

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF050919\
 Data File : VF062395.D
 Acq On : 9 May 2019 14:58
 Operator : FY/SY
 Sample : VF0509SBS01
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0509SBS01

Manual Integrations
 APPROVED

MMDadoda
 5/10/2019 11:03:35 AM

Quant Time: May 10 02:21:17 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	5.05	168	325061	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	416703	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	351834	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	229728	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.02	65	161675	52.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.26%	
35) Dibromofluoromethane	4.30	113	172771	52.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.08%	
50) Toluene-d8	7.70	98	418555	52.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.16%	
62) 4-Bromofluorobenzene	11.48	95	192860	53.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.38%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.01	85	84704	22.515	ug/l	96
3) Chloromethane	1.13	50	48974	19.738	ug/l	96
4) Vinyl Chloride	1.18	62	48385	19.551	ug/l	99
5) Bromomethane	1.38	94	44328	22.349	ug/l	99
6) Chloroethane	1.43	64	27972	22.481	ug/l	96
7) Trichlorofluoromethane	1.55	101	118851	23.146	ug/l	96
8) Diethyl Ether	1.71	74	14288	18.390	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	1.89	101	62438	21.298	ug/l	96
10) Methyl Iodide	1.97	142	108458	22.450	ug/l	98
11) Tert butyl alcohol	2.69	59	16277	93.751	ug/l #	92
12) 1,1-Dichloroethene	1.85	96	49491	19.858	ug/l	87
13) Acrolein	2.09	56	11326	92.212	ug/l	94
14) Allyl chloride	2.19	41	78020	35.439	ug/l	98
15) Acrylonitrile	3.08	53	32919	100.095	ug/l	98
16) Acetone	2.35	43	66167	106.474	ug/l	93
17) Carbon Disulfide	1.90	76	114491	21.069	ug/l	98
18) Methyl Acetate	2.46	43	21067	16.490	ug/l	94
19) Methyl tert-butyl Ether	2.54	73	106492	20.700	ug/l	98
20) Methylene Chloride	2.32	84	47514	21.133	ug/l	96
21) trans-1,2-Dichloroethene	2.42	96	50206	21.144	ug/l	94
22) Diisopropyl ether	2.93	45	144393	20.985	ug/l	98
23) Vinyl Acetate	3.34	43	308288	100.530	ug/l	100
24) 1,1-Dichloroethane	3.01	63	92620	22.272	ug/l	96
25) 2-Butanone	4.52	43	81430	104.300	ug/l	100
26) 2,2-Dichloropropane	3.77	77	58527	25.202	ug/l	100
27) cis-1,2-Dichloroethene	3.63	96	59079	19.905	ug/l	90
28) Bromochloromethane	3.88	49	35876	19.023	ug/l #	99
29) Tetrahydrofuran	4.26	42	34552	96.294	ug/l	98
30) Chloroform	4.04	83	126109	22.447	ug/l	97
31) Cyclohexane	3.87	56	72908	21.965	ug/l	89
32) 1,1,1-Trichloroethane	4.29	97	116374	24.169	ug/l	97
36) 1,1-Dichloropropene	4.47	75	78451	21.916	ug/l	97
37) Ethyl Acetate	4.29	43	33687	21.124	ug/l #	94
38) Carbon Tetrachloride	4.17	117	108594	28.026	ug/l	95

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.62	83	76895	21.419	ug/l	95
40) Benzene	4.81	78	173231	21.976	ug/l	94
41) Methacrylonitrile	4.92	41	17698	20.619	ug/l	97
42) 1,2-Dichloroethane	5.12	62	75835	23.003	ug/l	98
43) Isopropyl Acetate	7.11	43	35321	21.693	ug/l #	96
44) Trichloroethene	5.67	130	64142	22.151	ug/l	98
45) 1,2-Dichloropropane	6.40	63	38430	21.524	ug/l	94
46) Dibromomethane	6.25	93	32185	21.742	ug/l	96
47) Bromodichloromethane	6.55	83	81965	22.146	ug/l	99
48) Methyl methacrylate	6.86	41	25021	21.746	ug/l	95
49) 1,4-Dioxane	6.87	88	5154	428.052	ug/l	86
51) 4-Methyl-2-Pentanone	8.39	43	129034	104.587	ug/l	99
52) Toluene	7.77	92	109120	22.440	ug/l	100
53) t-1,3-Dichloropropene	8.41	75	63199	22.577	ug/l	99
54) cis-1,3-Dichloropropene	7.45	75	78033	23.953	ug/l	95
55) 1,1,2-Trichloroethane	8.63	97	35171	22.783	ug/l	96
56) Ethyl methacrylate	8.74	69	34332	21.069	ug/l	97
57) 1,3-Dichloropropane	8.98	76	52438	22.488	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.43	63	51237	104.584	ug/l	96
59) 2-Hexanone	9.61	43	95639	112.086	ug/l	98
60) Dibromochloromethane	8.85	129	55892	22.137	ug/l	99
61) 1,2-Dibromoethane	9.12	107	38669	21.313	ug/l	100
64) Tetrachloroethene	8.29	164	64440	22.561	ug/l	98
65) Chlorobenzene	9.92	112	132165	22.704	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.05	131	67893	23.119	ug/l	97
67) Ethyl Benzene	10.02	91	241341	23.676	ug/l	100
68) m/p-Xylenes	10.25	106	178077	47.347	ug/l	96
69) o-Xylene	10.80	106	100409	24.706	ug/l	97
70) Styrene	10.88	104	143448	23.551	ug/l	99
71) Bromoform	10.86	173	35722	22.203	ug/l #	99
73) Isopropylbenzene	11.21	105	314657	23.104	ug/l	99
74) N-amyl acetate	11.44	43	54375	18.597	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.76	83	44727	20.975	ug/l	98
76) 1,2,3-Trichloropropane	11.86	75	33543	20.618	ug/l #	100
77) Bromobenzene	11.57	156	79266	22.177	ug/l	98
78) n-propylbenzene	11.66	91	324692	22.393	ug/l	98
79) 2-Chlorotoluene	11.79	91	205256	22.765	ug/l	99
80) 1,3,5-Trimethylbenzene	11.89	105	258453	21.651	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.93	75	12621m	20.638	ug/l	
82) 4-Chlorotoluene	11.97	91	202167	22.703	ug/l	99
83) tert-Butylbenzene	12.18	119	289840	23.104	ug/l	94
84) 1,2,4-Trimethylbenzene	12.26	105	265983	22.769	ug/l	100
85) sec-Butylbenzene	12.36	105	342212	22.411	ug/l	100
86) p-Isopropyltoluene	12.51	119	313239	22.079	ug/l	99
87) 1,3-Dichlorobenzene	12.53	146	140961	21.594	ug/l	97
88) 1,4-Dichlorobenzene	12.62	146	140748	22.339	ug/l	99
89) n-Butylbenzene	12.88	91	293540	23.256	ug/l	99
90) Hexachloroethane	12.96	117	75475	21.307	ug/l	94
91) 1,2-Dichlorobenzene	12.99	146	137642	21.784	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	13.68	75	9373	19.620	ug/l	90

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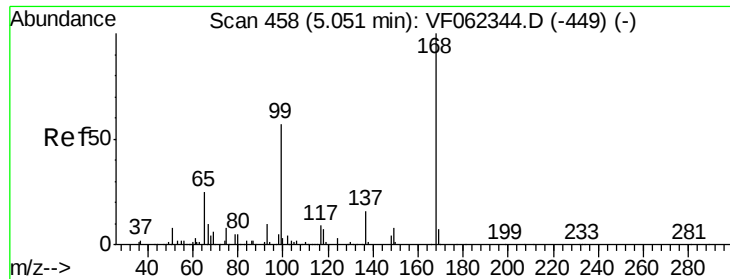
Manual Integrations
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.22	180	126482	22.318	ug/l	100
94) Hexachlorobutadiene	14.22	225	97302	23.035	ug/l	95
95) Naphthalene	14.48	128	165426	19.415	ug/l	98
96) 1,2,3-Trichlorobenzene	14.63	180	118960	21.666	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 458

Delta R.T. -0.00 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

Instrument :

MSVOA_F

ClientSampleId :

VF0509SBS01

Tot Ion:168 Resp: 325061

Ion Ratio Lower Upper

168 100

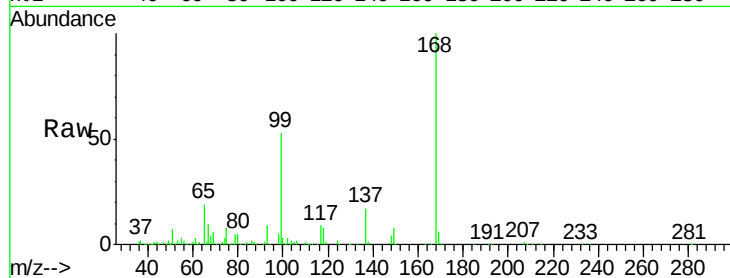
99 53.5 45.9 68.9

Manual Integrations

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5/10/2019 11:03:35 AM



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.05

120000

100000

80000

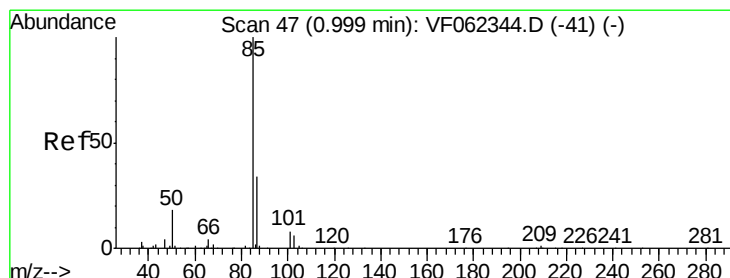
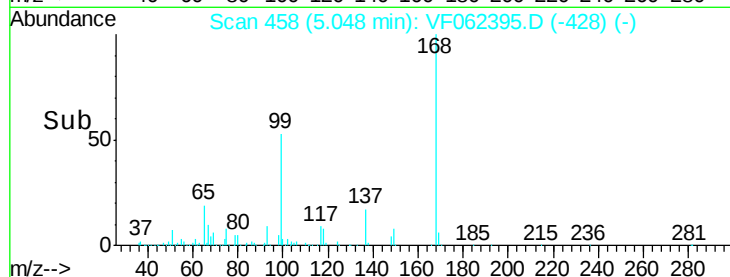
60000

40000

20000

0

Time--> 4.80 5.00 5.20 5.40



#2

Dichlorodifluoromethane

Concen: 22.515 ug/l

RT: 1.01 min Scan# 48

Delta R.T. 0.01 min

Lab File: VF062395.D

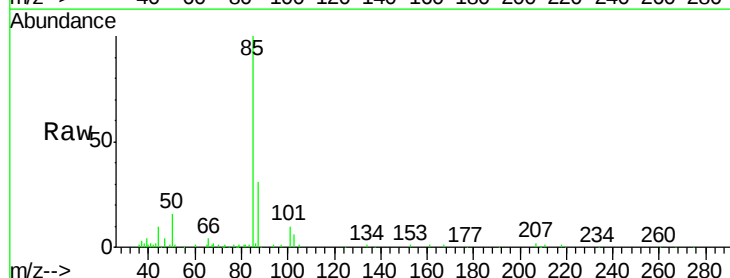
Acq: 9 May 2019 14:58

Tgt Ion: 85 Resp: 84704

Ion Ratio Lower Upper

85 100

87 31.1 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

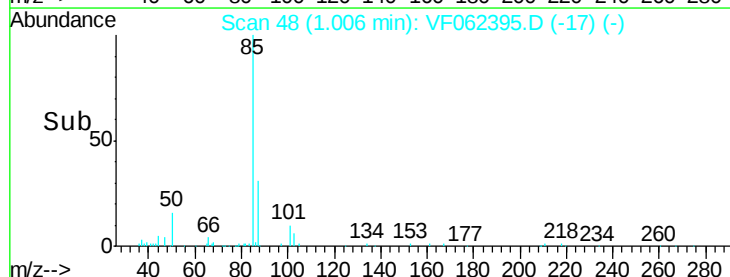
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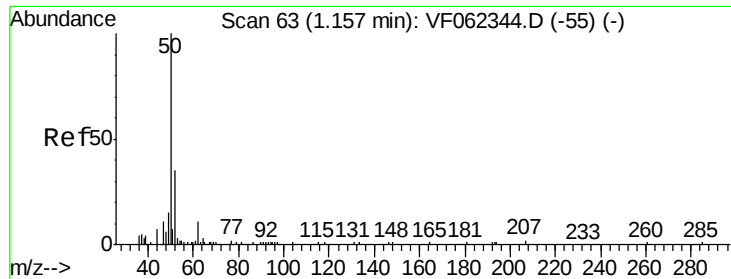
10000

5000

0

Time--> 0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 19.738 ug/l

RT: 1.13 min Scan# 61

Delta R.T. -0.02 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

Instrument :

MSVOA_F

ClientSampleId :

VF0509SBS01

Tot Ion: 50 Resp: 48974

Ion Ratio Lower Upper

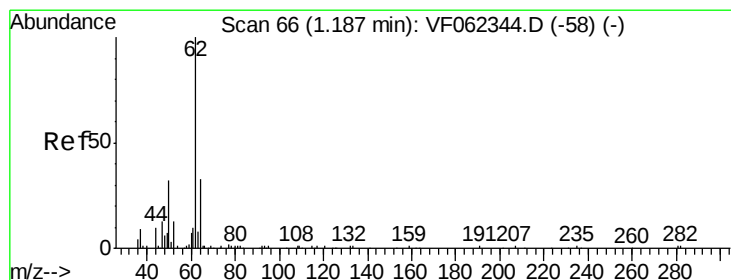
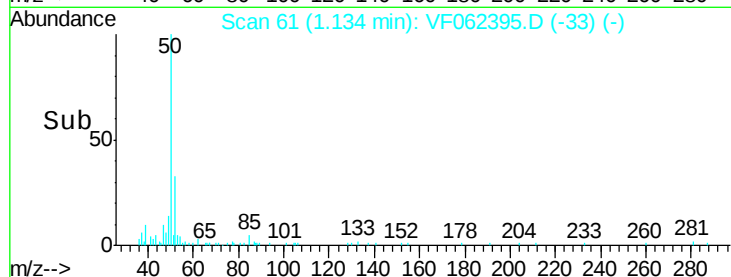
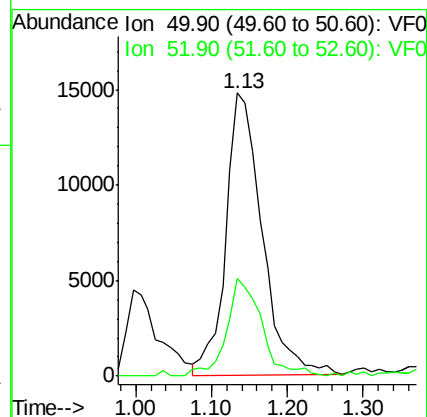
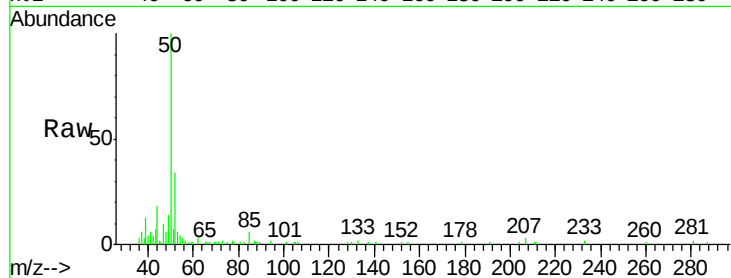
50 100

52 34.7 26.1 39.1

Manual Integrations
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#4

Vinyl Chloride

Concen: 19.551 ug/l

RT: 1.18 min Scan# 66

Delta R.T. -0.00 min

Lab File: VF062395.D

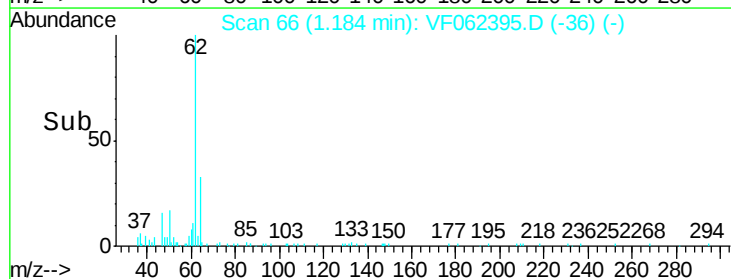
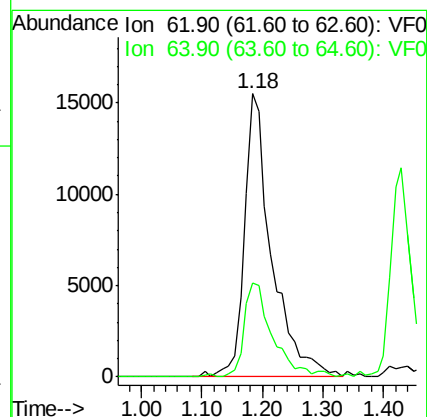
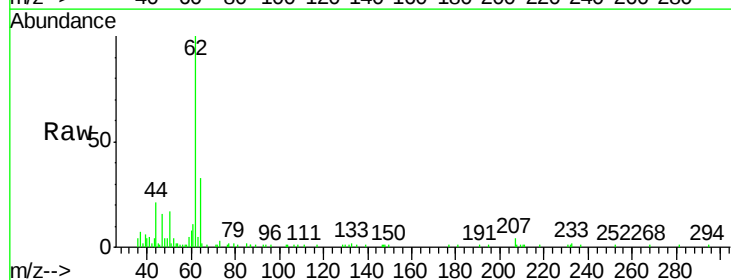
Acq: 9 May 2019 14:58

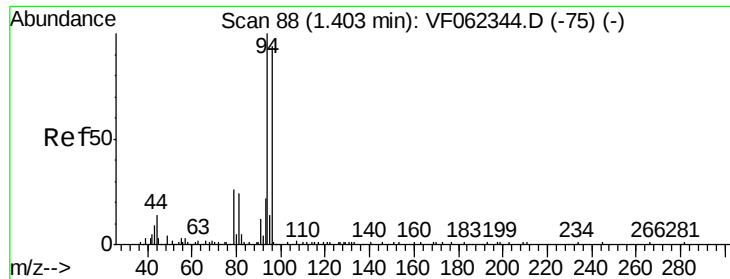
Tgt Ion: 62 Resp: 48385

Ion Ratio Lower Upper

62 100

64 33.1 26.1 39.1





#5

Bromomethane

Concen: 22.349 ug/l

RT: 1.38 min Scan# 86

Delta R.T. -0.02 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

Instrument :

MSVOA_F

ClientSampleId :

VF0509SBS01

Tot Ion: 94 Resp: 44328

Ion Ratio Lower Upper

94 100

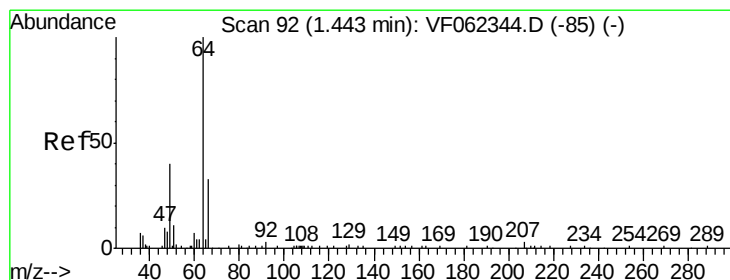
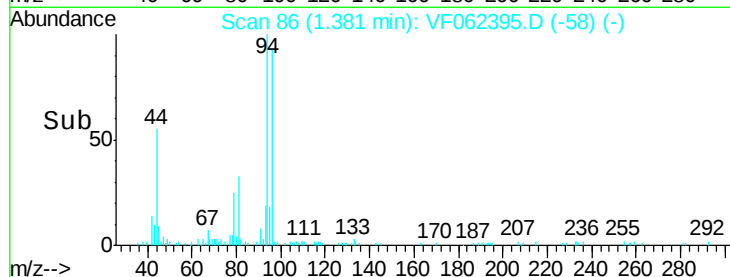
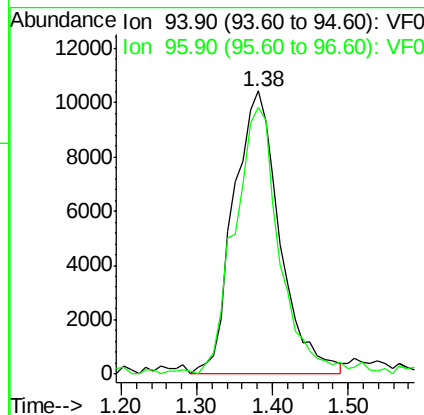
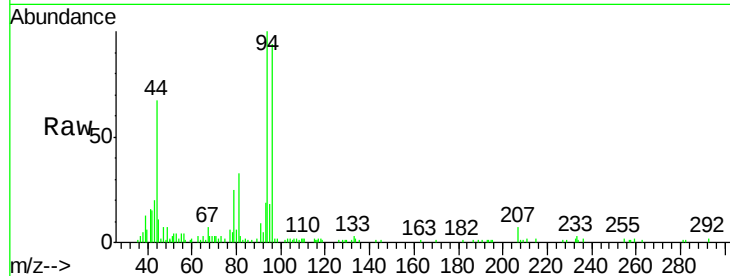
96 93.4 75.4 113.2

Manual Integrations

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#6

Chloroethane

Concen: 22.481 ug/l

RT: 1.43 min Scan# 91

Delta R.T. -0.01 min

Lab File: VF062395.D

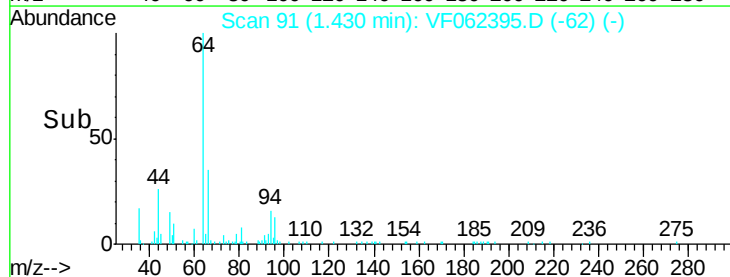
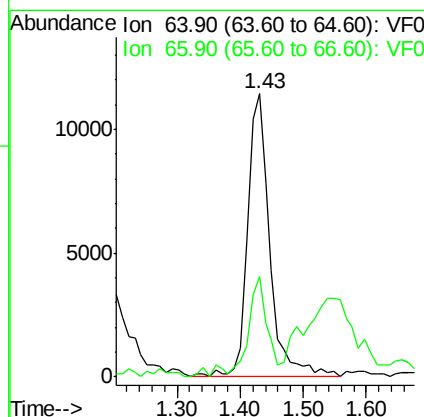
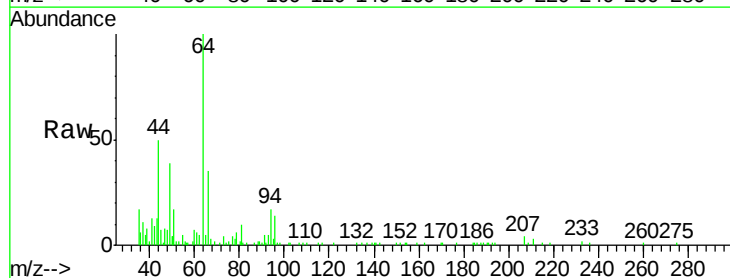
Acq: 9 May 2019 14:58

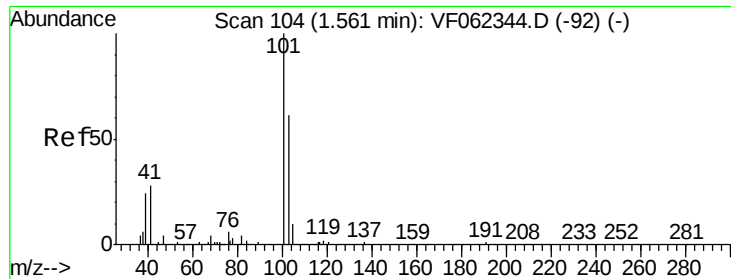
Tgt Ion: 64 Resp: 27972

Ion Ratio Lower Upper

64 100

66 35.4 26.6 39.8





#7

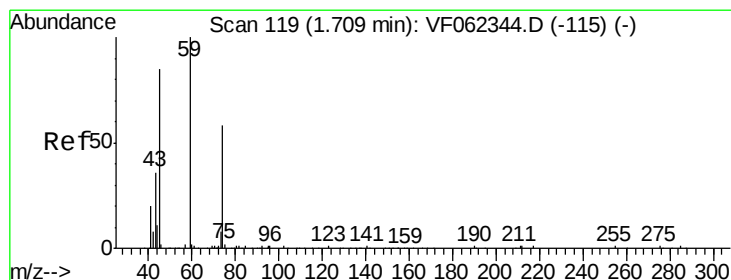
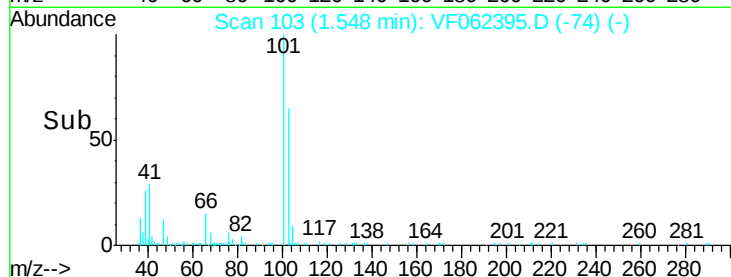
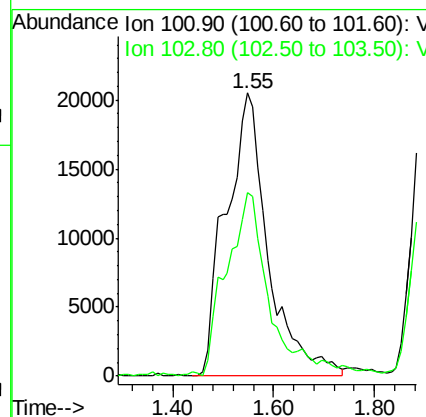
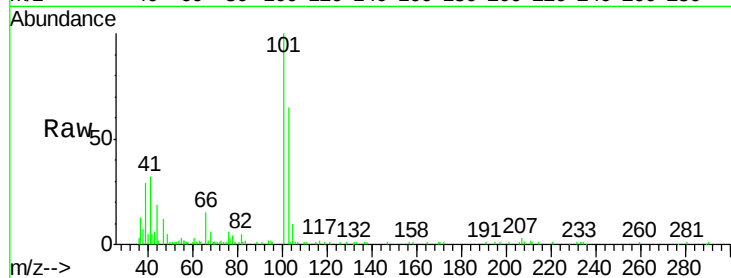
Trichlorofluoromethane
Concen: 23.146 ug/l
RT: 1.55 min Scan# 103
Delta R.T. -0.01 min
Lab File: VF062395.D
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ClientSampleId :
VF0509SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.5	48.5	72.7

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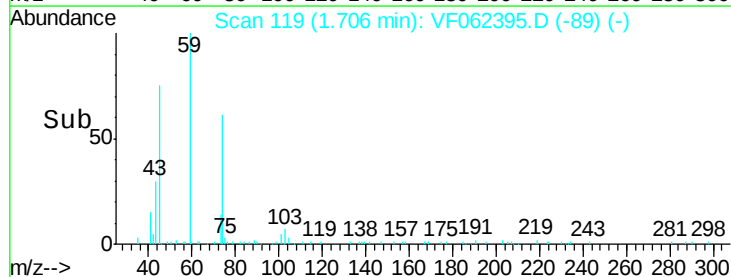
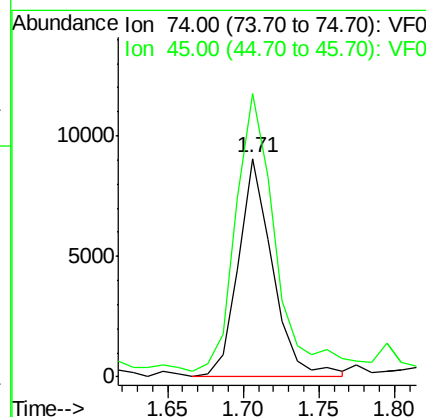
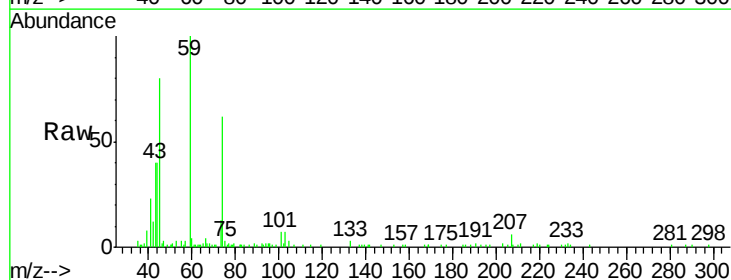
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5/10/2019 11:03:35 AM



