Concen: 23.844 ug/l
RT: 5.15 min Scan# 468
Delta R.T. 0.02 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		76080		
98	6.5	0.0	12.4		





#43

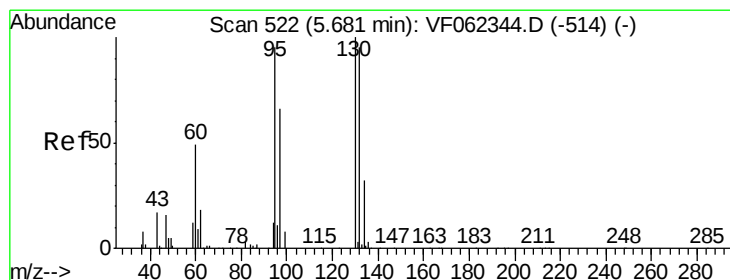
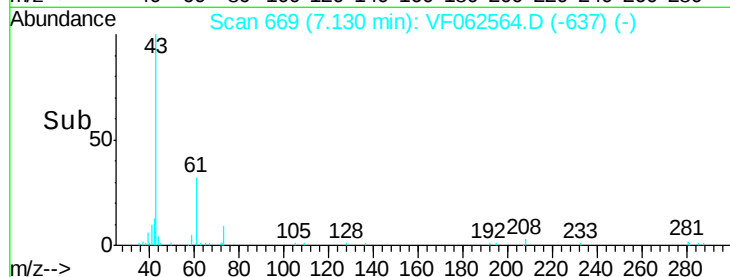
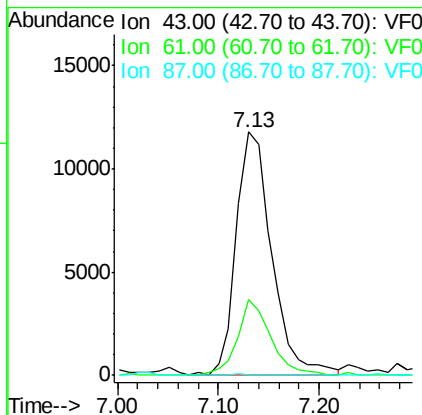
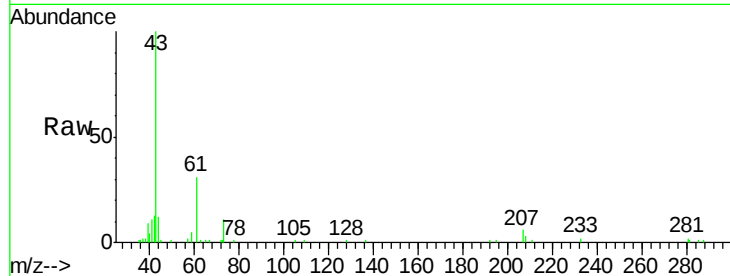
Isopropyl Acetate
 Concen: 18.485 ug/l
 RT: 7.13 min Scan# 669
 Delta R.T. 0.02 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0513SBS02

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.8	22.8	34.2
87	0.2	0.6	1.0

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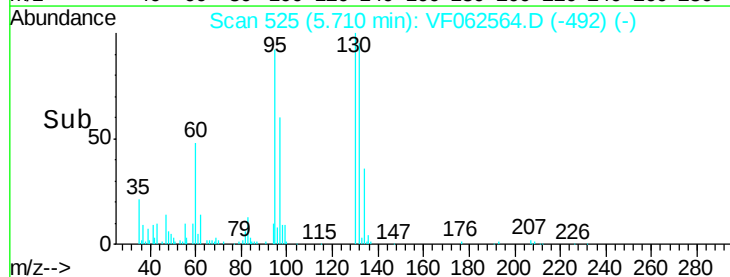
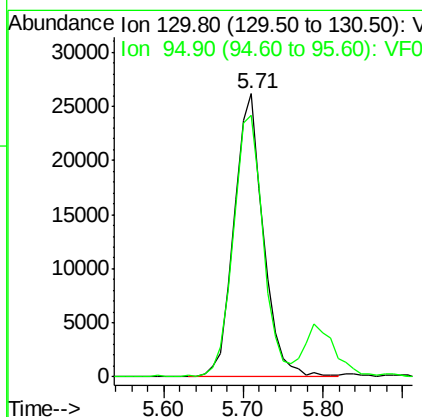
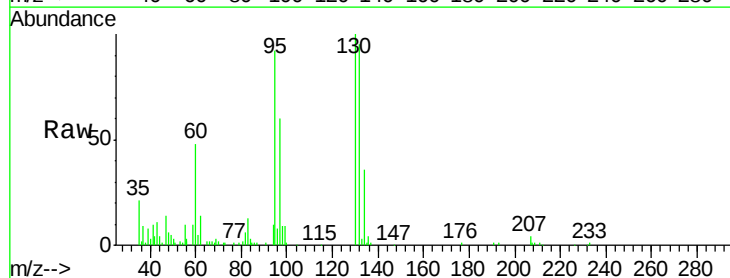
MMDadoda
 5/14/2019 11:05:16 AM

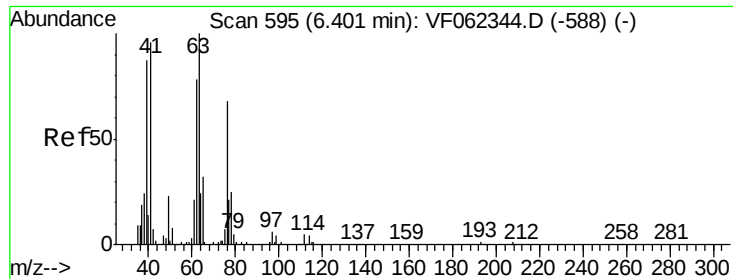


#44

Trichloroethene
 Concen: 23.851 ug/l
 RT: 5.71 min Scan# 525
 Delta R.T. 0.03 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

Tgt Ion	Ratio	Lower	Upper
130	100		
95	91.8	0.0	189.0





#45

1,2-Dichloropropane

Concen: 22.673 ug/l

RT: 6.43 min Scan# 598

Delta R.T. 0.03 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS02

Tot Ion: 63 Resp: 39178

Ion Ratio Lower Upper

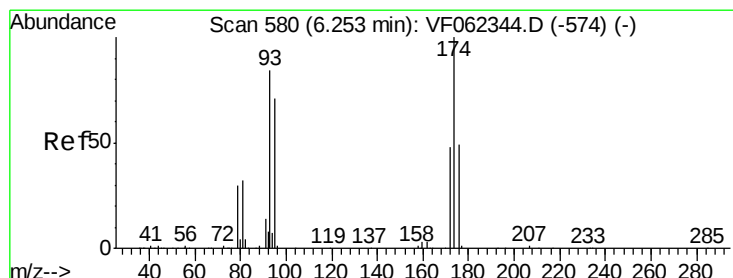
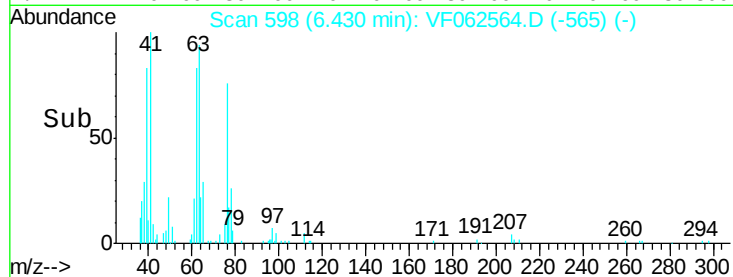
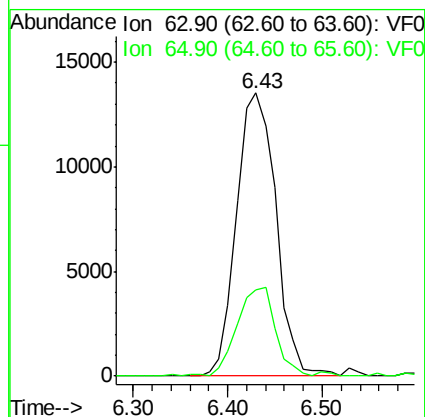
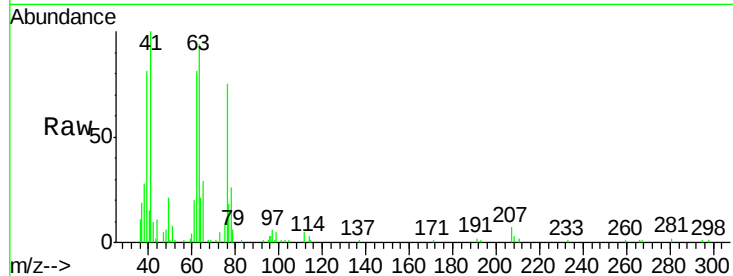
63 100

65 30.6 25.6 38.4

Manual Integrations
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#46

Dibromomethane

Concen: 22.614 ug/l

RT: 6.28 min Scan# 583

Delta R.T. 0.03 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

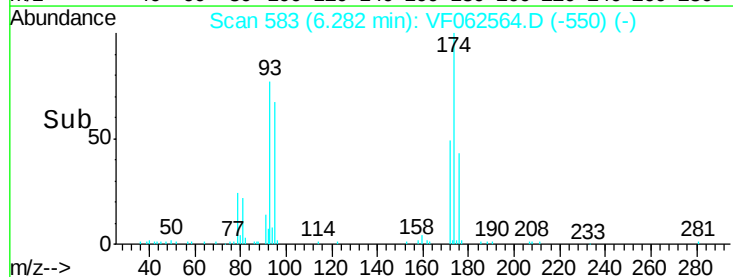
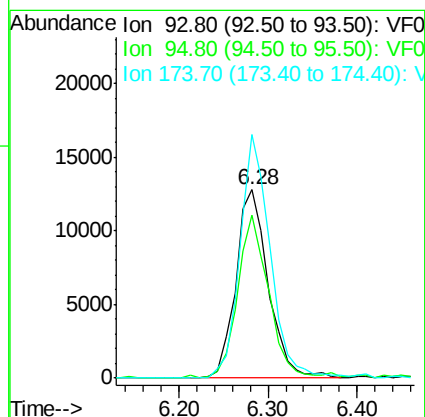
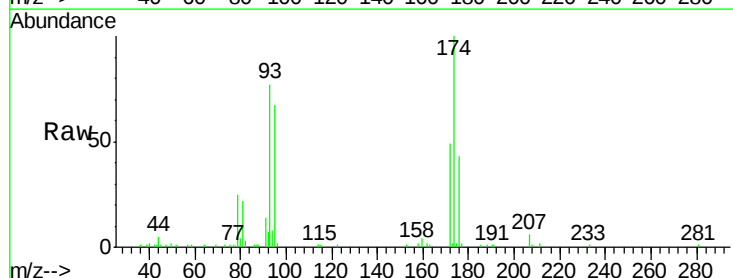
Tgt Ion: 93 Resp: 32399

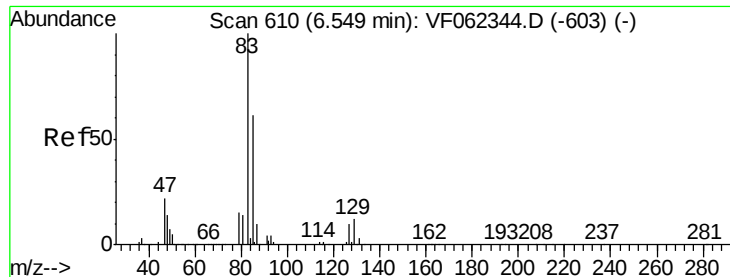
Ion Ratio Lower Upper

93 100

95 82.8 68.4 102.6

174 119.9 99.6 149.4





#47

Bromodichloromethane

Concen: 23.258 ug/l

RT: 6.58 min Scan# 613

Delta R.T. 0.03 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

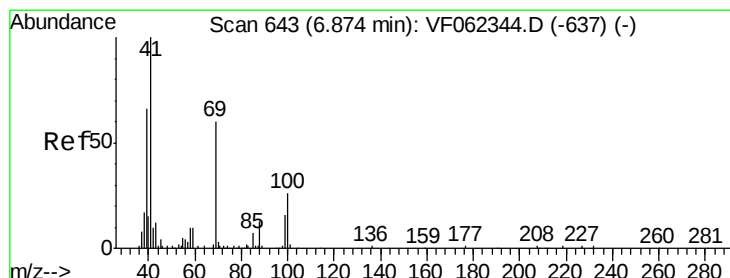
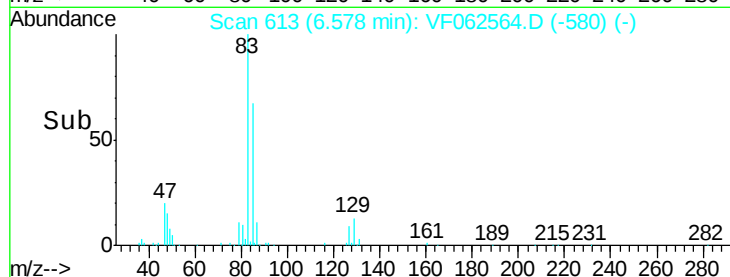
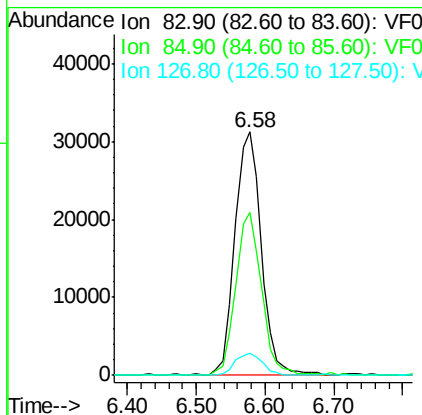
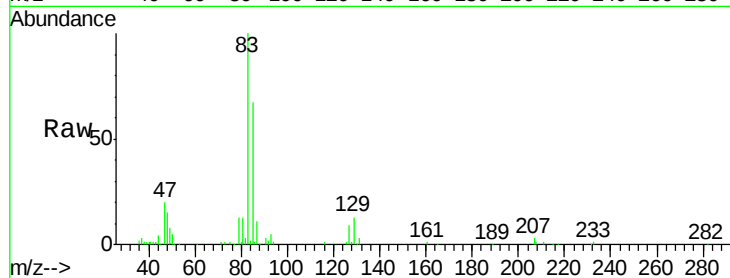
ClientSampleId :

VF0513SBS02

Tot Ion:	83	Resp:	83309
Ion Ratio	Lower	Upper	
83	100		
85	66.8	49.1	73.7
127	9.3	7.8	11.8

Manual Integrations
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#48

Methyl methacrylate

Concen: 20.096 ug/l

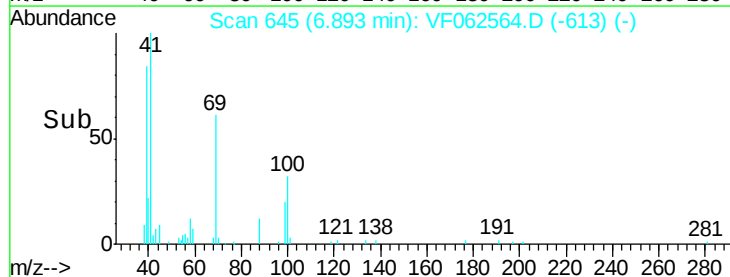
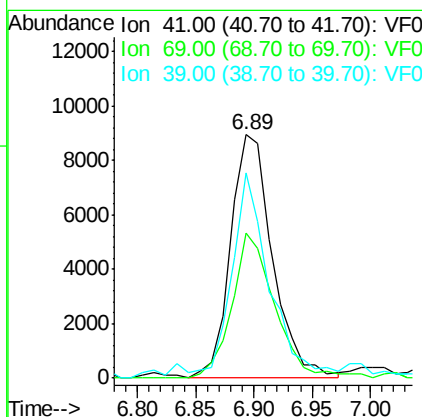
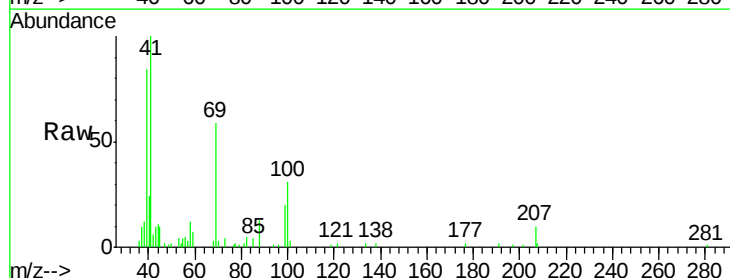
RT: 6.89 min Scan# 645

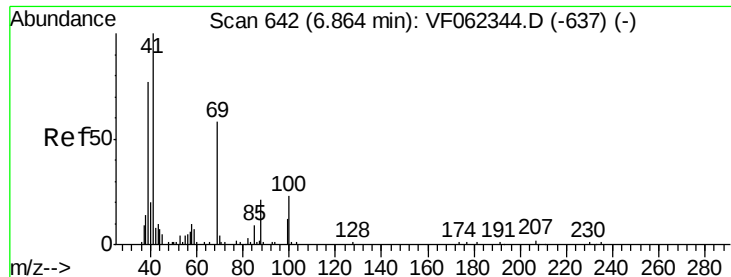
Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Tgt Ion:	41	Resp:	22379
Ion Ratio	Lower	Upper	
41	100		
69	60.8	48.6	72.8
39	72.6	56.1	84.1





#49

1,4-Dioxane

Concen: 317.278 ug/l

RT: 6.88 min Scan# 644

Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

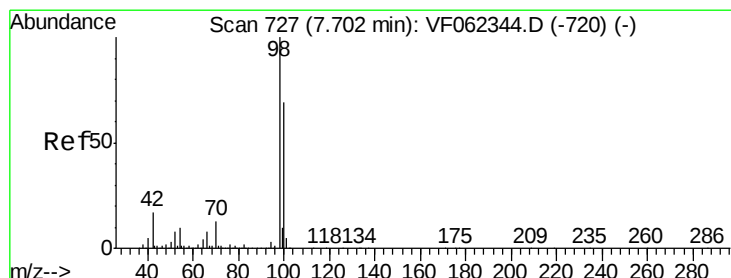
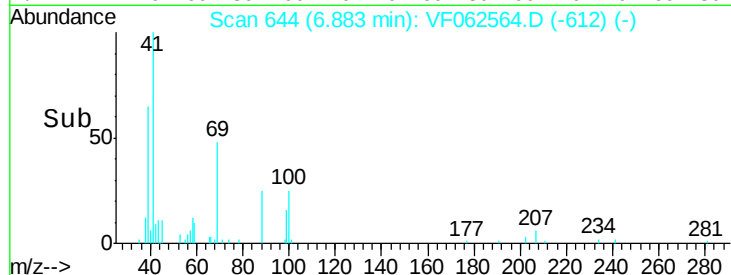
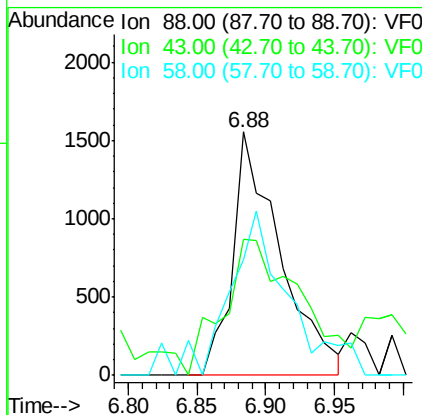
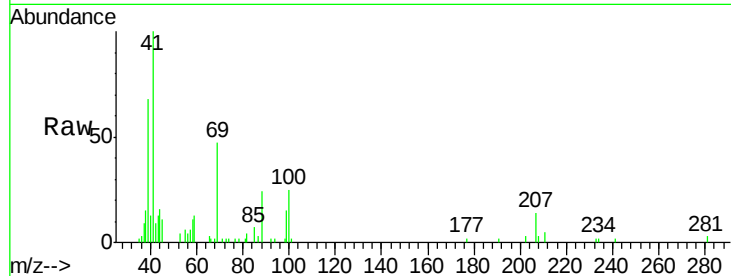
ClientSampleId :

VF0513SBS02

Tot Ion:	88	Resp:	3736
Ion	Ratio	Lower	Upper
88	100		
43	90.9	55.6	83.4#
58	83.3	52.8	79.2#

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#50

Toluene-d8

Concen: 46.140 ug/l

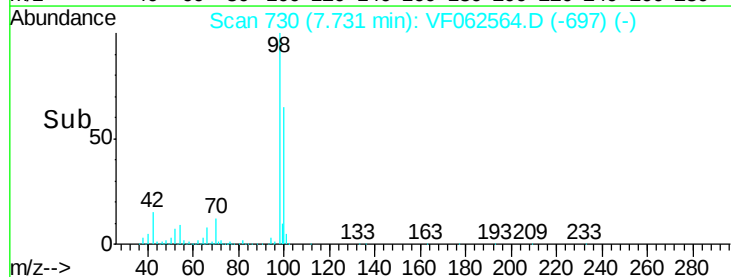
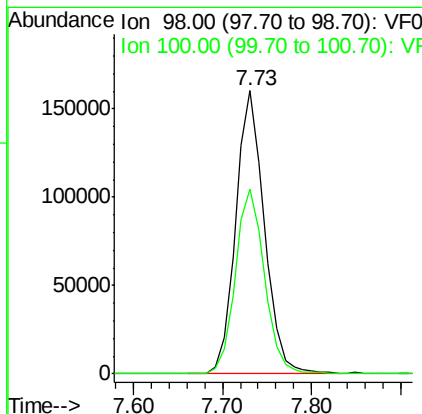
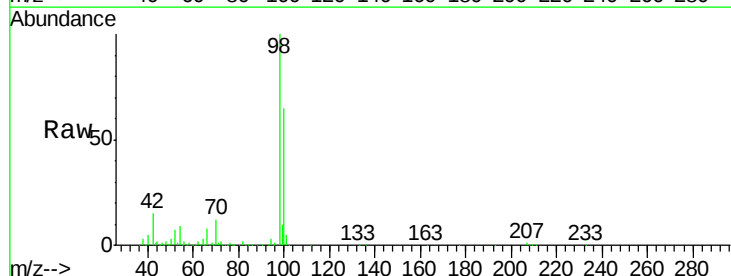
RT: 7.73 min Scan# 730

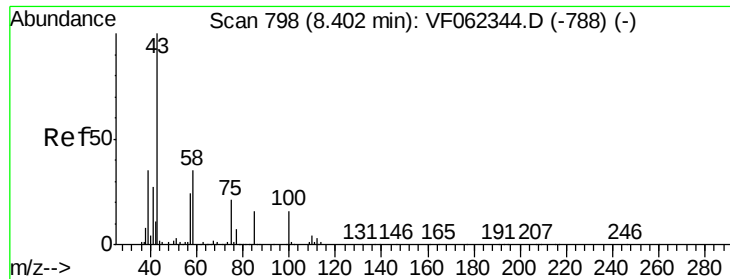
Delta R.T. 0.03 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Tgt Ion:	98	Resp:	358851
Ion	Ratio	Lower	Upper
98	100		
100	66.7	53.3	79.9





#51

4-Methyl-2-Pentanone

Concen: 107.663 ug/l

RT: 8.42 min Scan# 800

Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS02

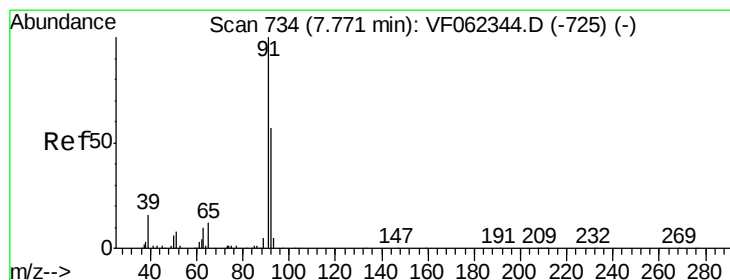
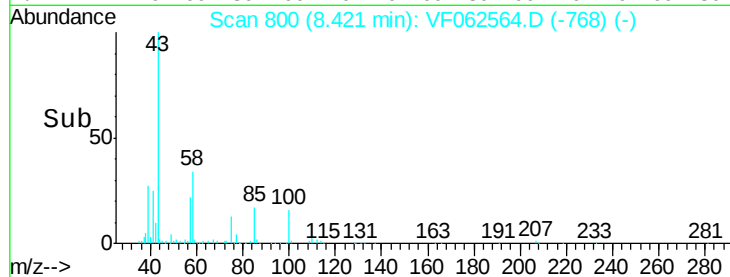
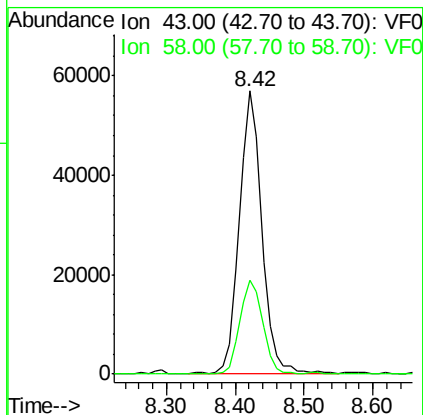
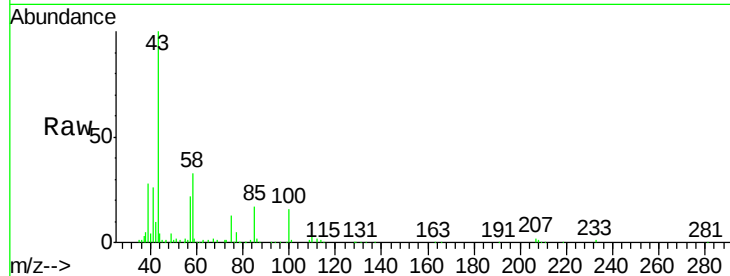
Tot Ion: 43 Resp: 128555
Ion Ratio Lower Upper

43 100

58 34.1 27.8 41.6

Manual Integrations
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5/14/2019 11:05:16 AM



#52

Toluene

Concen: 22.423 ug/l

RT: 7.80 min Scan# 737

Delta R.T. 0.03 min

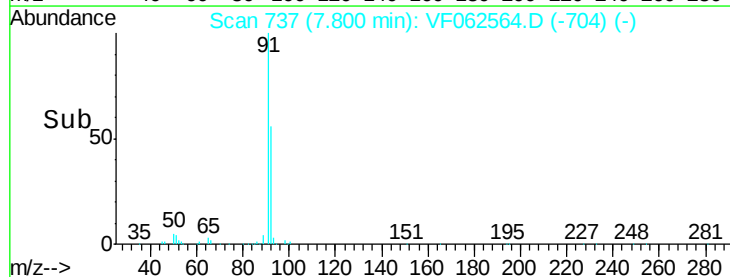
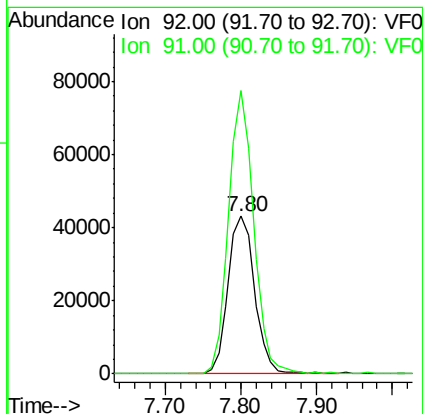
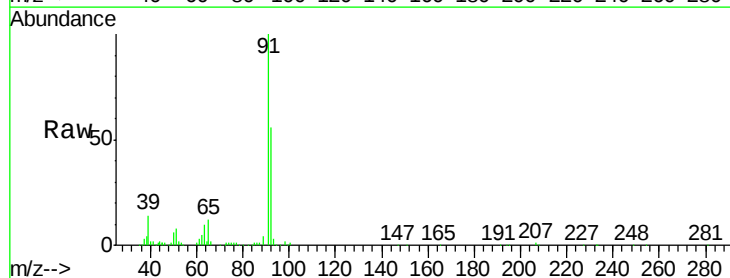
Lab File: VF062564.D

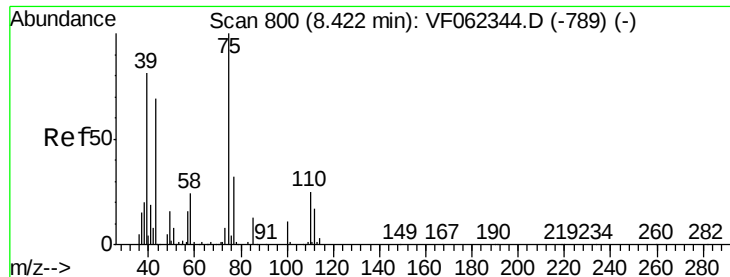
Acq: 14 May 2019 3:07

Tgt Ion: 92 Resp: 105532
Ion Ratio Lower Upper

92 100

91 168.3 138.7 208.1





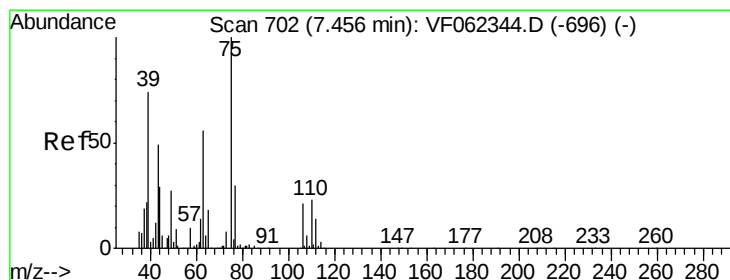
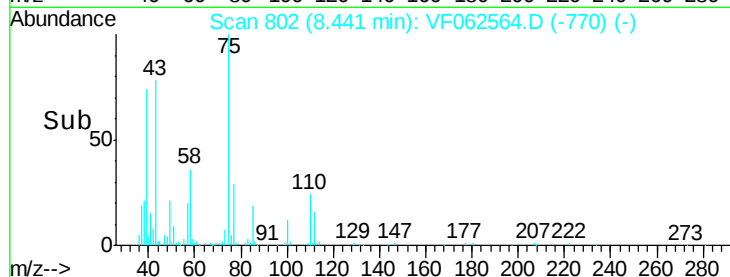
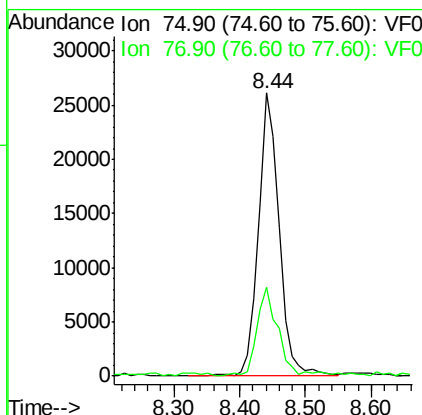
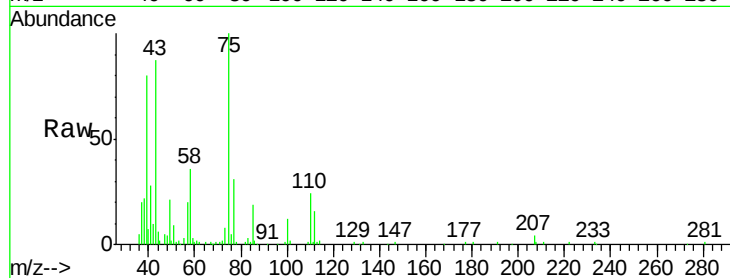
#53
t-1,3-Dichloropropene
Concen: 21.368 ug/l
RT: 8.44 min Scan# 802
Delta R.T. 0.02 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS02

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.3	25.4	38.0

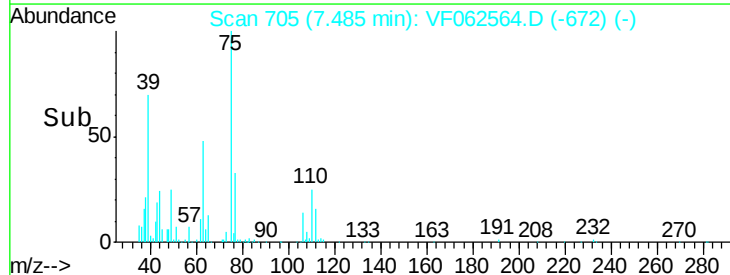
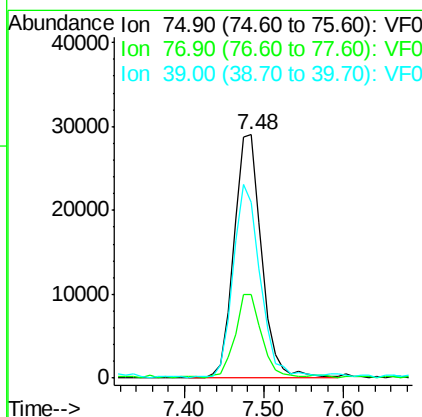
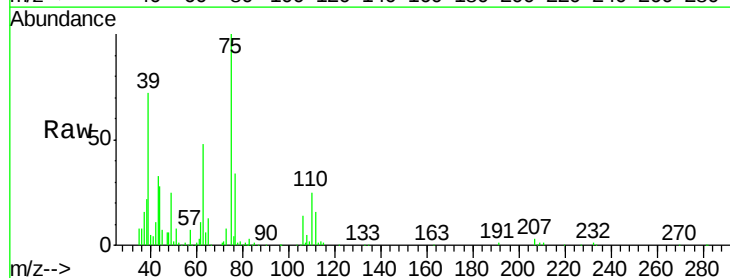
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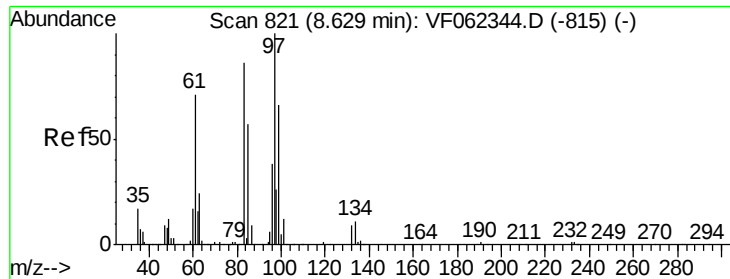
MMDadoda
5/14/2019 11:05:16 AM



#54
cis-1,3-Dichloropropene
Concen: 22.387 ug/l
RT: 7.48 min Scan# 705
Delta R.T. 0.03 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Tgt Ion	Ratio	Lower	Upper
75	100		
77	34.2	24.0	36.0
39	72.0	58.7	88.1





#55

1,1,2-Trichloroethane

Concen: 22.202 ug/l

RT: 8.66 min Scan# 824

Delta R.T. 0.03 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

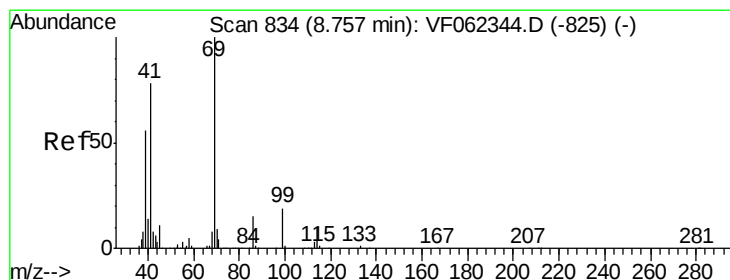
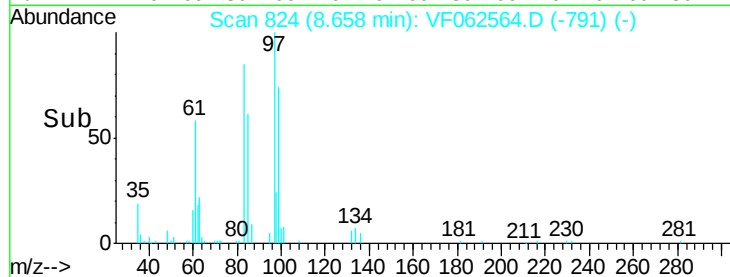
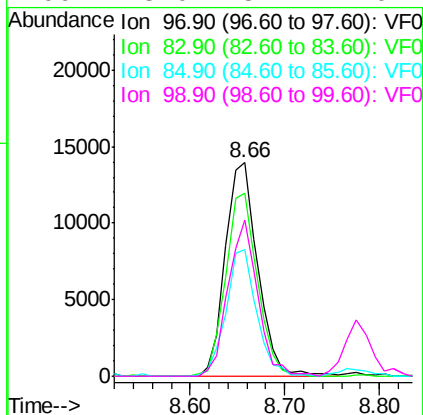
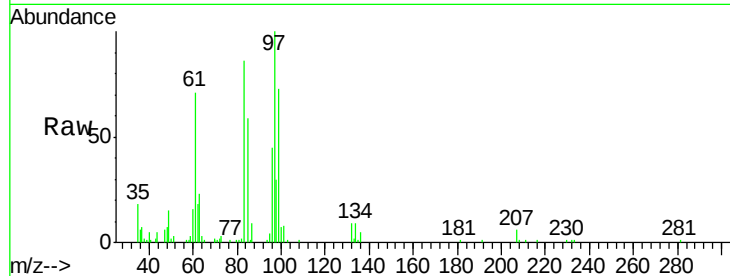
ClientSampleId :

VF0513SBS02

Tot Ion:	97	Resp:	33170
Ion	Ratio	Lower	Upper
97	100		
83	85.6	68.5	102.7
85	59.4	45.4	68.2
99	73.0	52.7	79.1