#8

Diethyl Ether
Concen: 18.390 ug/l
RT: 1.71 min Scan# 119
Delta R.T. -0.00 min
Lab File: VF062395.D
Acq: 9 May 2019 14:58

Tgt Ion	Ratio	Lower	Upper
74	100		
45	147.6	73.9	221.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.298 ug/l

RT: 1.89 min Scan# 138

Delta R.T. -0.02 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

Instrument :

MSVOA_F

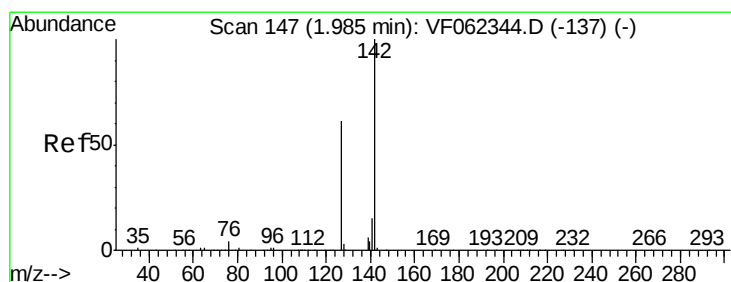
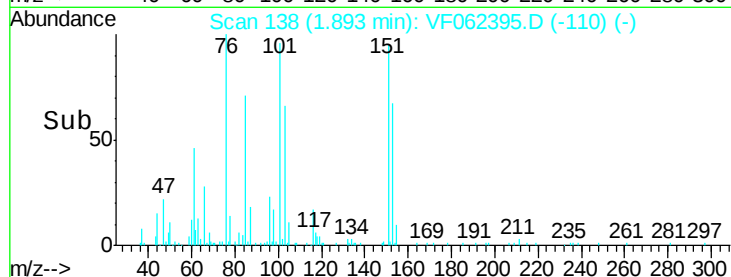
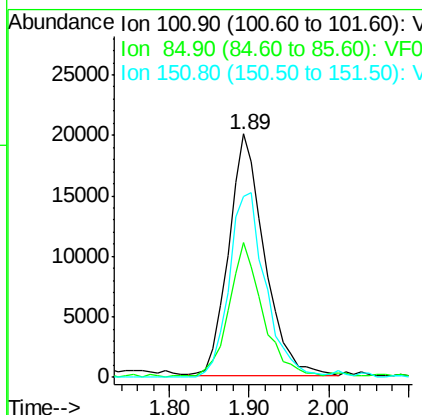
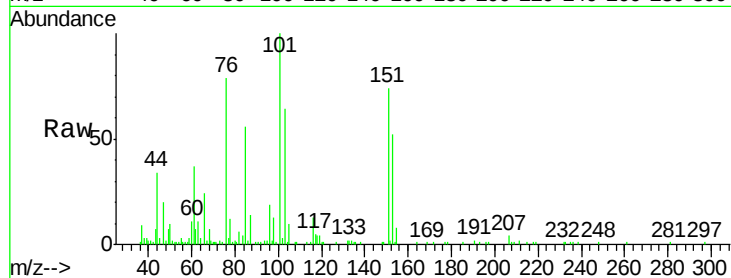
ClientSampled :

VF0509SBS01

Tot Ion:	101	Resp:	62438
Ion Ratio	Lower	Upper	
101	100		
85	53.4	39.5	59.3
151	77.9	59.9	89.9

Manual Integrations
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5/10/2019 11:03:35 AM



#10

Methyl Iodide

Concen: 22.450 ug/l

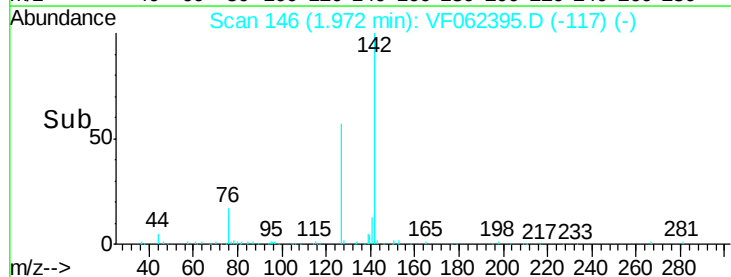
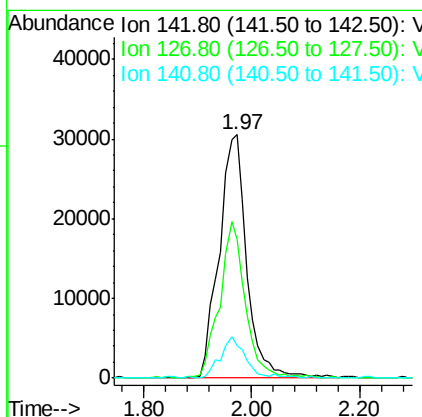
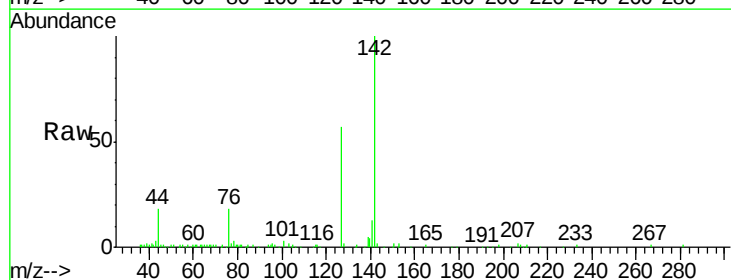
RT: 1.97 min Scan# 146

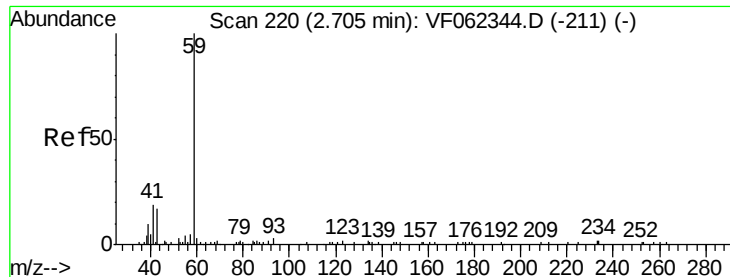
Delta R.T. -0.01 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

Tgt Ion:	142	Resp:	108458
Ion Ratio	Lower	Upper	
142	100		
127	59.0	48.4	72.6
141	14.9	12.2	18.4





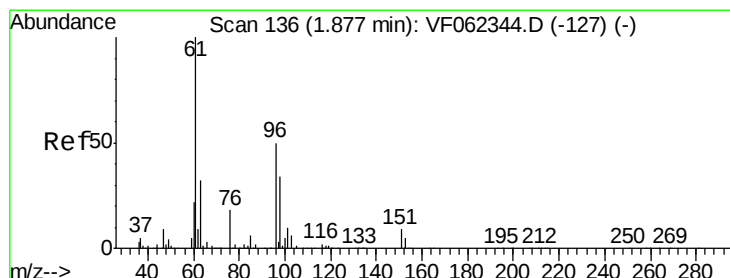
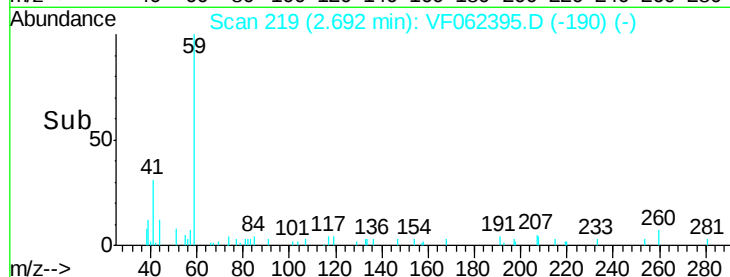
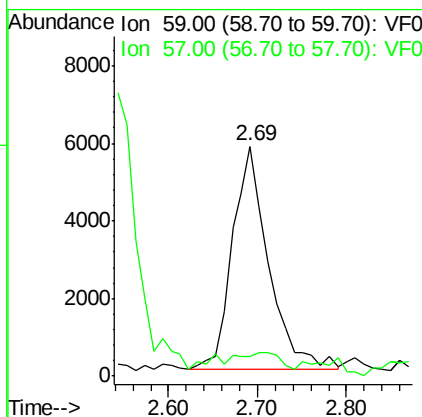
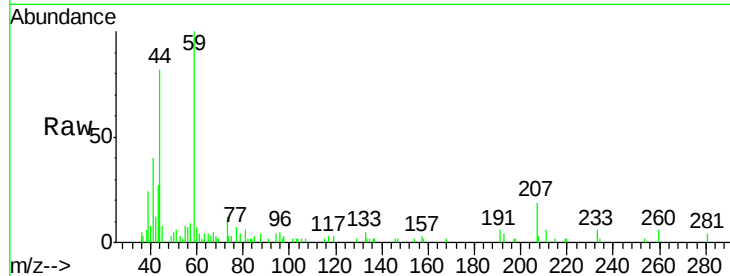
#11
Tert butyl alcohol
Concen: 93.751 ug/l
RT: 2.69 min Scan# 219
Delta R.T. -0.01 min
Lab File: VF062395.D
Acq: 9 May 2019 14:58

Instrument :
MSVOA_F
ClientSampleId :
VF0509SBS01

Tot Ion	Ratio	Resp	Lower	Upper
59	100	16277		
57	8.7	9.3	13.9	

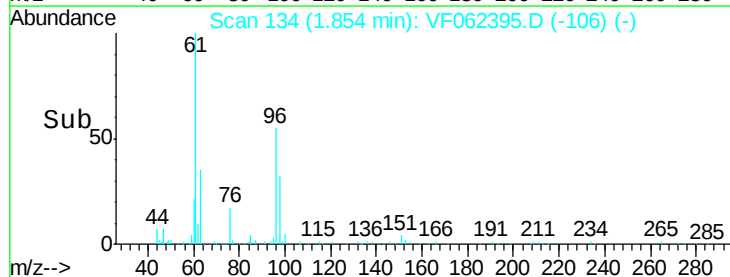
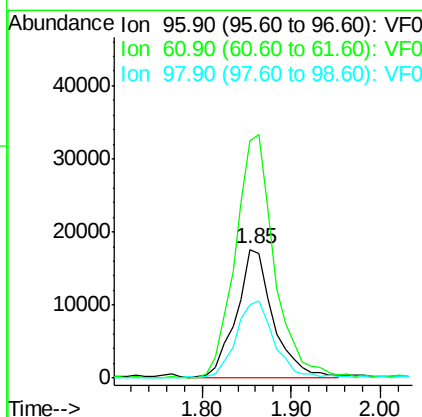
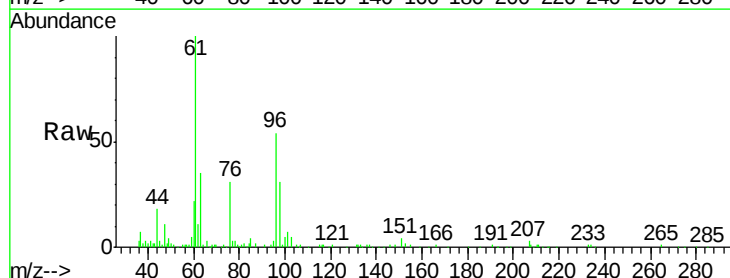
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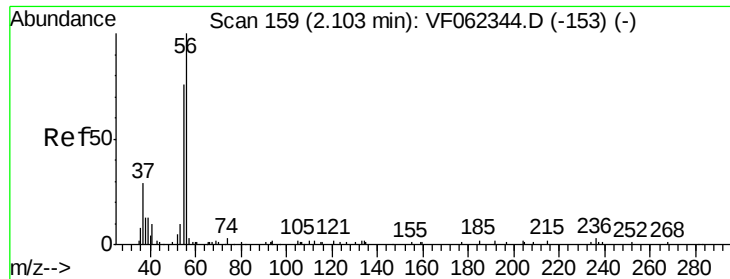
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#12
1,1-Dichloroethene
Concen: 19.858 ug/l
RT: 1.85 min Scan# 134
Delta R.T. -0.02 min
Lab File: VF062395.D
Acq: 9 May 2019 14:58

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	49491		
61	185.5	163.2	244.8	
98	56.6	55.2	82.8	





#13

Acrolein

Concen: 92.212 ug/l

RT: 2.09 min Scan# 158

Delta R.T. -0.01 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

Tot Ion: 56 Resp: 11326

Ion Ratio Lower Upper

56 100

55 77.9 58.4 87.6

Instrument :

MSVOA_F

ClientSampleId :

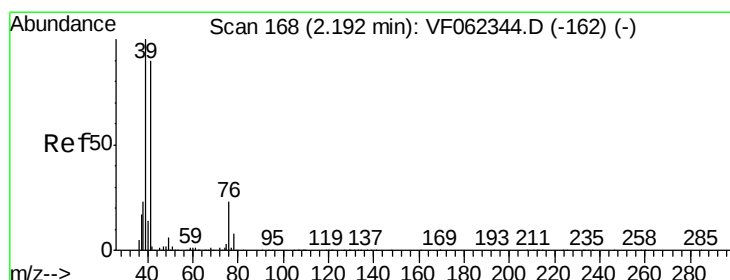
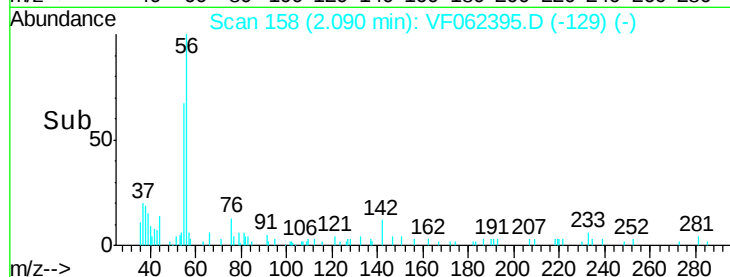
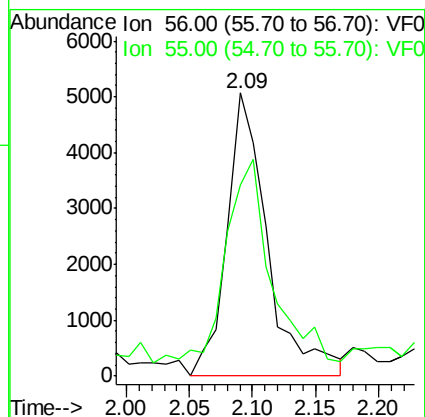
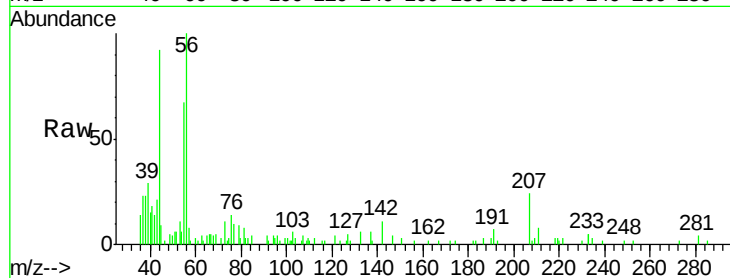
VF0509SBS01

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#14

Allyl chloride

Concen: 35.439 ug/l

RT: 2.19 min Scan# 168

Delta R.T. -0.00 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

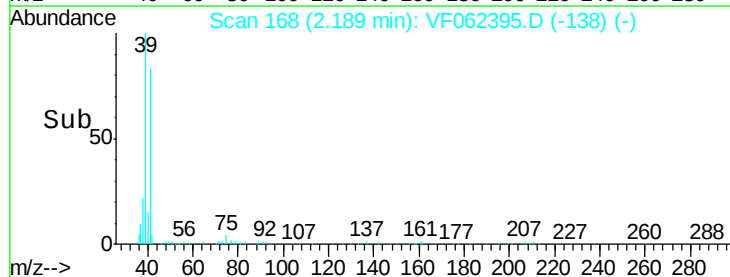
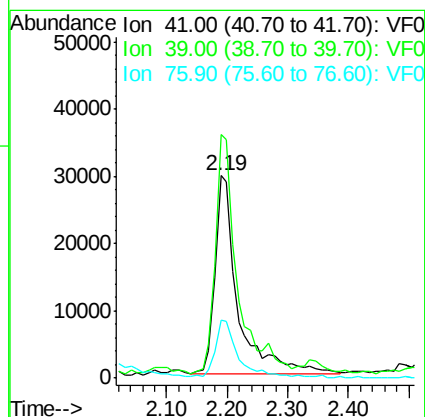
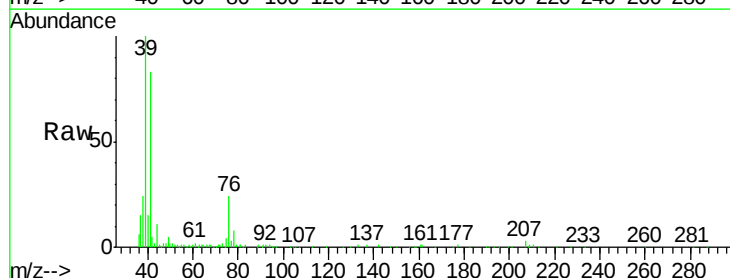
Tgt Ion: 41 Resp: 78020

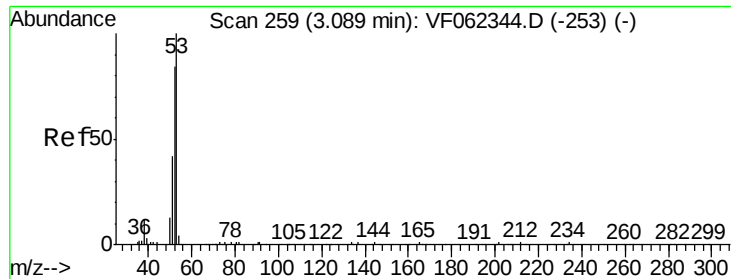
Ion Ratio Lower Upper

41 100

39 115.7 90.8 136.2

76 28.2 22.2 33.4





#15

Acrylonitrile

Concen: 100.095 ug/l

RT: 3.08 min Scan# 258

Delta R.T. -0.01 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

Instrument :

MSVOA_F

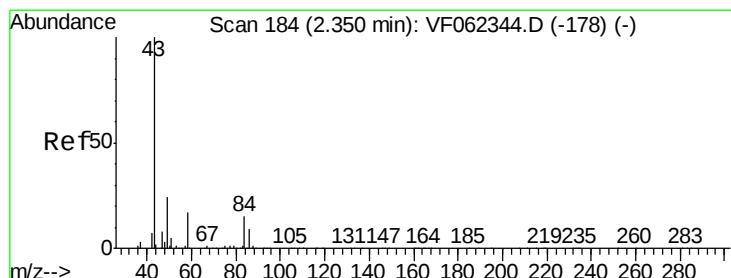
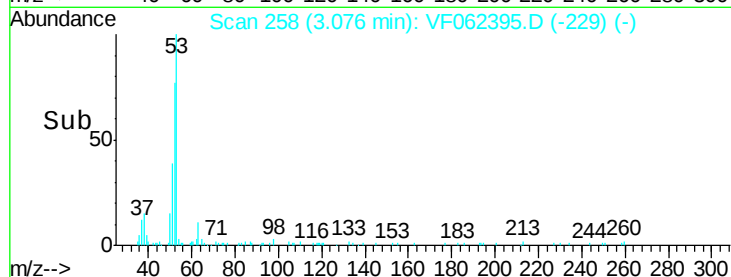
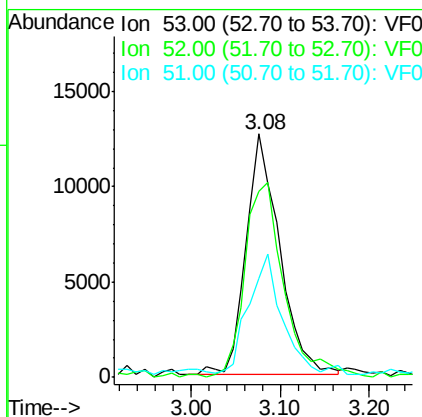
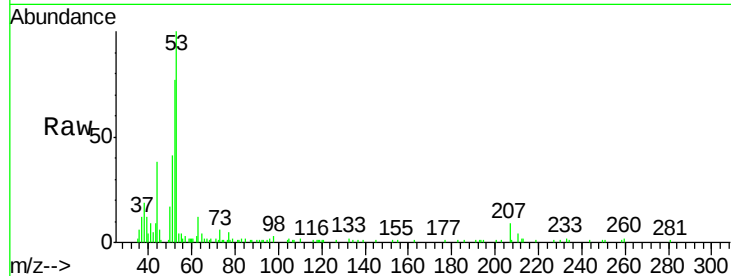
ClientSampleId :

VF0509SBS01

Tot Ion:	53	Resp:	32919
Ion	Ratio	Lower	Upper
53	100		
52	94.8	77.2	115.8
51	48.4	40.6	61.0

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#16

Acetone

Concen: 106.474 ug/l

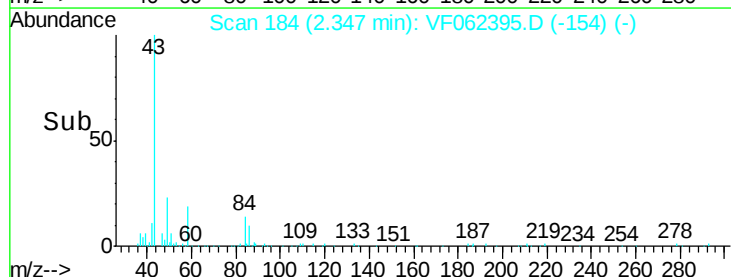
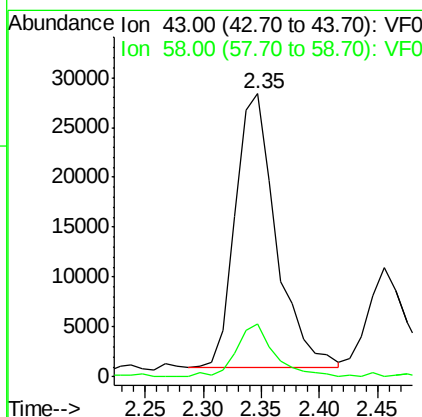
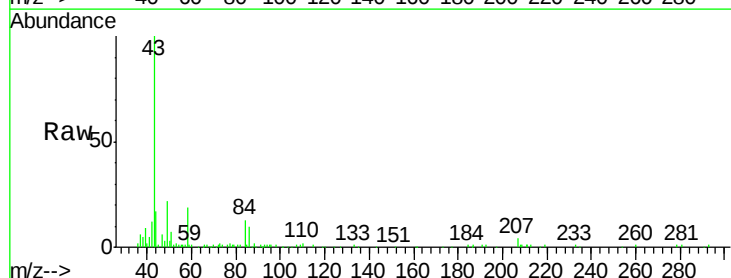
RT: 2.35 min Scan# 184

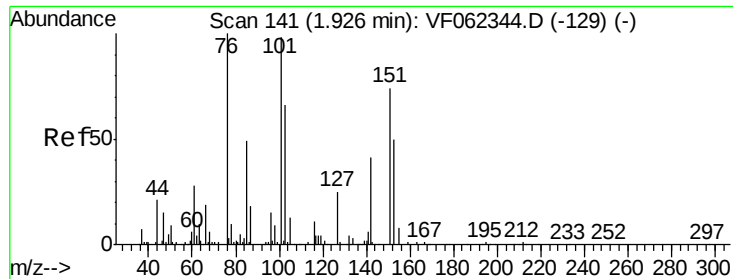
Delta R.T. -0.00 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

Tgt Ion:	43	Resp:	66167
Ion	Ratio	Lower	Upper
43	100		
58	19.5	13.1	19.7





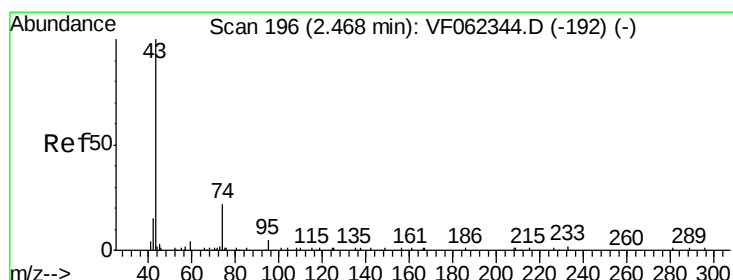
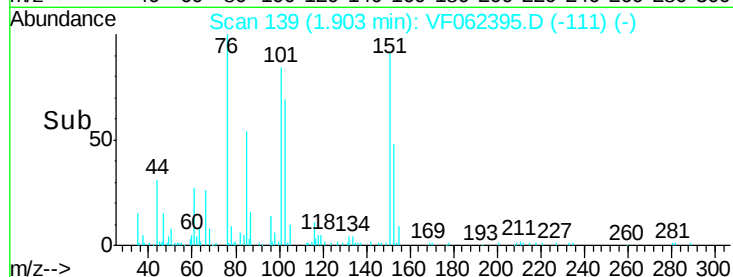
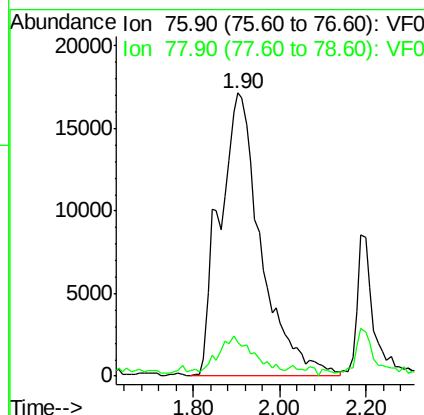
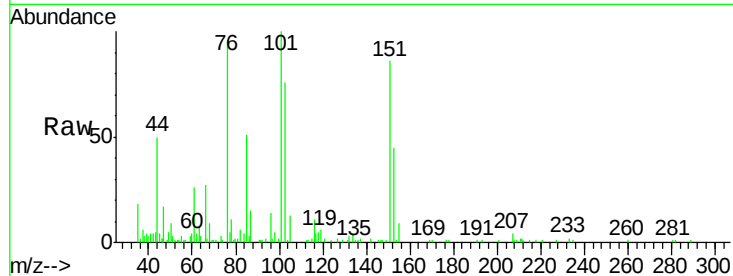
#17
Carbon Disulfide
Concen: 21.069 ug/l
RT: 1.90 min Scan# 139
Delta R.T. -0.02 min
Lab File: VF062395.D
Acq: 9 May 2019 14:58

Instrument :
MSVOA_F
ClientSampleId :
VF0509SBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	10.4	9.0	13.4

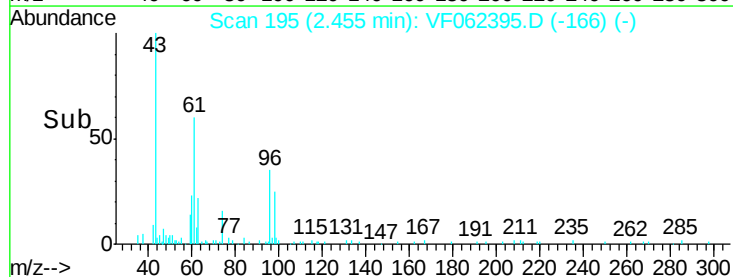
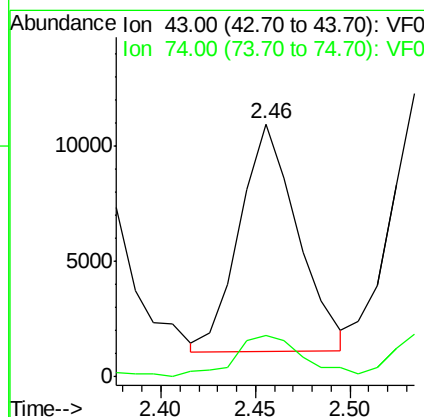
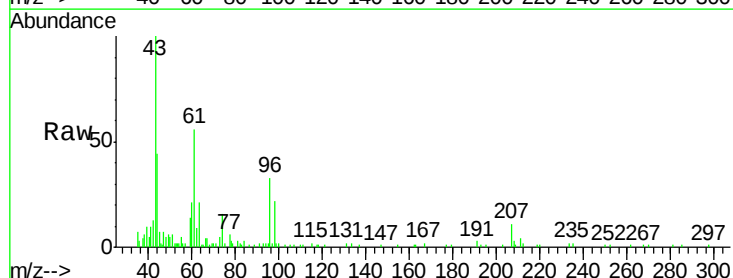
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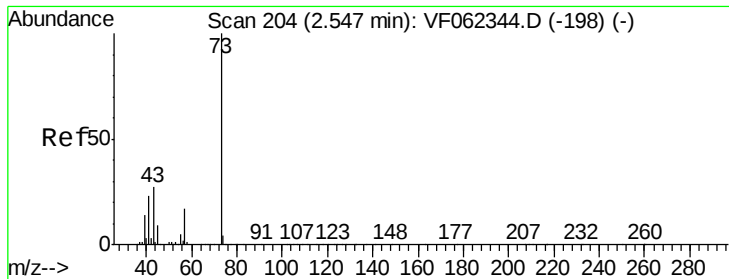
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#18
Methyl Acetate
Concen: 16.490 ug/l
RT: 2.46 min Scan# 195
Delta R.T. -0.01 min
Lab File: VF062395.D
Acq: 9 May 2019 14:58

Tgt Ion	Ratio	Lower	Upper
43	100		
74	21.6	15.0	22.4





#19

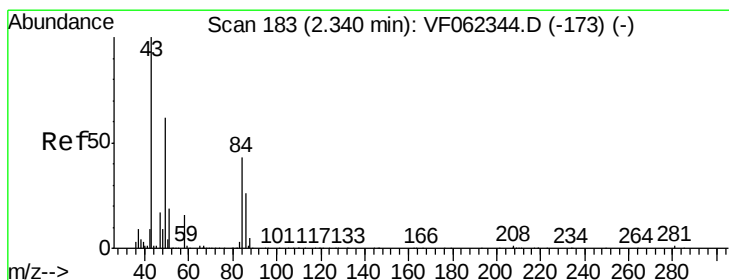
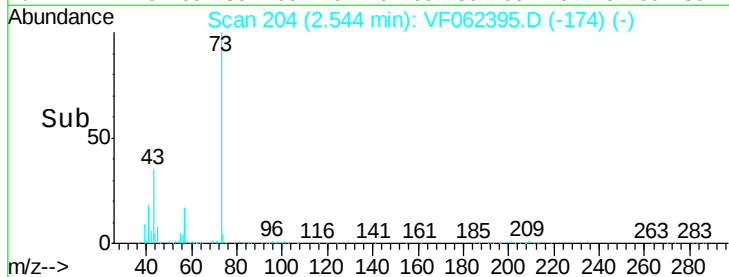
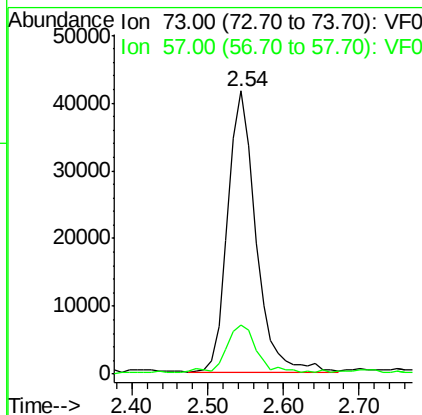
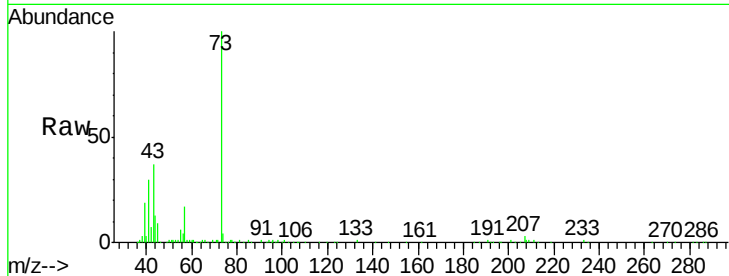
Methyl tert-butyl Ether
 Concen: 20.700 ug/l
 RT: 2.54 min Scan# 204
 Delta R.T. -0.00 min
 Lab File: VF062395.D
 Acq: 9 May 2019 14:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0509SBS01

Tot Ion	73	Resp	106492
Ion Ratio	Lower	Upper	
73	100		
57	16.4	13.7	20.5

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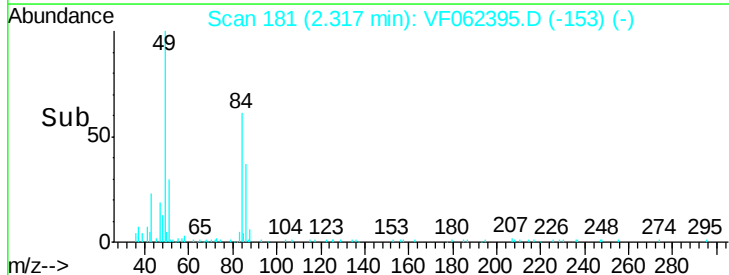
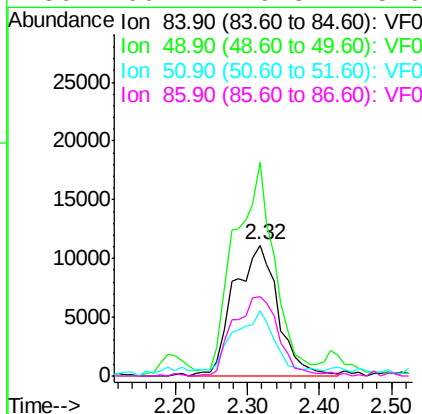
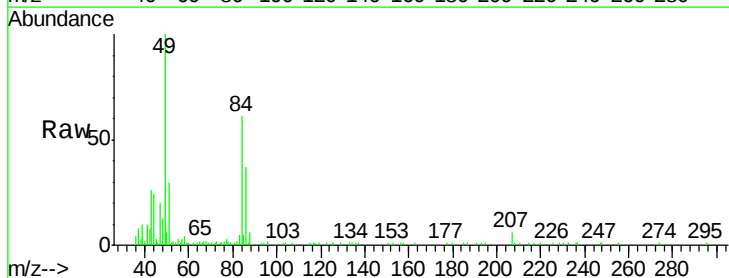
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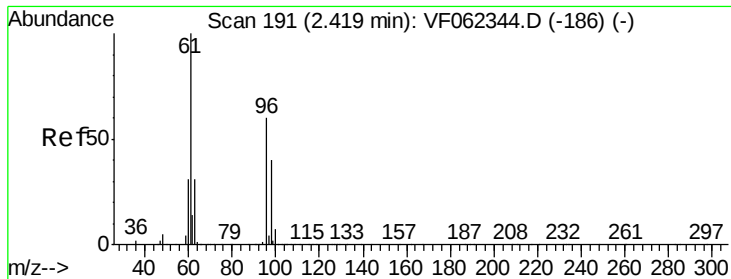


#20

Methylene Chloride
 Concen: 21.133 ug/l
 RT: 2.32 min Scan# 181
 Delta R.T. -0.02 min
 Lab File: VF062395.D
 Acq: 9 May 2019 14:58

Tgt Ion	84	Resp	47514
Ion Ratio	Lower	Upper	
84	100		
49	155.3	117.5	176.3
51	45.5	37.0	55.4
86	60.7	49.3	73.9





#21

trans-1,2-Dichloroethene

Concen: 21.144 ug/l

RT: 2.42 min Scan# 191

Delta R.T. -0.00 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

Instrument :

MSVOA_F

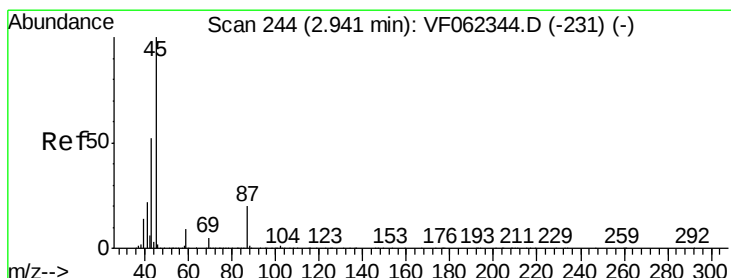
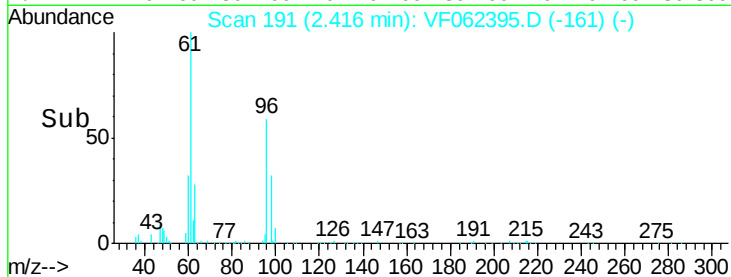
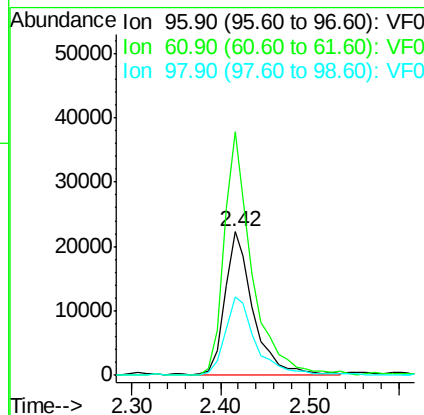
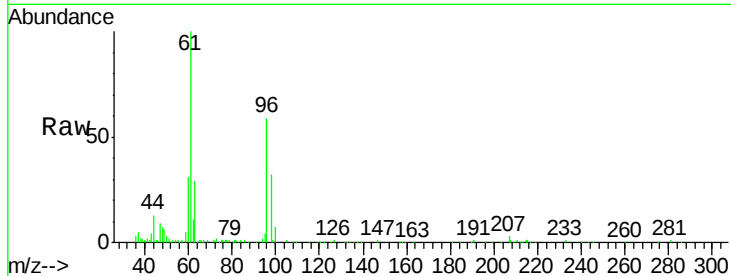
ClientSampleId :

VF0509SBS01

Tot Ion:	96	Resp:	50206
Ion	Ratio	Lower	Upper
96	100		
61	169.8	133.2	199.8
98	54.3	53.1	79.7

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#22

Diisopropyl ether

Concen: 20.985 ug/l

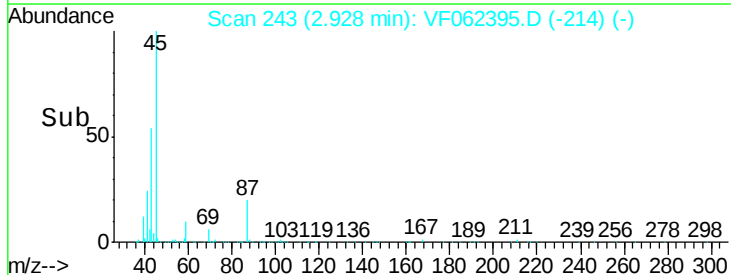
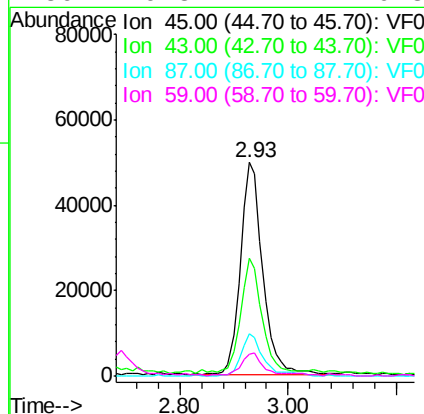
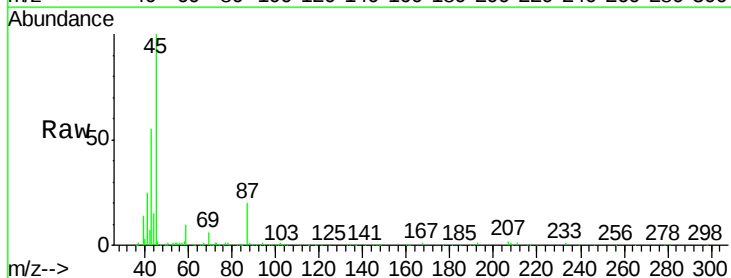
RT: 2.93 min Scan# 243

Delta R.T. -0.01 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

Tgt Ion:	45	Resp:	144393
Ion	Ratio	Lower	Upper
45	100		
43	53.8	41.4	62.0
87	20.2	15.8	23.6
59	9.8	7.2	10.8





#23

Vinyl Acetate

Concen: 100.530 ug/l

RT: 3.34 min Scan# 285

Delta R.T. -0.00 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

Instrument :

MSVOA_F

ClientSampleID :

VF0509SBS01

Tot Ion: 43 Resp: 308288

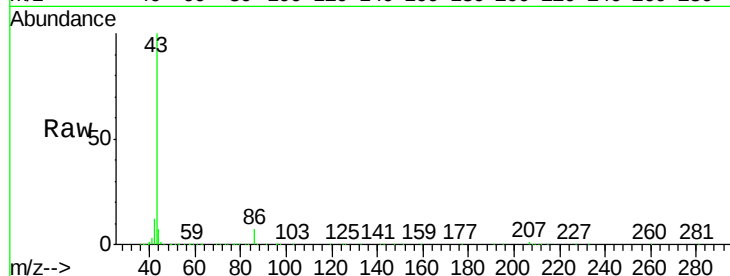
Ion Ratio Lower Upper

43 100

86 7.1 5.7 8.5

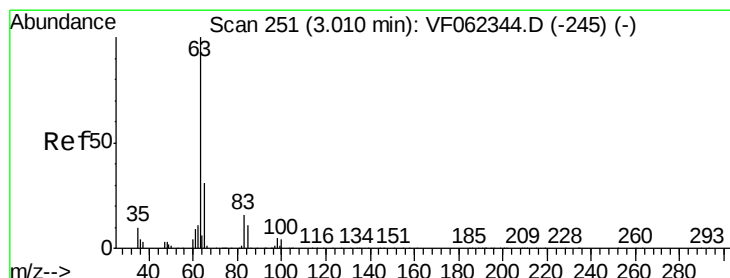
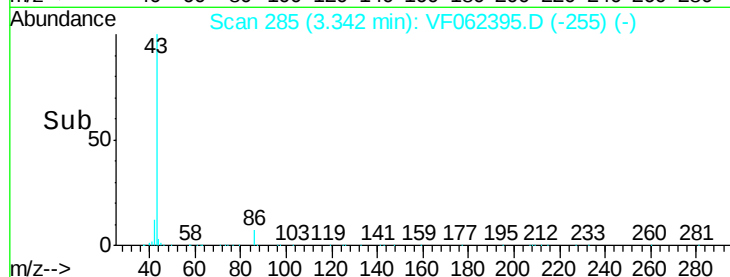
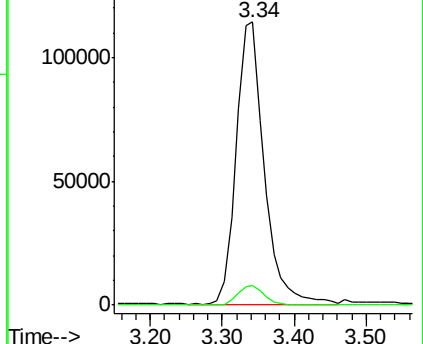
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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 22.272 ug/l

RT: 3.01 min Scan# 251

Delta R.T. -0.00 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

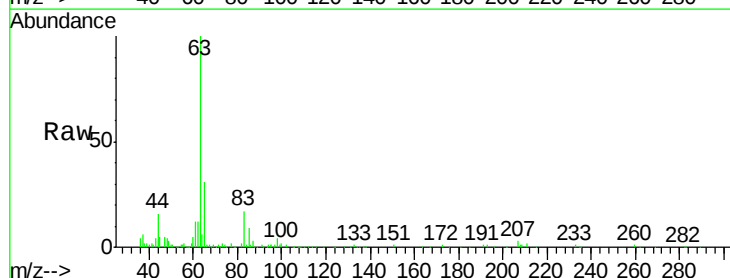
Tgt Ion: 63 Resp: 92620

Ion Ratio Lower Upper

63 100

98 4.0 2.6 8.0

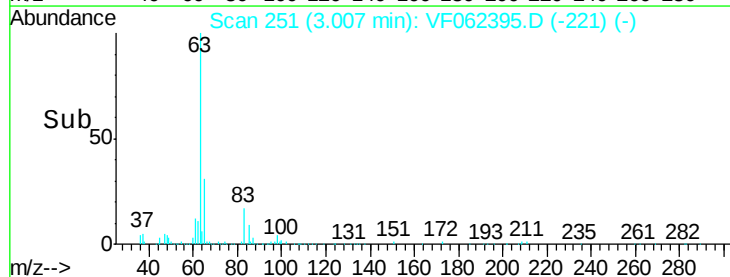
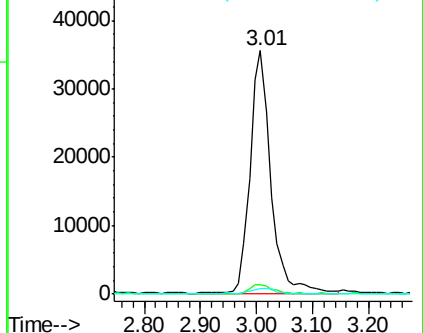
100 2.2 1.8 5.4

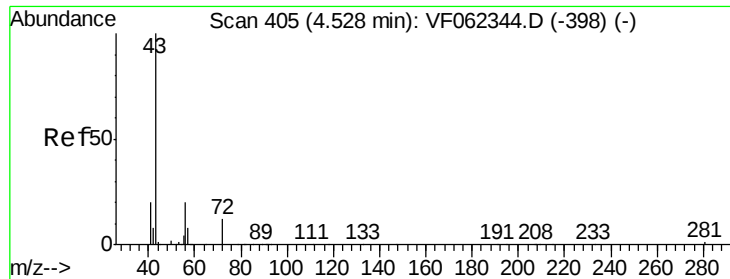


Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 97.90 (97.60 to 98.60): VF0

Ion 99.90 (99.60 to 100.60): VF0





#25

2-Butanone

Concen: 104.300 ug/l

RT: 4.52 min Scan# 404

Delta R.T. -0.01 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

Tot Ion: 43 Resp: 81430

Ion Ratio Lower Upper

43 100

72 17.8 14.2 21.4

Instrument :

MSVOA_F

ClientSampleId :

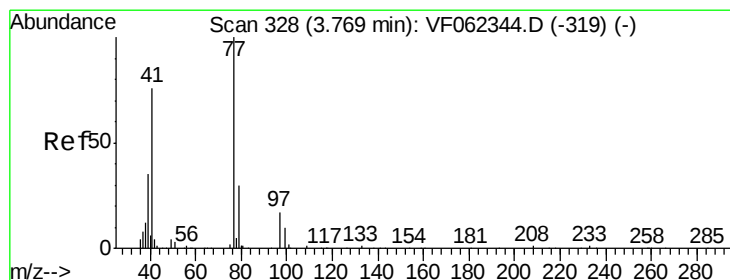
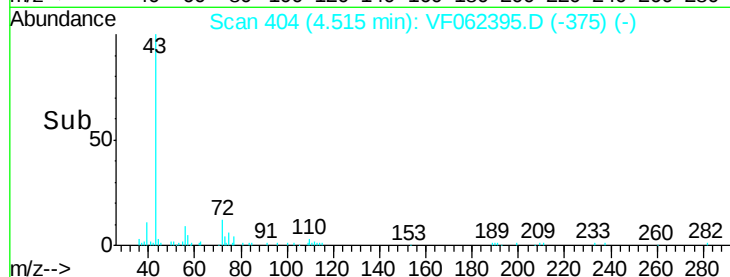
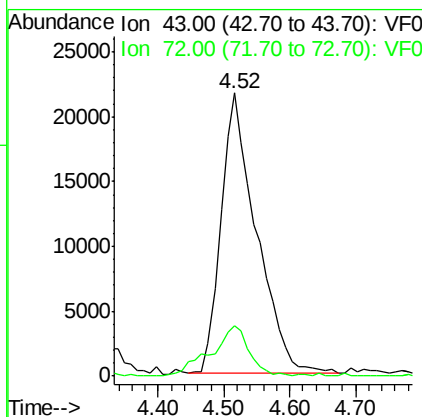
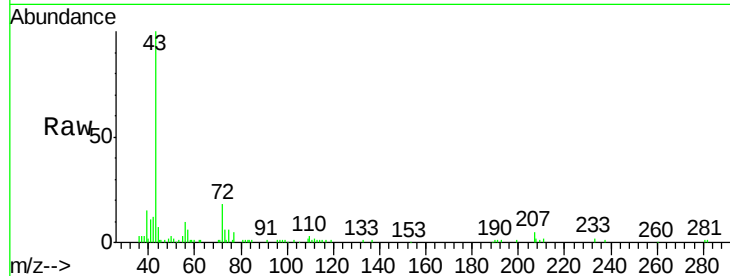
VF0509SBS01

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#26

2,2-Dichloropropane

Concen: 25.202 ug/l

RT: 3.77 min Scan# 328

Delta R.T. -0.00 min

Lab File: VF062395.D

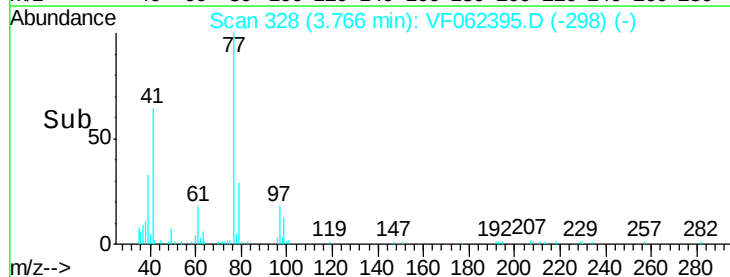
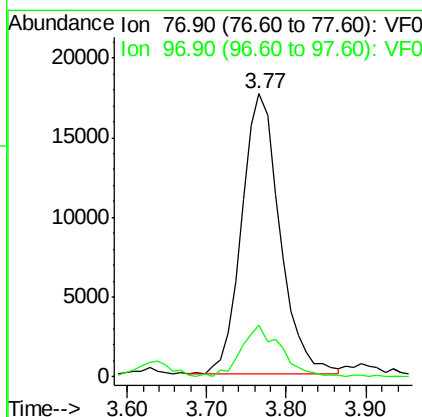
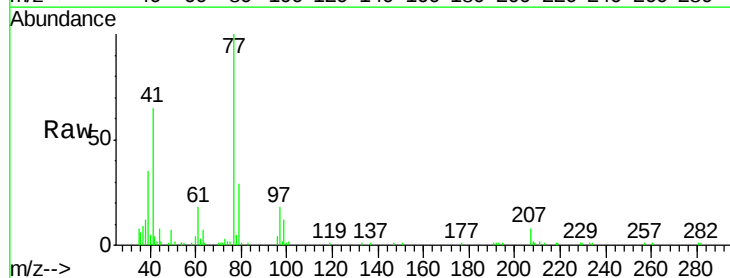
Acq: 9 May 2019 14:58

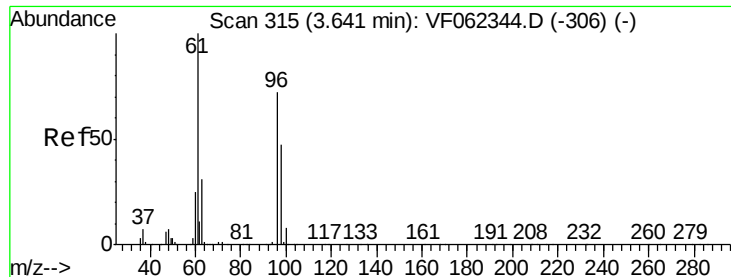
Tgt Ion: 77 Resp: 58527

Ion Ratio Lower Upper

77 100

97 19.0 9.5 28.5





#27

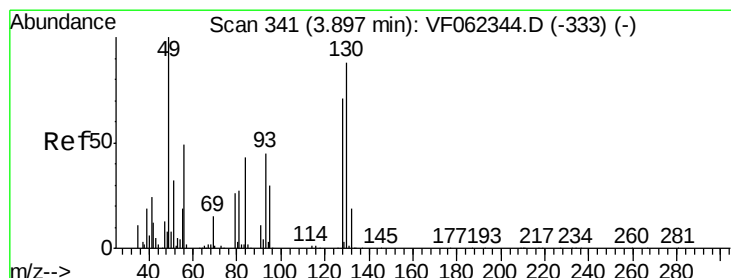
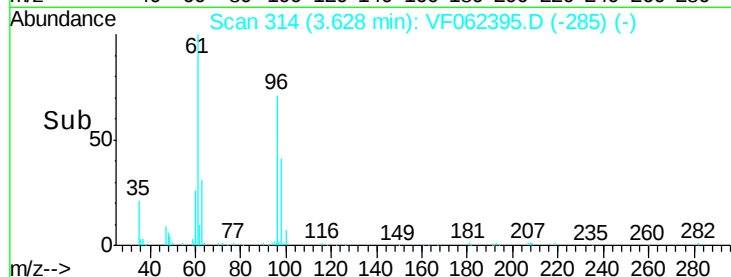
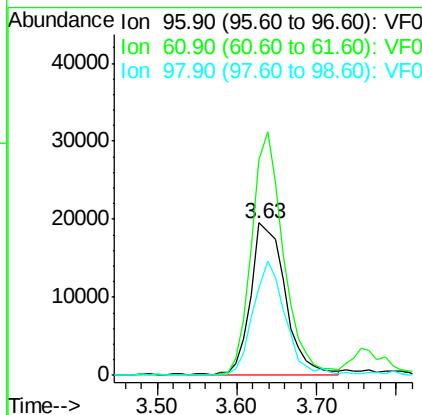
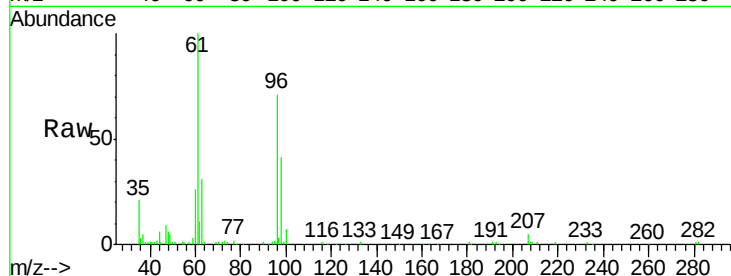
cis-1,2-Dichloroethene
 Concen: 19.905 ug/l
 RT: 3.63 min Scan# 314
 Delta R.T. -0.01 min
 Lab File: VF062395.D
 Acq: 9 May 2019 14:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0509SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	145.8	0.0	263.0
98	69.0	0.0	130.8

Manual Integrations
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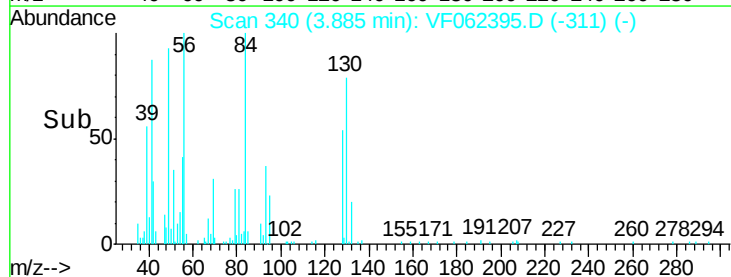
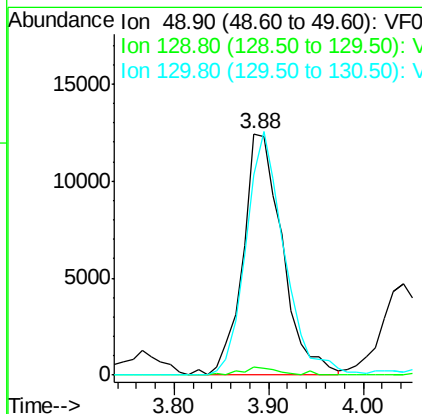
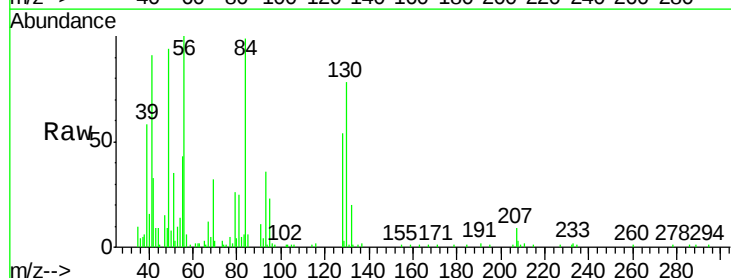
MMDadoda
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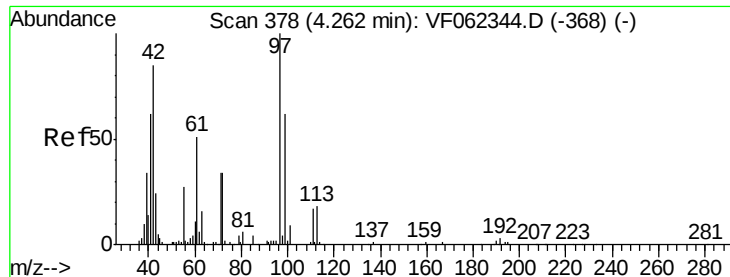


#28

Bromochloromethane
 Concen: 19.023 ug/l
 RT: 3.88 min Scan# 340
 Delta R.T. -0.01 min
 Lab File: VF062395.D
 Acq: 9 May 2019 14:58

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.9	0.0	2.2#
130	98.4	79.4	119.0