Manual Integrations
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#56

Ethyl methacrylate

Concen: 20.780 ug/l

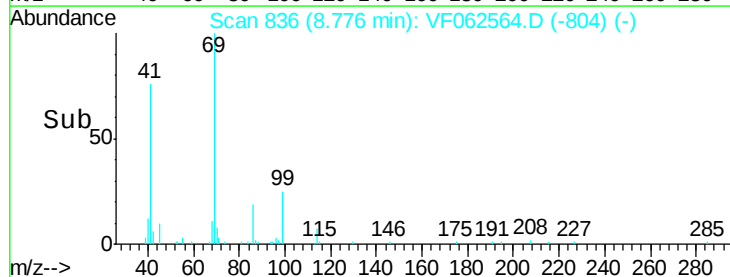
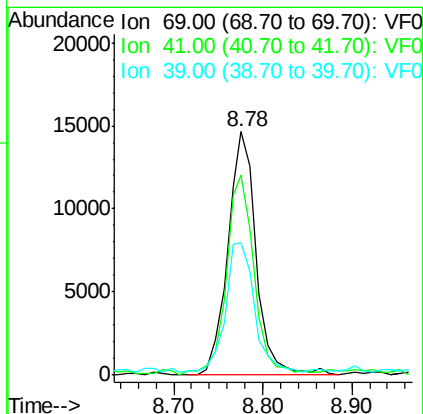
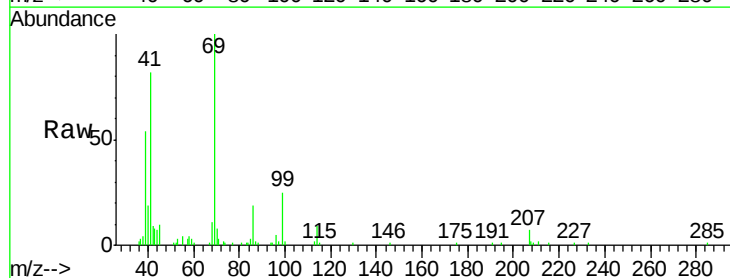
RT: 8.78 min Scan# 836

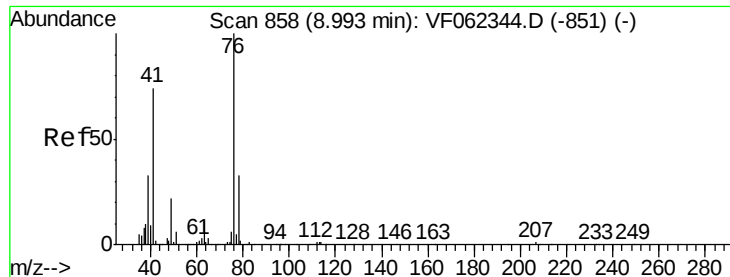
Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Tgt Ion:	69	Resp:	32772
Ion	Ratio	Lower	Upper
69	100		
41	81.1	66.3	99.5
39	54.3	50.1	75.1





#57

1,3-Dichloropropane

Concen: 24.139 ug/l

RT: 9.01 min Scan# 860

Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS02

Tot Ion: 76 Resp: 54476

Ion Ratio Lower Upper

76 100

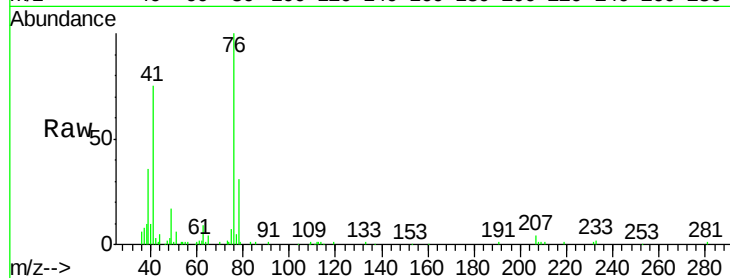
78 32.4 26.4 39.6

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5/14/2019 11:05:16 AM



Abundance Ion 75.90 (75.60 to 76.60): VF0

Ion 77.90 (77.60 to 78.60): VF0

9.01

25000

20000

15000

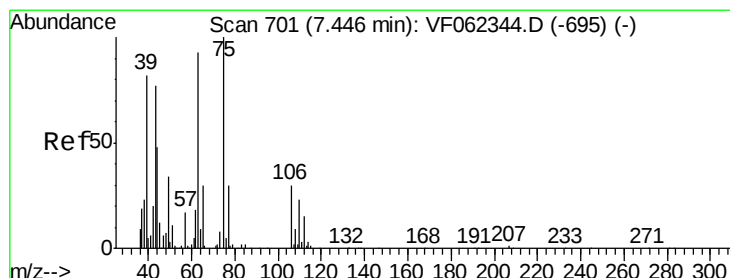
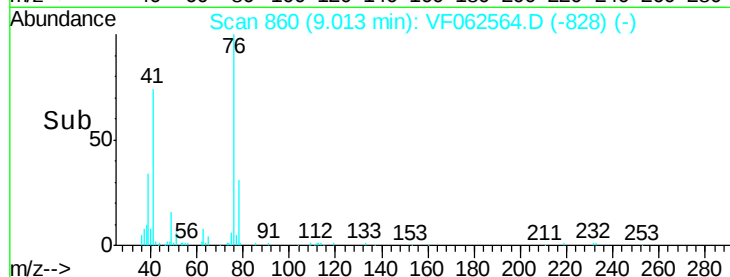
10000

5000

0

8.90 9.00 9.10

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 105.084 ug/l

RT: 7.46 min Scan# 703

Delta R.T. 0.02 min

Lab File: VF062564.D

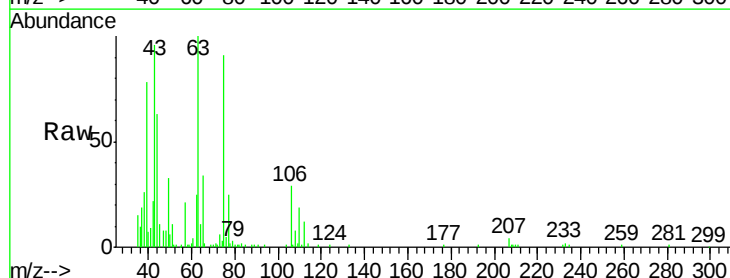
Acq: 14 May 2019 3:07

Tgt Ion: 63 Resp: 49825

Ion Ratio Lower Upper

63 100

106 29.6 25.8 38.8



Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 105.90 (105.60 to 106.60): V

7.46

25000

20000

15000

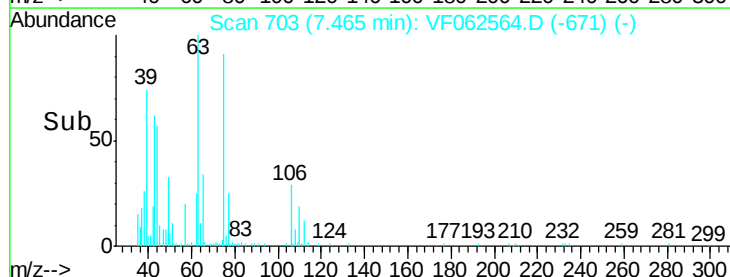
10000

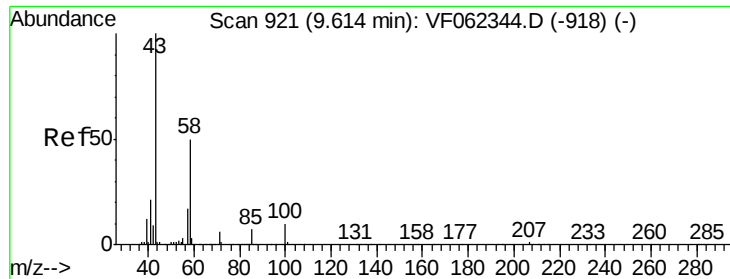
5000

0

7.40 7.50 7.60

Time-->





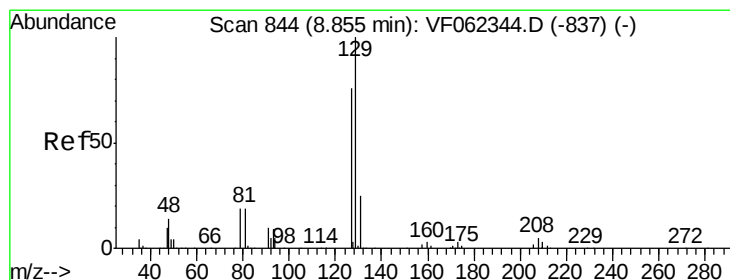
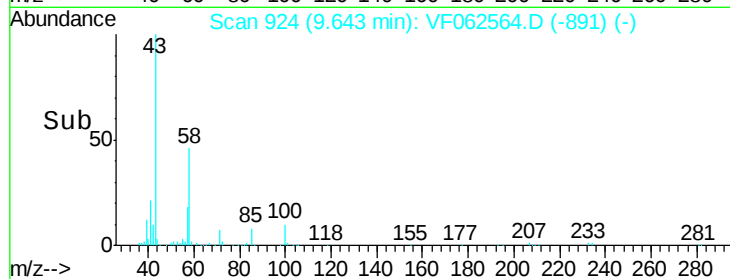
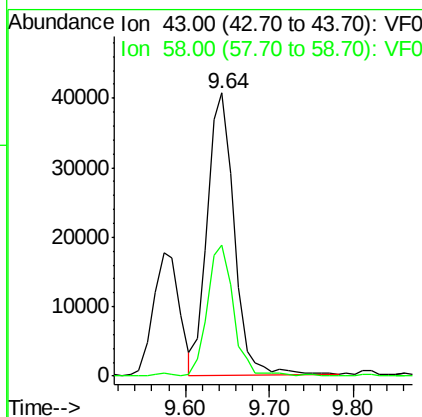
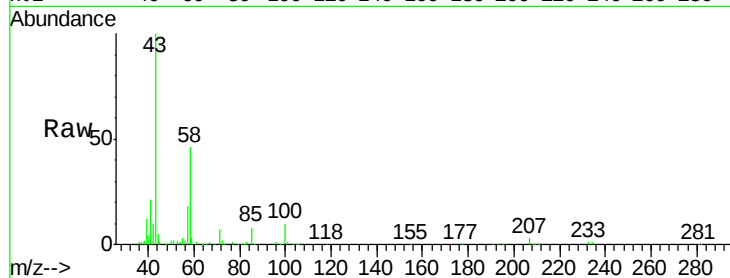
#59
2-Hexanone
Concen: 109.236 ug/l
RT: 9.64 min Scan# 924
Delta R.T. 0.03 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS02

Tot Ion	Ratio	Lower	Upper
43	100		
58	45.5	24.3	73.0

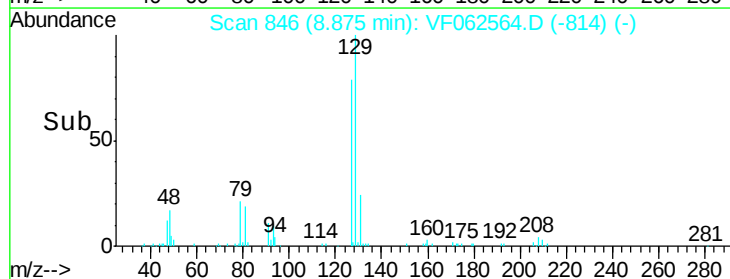
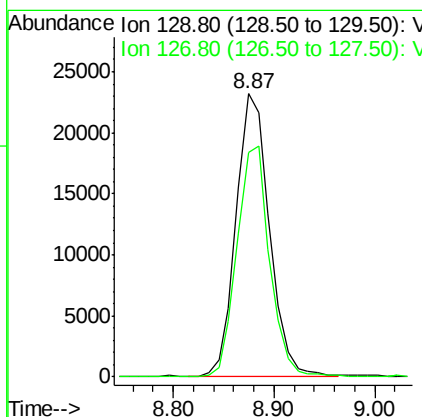
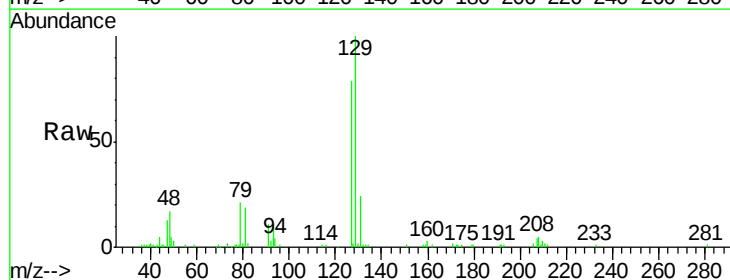
Manual Integrations
APPROVED

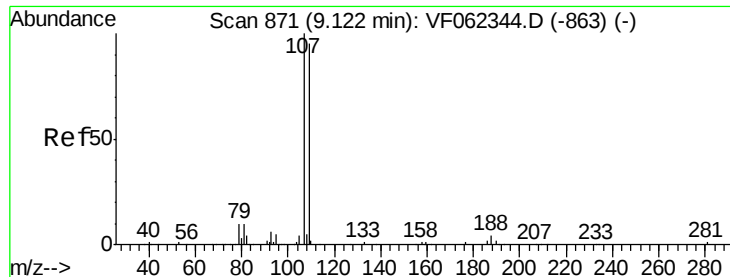
MMDadoda
5/14/2019 11:05:16 AM



#60
Dibromochloromethane
Concen: 21.909 ug/l
RT: 8.87 min Scan# 846
Delta R.T. 0.02 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Tgt Ion	Ratio	Lower	Upper
129	100		
127	80.0	38.5	115.3





#61

1,2-Dibromoethane

Concen: 20.577 ug/l

RT: 9.15 min Scan# 874

Delta R.T. 0.03 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS02

Tot Ion: 107 Resp: 36132

Ion Ratio Lower Upper

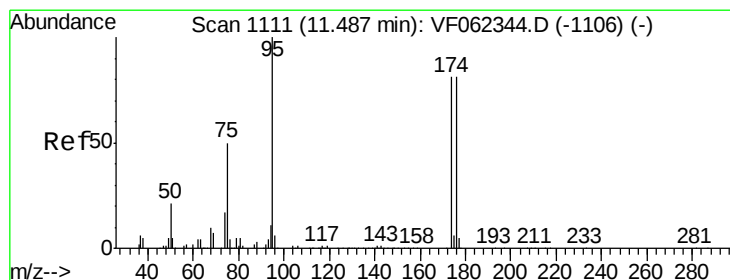
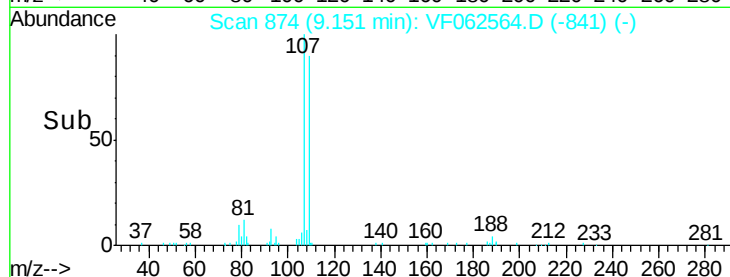
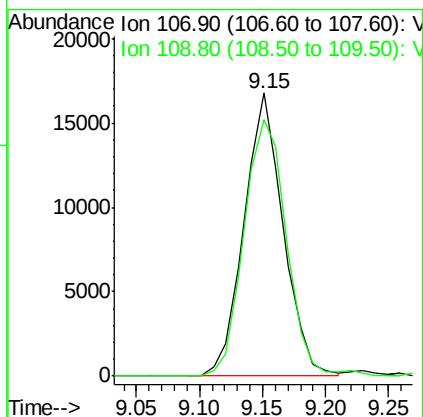
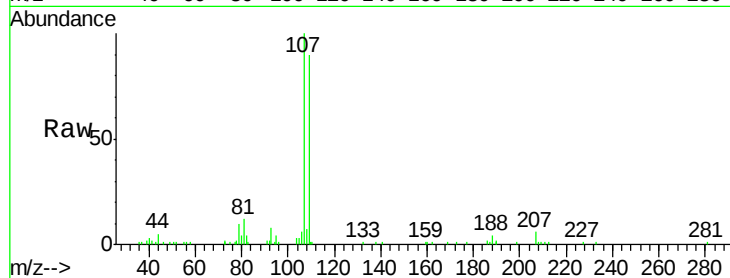
107 100

109 98.6 75.2 112.8

Manual Integrations
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MMDadoda

5/14/2019 11:05:16 AM



#62

4-Bromofluorobenzene

Concen: 46.183 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

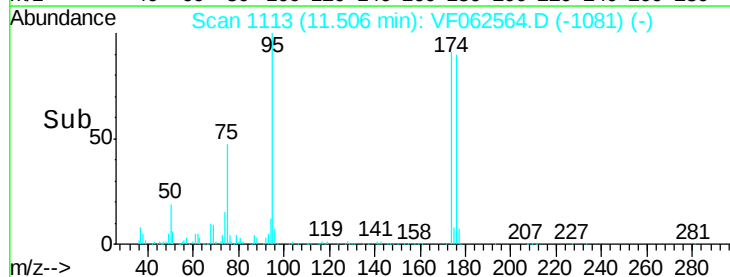
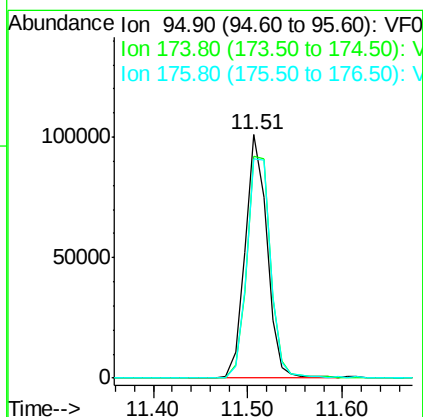
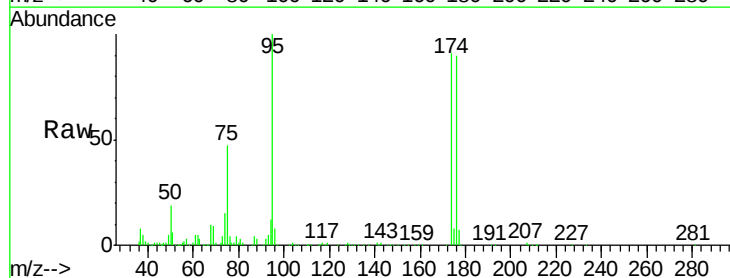
Tgt Ion: 95 Resp: 162053