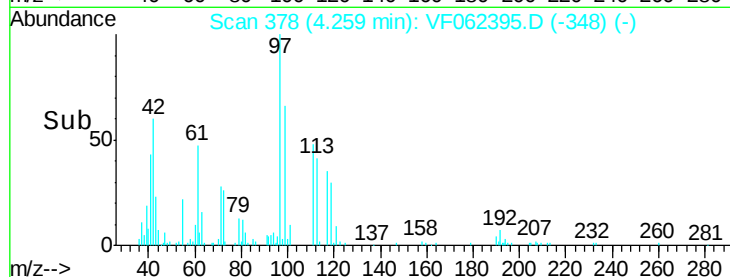
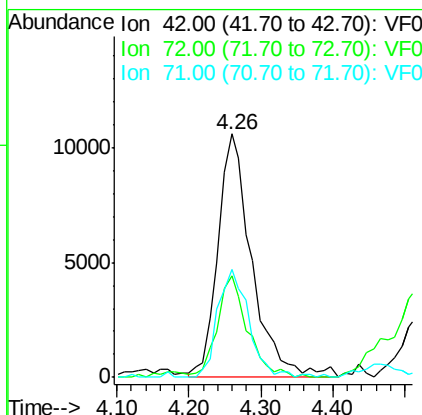
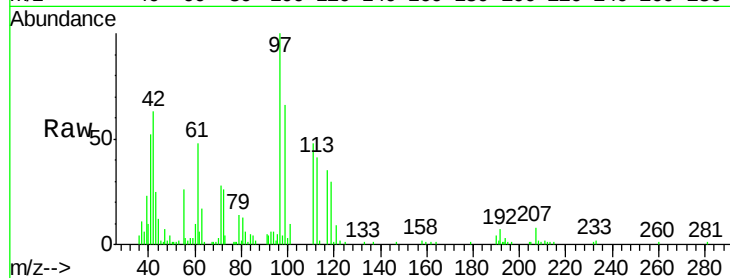
#29
Tetrahydrofuran
Concen: 96.294 ug/l
RT: 4.26 min Scan# 378
Delta R.T. -0.00 min
Lab File: VF062395.D
Acq: 9 May 2019 14:58

Instrument :
MSVOA_F
ClientSampleId :
VF0509SBS01

Tot Ion	Ratio	Resp	Lower	Upper
42	100	34552		
72	37.2		31.4	47.0
71	40.7		31.7	47.5

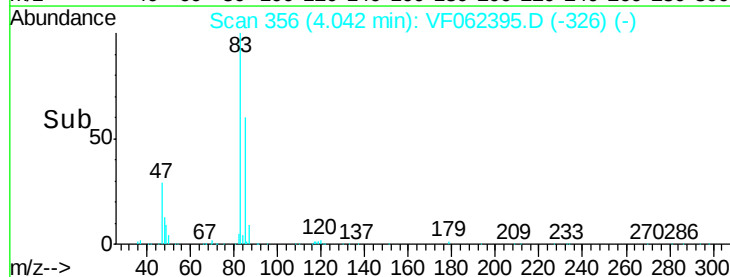
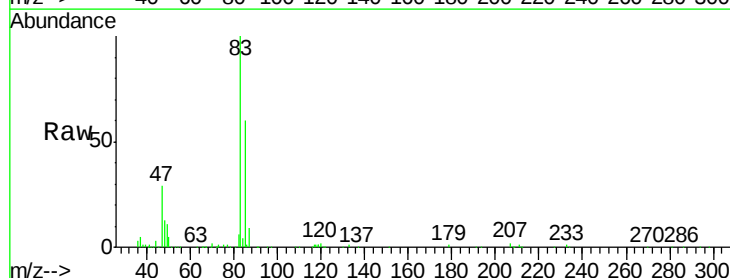
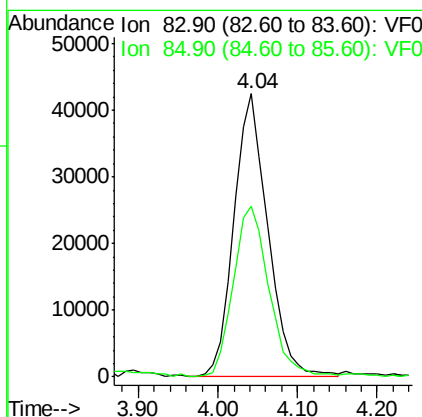
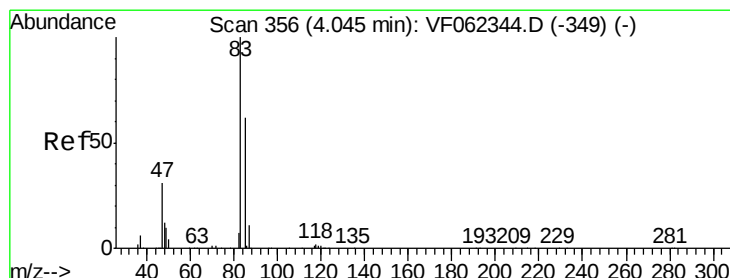
Manual Integrations
APPROVED

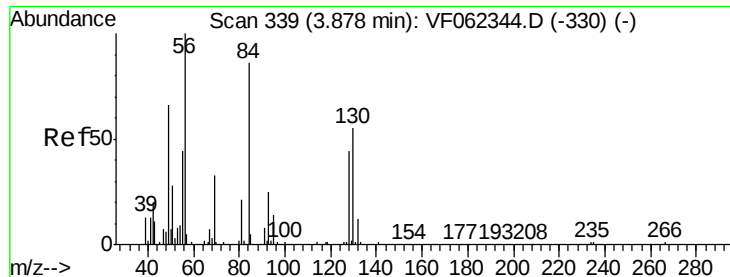
MMDadoda
5/10/2019 11:03:35 AM



#30
Chloroform
Concen: 22.447 ug/l
RT: 4.04 min Scan# 356
Delta R.T. -0.00 min
Lab File: VF062395.D
Acq: 9 May 2019 14:58

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	126109		
85	59.8		49.6	74.4





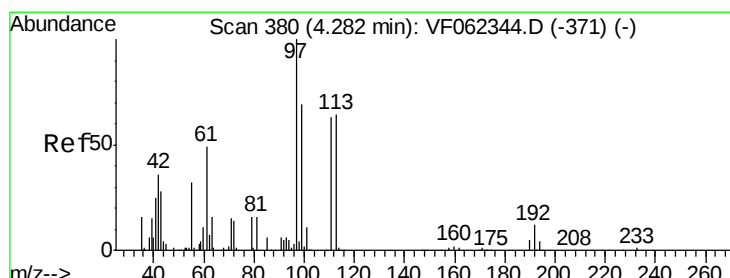
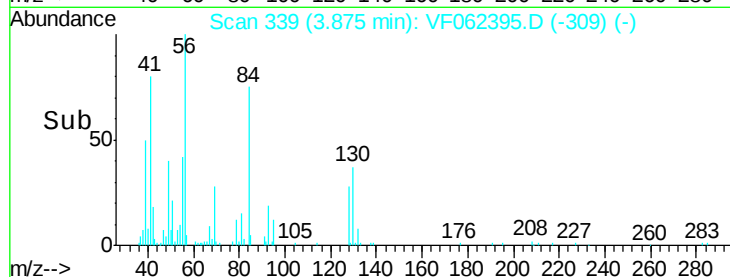
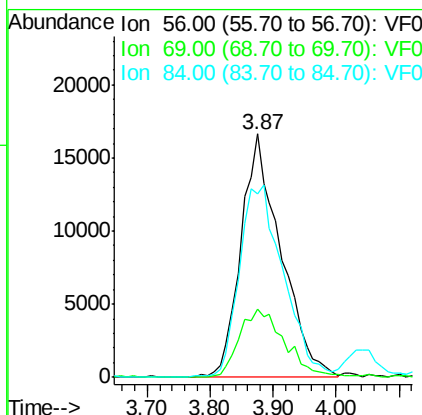
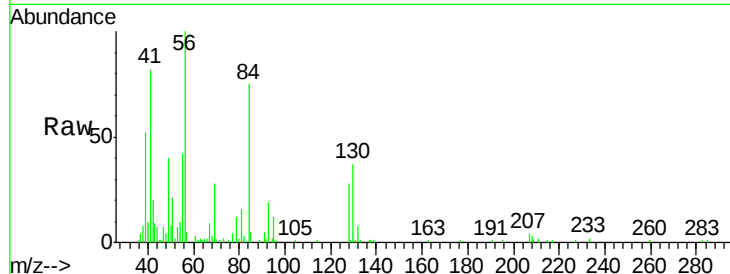
#31
Cyclohexane
Concen: 21.965 ug/l
RT: 3.87 min Scan# 339
Delta R.T. -0.00 min
Lab File: VF062395.D
Acq: 9 May 2019 14:58

Instrument :
MSVOA_F
ClientSampleId :
VF0509SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	27.9	26.4	39.6
84	75.4	69.0	103.6

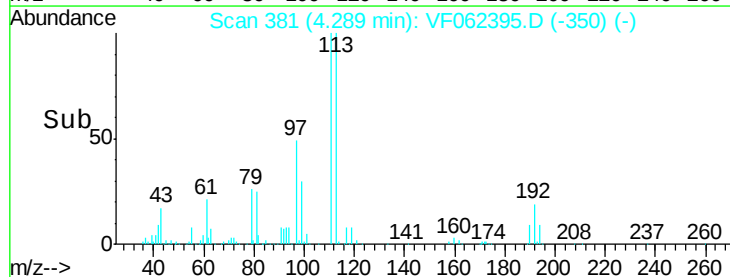
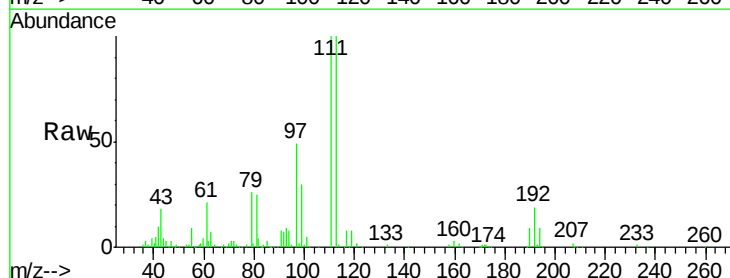
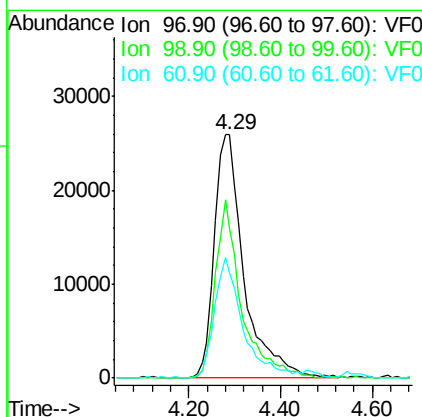
Manual Integrations
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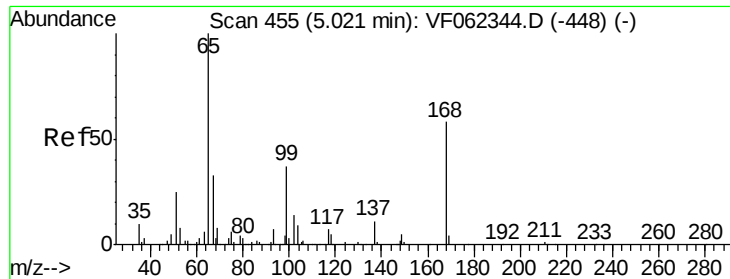
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5/10/2019 11:03:35 AM



#32
1,1,1-Trichloroethane
Concen: 24.169 ug/l
RT: 4.29 min Scan# 381
Delta R.T. 0.01 min
Lab File: VF062395.D
Acq: 9 May 2019 14:58

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.0	52.6	78.8
61	46.7	39.4	59.0





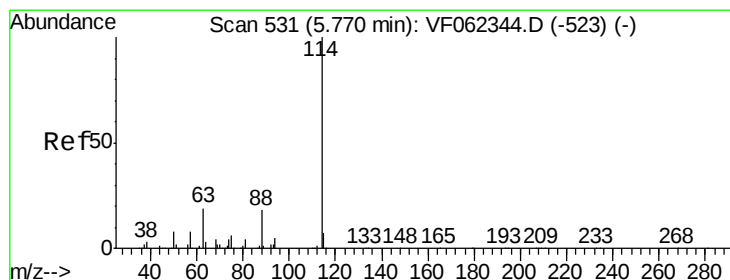
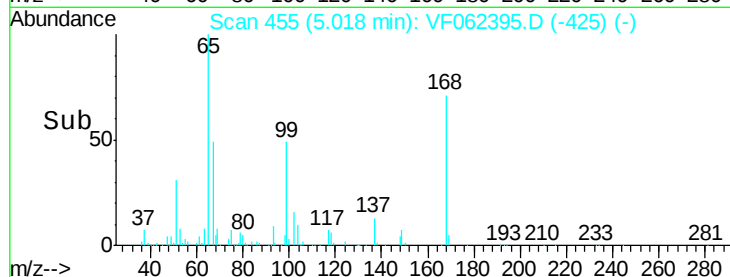
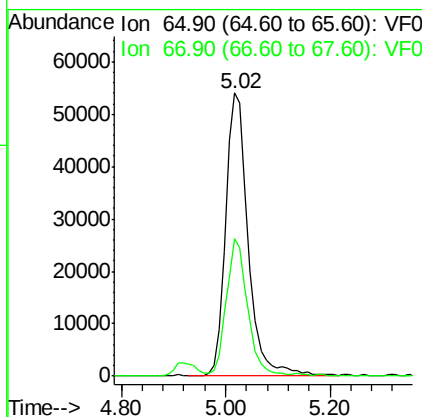
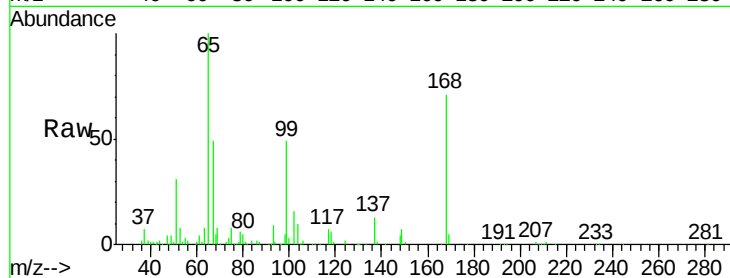
#33
 1,2-Dichloroethane-d4
 Concen: 52.629 ug/l
 RT: 5.02 min Scan# 455
 Delta R.T. -0.00 min
 Lab File: VF062395.D
 Acq: 9 May 2019 14:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0509SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	161675		
67	46.3	0.0	85.8	

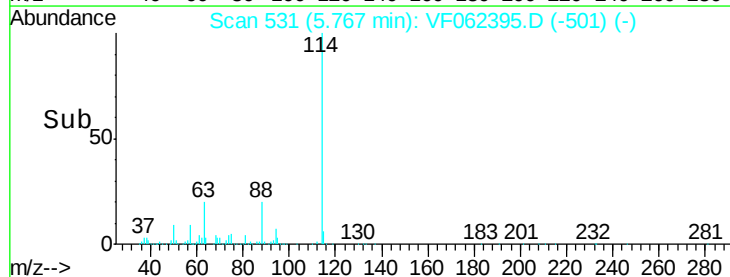
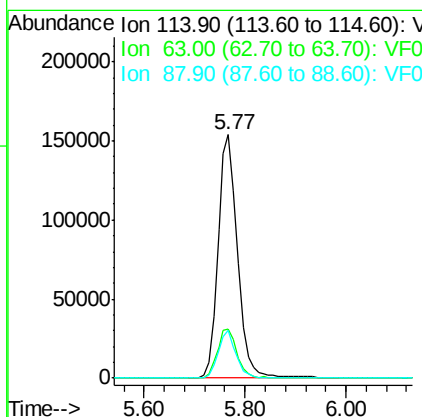
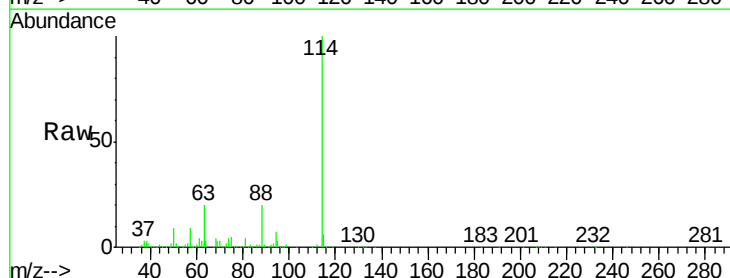
Manual Integrations
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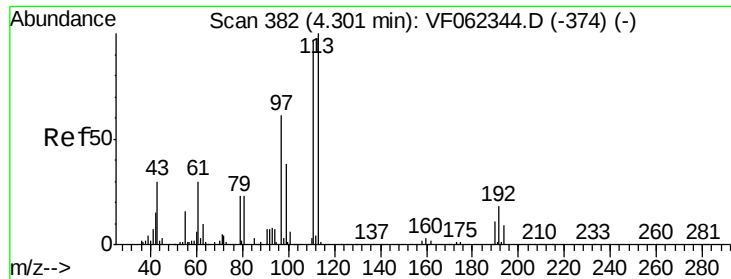
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 5/10/2019 11:03:35 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.77 min Scan# 531
 Delta R.T. -0.00 min
 Lab File: VF062395.D
 Acq: 9 May 2019 14:58

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	416703		
63	20.1	0.0	37.4	
88	19.8	0.0	36.4	





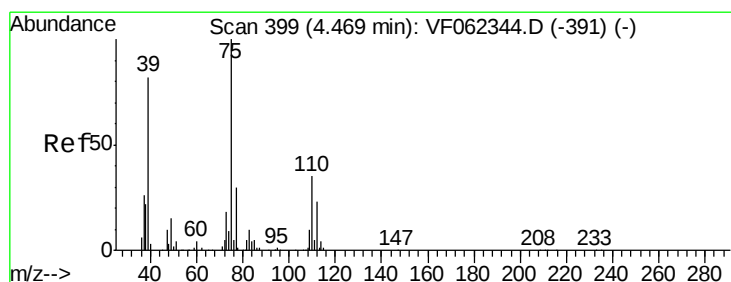
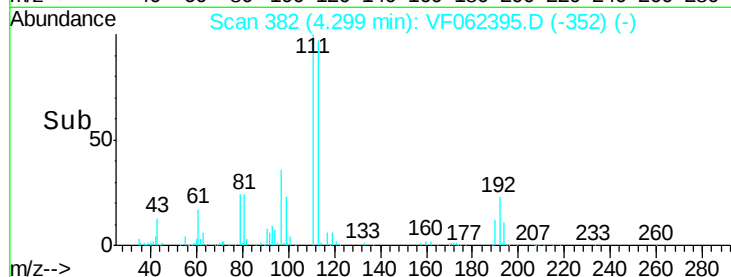
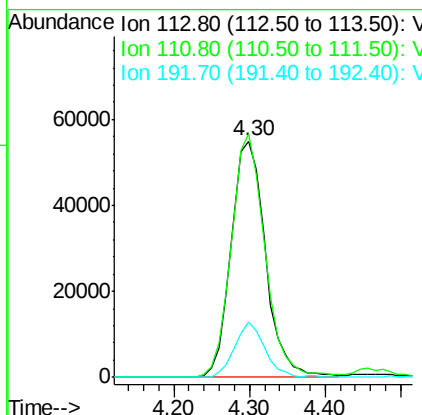
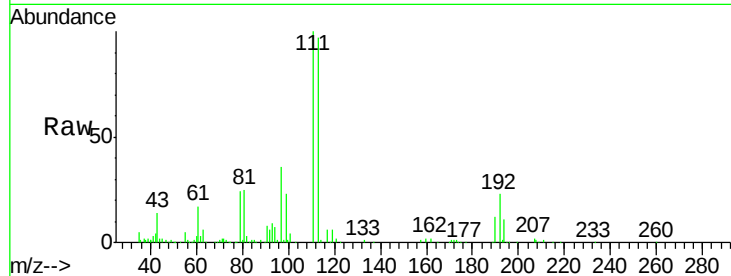
#35
Dibromofluoromethane
Concen: 52.043 ug/l
RT: 4.30 min Scan# 382
Delta R.T. -0.00 min
Lab File: VF062395.D
Acq: 9 May 2019 14:58

Instrument :
MSVOA_F
ClientSampleId :
VF0509SBS01

Tot Ion	Ratio	Lower	Upper
113	100		
111	100.9	79.4	119.0
192	20.4	16.0	24.0

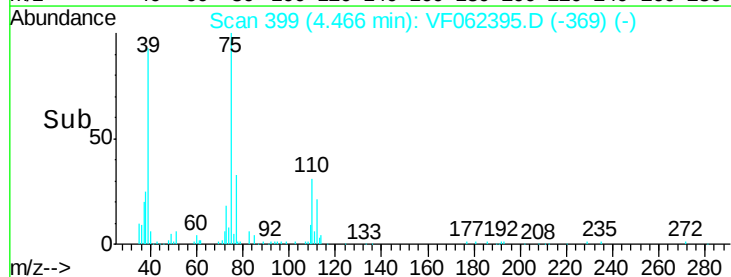
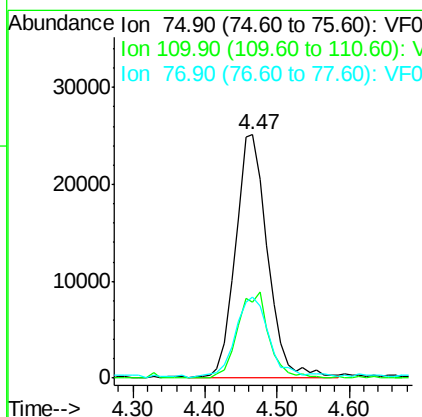
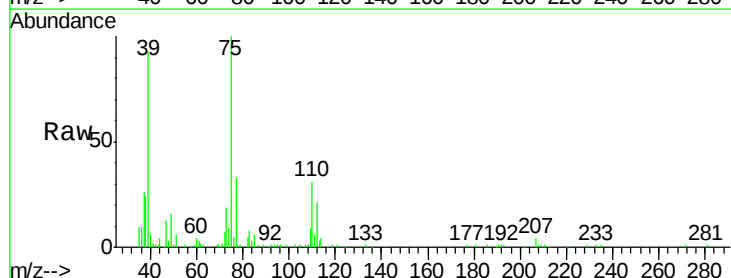
Manual Integrations
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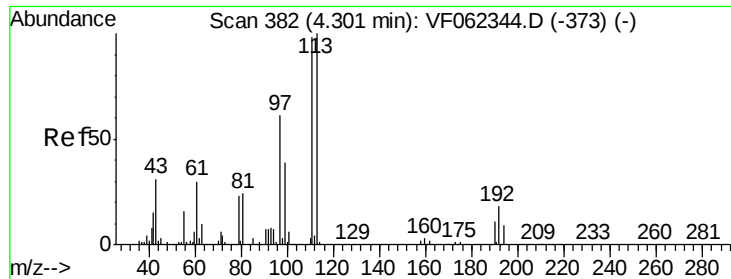
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#36
1,1-Dichloropropene
Concen: 21.916 ug/l
RT: 4.47 min Scan# 399
Delta R.T. -0.00 min
Lab File: VF062395.D
Acq: 9 May 2019 14:58

Tgt Ion	Ratio	Lower	Upper
75	100		
110	33.9	17.2	51.5
77	34.0	25.2	37.8





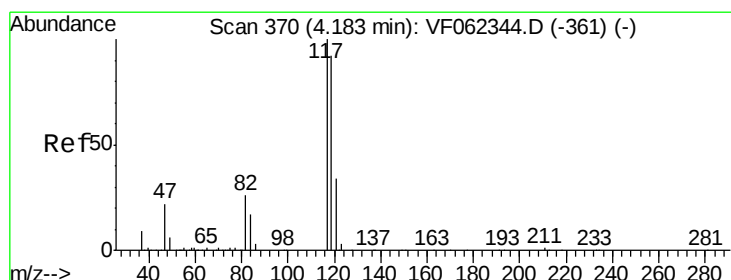
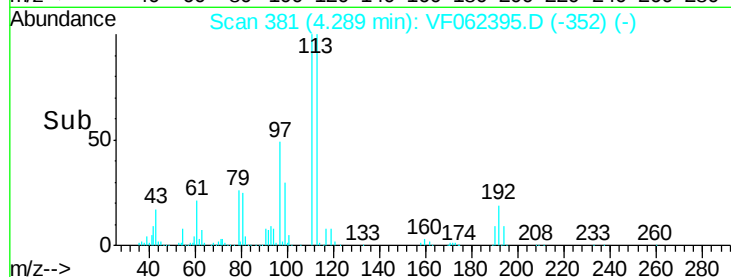
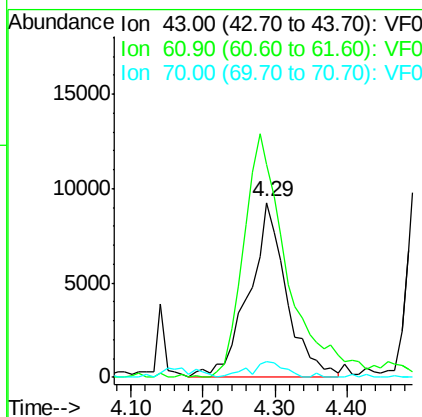
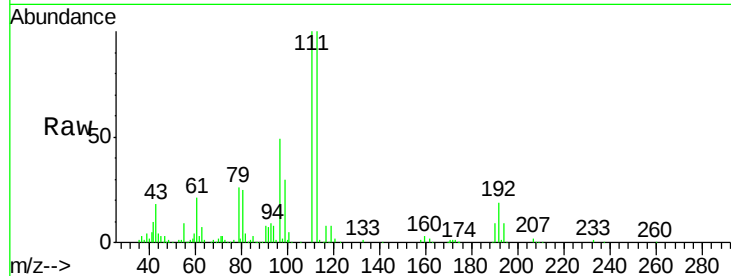
#37
Ethyl Acetate
Concen: 21.124 ug/l
RT: 4.29 min Scan# 381
Delta R.T. -0.01 min
Lab File: VF062395.D
Acq: 9 May 2019 14:58

Instrument :
MSVOA_F
ClientSampleId :
VF0509SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	161.4	0.0	0.0#
70	8.1	8.2	12.2#

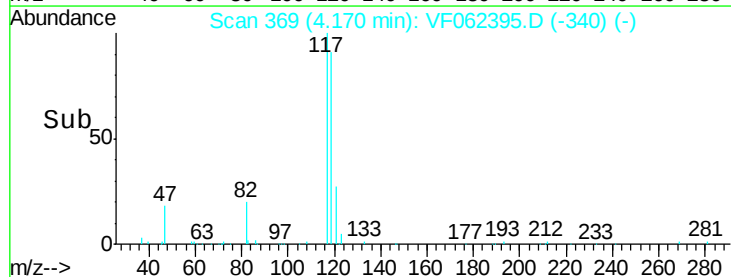
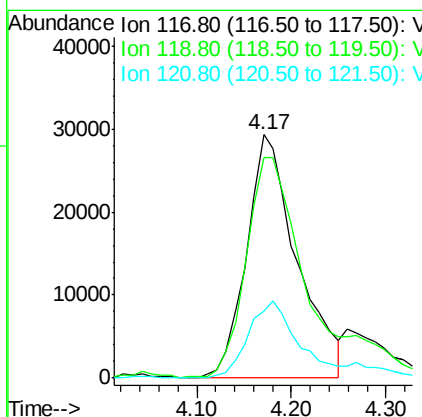
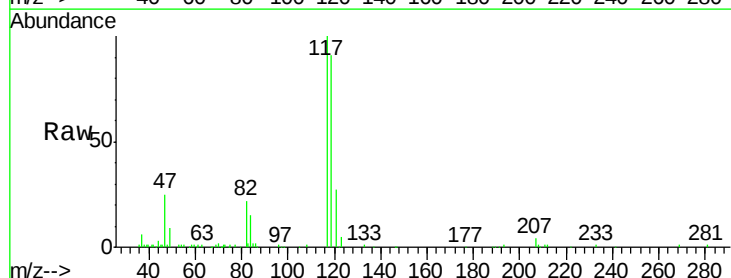
Manual Integrations
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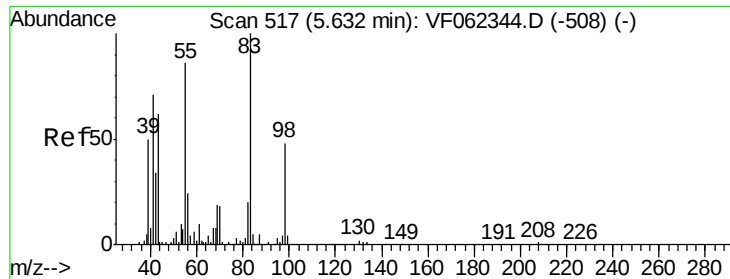
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5/10/2019 11:03:35 AM



#38
Carbon Tetrachloride
Concen: 28.026 ug/l
RT: 4.17 min Scan# 369
Delta R.T. -0.01 min
Lab File: VF062395.D
Acq: 9 May 2019 14:58

Tgt Ion	Ratio	Lower	Upper
117	100		
119	90.1	73.4	110.2
121	27.4	27.4	41.0





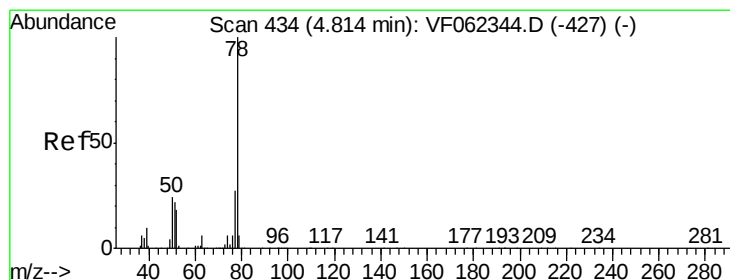
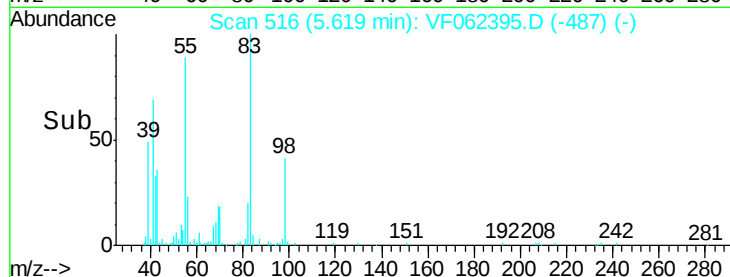
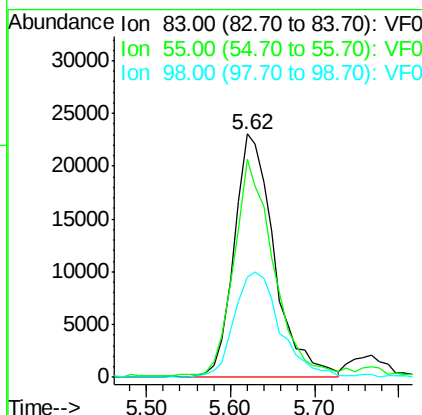
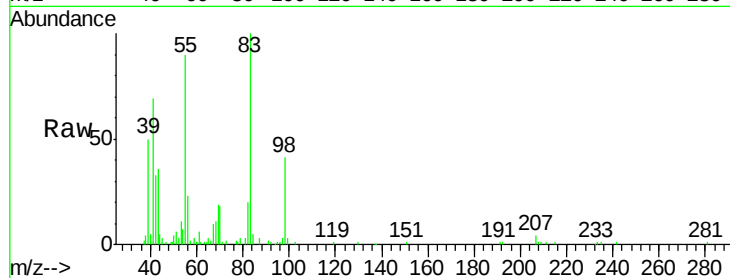
#39
Methvlcvclohexane
Concen: 21.419 ug/l
RT: 5.62 min Scan# 516
Delta R.T. -0.01 min
Lab File: VF062395.D
Acq: 9 May 2019 14:58

Instrument :
MSVOA_F
ClientSampleId :
VF0509SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	88.6	69.0	103.6
98	41.1	38.6	58.0

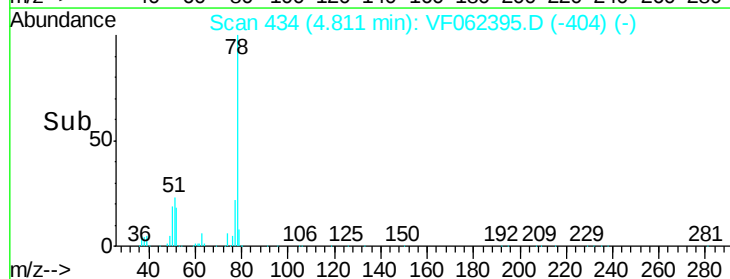
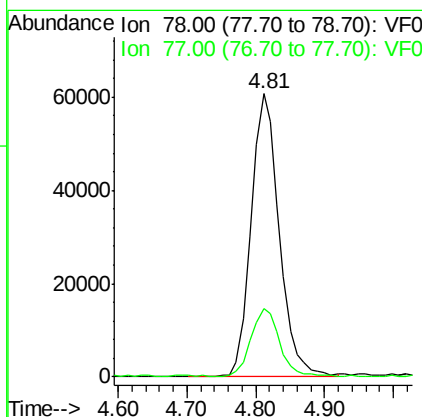
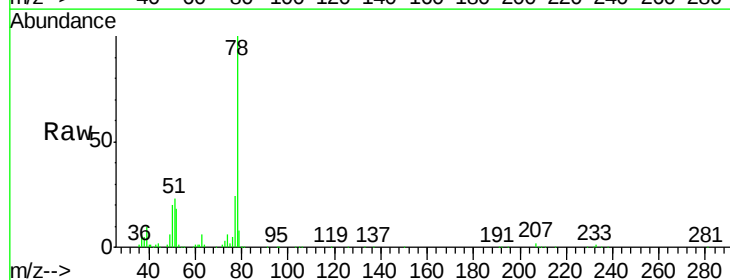
Manual Integrations
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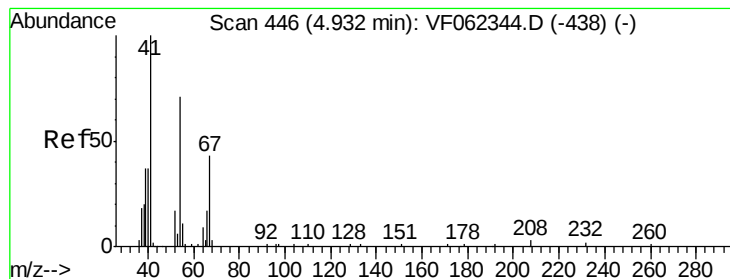
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#40
Benzene
Concen: 21.976 ug/l
RT: 4.81 min Scan# 434
Delta R.T. -0.00 min
Lab File: VF062395.D
Acq: 9 May 2019 14:58

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	21.6	32.4





#41

Methacrylonitrile

Concen: 20.619 ug/l

RT: 4.92 min Scan# 445

Delta R.T. -0.01 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

Instrument :

MSVOA_F

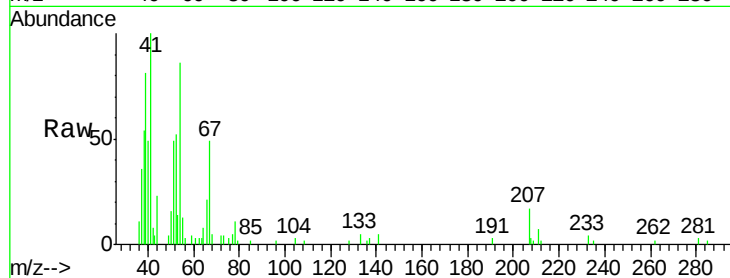
ClientSampleId :

VF0509SBS01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	71.5	54.3	81.5	
67	43.4	37.8	56.8	
52	72.8	58.2	87.4	

Manual Integrations
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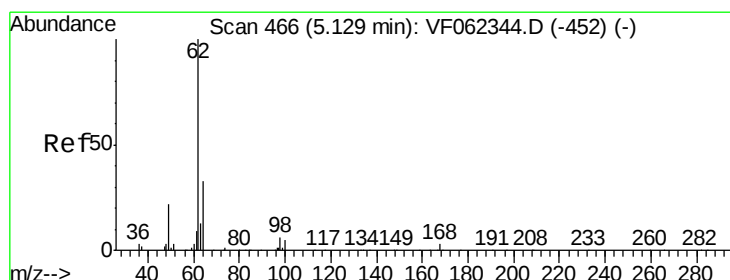
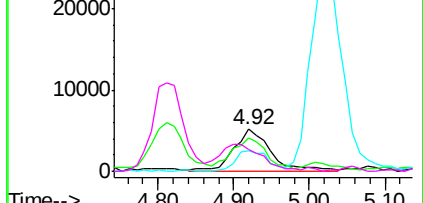
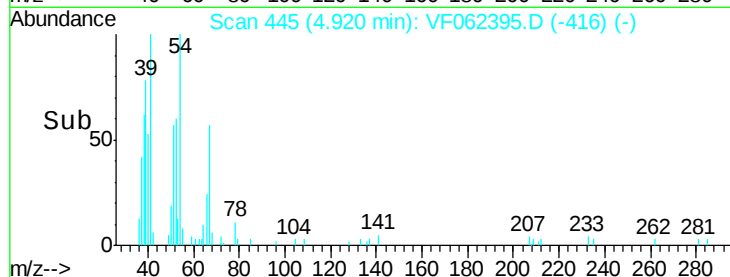
Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Time-->



#42

1,2-Dichloroethane

Concen: 23.003 ug/l

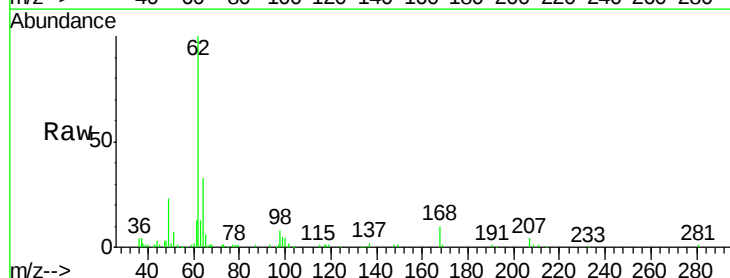
RT: 5.12 min Scan# 465

Delta R.T. -0.01 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

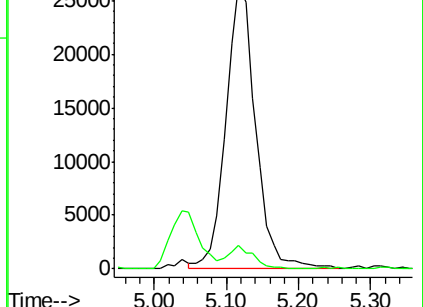
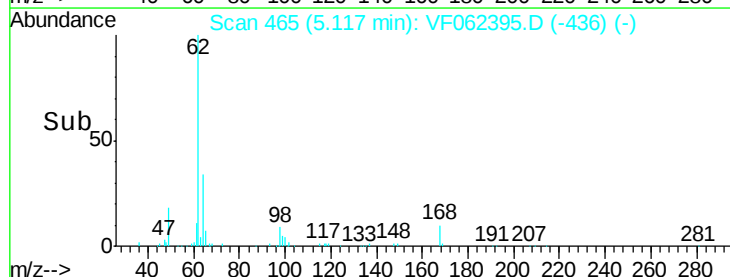
Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	6.9	0.0	12.4	

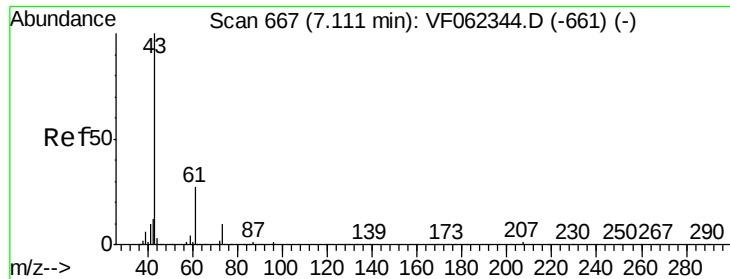


Abundance Ion 61.90 (61.60 to 62.60): VF0

Ion 97.90 (97.60 to 98.60): VF0

Time-->





#43

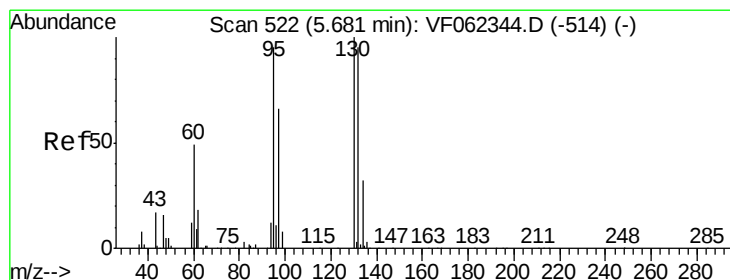
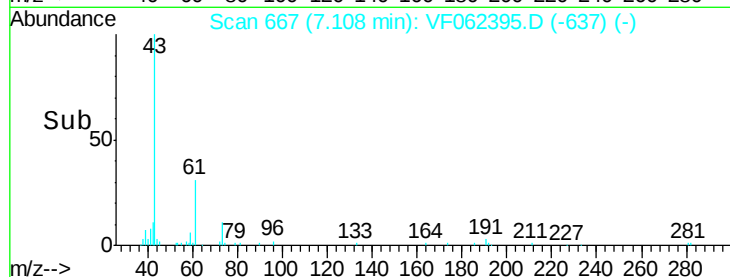
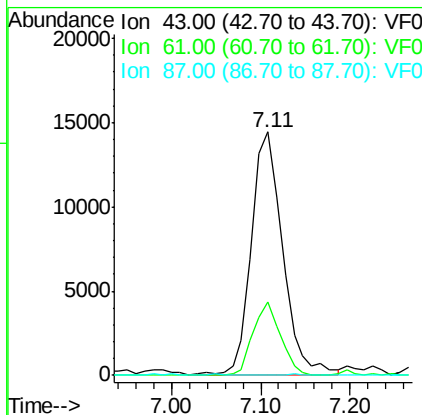
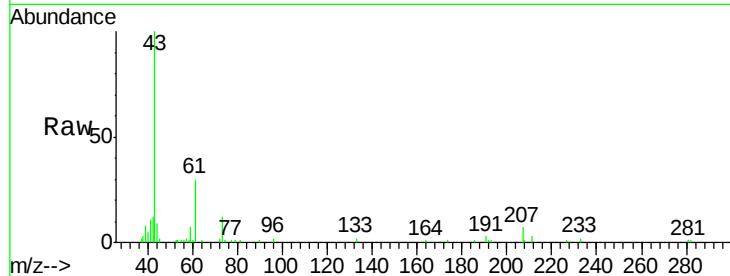
Isopropyl Acetate
 Concen: 21.693 ug/l
 RT: 7.11 min Scan# 667
 Delta R.T. -0.00 min
 Lab File: VF062395.D
 Acq: 9 May 2019 14:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0509SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	26.3	22.8	34.2
87	0.0	0.6	1.0

Manual Integrations
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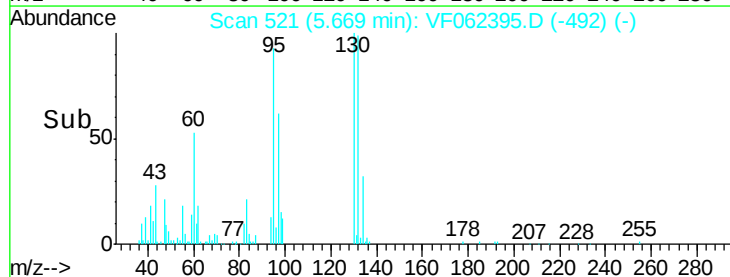
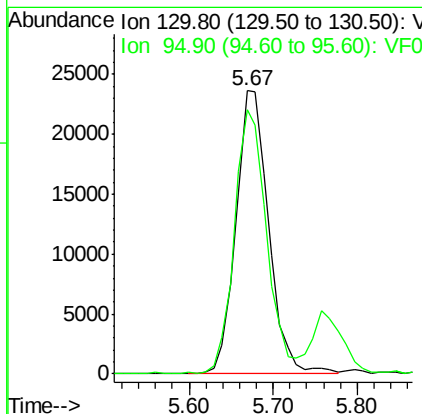
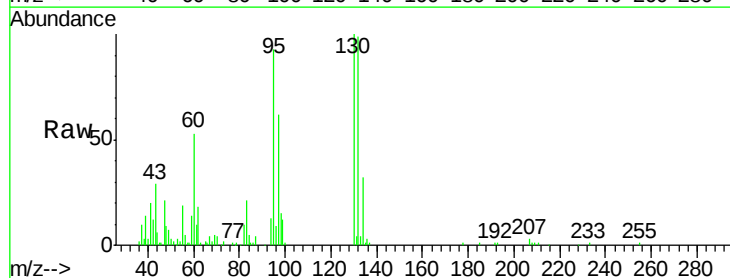
MMDadoda
 5/10/2019 11:03:35 AM



#44

Trichloroethene
 Concen: 22.151 ug/l
 RT: 5.67 min Scan# 521
 Delta R.T. -0.01 min
 Lab File: VF062395.D
 Acq: 9 May 2019 14:58

Tgt Ion	Ratio	Lower	Upper
130	100		
95	92.9	0.0	189.0





#45

1,2-Dichloropropane

Concen: 21.524 ug/l

RT: 6.40 min Scan# 595

Delta R.T. -0.00 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

Instrument :

MSVOA_F

ClientSampleId :

VF0509SBS01

Tot Ion: 63 Resp: 38430

Ion Ratio Lower Upper

63 100

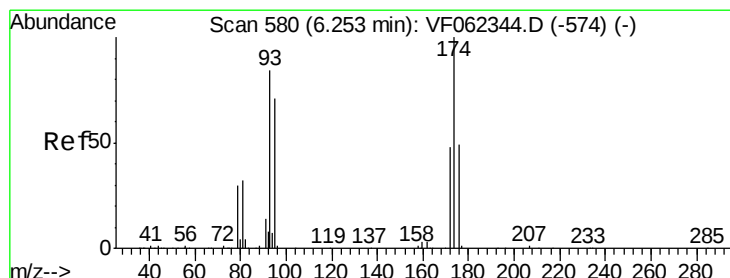
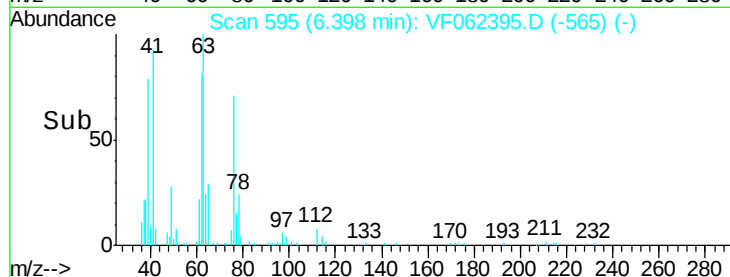
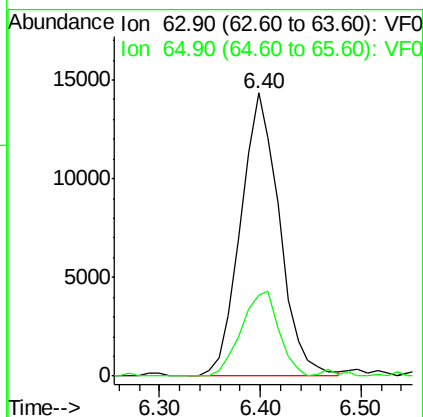
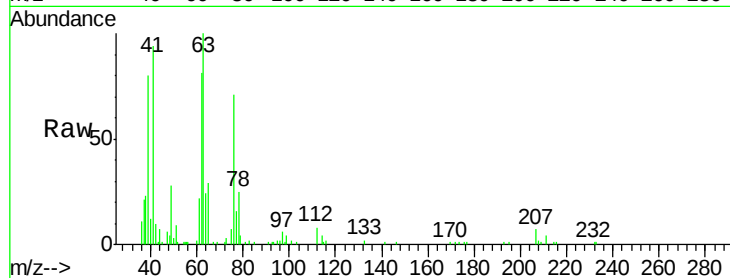
65 28.7 25.6 38.4

Manual Integrations

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#46

Dibromomethane

Concen: 21.742 ug/l

RT: 6.25 min Scan# 580

Delta R.T. -0.00 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

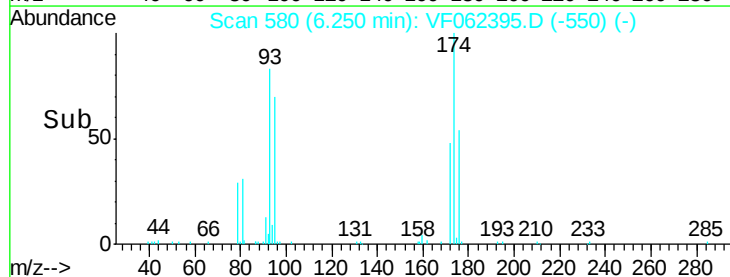
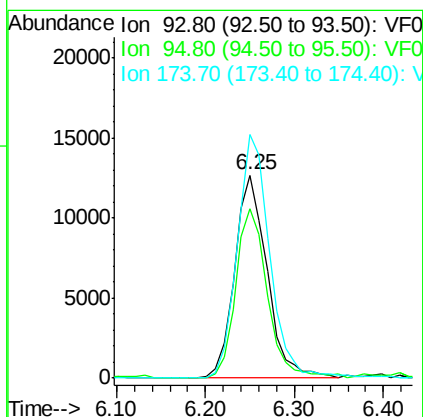
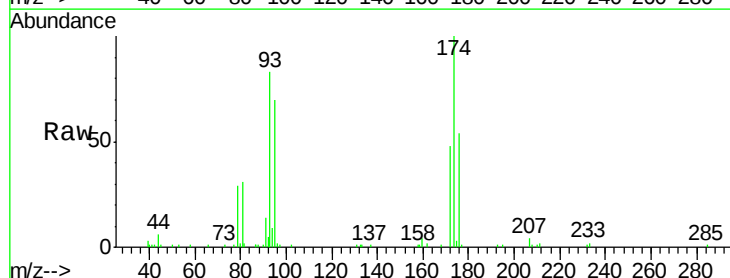
Tgt Ion: 93 Resp: 32185

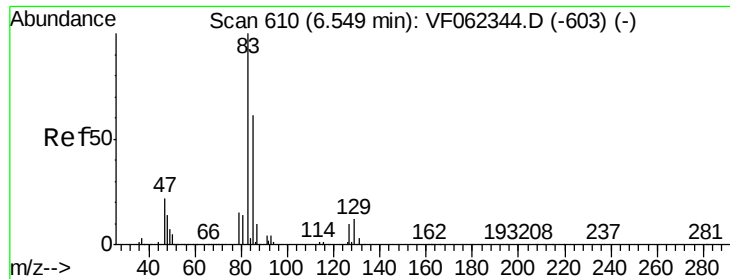
Ion Ratio Lower Upper

93 100

95 81.5 68.4 102.6

174 121.1 99.6 149.4





#47

Bromodichloromethane

Concen: 22.146 ug/l

RT: 6.55 min Scan# 610

Delta R.T. -0.00 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

Instrument :

MSVOA_F

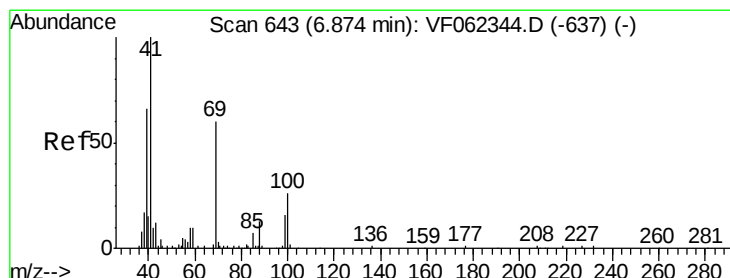
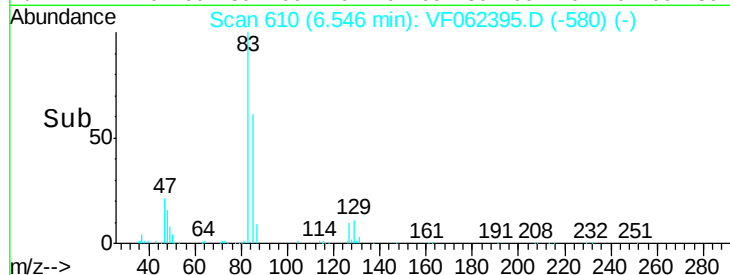
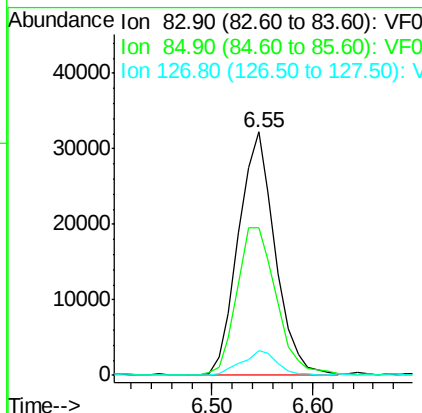
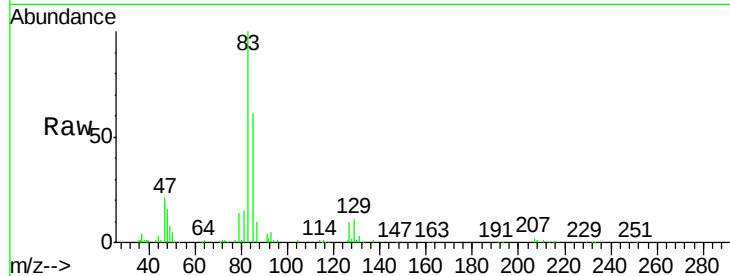
ClientSampleId :

VF0509SBS01

Tot Ion:	83	Resp:	81965
Ion	Ratio	Lower	Upper
83	100		
85	60.6	49.1	73.7
127	10.3	7.8	11.8

Manual Integrations
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#48

Methyl methacrylate

Concen: 21.746 ug/l

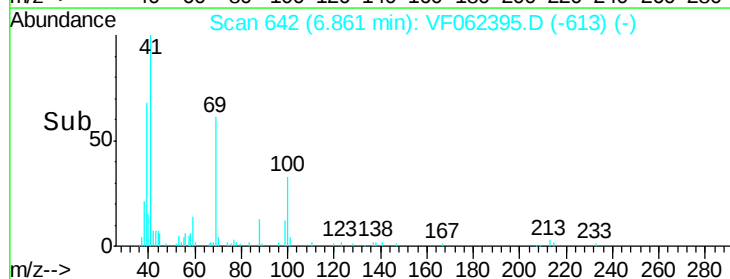
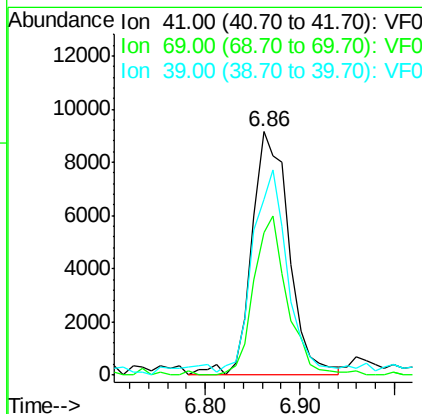
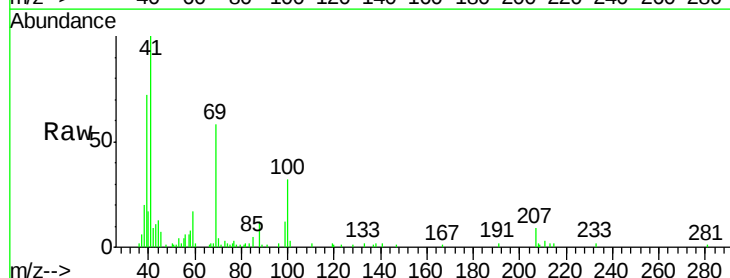
RT: 6.86 min Scan# 642

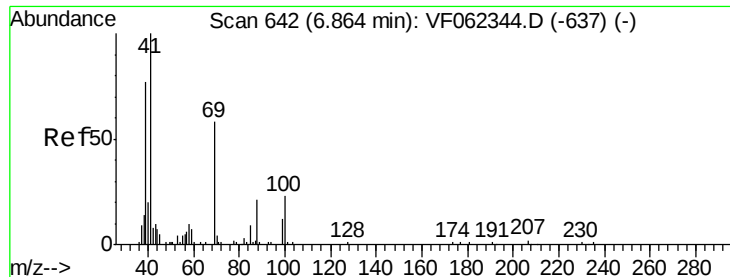
Delta R.T. -0.01 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

Tgt Ion:	41	Resp:	25021
Ion	Ratio	Lower	Upper
41	100		
69	59.0	48.6	72.8
39	76.7	56.1	84.1





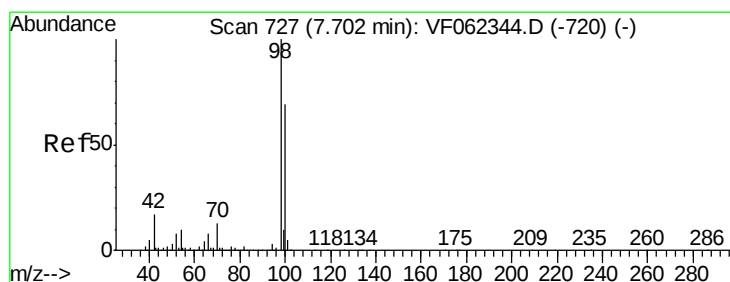
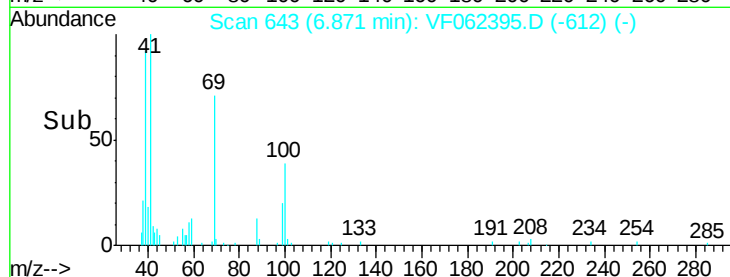
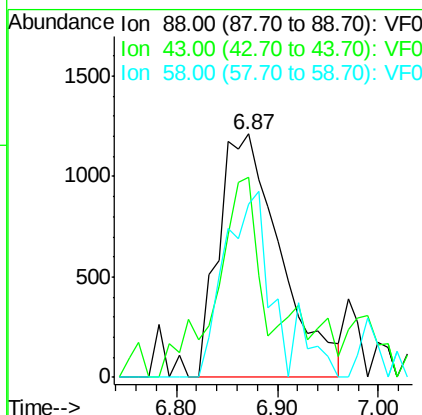
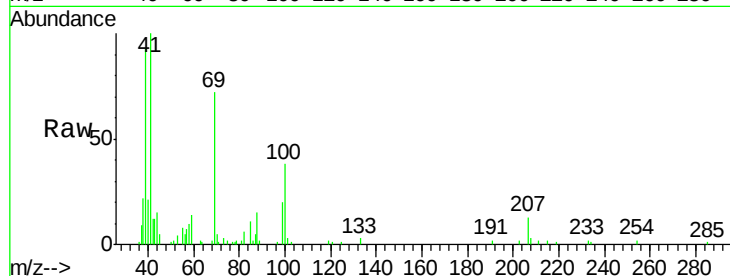
#49
1,4-Dioxane
Concen: 428.052 ug/l
RT: 6.87 min Scan# 643
Delta R.T. 0.01 min
Lab File: VF062395.D
Acq: 9 May 2019 14:58