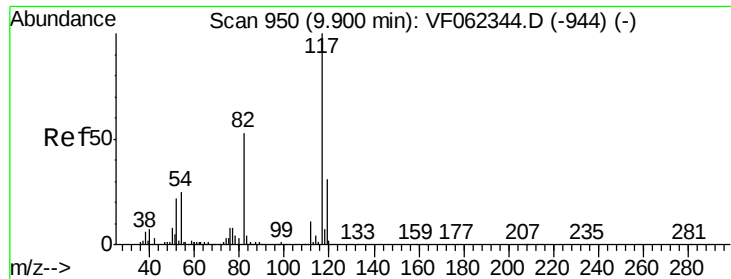
Ion Ratio Lower Upper

95 100

174 99.1 0.0 191.8

176 98.4 0.0 193.2





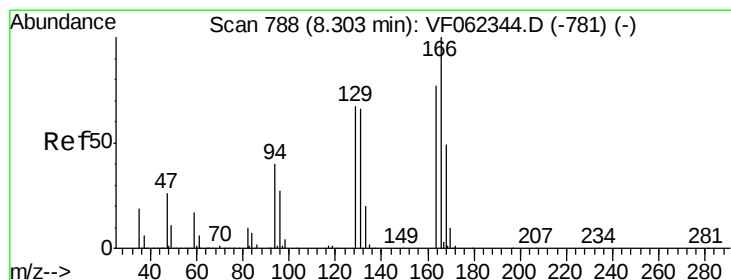
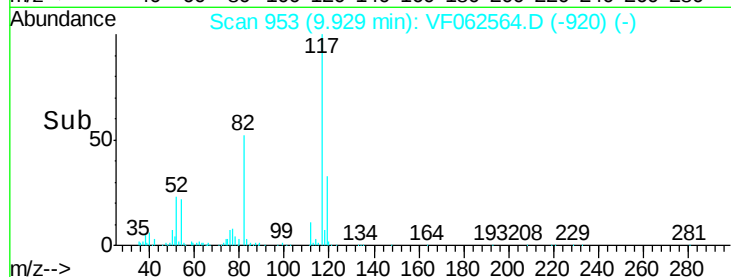
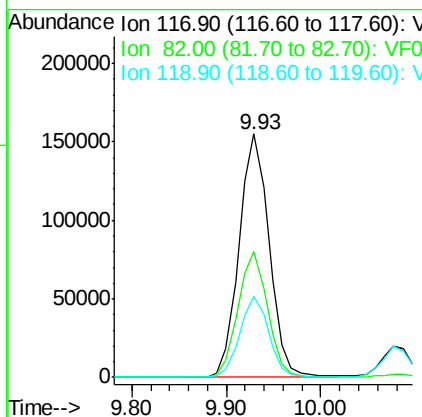
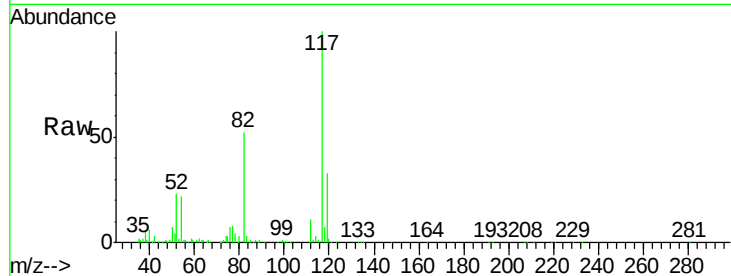
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.93 min Scan# 953
Delta R.T. 0.03 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS02

Tot Ion	Ratio	Resp Lower	Upper
117	100		
82	51.9	42.2	63.2
119	33.2	25.0	37.4

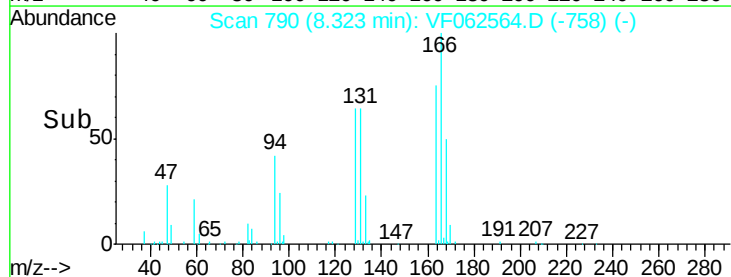
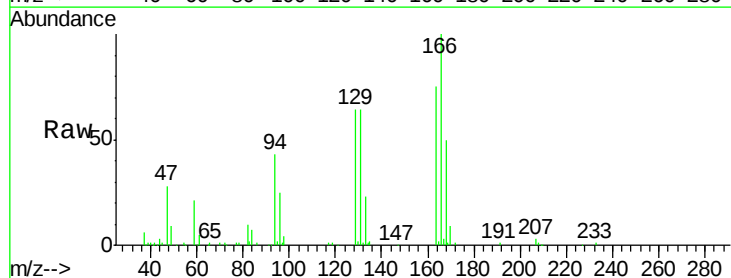
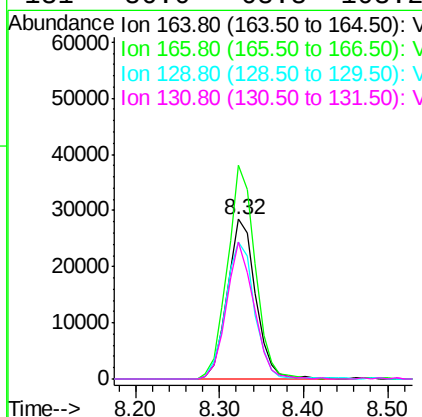
Manual Integrations
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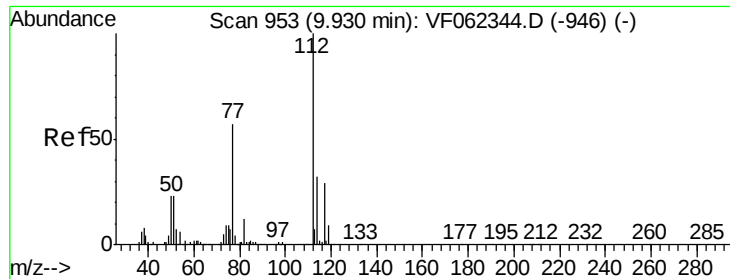
MMDadoda
5/14/2019 11:05:16 AM



#64
Tetrachloroethene
Concen: 23.925 ug/l
RT: 8.32 min Scan# 790
Delta R.T. 0.02 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Tgt Ion	Ratio	Resp Lower	Upper
164	100		
166	133.6	104.2	156.4
129	85.6	69.6	104.4
131	86.0	68.8	103.2





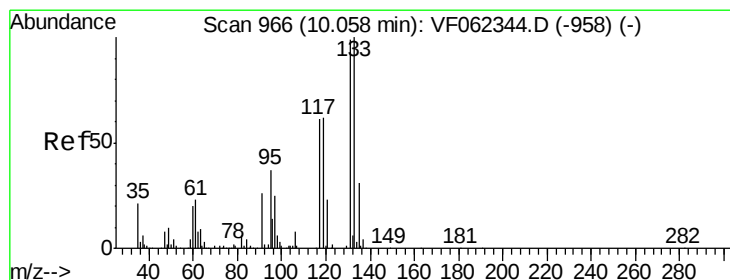
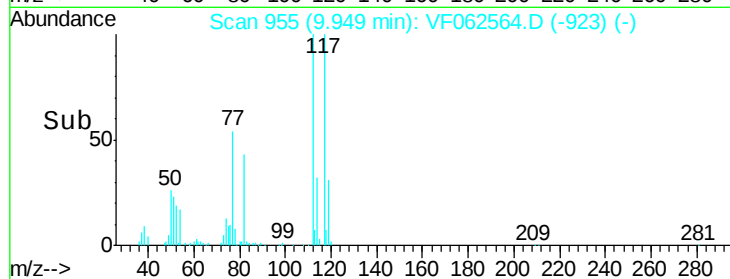
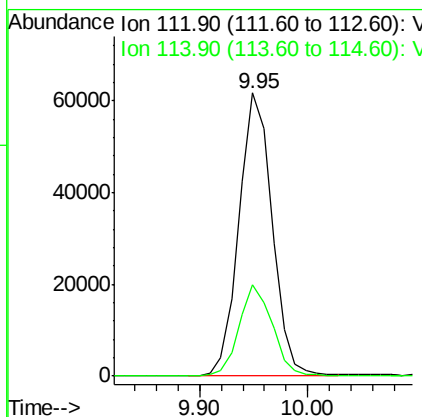
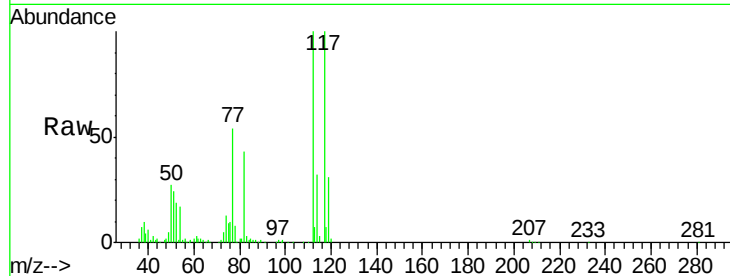
#65
Chlorobenzene
Concen: 23.430 ug/l
RT: 9.95 min Scan# 955
Delta R.T. 0.02 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
112	100		132777		
114	32.1	25.4	38.0		

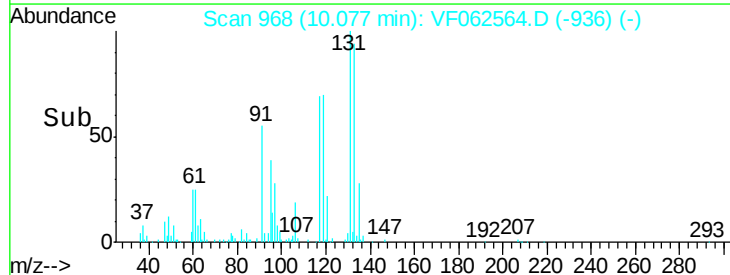
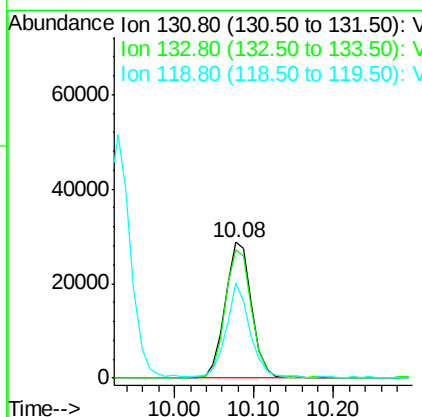
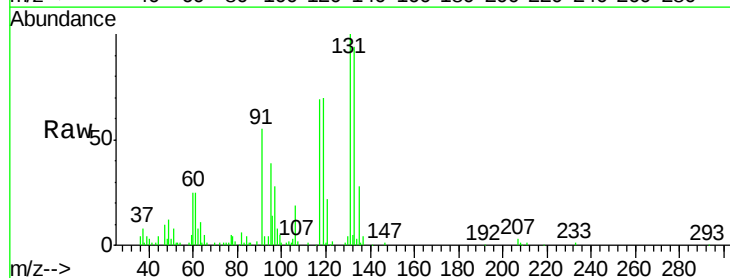
Manual Integrations
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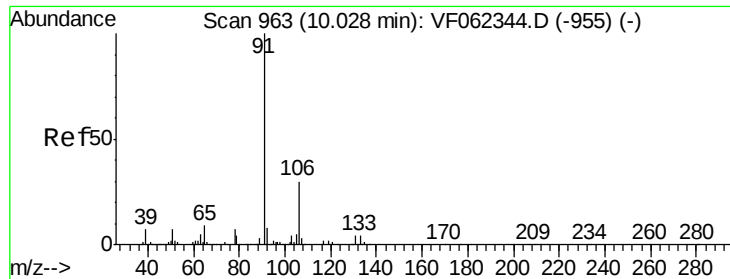
MMDadoda
5/14/2019 11:05:16 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 23.485 ug/l
RT: 10.08 min Scan# 968
Delta R.T. 0.02 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
131	100		67139		
133	95.2	50.2	150.7		
119	64.0	31.6	95.0		





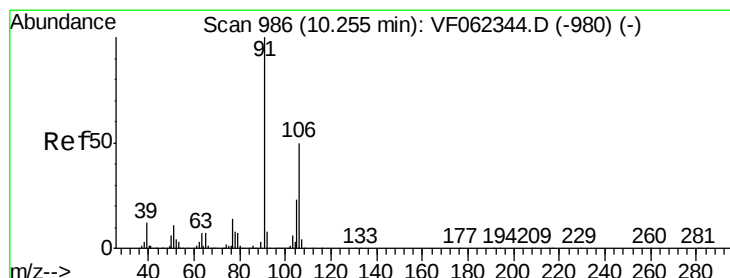
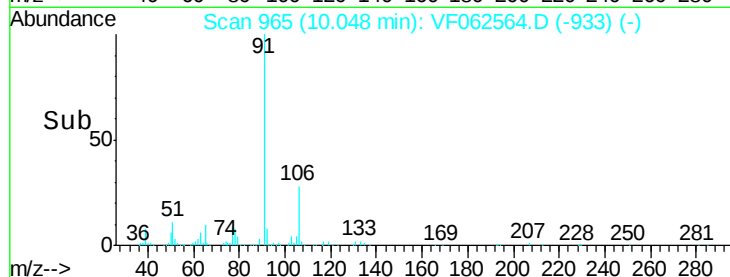
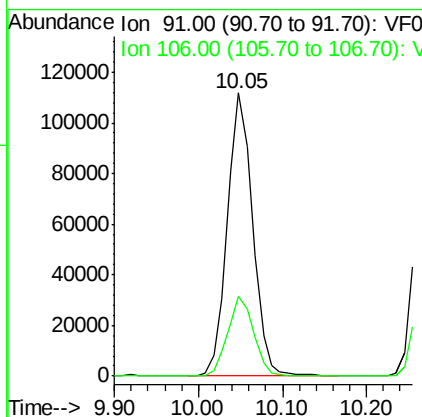
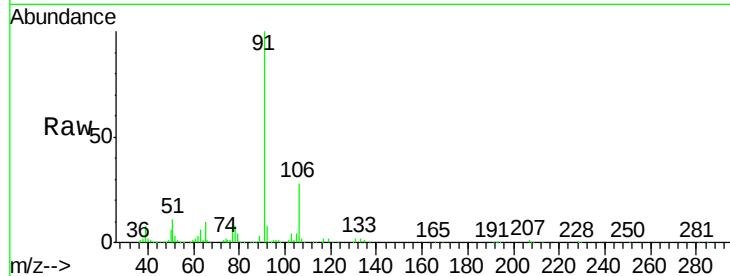
#67
Ethyl Benzene
Concen: 23.629 ug/l
RT: 10.05 min Scan# 965
Delta R.T. 0.02 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS02

Tot Ion: 91 Resp: 234476
Ion Ratio Lower Upper
91 100
106 28.2 24.1 36.1

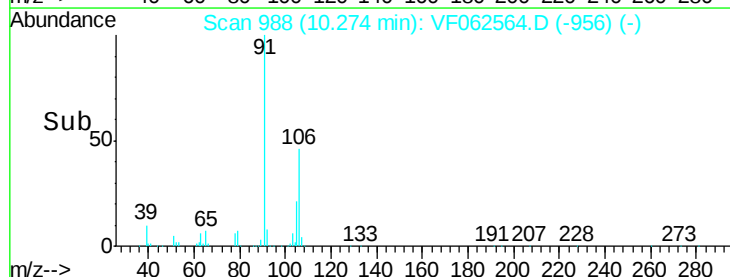
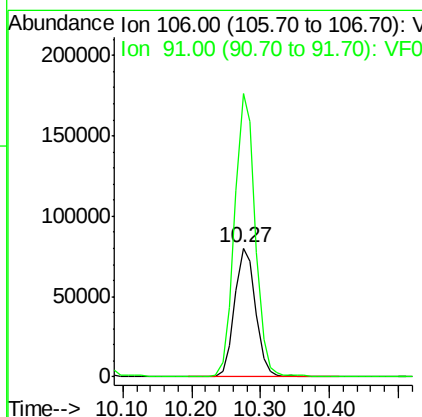
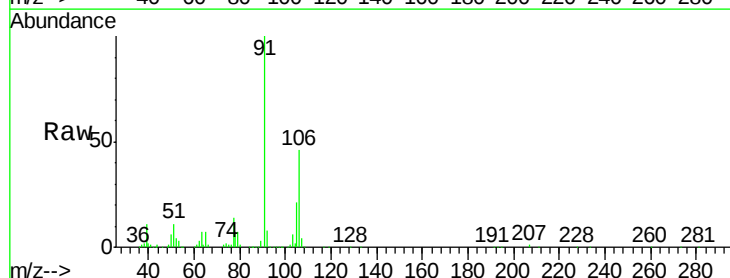
Manual Integrations
APPROVED

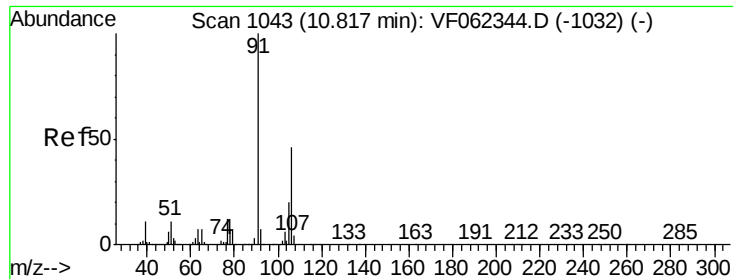
MMDadoda
5/14/2019 11:05:16 AM



#68
m/p-Xylenes
Concen: 46.418 ug/l
RT: 10.27 min Scan# 988
Delta R.T. 0.02 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Tgt Ion: 106 Resp: 169952
Ion Ratio Lower Upper
106 100
91 214.9 167.4 251.2