Instrument :
MSVOA_F
ClientSampleId :
VF0509SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	58.7	55.6	83.4
58	53.5	52.8	79.2

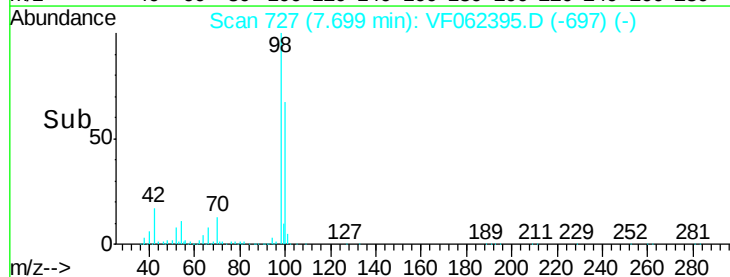
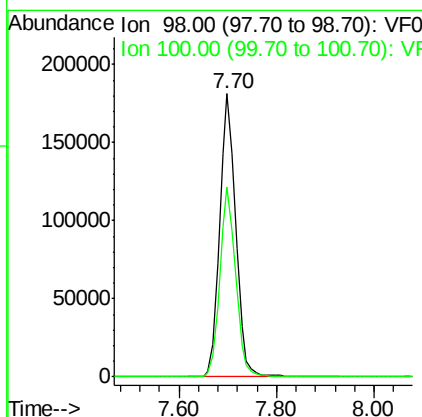
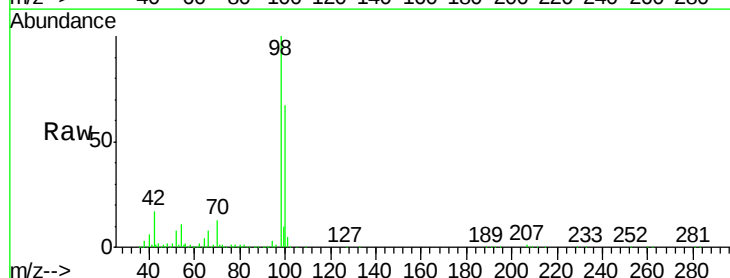
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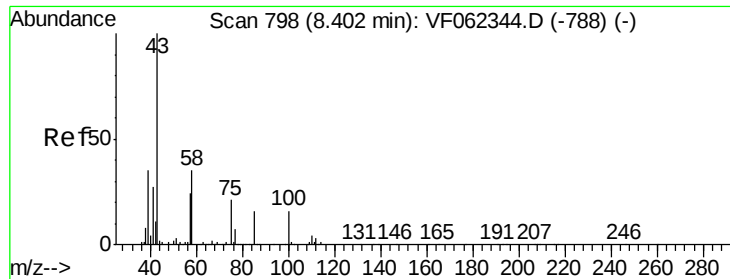
MMDadoda
5/10/2019 11:03:35 AM



#50
Toluene-d8
Concen: 52.084 ug/l
RT: 7.70 min Scan# 727
Delta R.T. -0.00 min
Lab File: VF062395.D
Acq: 9 May 2019 14:58

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.9	53.3	79.9





#51

4-Methyl-2-Pentanone

Concen: 104.587 ug/l

RT: 8.39 min Scan# 797

Delta R.T. -0.01 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

Instrument :

MSVOA_F

ClientSampleId :

VF0509SBS01

Tot Ion: 43 Resp: 129034

Ion Ratio Lower Upper

43 100

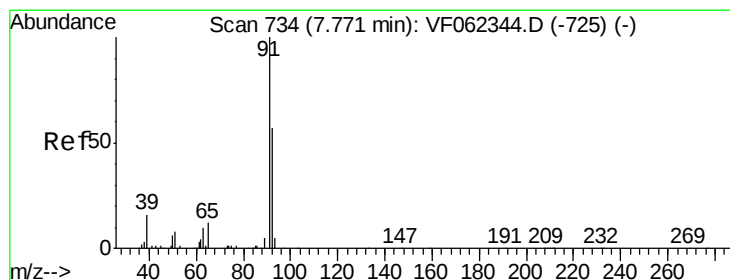
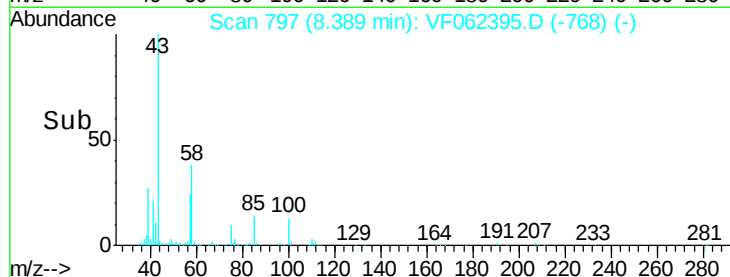
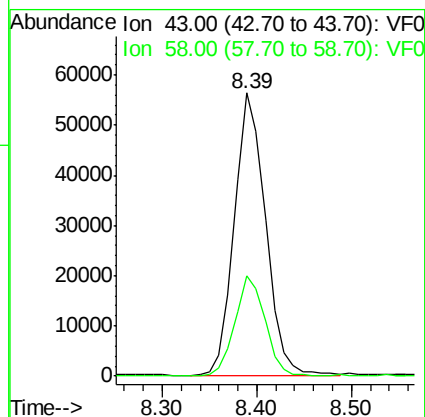
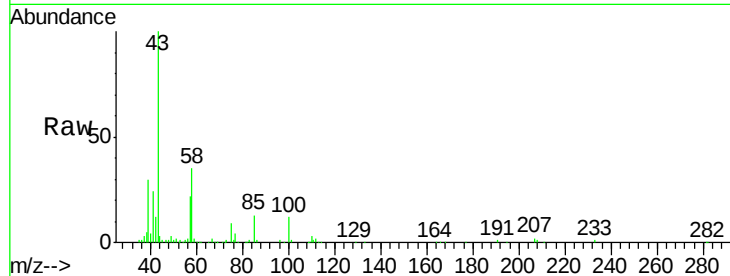
58 34.3 27.8 41.6

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#52

Toluene

Concen: 22.440 ug/l

RT: 7.77 min Scan# 734

Delta R.T. -0.00 min

Lab File: VF062395.D

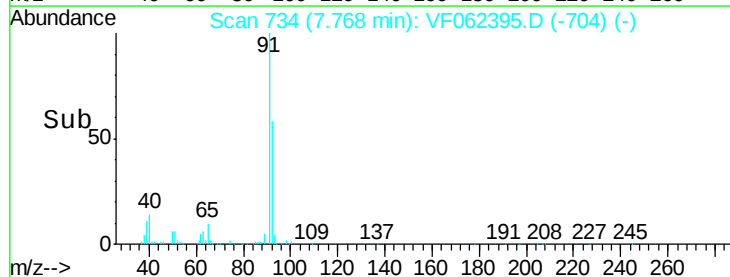
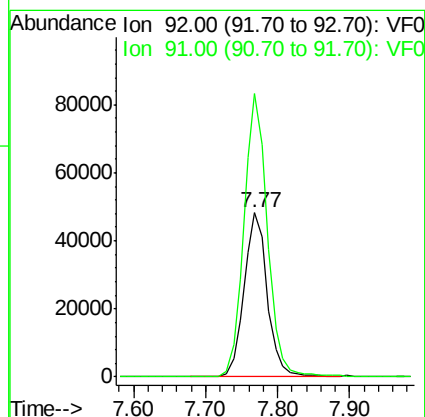
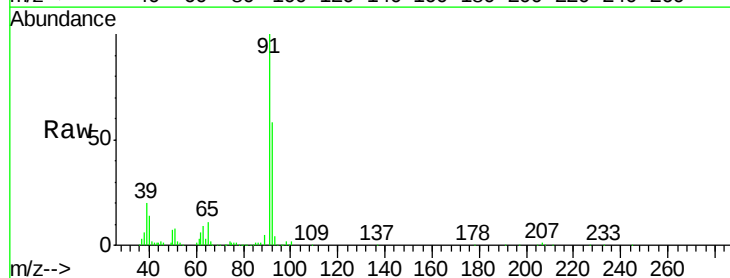
Acq: 9 May 2019 14:58

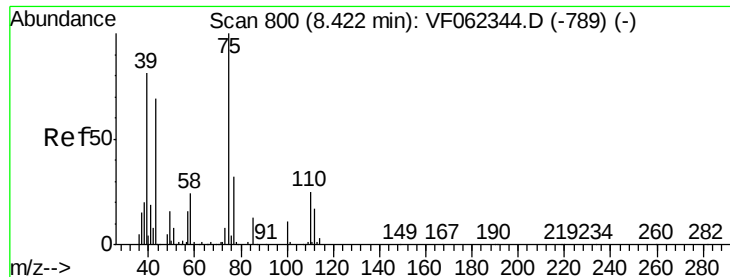
Tgt Ion: 92 Resp: 109120

Ion Ratio Lower Upper

92 100

91 173.7 138.7 208.1





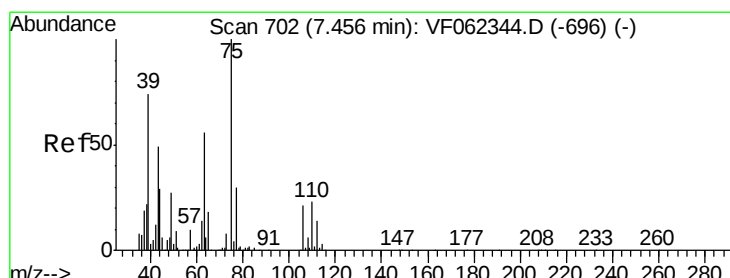
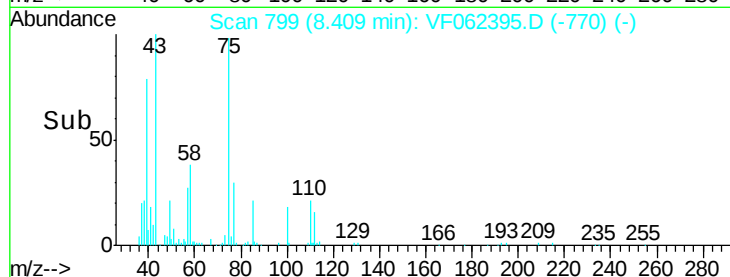
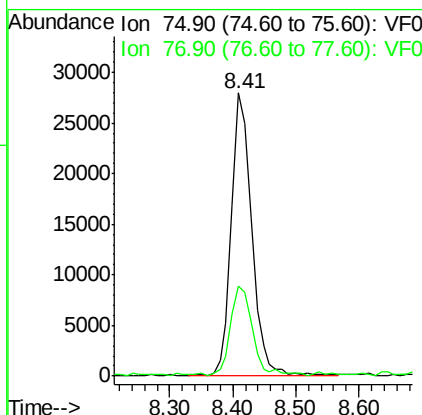
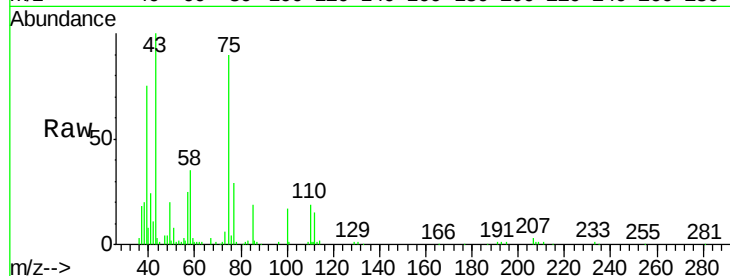
#53
t-1,3-Dichloropropene
Concen: 22.577 ug/l
RT: 8.41 min Scan# 799
Delta R.T. -0.01 min
Lab File: VF062395.D
Acq: 9 May 2019 14:58

Instrument :
MSVOA_F
ClientSampleId :
VF0509SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.4	38.0

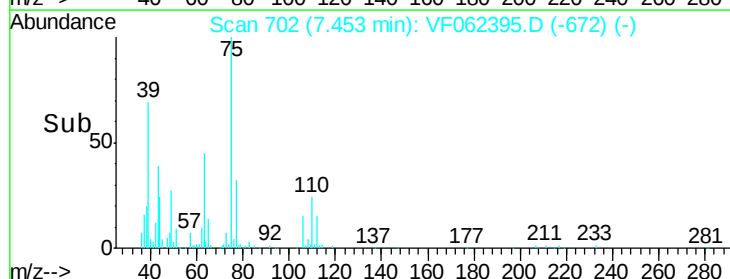
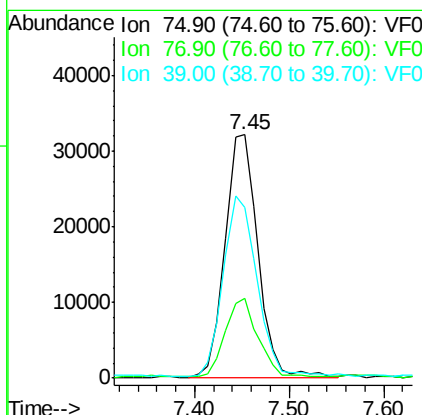
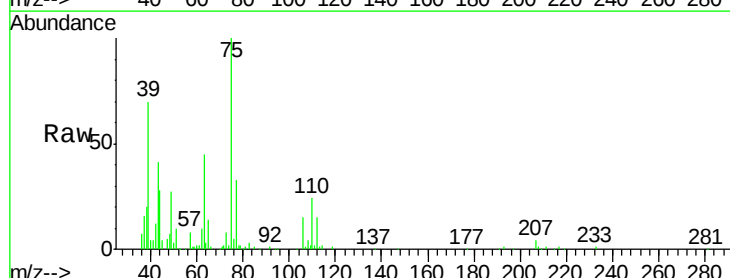
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#54
cis-1,3-Dichloropropene
Concen: 23.953 ug/l
RT: 7.45 min Scan# 702
Delta R.T. -0.00 min
Lab File: VF062395.D
Acq: 9 May 2019 14:58

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.3	24.0	36.0
39	69.2	58.7	88.1





#55

1,1,2-Trichloroethane

Concen: 22.783 ug/l

RT: 8.63 min Scan# 821

Delta R.T. -0.00 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

Instrument :

MSVOA_F

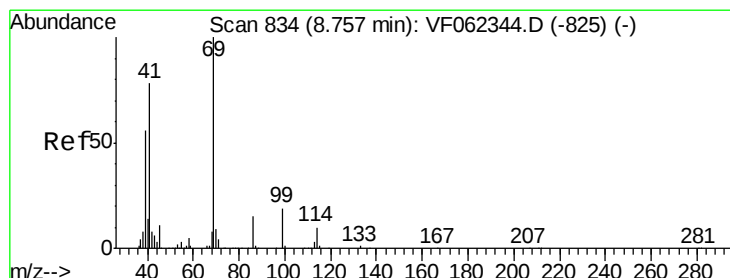
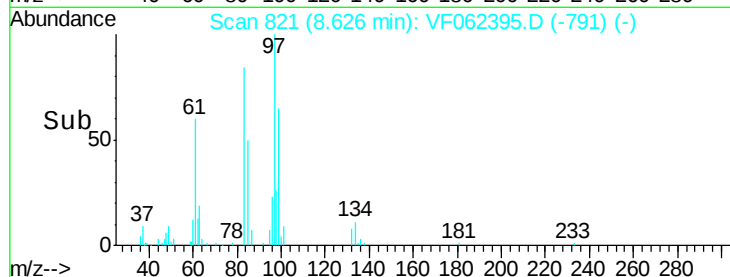
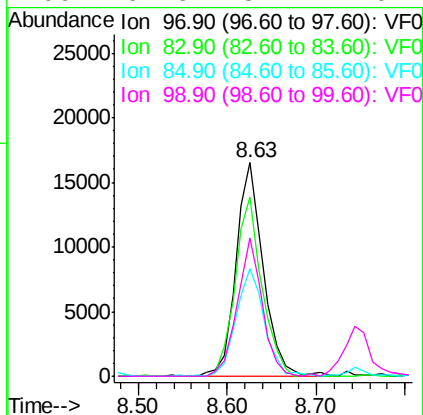
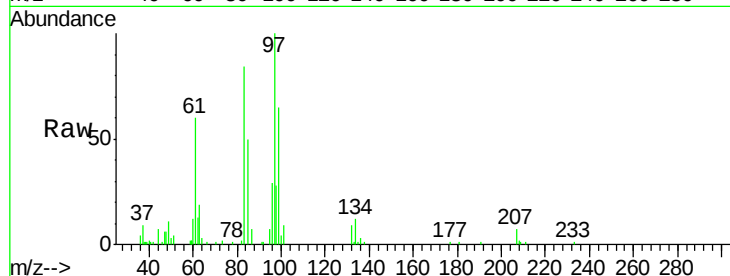
ClientSampleId :

VF0509SBS01

Tot Ion:	97	Resp:	35171
Ion	Ratio	Lower	Upper
97	100		
83	83.9	68.5	102.7
85	50.1	45.4	68.2
99	64.6	52.7	79.1

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#56

Ethyl methacrylate

Concen: 21.069 ug/l

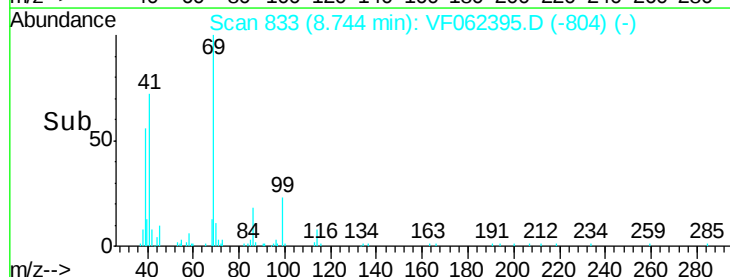
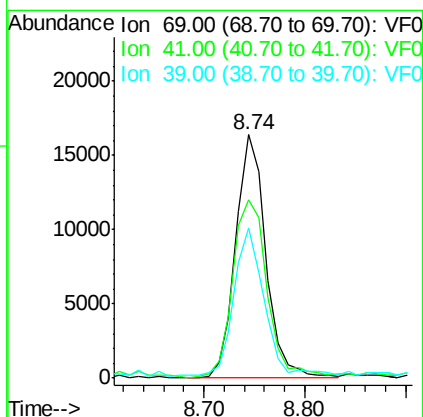
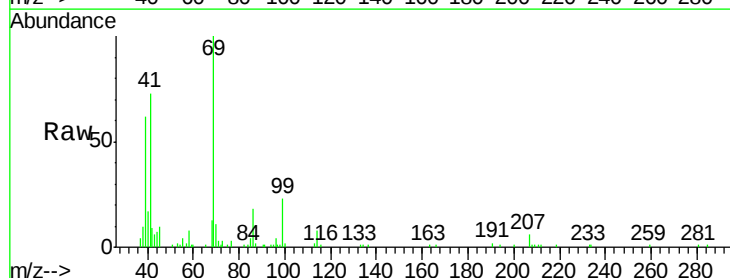
RT: 8.74 min Scan# 833

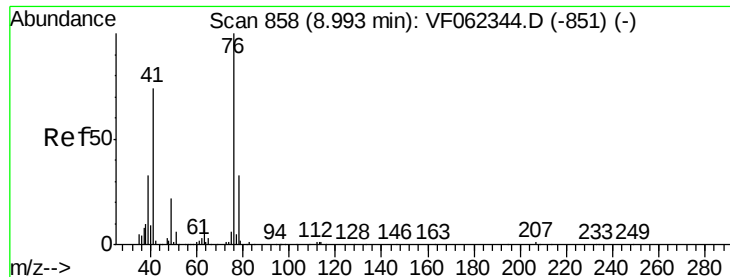
Delta R.T. -0.01 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

Tgt Ion:	69	Resp:	34332
Ion	Ratio	Lower	Upper
69	100		
41	84.3	66.3	99.5
39	59.5	50.1	75.1





#57

1,3-Dichloropropane

Concen: 22.488 ug/l

RT: 8.98 min Scan# 857

Delta R.T. -0.01 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

Instrument :

MSVOA_F

ClientSampleId :

VF0509SBS01

Tot Ion: 76 Resp: 52438

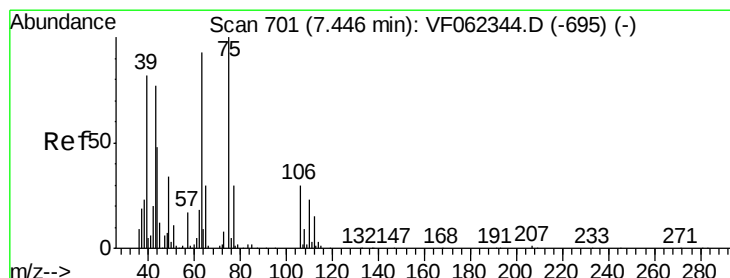
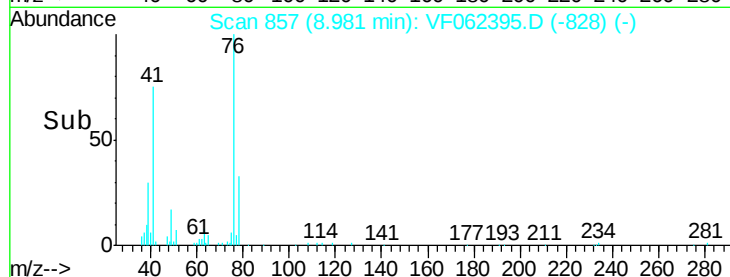
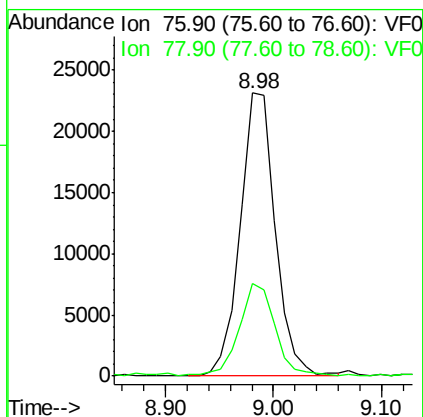
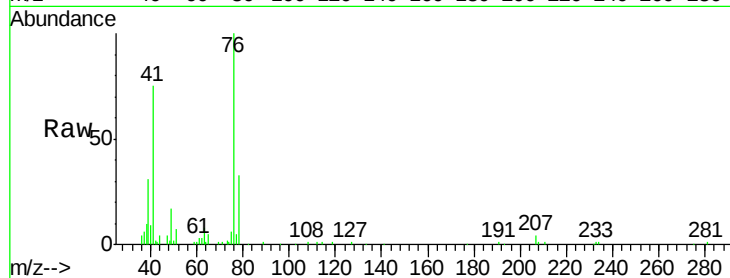
Ion Ratio Lower Upper

76 100

78 33.8 26.4 39.6

Manual Integrations
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#58

2-Chloroethyl Vinyl ether

Concen: 104.584 ug/l

RT: 7.43 min Scan# 700

Delta R.T. -0.01 min

Lab File: VF062395.D

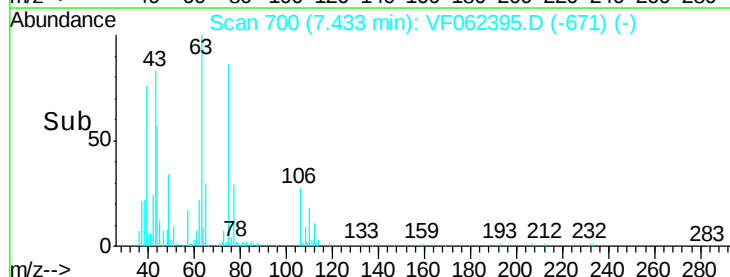
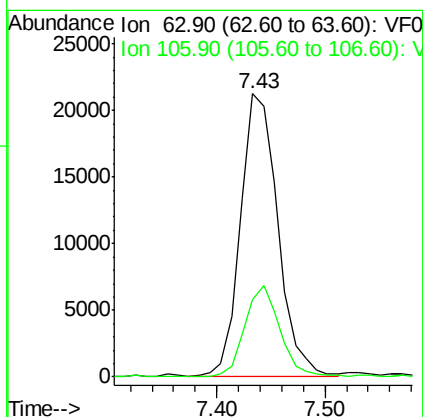
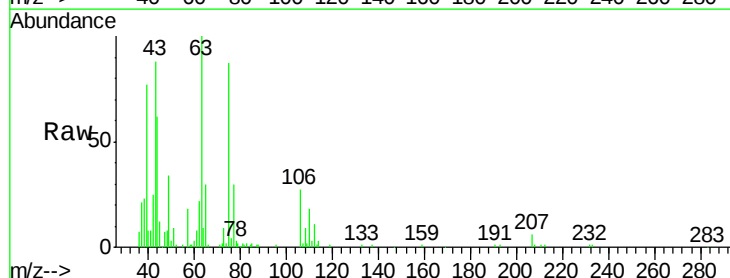
Acq: 9 May 2019 14:58

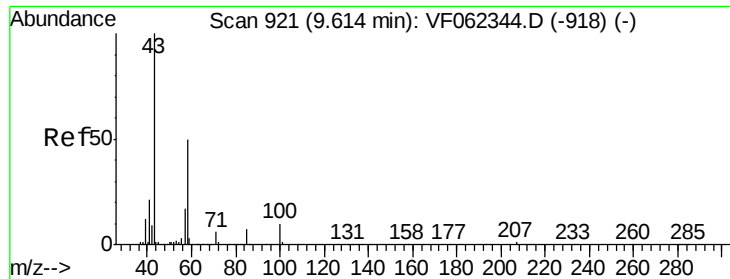
Tgt Ion: 63 Resp: 51237

Ion Ratio Lower Upper

63 100

106 30.2 25.8 38.8





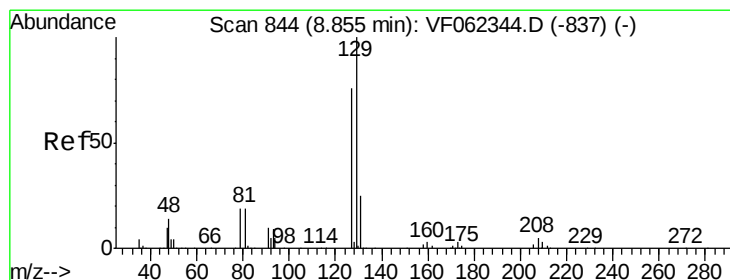
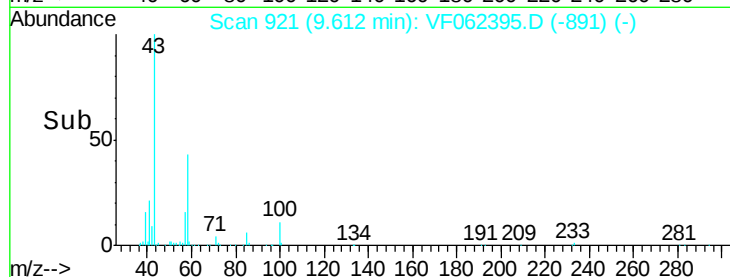
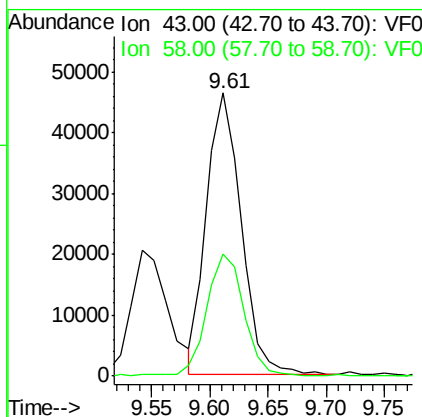
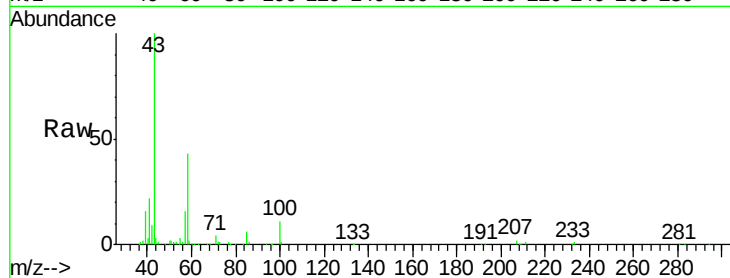
#59
2-Hexanone
Concen: 112.086 ug/l
RT: 9.61 min Scan# 921
Delta R.T. -0.00 min
Lab File: VF062395.D
Acq: 9 May 2019 14:58