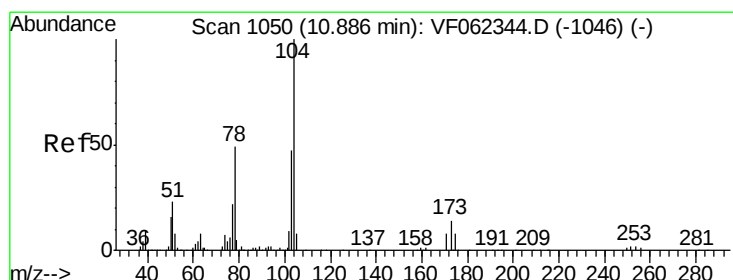
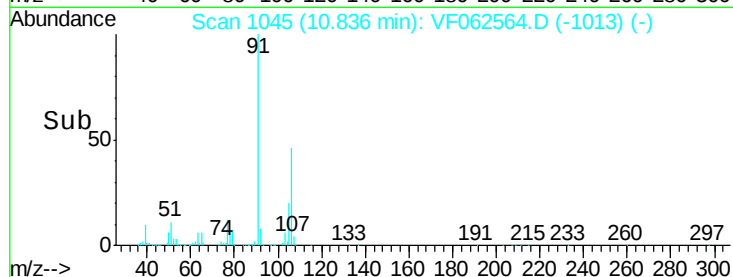
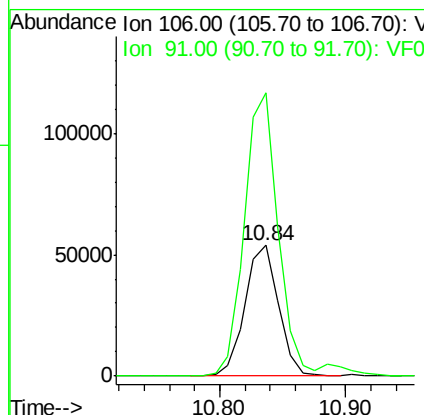
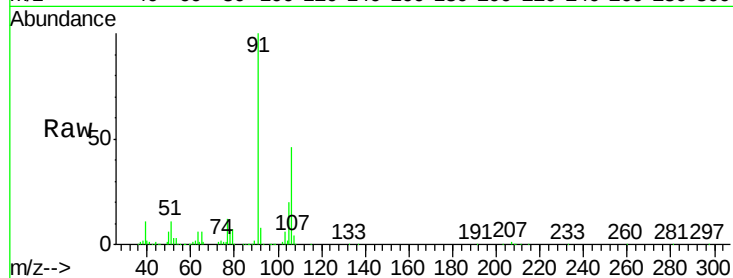
#69
o-Xylene
Concen: 25.227 ug/l
RT: 10.84 min Scan# 1045
Delta R.T. 0.02 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS02

Tot Ion:106 Resp: 99806
Ion Ratio Lower Upper
106 100
91 215.7 111.3 333.8

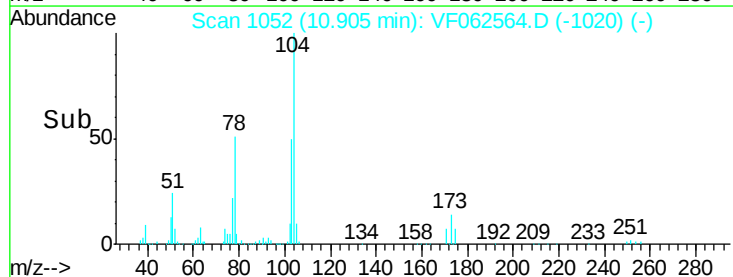
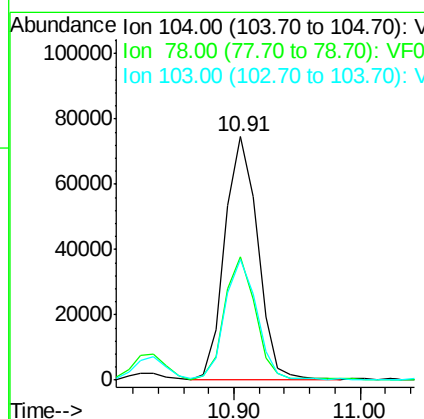
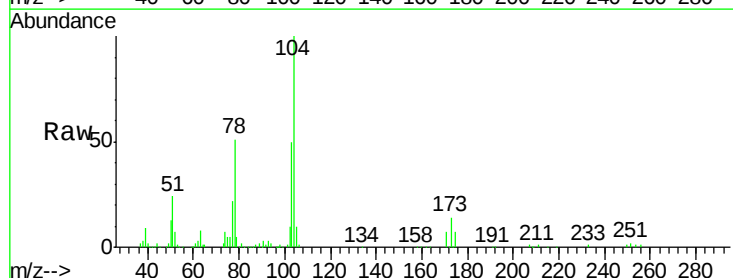
Manual Integrations
APPROVED

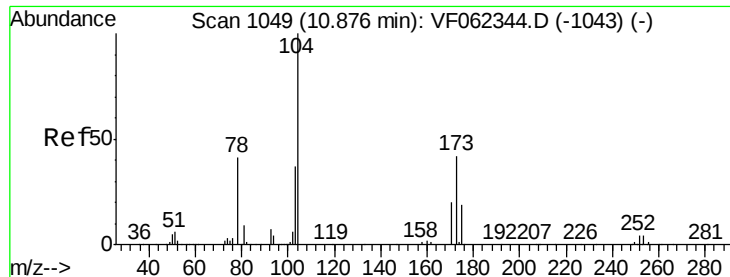
MMDadoda
5/14/2019 11:05:16 AM



#70
Styrene
Concen: 22.543 ug/l
RT: 10.91 min Scan# 1052
Delta R.T. 0.02 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Tgt Ion:104 Resp: 133666
Ion Ratio Lower Upper
104 100
78 48.7 39.5 59.3
103 48.9 38.4 57.6





#71

Bromoform

Concen: 20.872 ug/l

RT: 10.90 min Scan# 1051

Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS02

Tot Ion:173 Resp: 32690

Ion Ratio Lower Upper

173 100

175 48.1 23.8 71.2

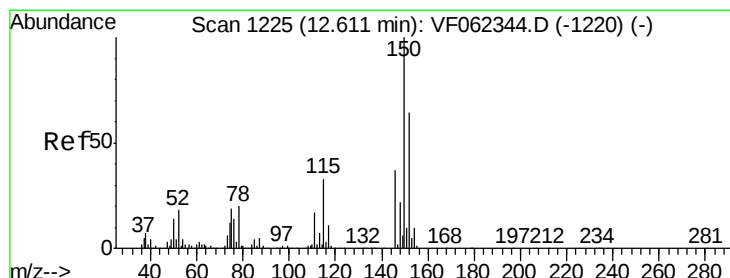
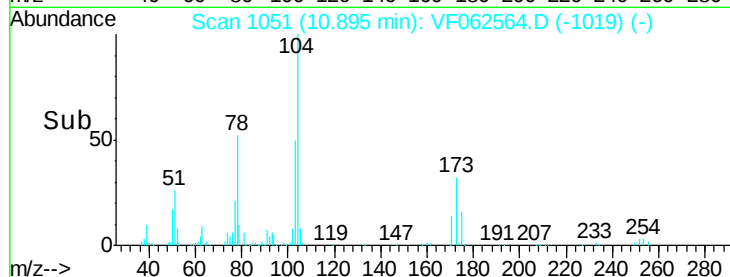
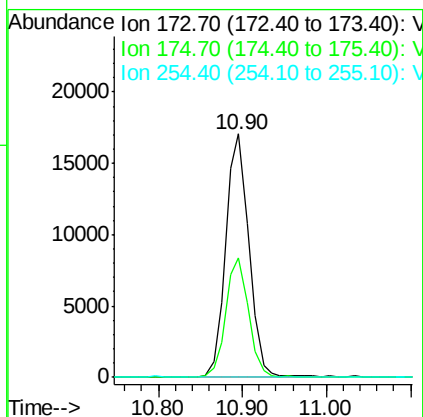
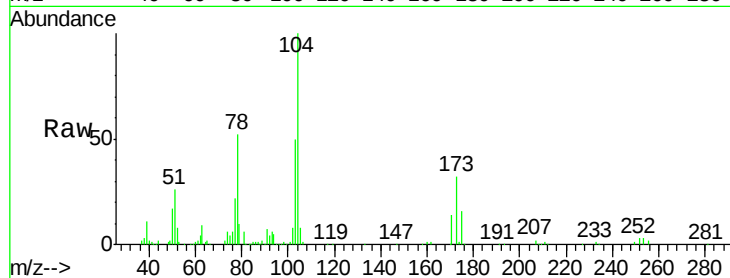
254 0.0 0.1 0.1#

Manual Integrations

APPROVED

MMDadoda

5/14/2019 11:05:16 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. 0.01 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

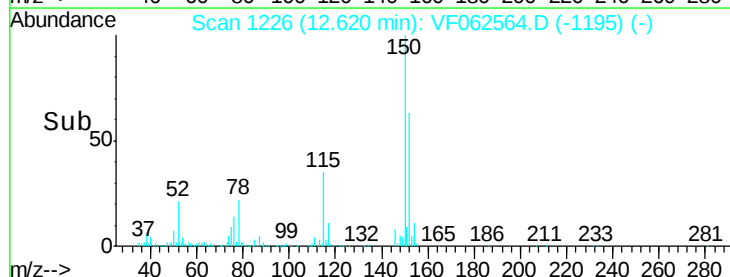
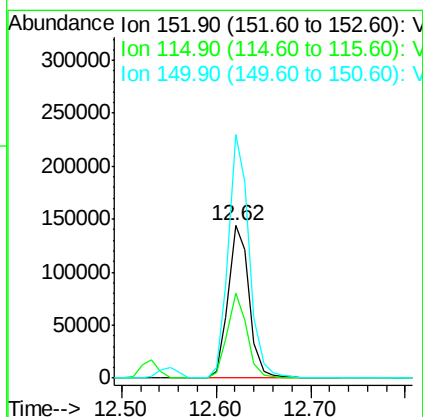
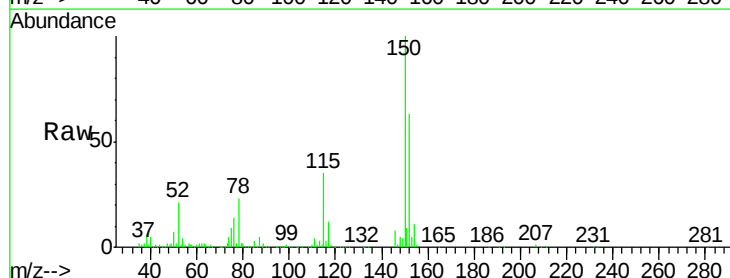
Tgt Ion:152 Resp: 222618

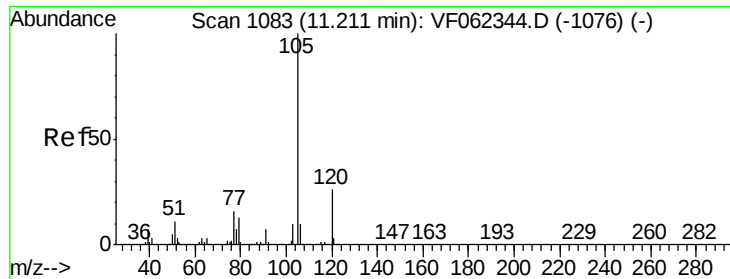
Ion Ratio Lower Upper

152 100

115 52.5 26.4 79.2

150 157.4 0.0 335.0





#73

Isopropylbenzene

Concen: 22.346 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS02

Tot Ion: 105 Resp: 294913

Ion Ratio Lower Upper

105 100

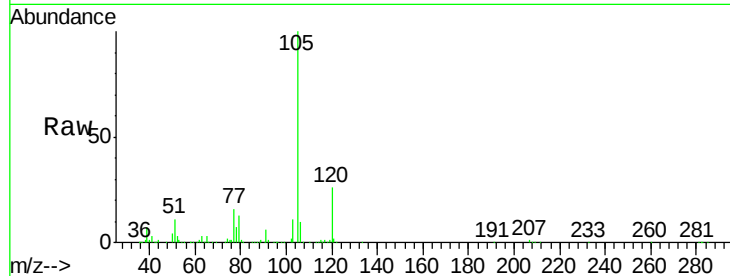
120 24.9 12.7 38.0

Manual Integrations

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MMDadoda

5/14/2019 11:05:16 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.23

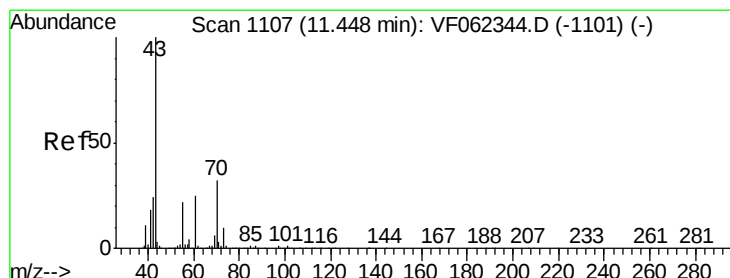
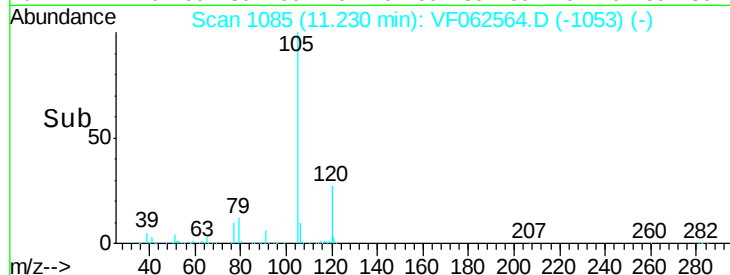
150000

100000

50000

0

Time--> 11.10 11.20 11.30



#74

N-ethyl acetate

Concen: 21.170 ug/l

RT: 11.46 min Scan# 1108

Delta R.T. 0.01 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Tgt Ion: 43 Resp: 59981

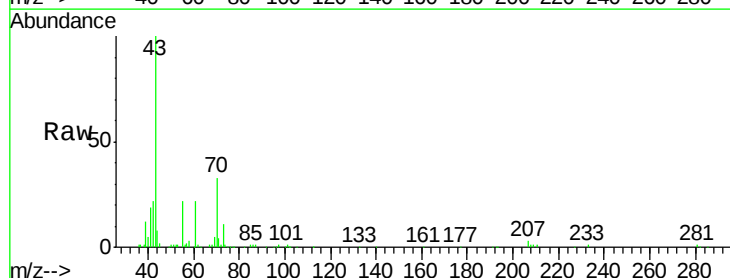
Ion Ratio Lower Upper

43 100

70 36.5 26.5 39.7

55 25.1 17.8 26.6

61 23.0 20.2 30.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

11.46

50000

40000

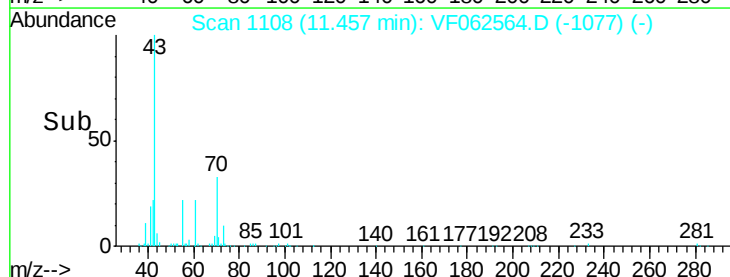
30000

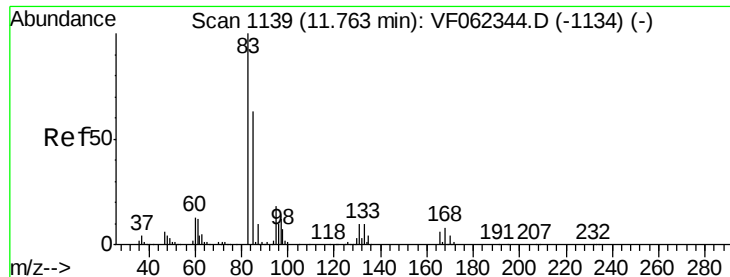
20000

10000

0

Time--> 11.40 11.50 11.60





#75

1,1,2,2-Tetrachloroethane

Concen: 21.997 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

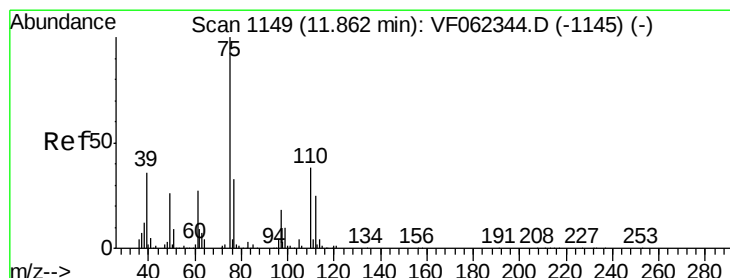
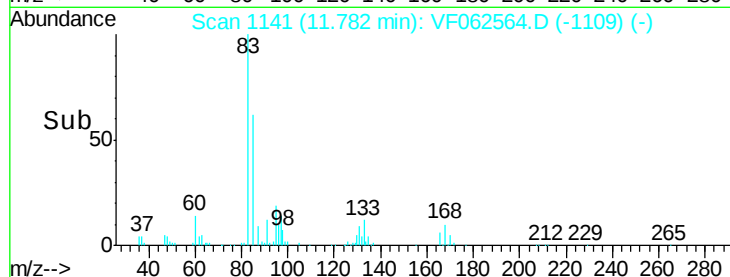
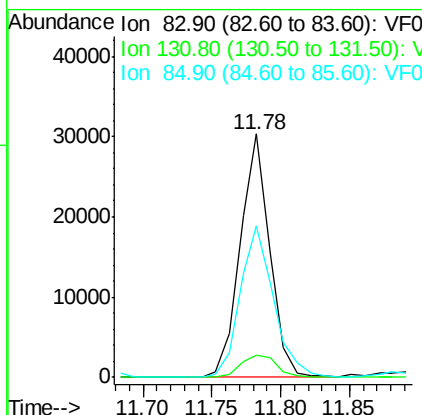
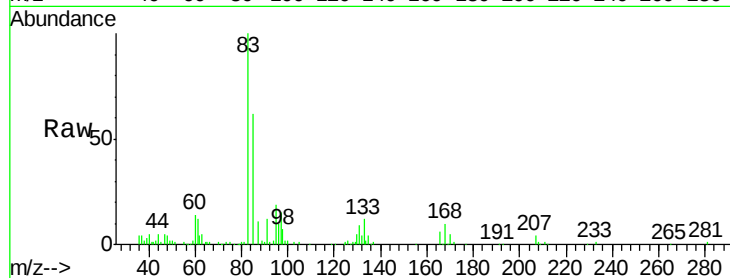
ClientSampleId :

VF0513SBS02

Tot Ion:	83	Resp:	45456
Ion Ratio	Lower	Upper	
83	100		
131	10.9	5.8	17.4
85	70.6	35.3	105.7