Instrument :
MSVOA_F
ClientSampled :
VF0509SBS01

Tot Ion: 43 Resp: 95639
Ion Ratio Lower Upper
43 100
58 47.2 24.3 73.0

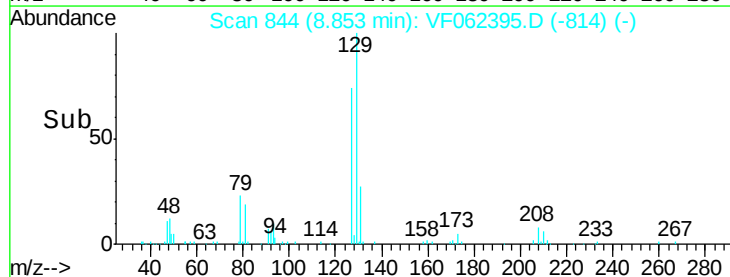
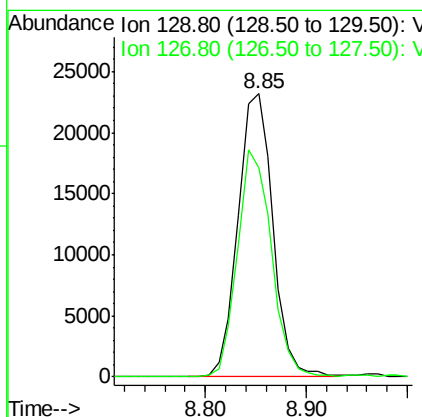
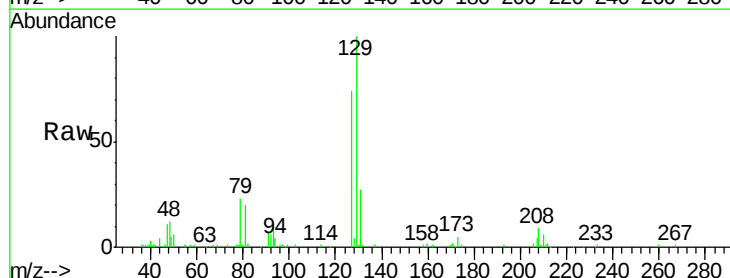
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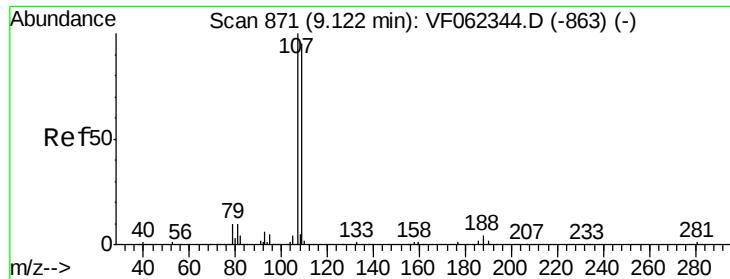
MMDadoda
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#60
Dibromochloromethane
Concen: 22.137 ug/l
RT: 8.85 min Scan# 844
Delta R.T. -0.00 min
Lab File: VF062395.D
Acq: 9 May 2019 14:58

Tgt Ion: 129 Resp: 55892
Ion Ratio Lower Upper
129 100
127 78.0 38.5 115.3





#61

1,2-Dibromoethane

Concen: 21.313 ug/l

RT: 9.12 min Scan# 871

Delta R.T. -0.00 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

Instrument :

MSVOA_F

ClientSampleId :

VF0509SBS01

Tot Ion: 107 Resp: 38669

Ion Ratio Lower Upper

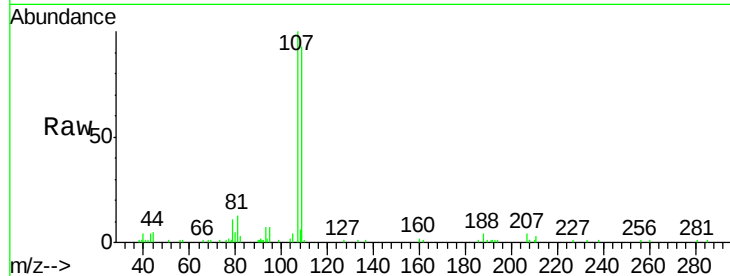
107 100

109 94.3 75.2 112.8

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

9.12

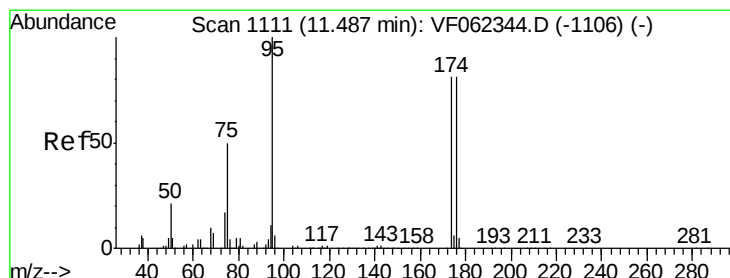
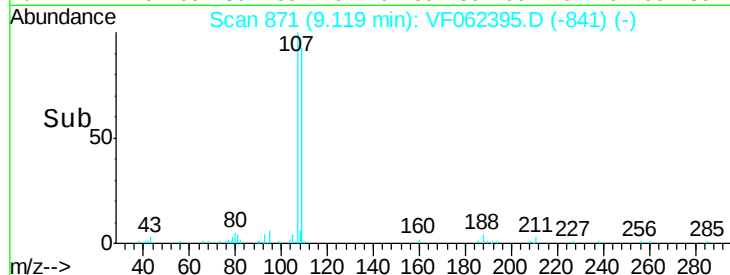
15000

10000

5000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 53.194 ug/l

RT: 11.48 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

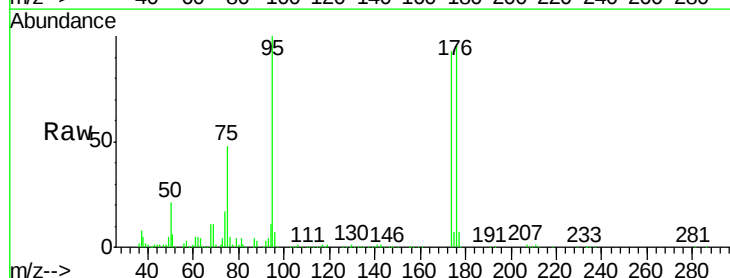
Tgt Ion: 95 Resp: 192860

Ion Ratio Lower Upper

95 100

174 95.0 0.0 191.8

176 95.3 0.0 193.2



Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.48

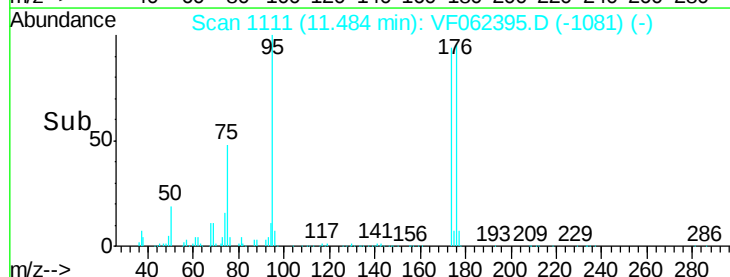
150000

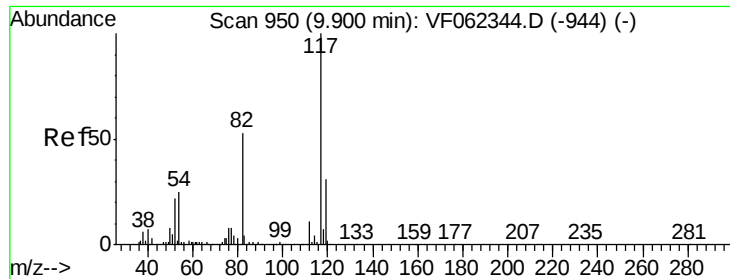
100000

50000

0

Time-->





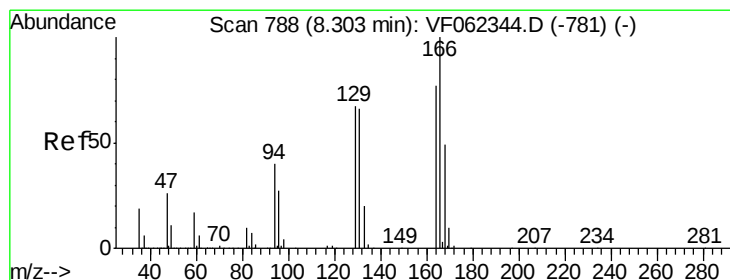
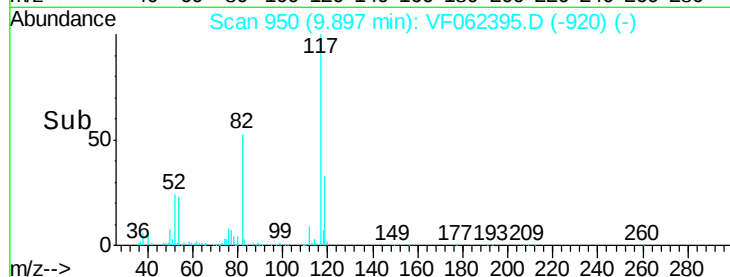
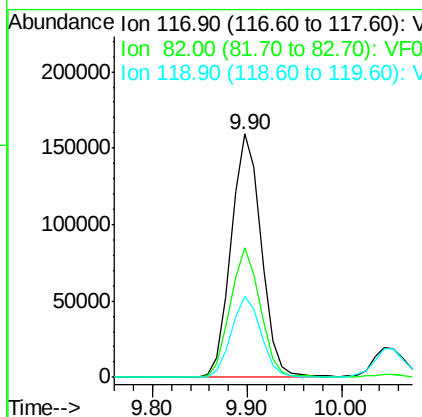
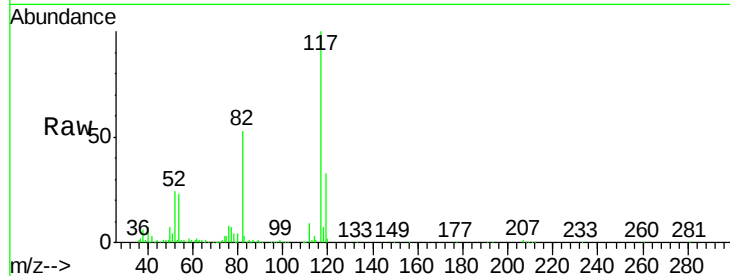
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.90 min Scan# 950
Delta R.T. -0.00 min
Lab File: VF062395.D
Acq: 9 May 2019 14:58

Instrument :
MSVOA_F
ClientSampleId :
VF0509SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	351834		
82	53.2		42.2	63.2
119	33.3		25.0	37.4

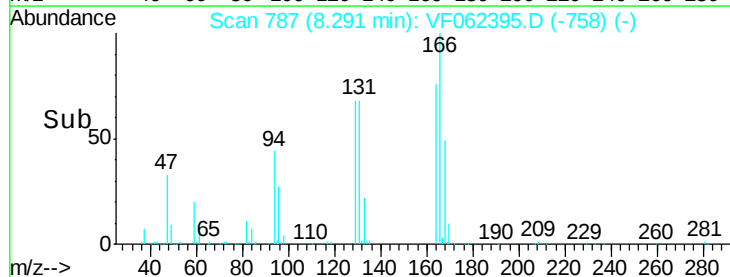
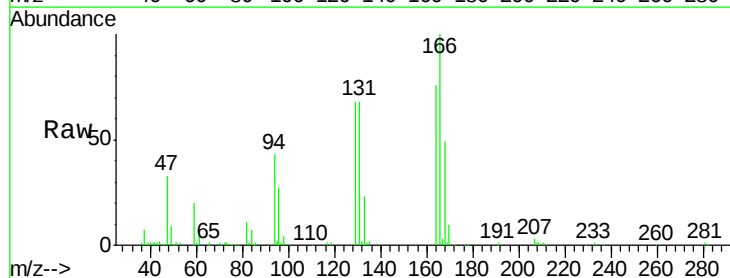
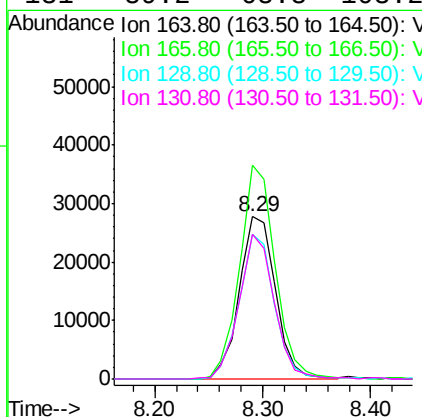
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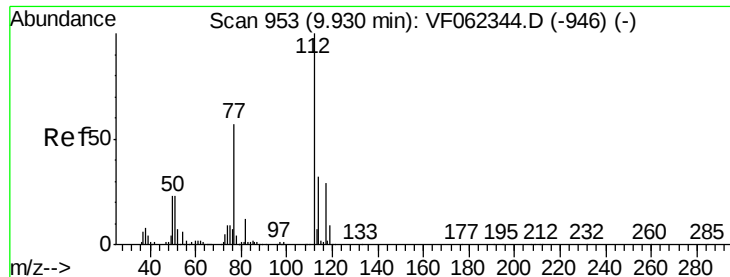
MMDadoda
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#64
Tetrachloroethene
Concen: 22.561 ug/l
RT: 8.29 min Scan# 787
Delta R.T. -0.01 min
Lab File: VF062395.D
Acq: 9 May 2019 14:58

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	64440		
166	131.7		104.2	156.4
129	89.5		69.6	104.4
131	89.2		68.8	103.2





#65

Chlorobenzene

Concen: 22.704 ug/l

RT: 9.92 min Scan# 952

Delta R.T. -0.01 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

Instrument :

MSVOA_F

ClientSampleId :

VF0509SBS01

Tot Ion:112 Resp: 132165

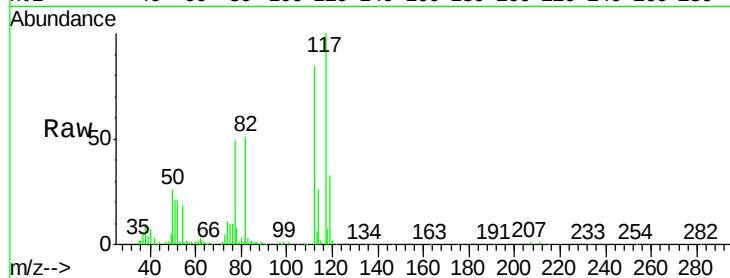
Ion Ratio Lower Upper

112 100

114 31.0 25.4 38.0

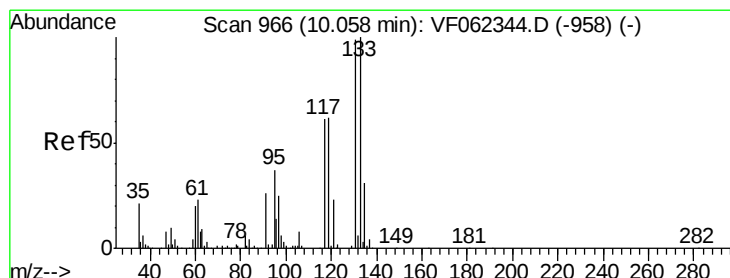
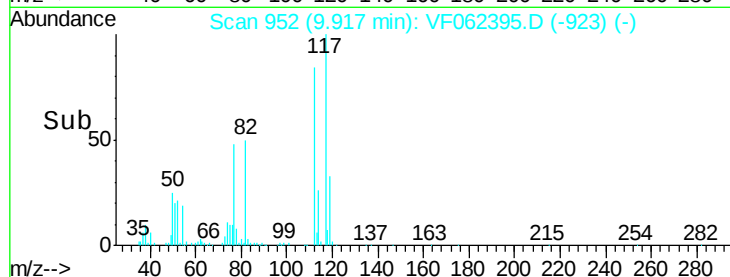
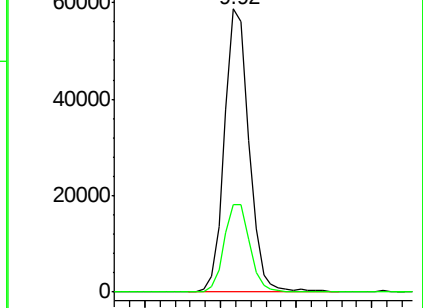
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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 23.119 ug/l

RT: 10.05 min Scan# 965

Delta R.T. -0.01 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

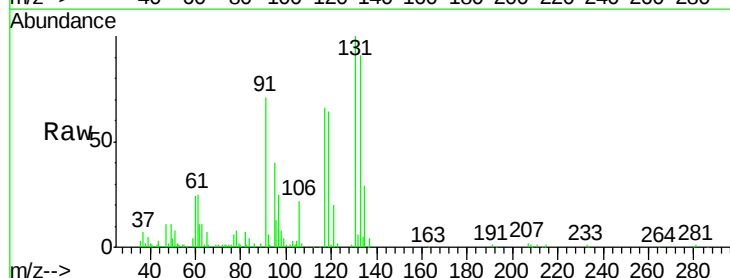
Tgt Ion:131 Resp: 67893

Ion Ratio Lower Upper

131 100

133 98.1 50.2 150.7

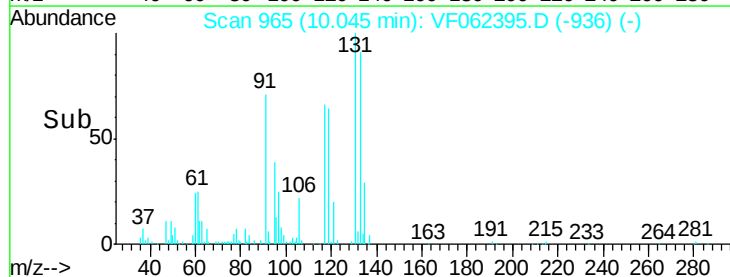
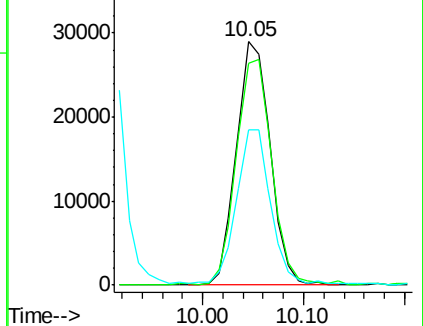
119 66.1 31.6 95.0

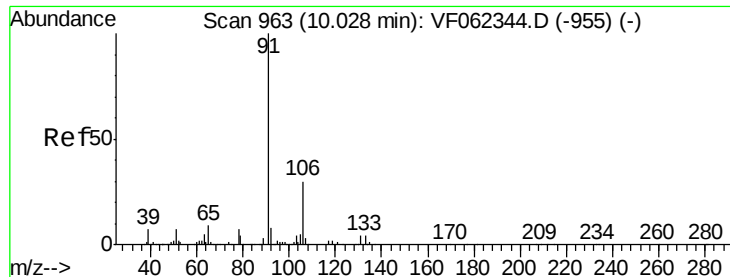


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 23.676 ug/l

RT: 10.02 min Scan# 962

Delta R.T. -0.01 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

Instrument :

MSVOA_F

ClientSampleId :

VF0509SBS01

Tot Ion: 91 Resp: 241341

Ion Ratio Lower Upper

91 100

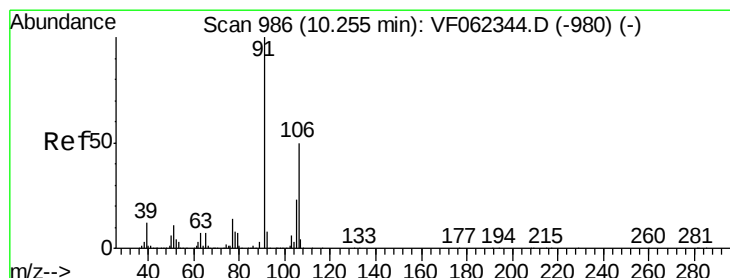
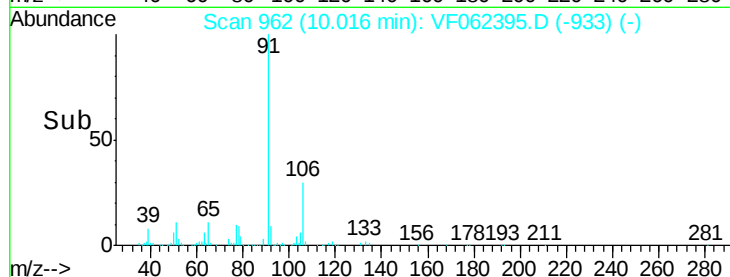
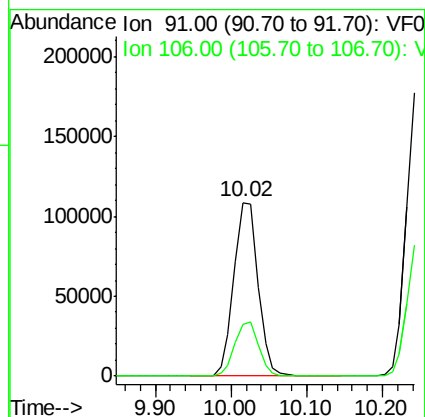
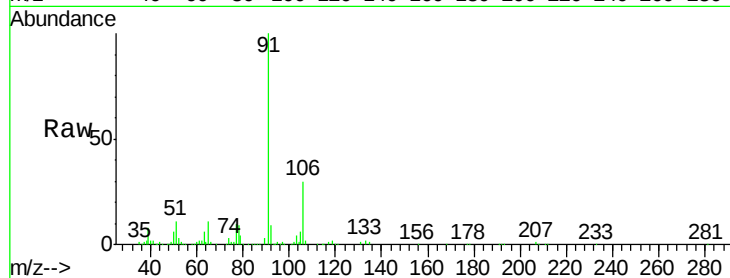
106 30.0 24.1 36.1

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#68

m/p-Xylenes

Concen: 47.347 ug/l

RT: 10.25 min Scan# 986

Delta R.T. -0.00 min

Lab File: VF062395.D

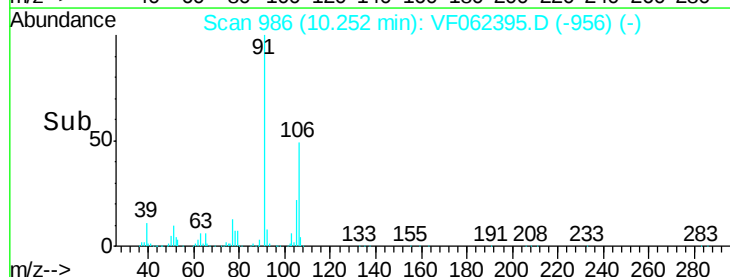
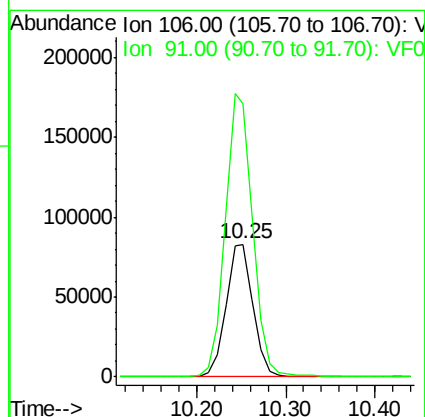
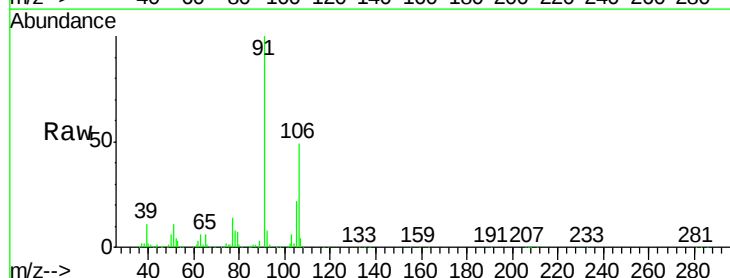
Acq: 9 May 2019 14:58

Tgt Ion: 106 Resp: 178077

Ion Ratio Lower Upper

106 100

91 215.1 167.4 251.2





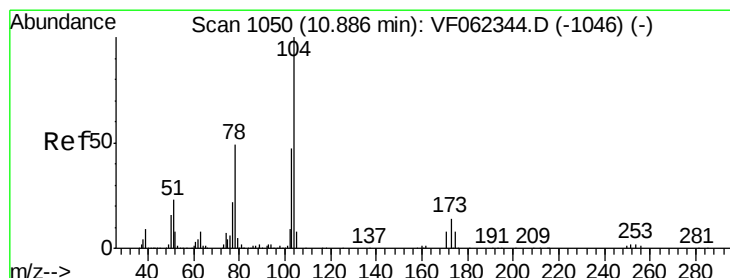
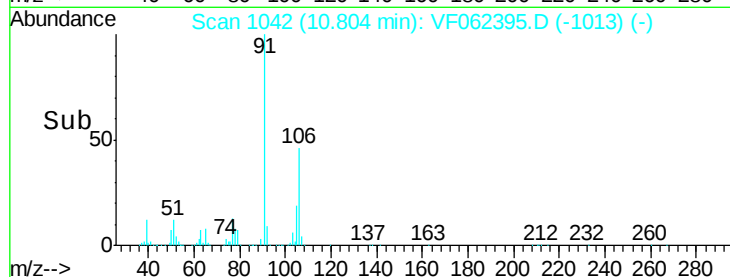
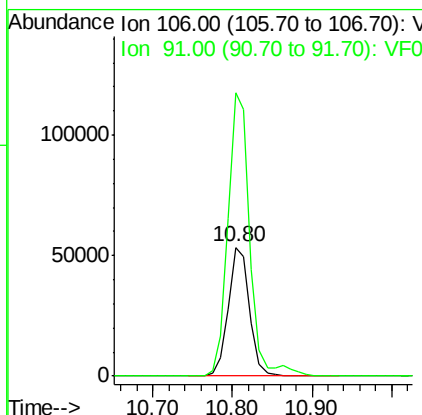
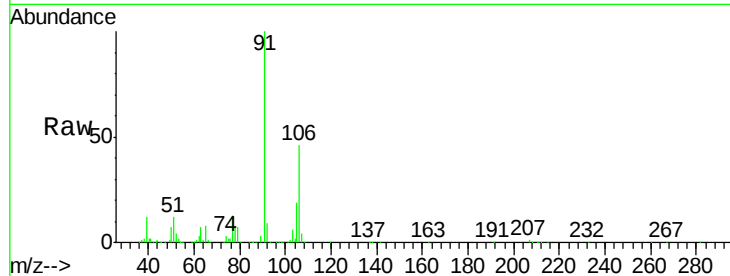
#69
o-Xylene
Concen: 24.706 ug/l
RT: 10.80 min Scan# 1042
Delta R.T. -0.01 min
Lab File: VF062395.D
Acq: 9 May 2019 14:58

Instrument :
MSVOA_F
ClientSampled :
VF0509SBS01

Tot Ion:106 Resp: 100409
Ion Ratio Lower Upper
106 100
91 227.1 111.3 333.8

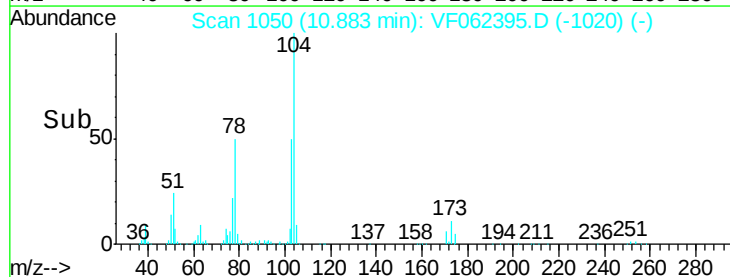
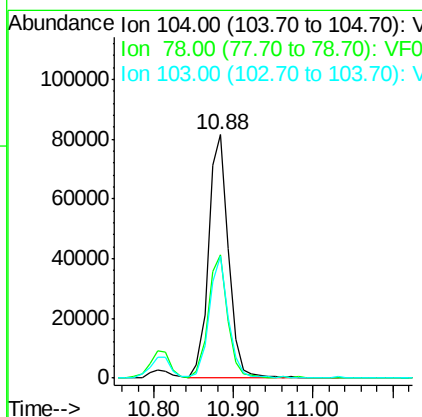
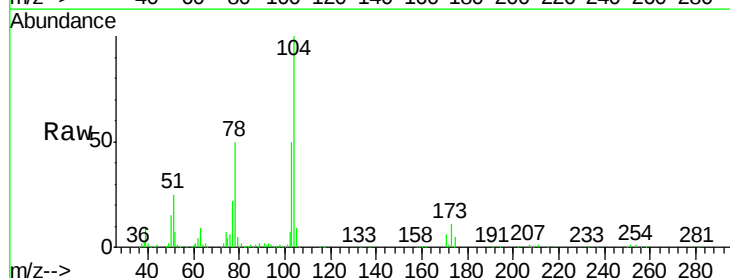
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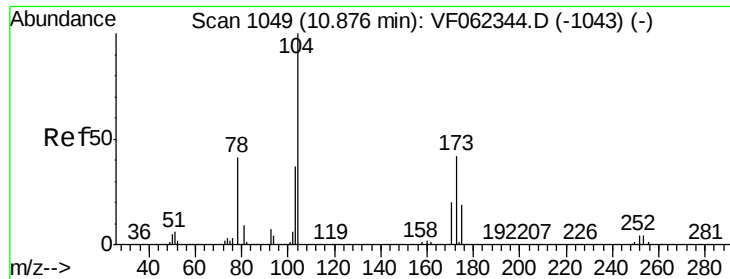
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#70
Styrene
Concen: 23.551 ug/l
RT: 10.88 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VF062395.D
Acq: 9 May 2019 14:58