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 22.149 ug/l

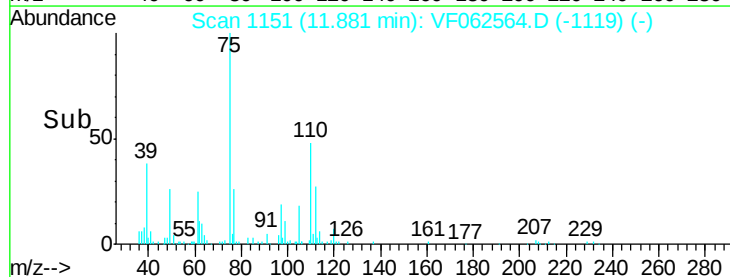
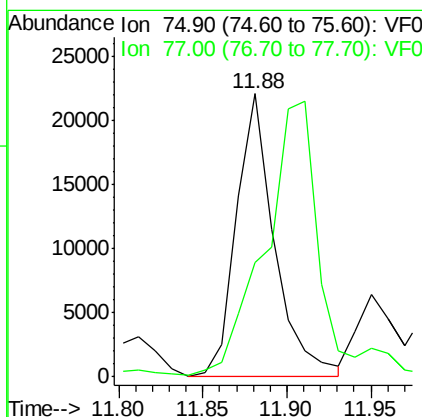
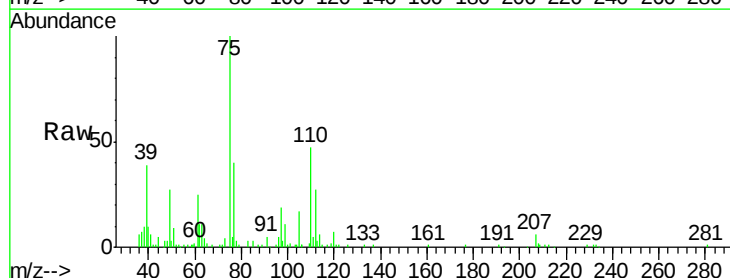
RT: 11.88 min Scan# 1151

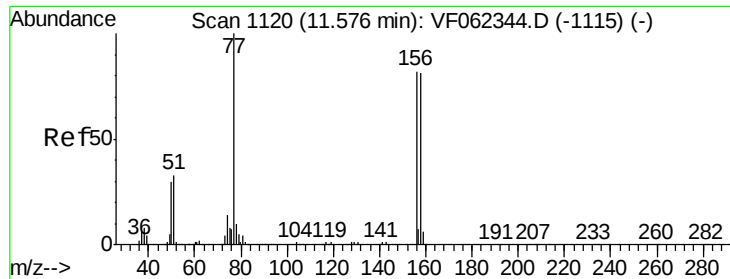
Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Tgt Ion:	75	Resp:	34919
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 22.068 ug/l

RT: 11.60 min Scan# 1122

Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

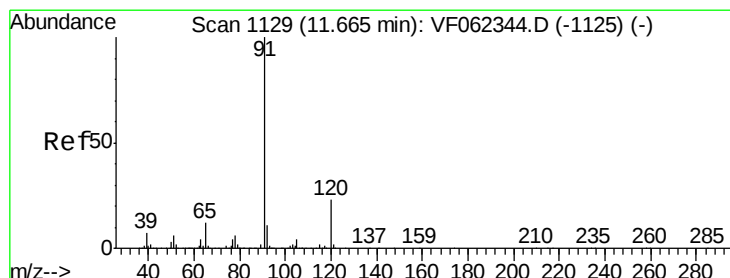
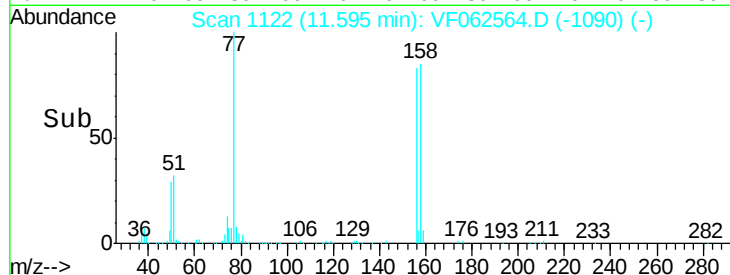
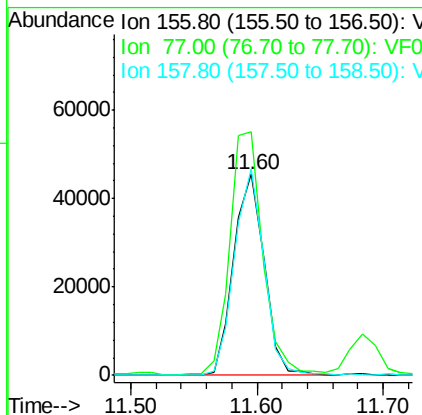
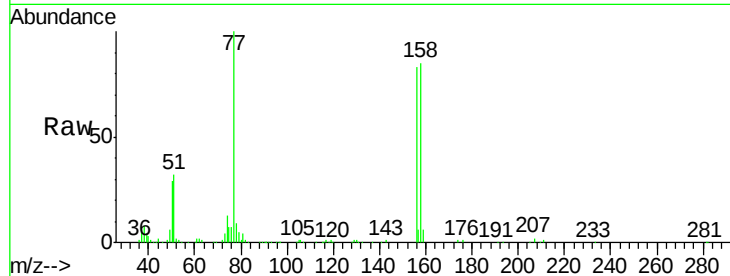
ClientSampleId :

VF0513SBS02

Tot Ion:	156	Resp:	76435
Ion Ratio	Lower	Upper	
156	100		
77	131.0	64.8	194.3
158	100.1	49.1	147.3

Manual Integrations
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#78

n-propylbenzene

Concen: 23.036 ug/l

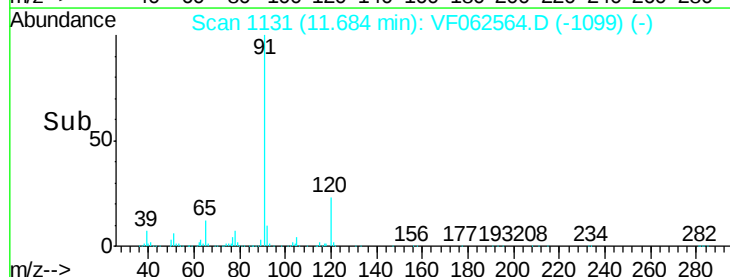
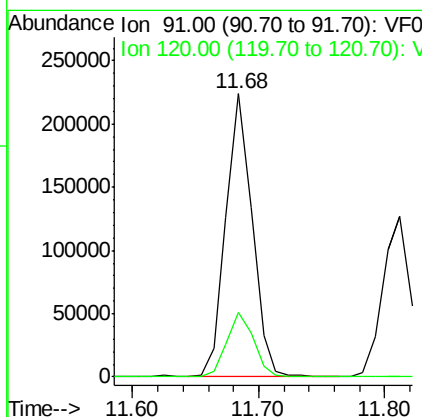
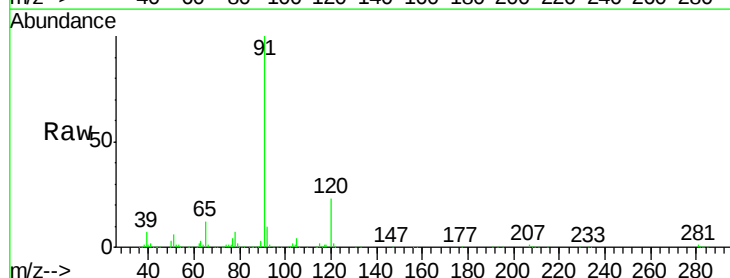
RT: 11.68 min Scan# 1131

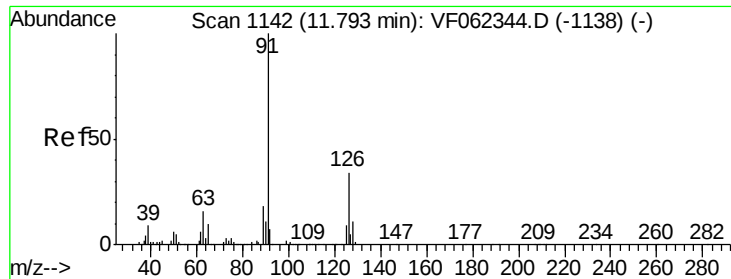
Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Tgt Ion:	91	Resp:	323679
Ion Ratio	Lower	Upper	
91	100		
120	23.0	11.9	35.5





#79

2-Chlorotoluene

Concen: 22.365 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS02

Tot Ion: 91 Resp: 195409

Ion Ratio Lower Upper

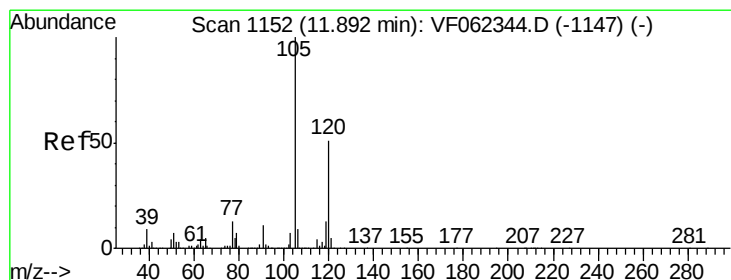
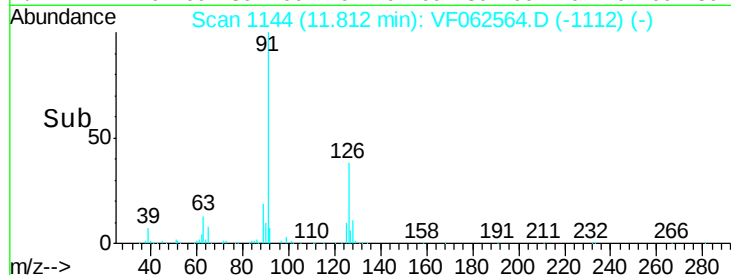
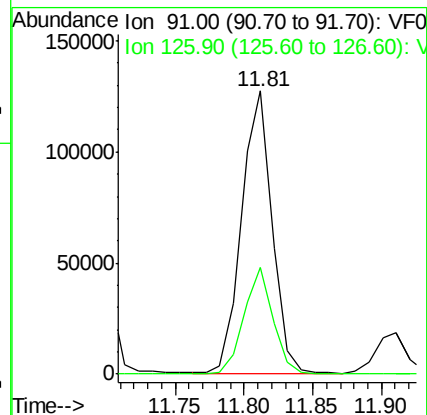
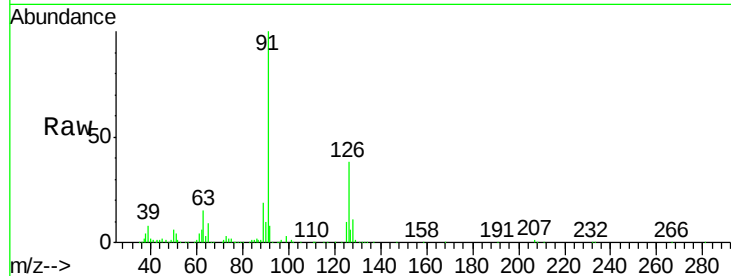
91 100

126 36.5 17.8 53.4

Manual Integrations
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#80

1,3,5-Trimethylbenzene

Concen: 22.814 ug/l

RT: 11.91 min Scan# 1154

Delta R.T. 0.02 min

Lab File: VF062564.D

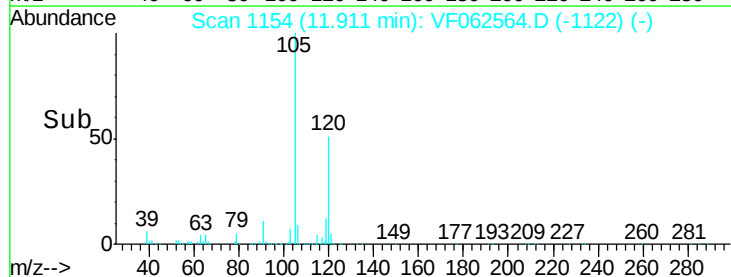
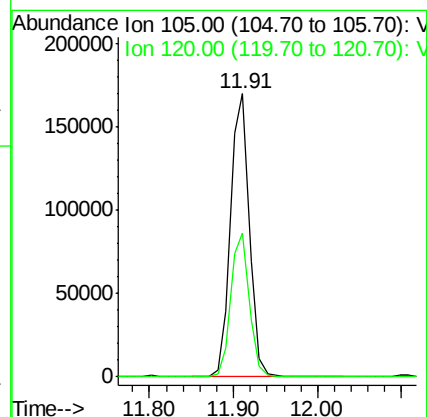
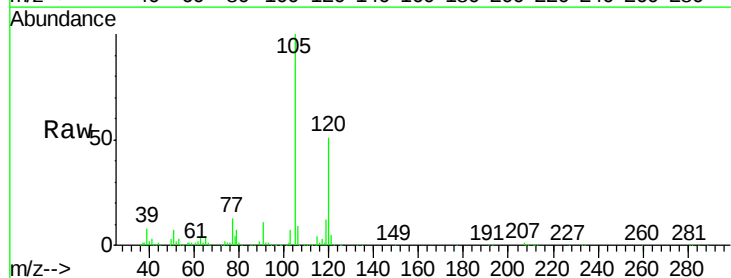
Acq: 14 May 2019 3:07

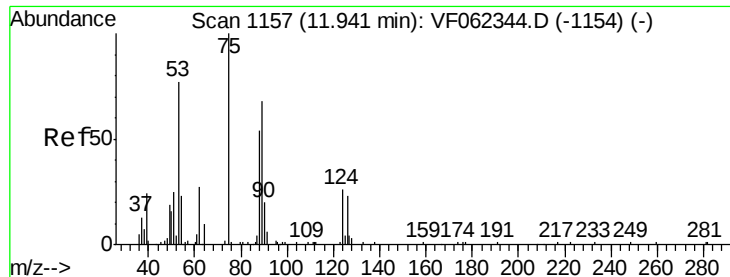
Tgt Ion: 105 Resp: 263900

Ion Ratio Lower Upper

105 100

120 50.0 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 13.609 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. 0.01 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

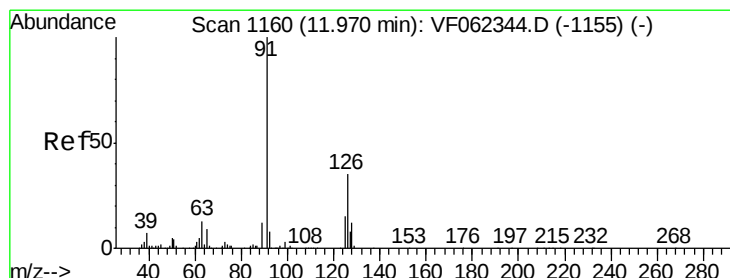
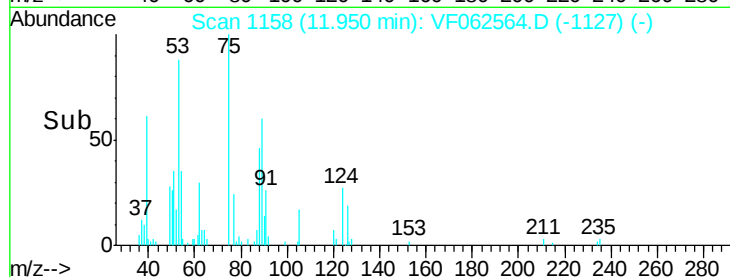
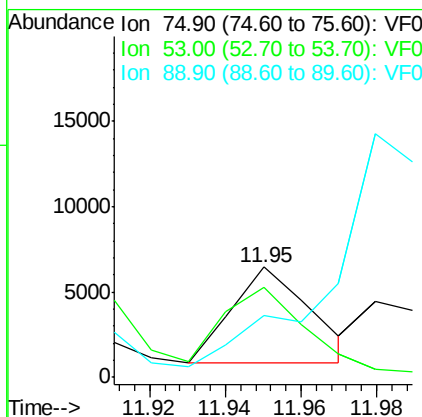
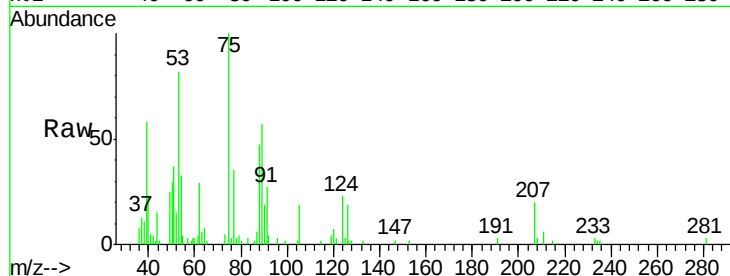
ClientSampleId :

VF0513SBS02

Tot Ion:	75	Resp:	8065
Ion Ratio	Lower	Upper	
75	100		
53	111.0	71.9	107.9#
89	0.0	0.0	0.0

Manual Integrations
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#82

4-Chlorotoluene

Concen: 21.774 ug/l

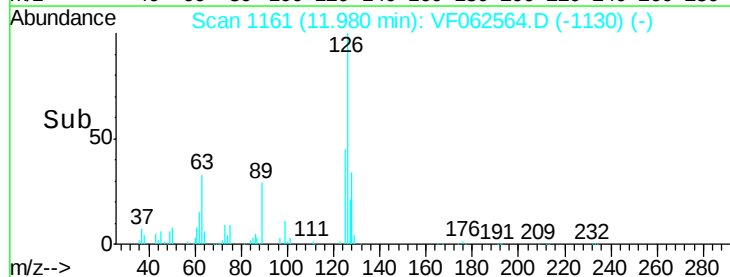
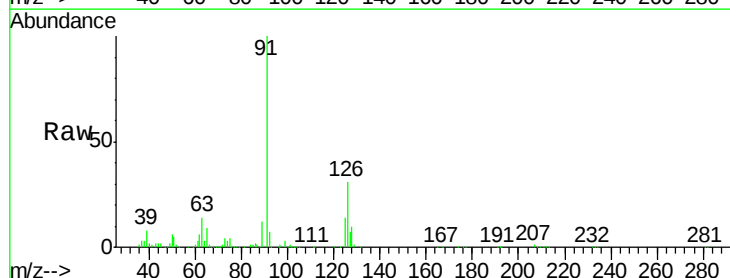
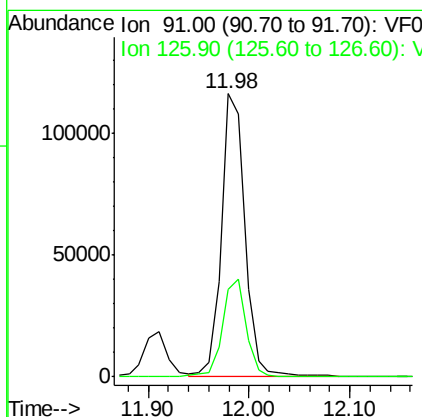
RT: 11.98 min Scan# 1161

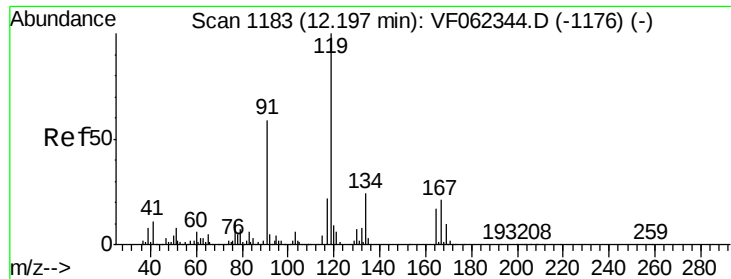
Delta R.T. 0.01 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Tgt Ion:	91	Resp:	187901
Ion Ratio	Lower	Upper	
91	100		
126	35.4	17.7	53.1





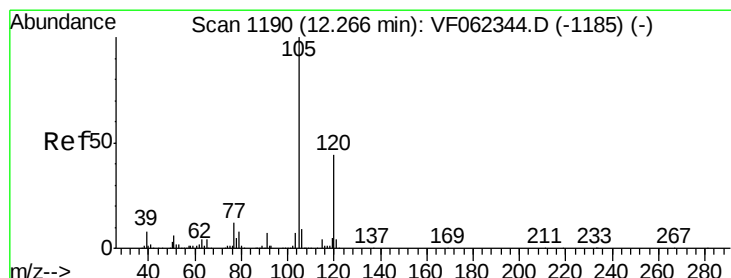
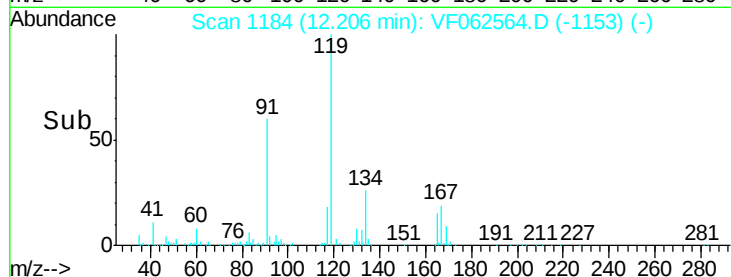
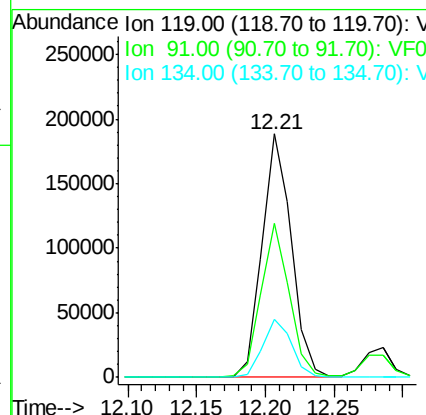
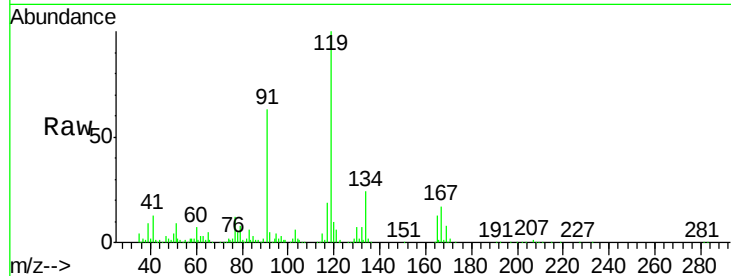
#83
tert-Butylbenzene
Concen: 23.102 ug/l
RT: 12.21 min Scan# 1184
Delta R.T. 0.01 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS02

Tot Ion	Ratio	Resp	Lower	Upper
119	100	280855		
91	60.5	30.4	91.3	
134	23.5	11.9	35.7	

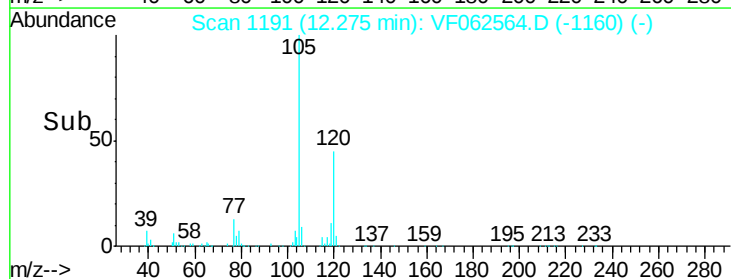
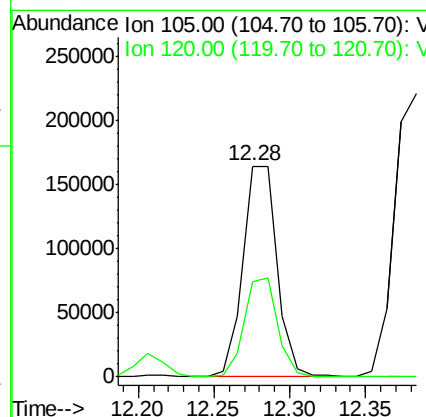
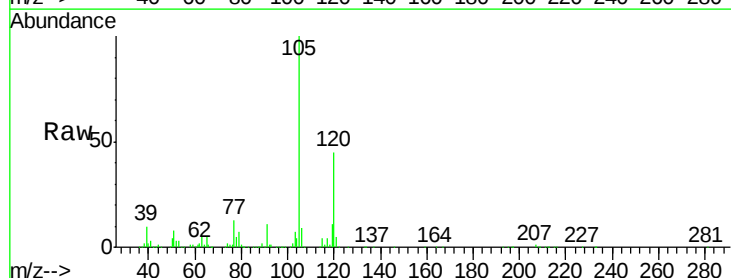
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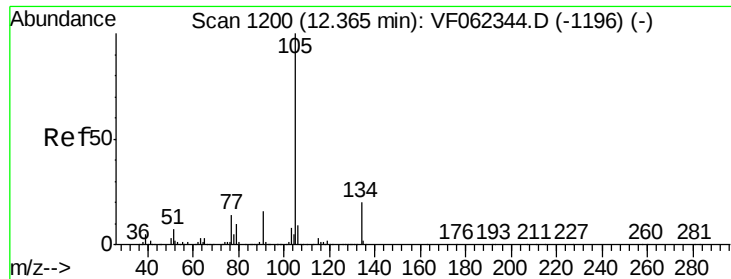
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 22.854 ug/l
RT: 12.28 min Scan# 1191
Delta R.T. 0.01 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	258716		
120	46.1	22.6	67.7	





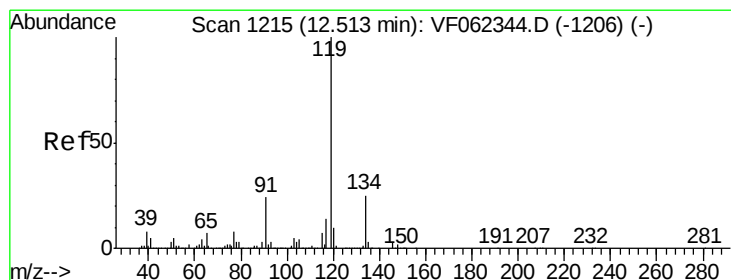
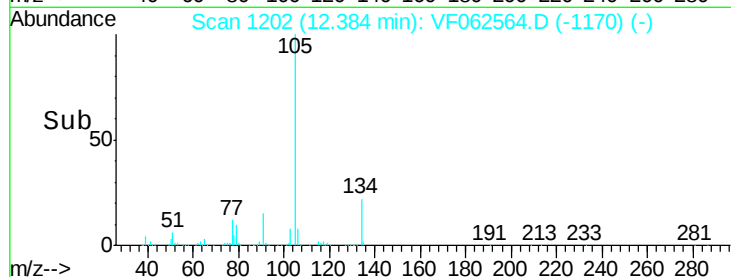
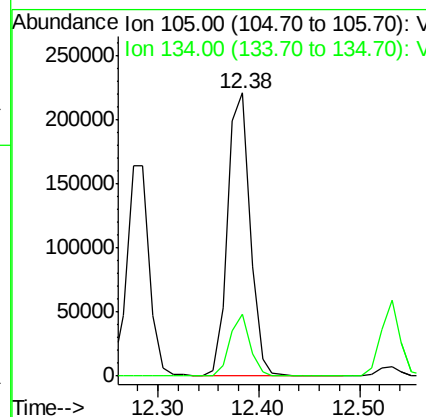
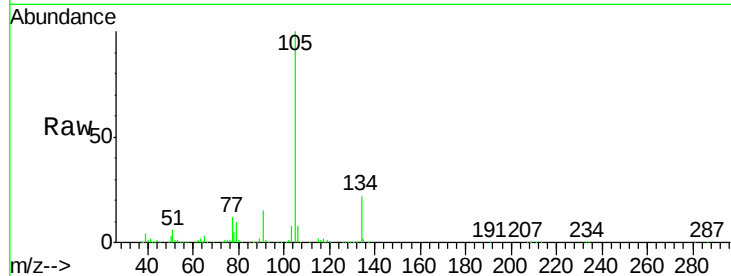
#85
 sec-Butylbenzene
 Concen: 23.296 ug/l
 RT: 12.38 min Scan# 1202
 Delta R.T. 0.02 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0513SBS02

Tot Ion	Ratio	Resp	Lower	Upper
105	100	344714		
134	19.8	9.8	29.5	

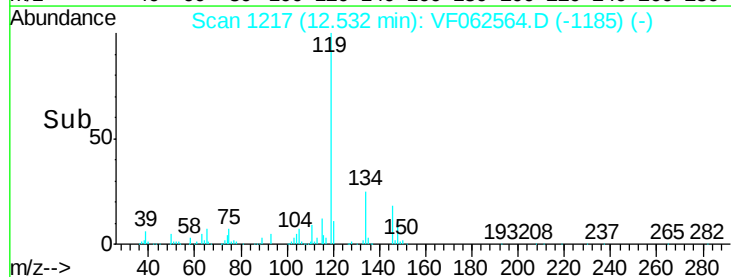
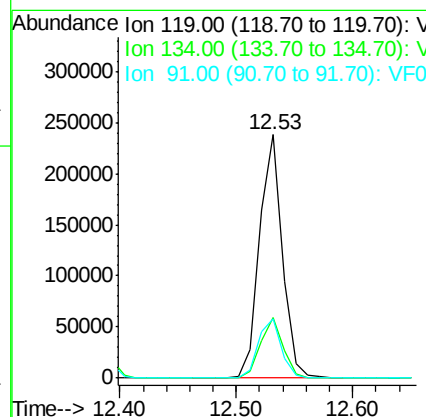
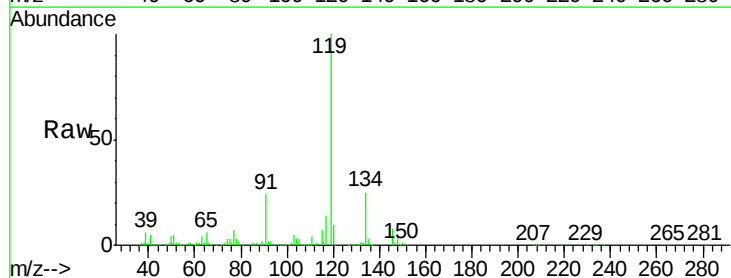
Manual Integrations
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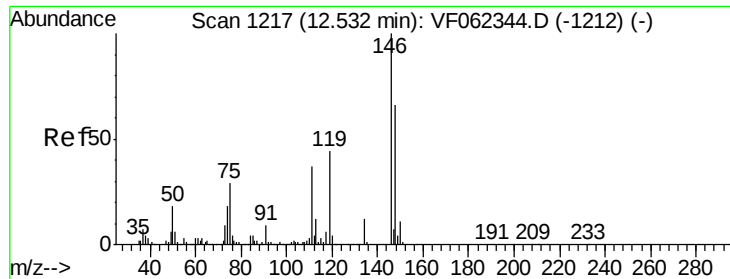
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#86
 p-Isopropyltoluene
 Concen: 23.496 ug/l
 RT: 12.53 min Scan# 1217
 Delta R.T. 0.02 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	323021		
134	24.4	12.9	38.7	
91	24.7	12.3	36.8	





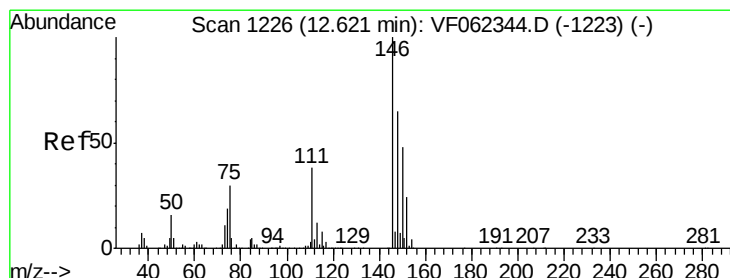
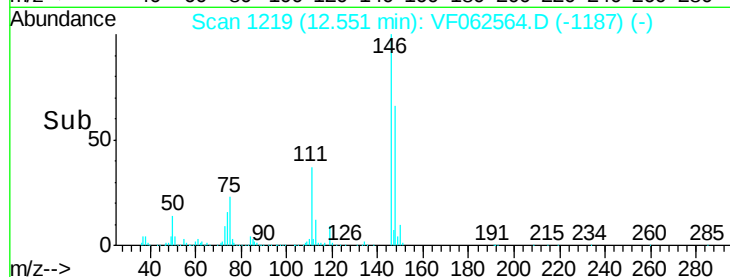
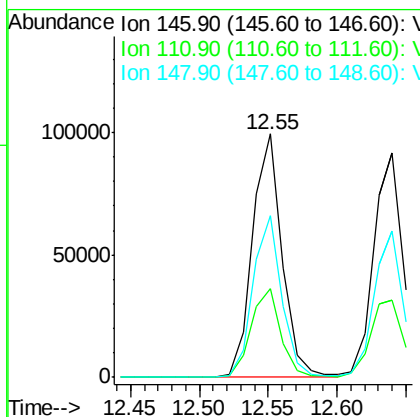
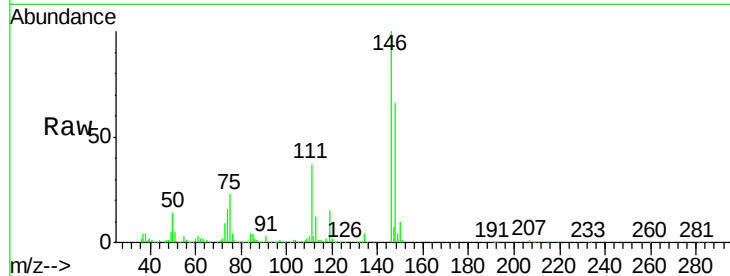
#87
 1,3-Dichlorobenzene
 Concen: 23.666 ug/l
 RT: 12.55 min Scan# 1219
 Delta R.T. 0.02 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0513SBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.7	18.3	54.8
148	64.8	32.3	96.9

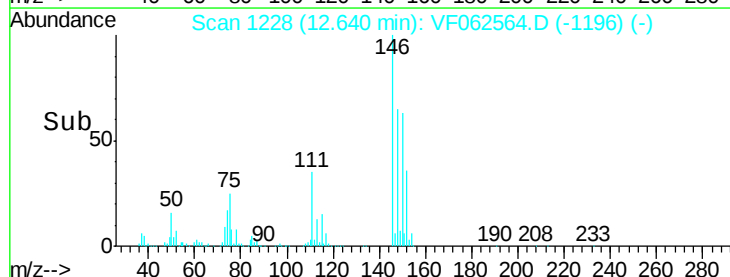
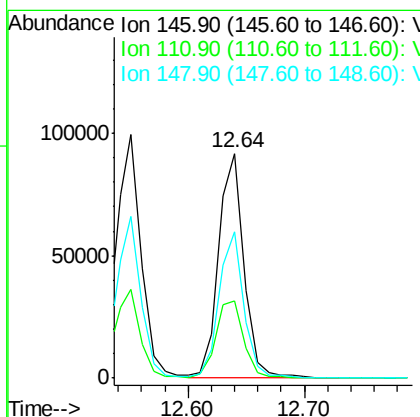
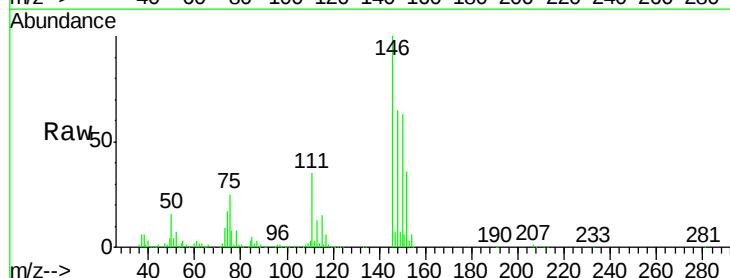
Manual Integrations
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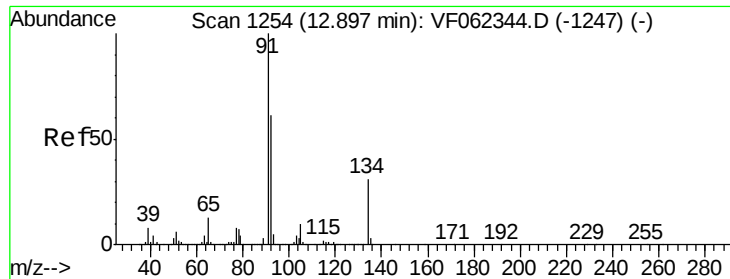
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#88
 1,4-Dichlorobenzene
 Concen: 22.604 ug/l
 RT: 12.64 min Scan# 1228
 Delta R.T. 0.02 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.3	18.8	56.3
148	64.9	32.2	96.6





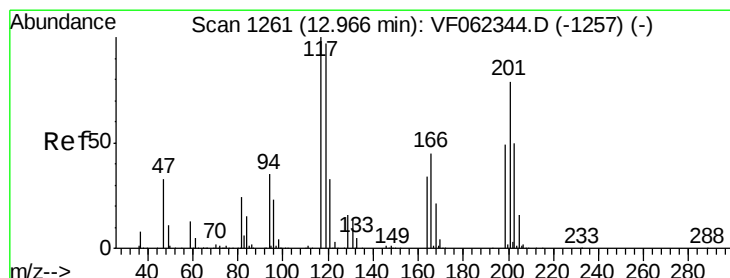
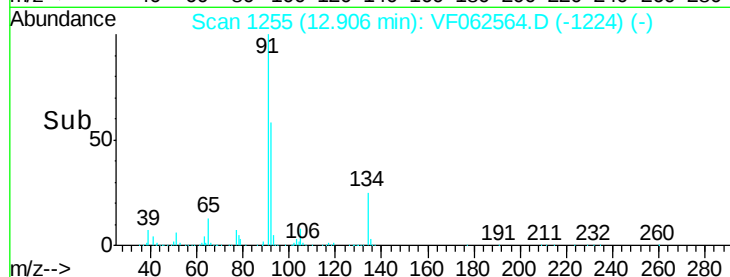
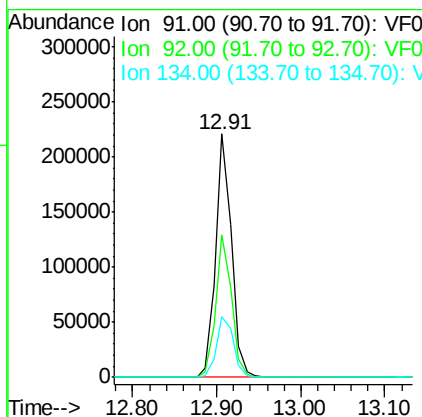
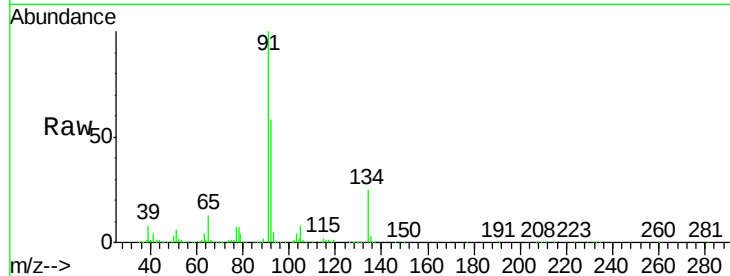
#89
n-Butylbenzene
Concen: 23.571 ug/l
RT: 12.91 min Scan# 1255
Delta R.T. 0.01 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS02

Tot Ion	Ratio	Resp	Lower	Upper
91	100	288307		
92	58.3	30.0	90.0	
134	26.6	14.1	42.4	

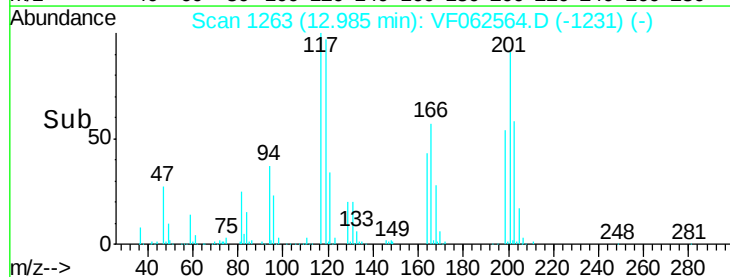
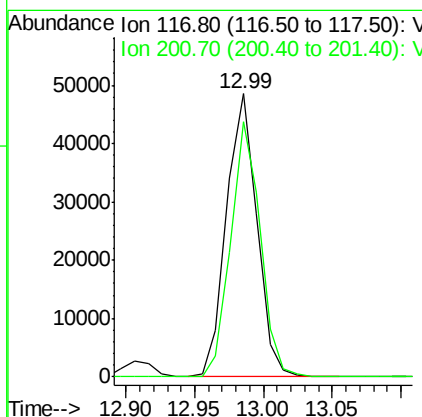
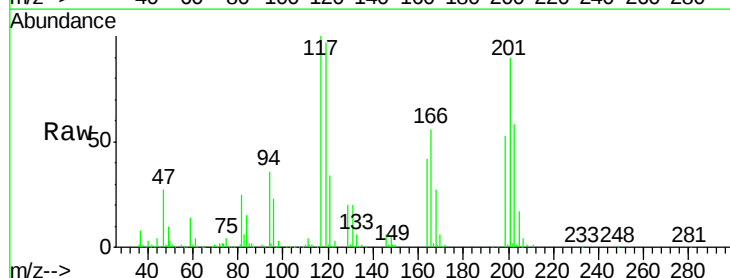
Manual Integrations
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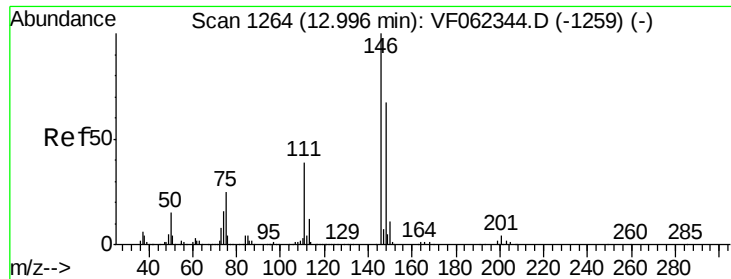
MMDadoda
5/14/2019 11:05:16 AM



#90
Hexachloroethane
Concen: 21.728 ug/l
RT: 12.99 min Scan# 1263
Delta R.T. 0.02 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	74587		
201	87.5	46.2	138.5	





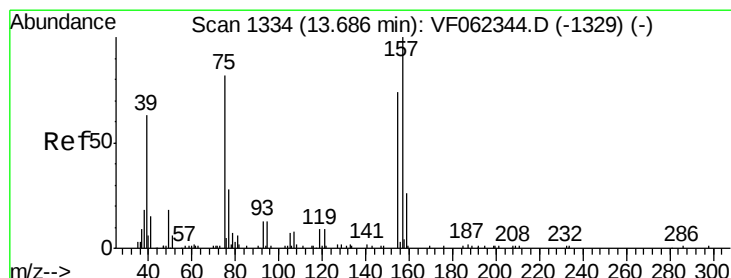
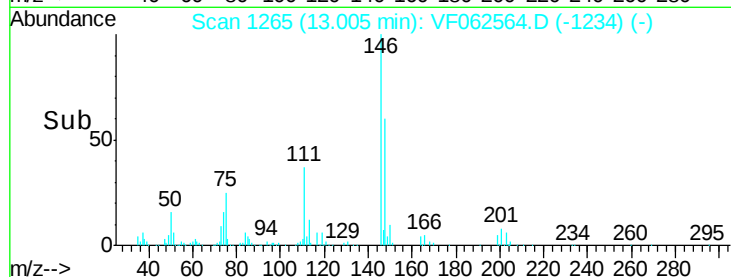
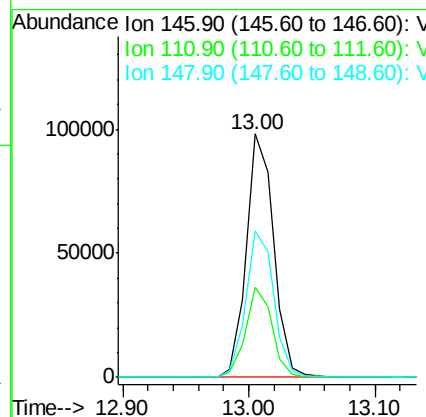
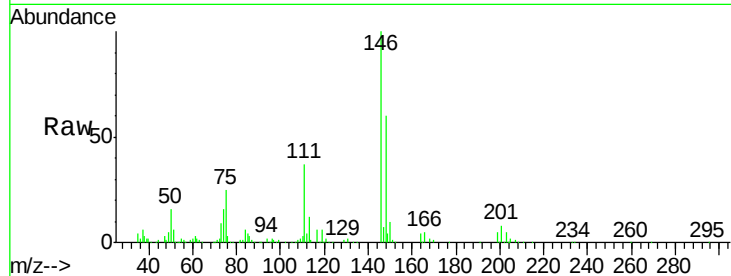
#91
 1,2-Dichlorobenzene
 Concen: 24.012 ug/l
 RT: 13.00 min Scan# 1265
 Delta R.T. 0.01 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0513SBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.1	20.0	60.0
148	62.1	33.1	99.5

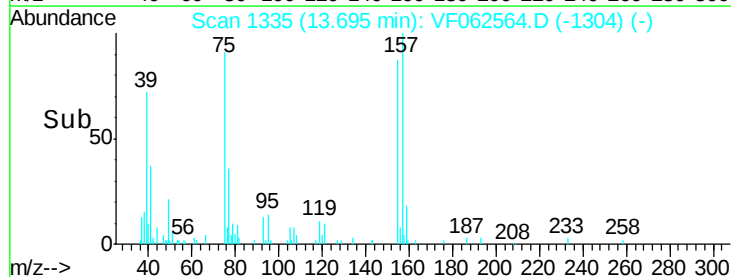
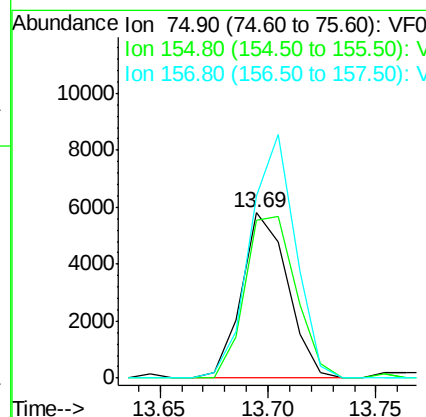
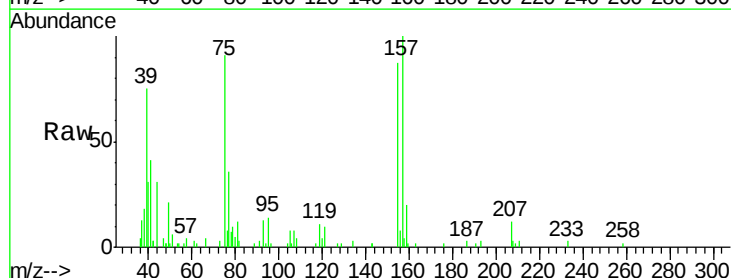
Manual Integrations
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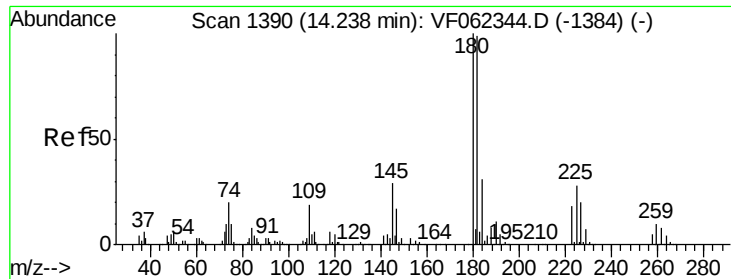
MMDadoda
 5/14/2019 11:05:16 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.618 ug/l
 RT: 13.69 min Scan# 1335
 Delta R.T. 0.01 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

Tgt Ion	Ratio	Lower	Upper
75	100		
155	107.9	51.8	155.4
157	143.4	67.3	201.8





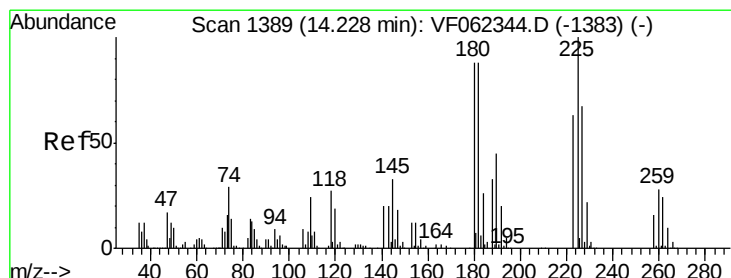
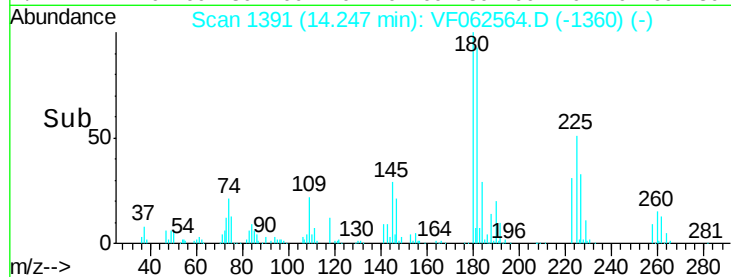
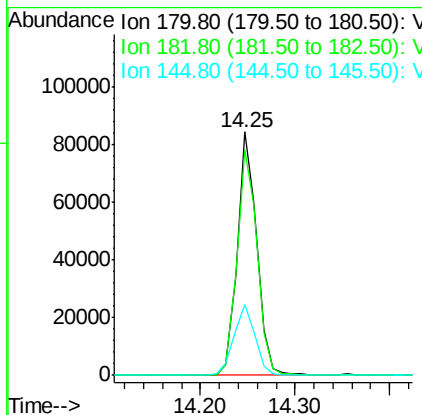
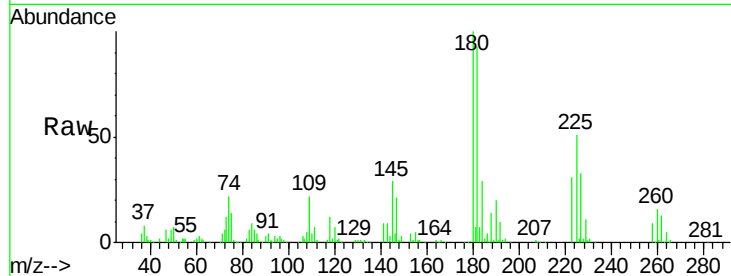
#93
 1,2,4-Trichlorobenzene
 Concen: 21.941 ug/l
 RT: 14.25 min Scan# 1391
 Delta R.T. 0.01 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0513SBS02

Tot Ion	Ratio	Resp	Lower	Upper
180	100	120499		
182	96.2	49.0	147.0	
145	31.6	16.7	50.1	

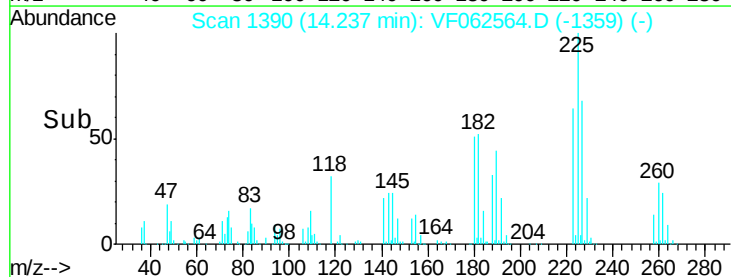
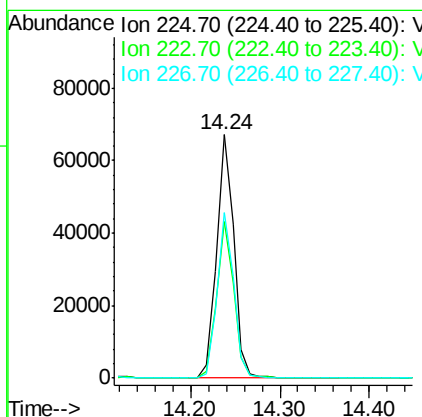
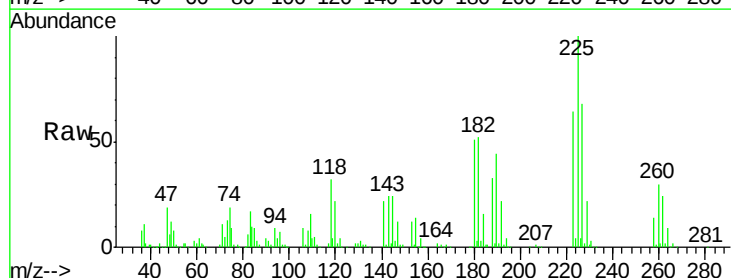
Manual Integrations
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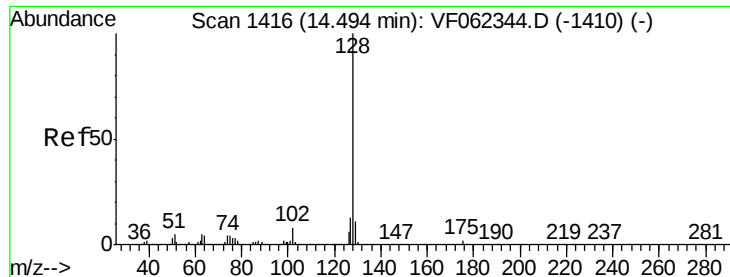
MMDadoda
 5/14/2019 11:05:16 AM



#94
 Hexachlorobutadiene
 Concen: 22.224 ug/l
 RT: 14.24 min Scan# 1390
 Delta R.T. 0.01 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	90972		
223	63.7	31.9	95.5	
227	65.6	33.1	99.5	





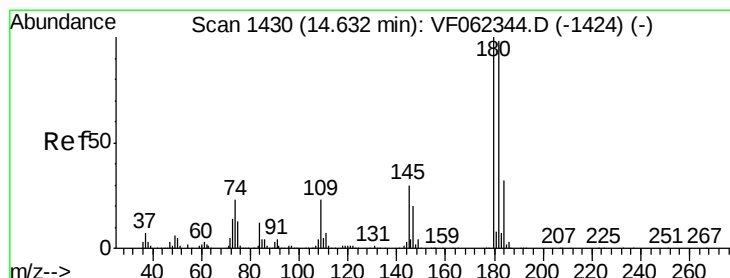
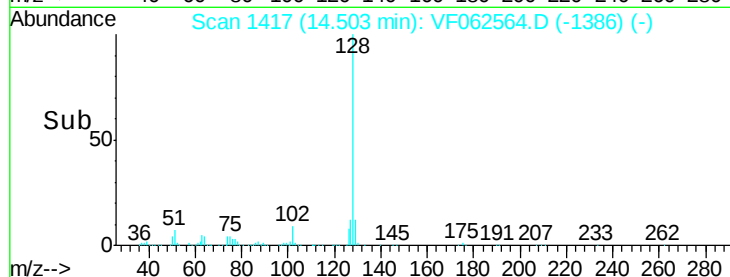
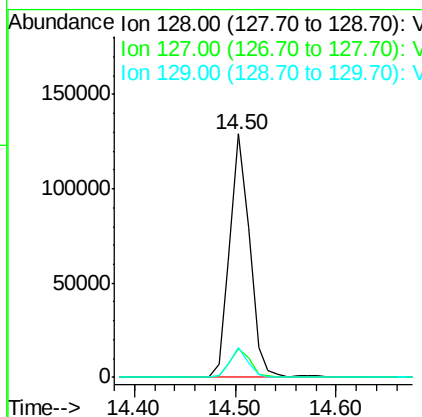
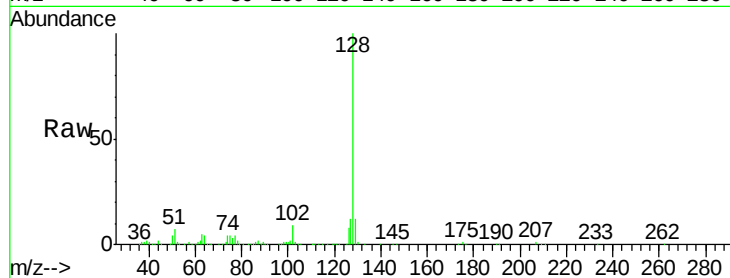
#95
Naphthalene
Concen: 21.586 ug/l
RT: 14.50 min Scan# 1417
Delta R.T. 0.01 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS02

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.9	10.5	15.7
129	11.1	8.6	12.8

Manual Integrations
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5/14/2019 11:05:16 AM



#96
1,2,3-Trichlorobenzene
Concen: 22.220 ug/l
RT: 14.65 min Scan# 1432
Delta R.T. 0.02 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.3	49.4	148.0
145	29.5	14.8	44.3