Tgt Ion:104 Resp: 143448
Ion Ratio Lower Upper
104 100
78 48.2 39.5 59.3
103 48.5 38.4 57.6





#71

Bromoform

Concen: 22.203 ug/l

RT: 10.86 min Scan# 1048

Delta R.T. -0.01 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

Instrument :

MSVOA_F

ClientSampleId :

VF0509SBS01

Tot Ion:173 Resp: 35722

Ion Ratio Lower Upper

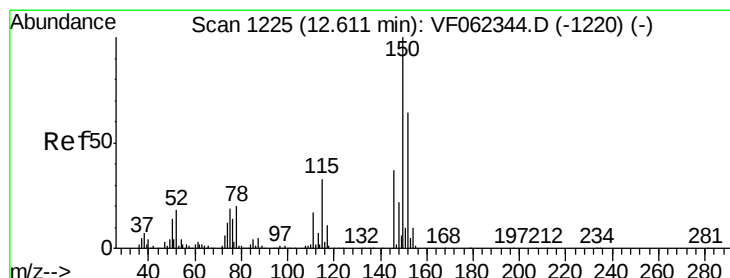
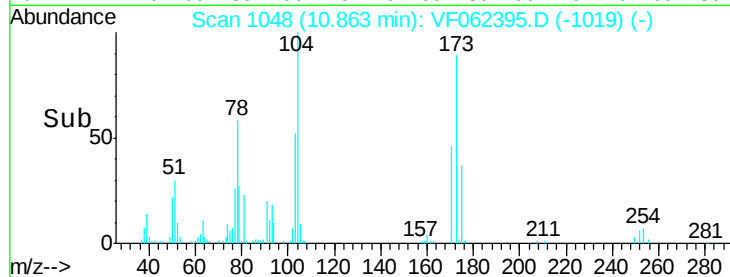
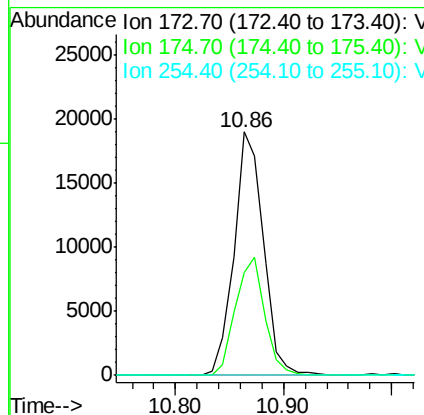
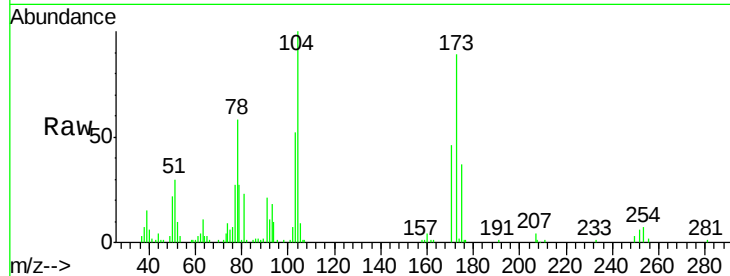
173 100

175 47.9 23.8 71.2

254 0.0 0.1 0.1#

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.61 min Scan# 1225

Delta R.T. -0.00 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

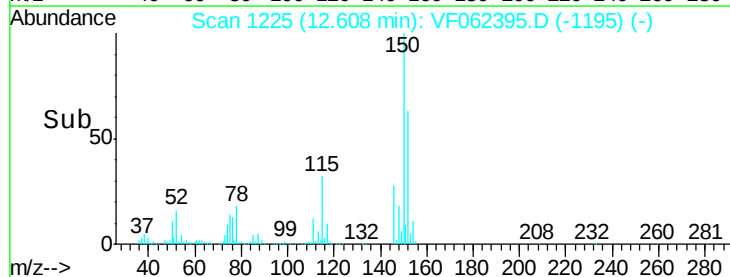
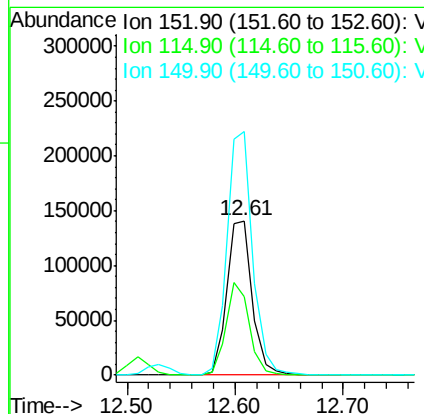
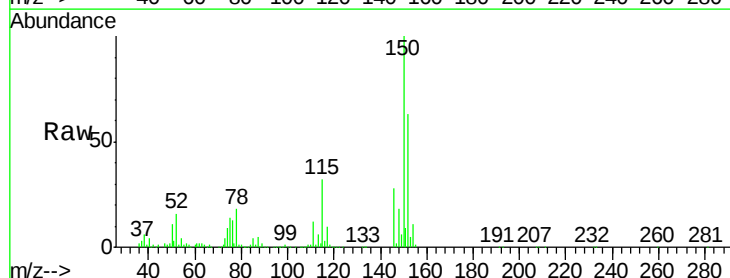
Tgt Ion:152 Resp: 229728

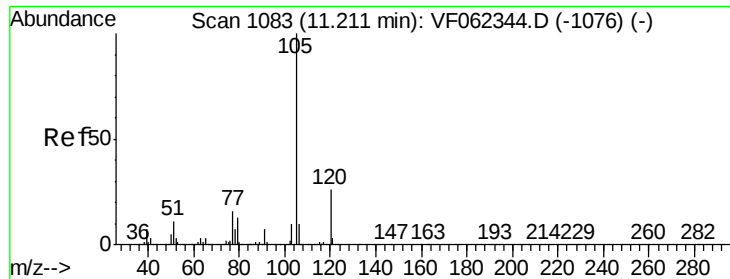
Ion Ratio Lower Upper

152 100

115 55.3 26.4 79.2

150 159.6 0.0 335.0





#73

Isopropylbenzene

Concen: 23.104 ug/l

RT: 11.21 min Scan# 1083

Delta R.T. -0.00 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

Instrument :

MSVOA_F

ClientSampleId :

VF0509SBS01

Tot Ion:105 Resp: 314657

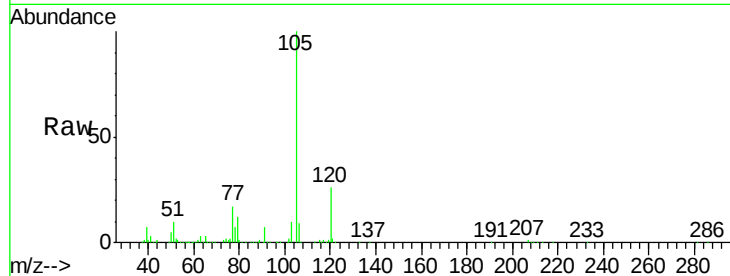
Ion Ratio Lower Upper

105 100

120 25.0 12.7 38.0

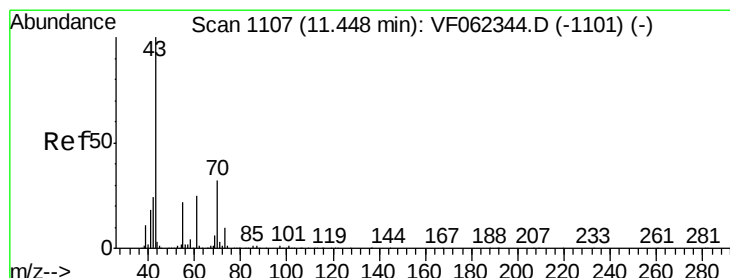
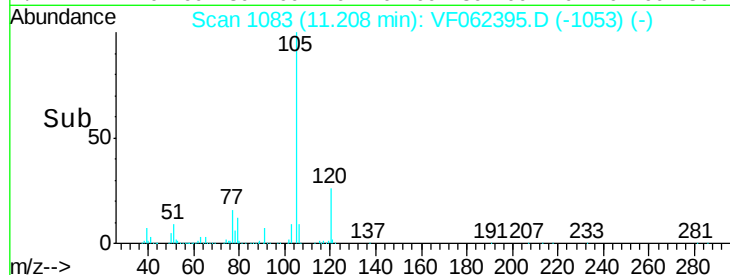
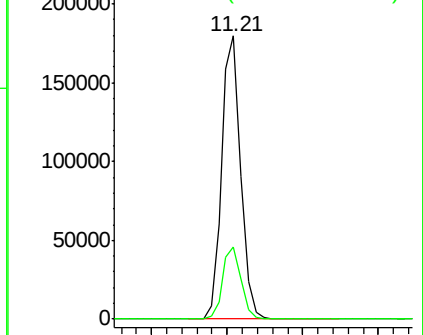
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 18.597 ug/l

RT: 11.44 min Scan# 1106

Delta R.T. -0.01 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

Tgt Ion: 43 Resp: 54375

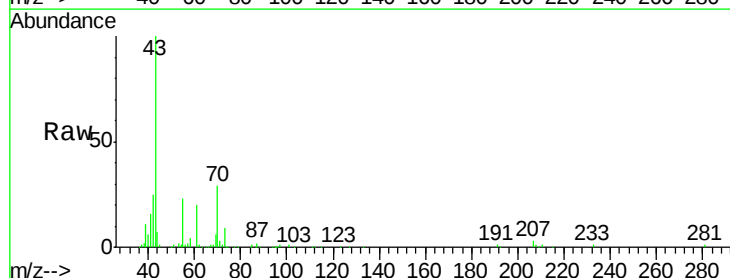
Ion Ratio Lower Upper

43 100

70 36.6 26.5 39.7

55 24.6 17.8 26.6

61 22.8 20.2 30.2

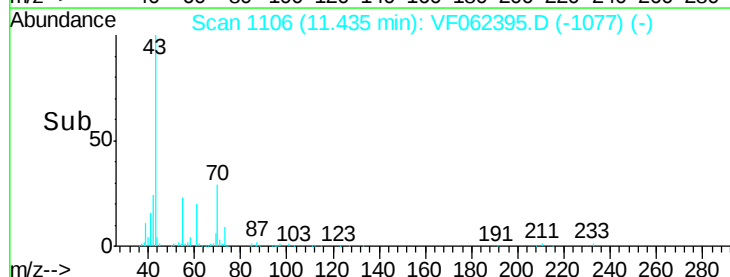
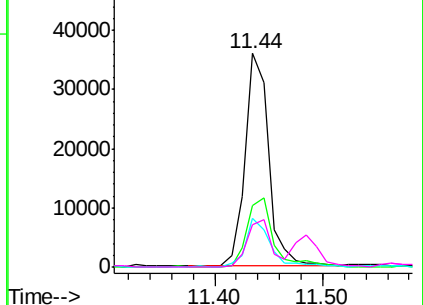


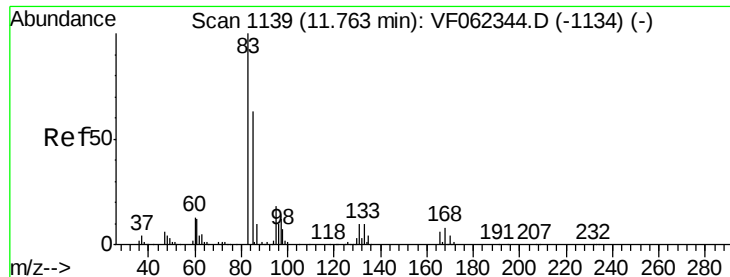
Abundance Ion 43.00 (42.70 to 43.70): VF0

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





#75

1,1,2,2-Tetrachloroethane

Concen: 20.975 ug/l

RT: 11.76 min Scan# 1139

Delta R.T. -0.00 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

Instrument :

MSVOA_F

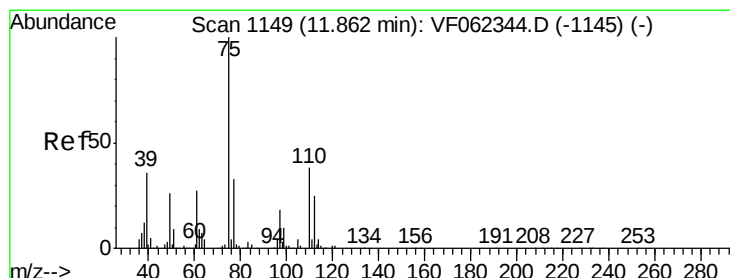
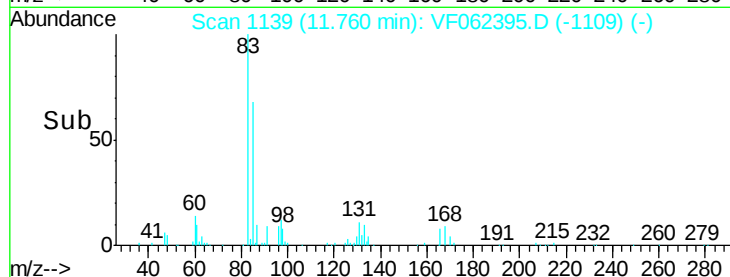
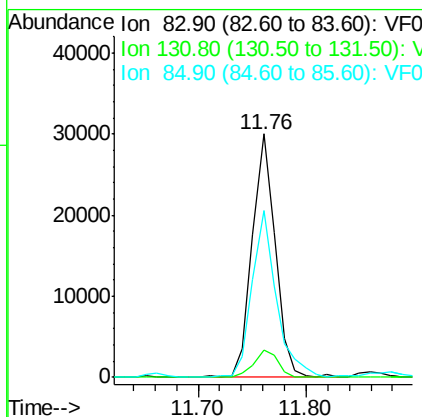
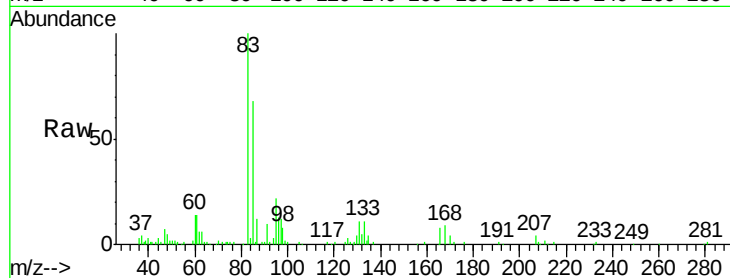
ClientSampleId :

VF0509SBS01

Tot Ion:	83	Resp:	44727
Ion Ratio	Lower	Upper	
83	100		
131	11.8	5.8	17.4
85	72.3	35.3	105.7

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 20.618 ug/l

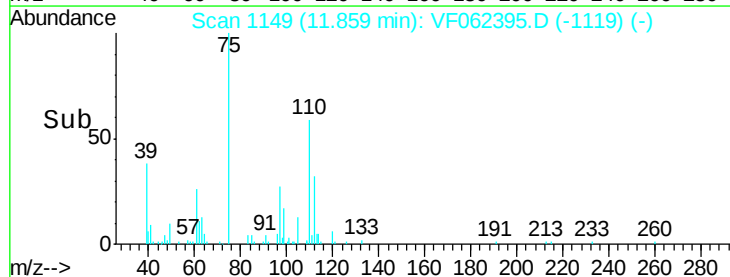
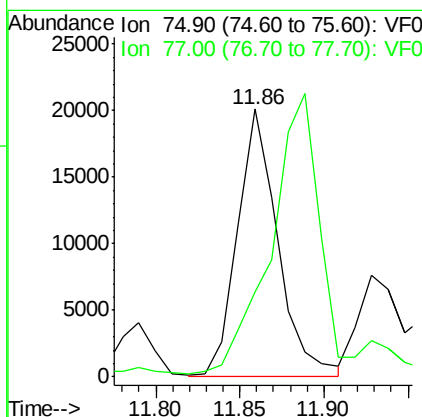
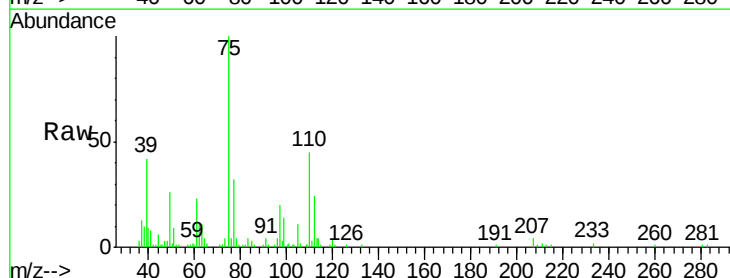
RT: 11.86 min Scan# 1149

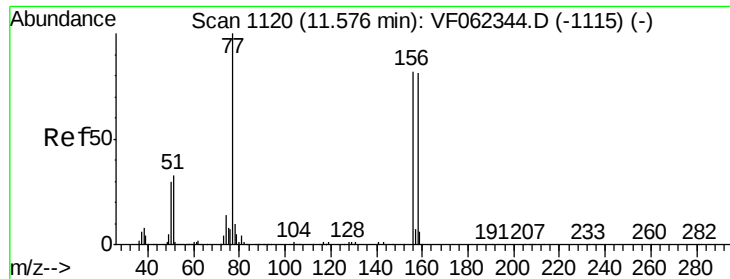
Delta R.T. -0.00 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

Tgt Ion:	75	Resp:	33543
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 22.177 ug/l

RT: 11.57 min Scan# 1120

Delta R.T. -0.00 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

Instrument :

MSVOA_F

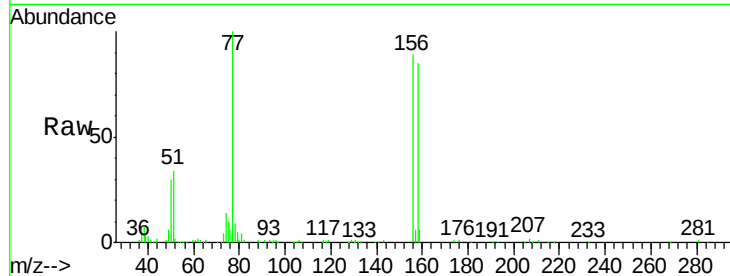
ClientSampleId :

VF0509SBS01

Tot Ion:	156	Resp:	79266
Ion Ratio	Lower	Upper	
156	100		
77	126.6	64.8	194.3
158	96.8	49.1	147.3

Manual Integrations
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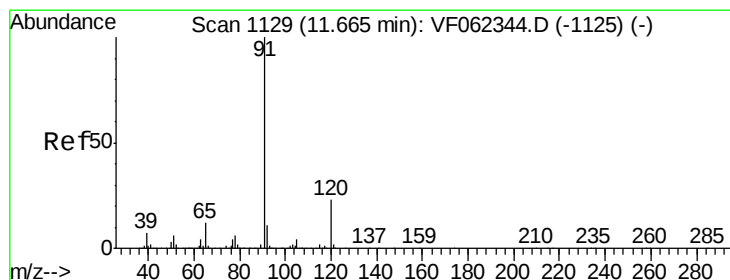
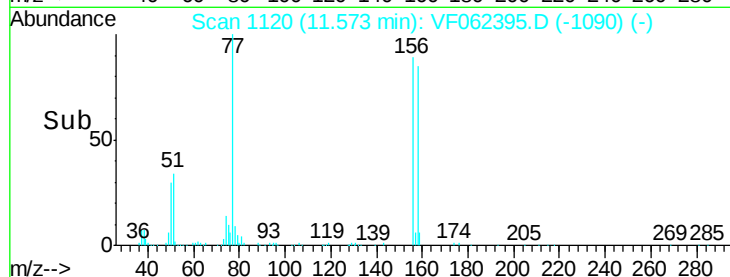
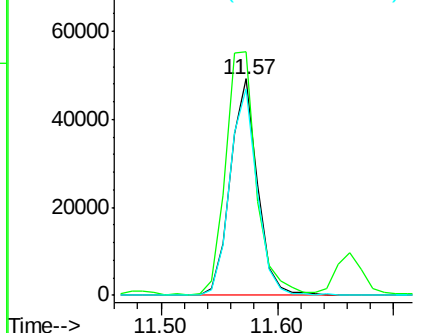
MMDadoda
5/10/2019 11:03:35 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 22.393 ug/l

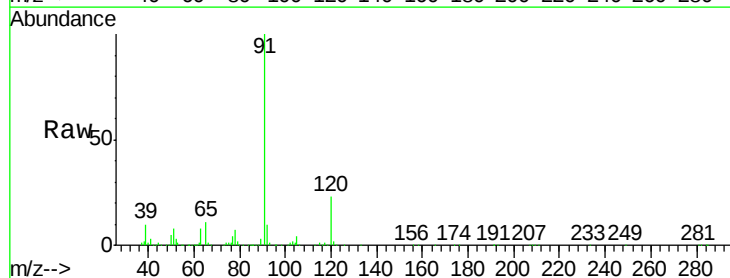
RT: 11.66 min Scan# 1129

Delta R.T. -0.00 min

Lab File: VF062395.D

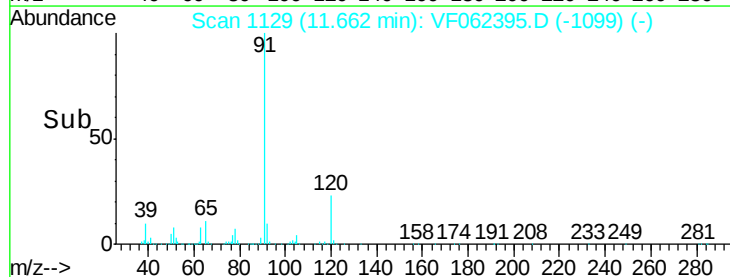
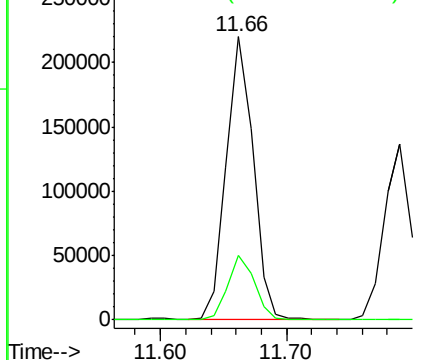
Acq: 9 May 2019 14:58

Tgt Ion:	91	Resp:	324692
Ion Ratio	Lower	Upper	
91	100		
120	22.7	11.9	35.5



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





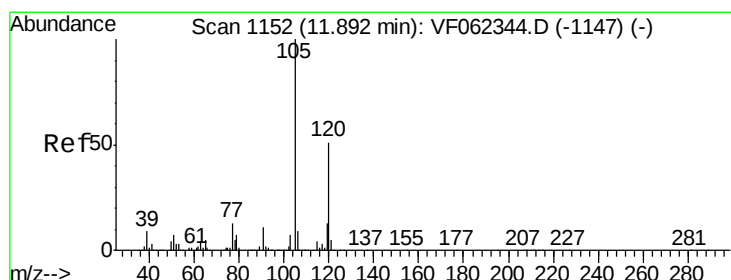
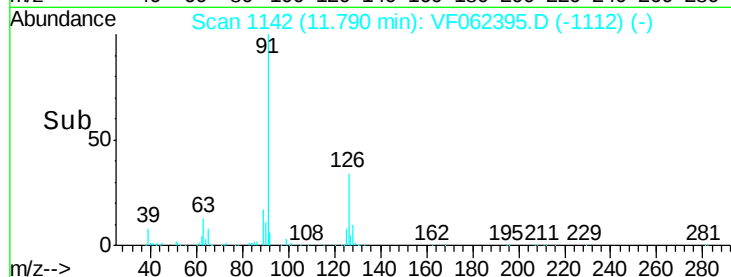
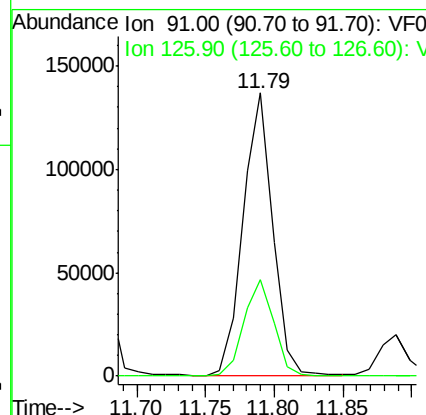
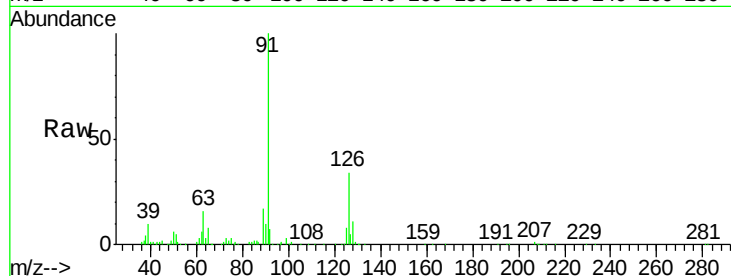
#79
 2-Chlorotoluene
 Concen: 22.765 ug/l
 RT: 11.79 min Scan# 1142
 Delta R.T. -0.00 min
 Lab File: VF062395.D
 Acq: 9 May 2019 14:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0509SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
126	35.1	17.8	53.4

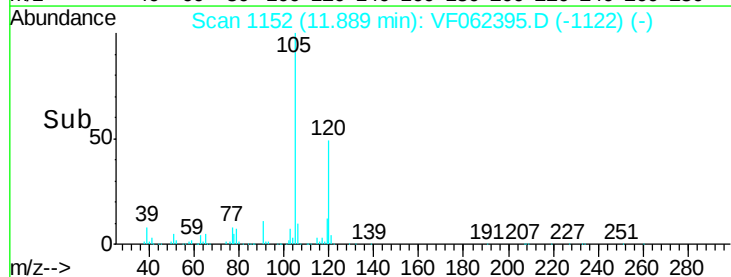
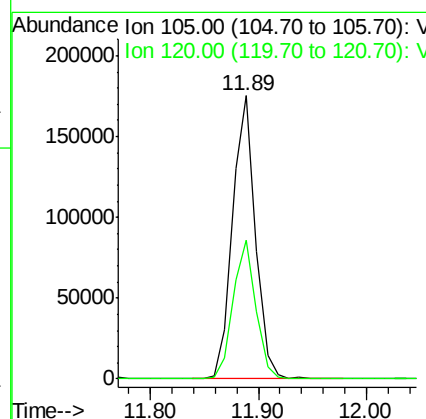
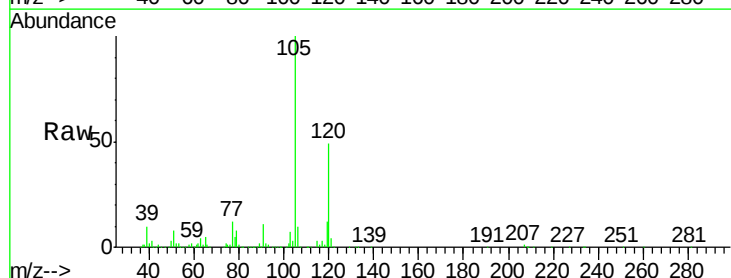
Manual Integrations
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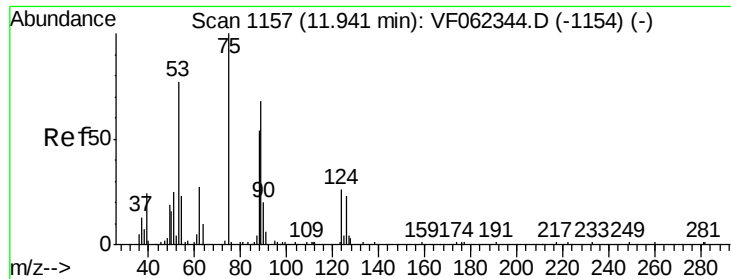
MMDadoda
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#80
 1,3,5-Trimethylbenzene
 Concen: 21.651 ug/l
 RT: 11.89 min Scan# 1152
 Delta R.T. -0.00 min
 Lab File: VF062395.D
 Acq: 9 May 2019 14:58

Tgt Ion	Ratio	Lower	Upper
105	100		
120	48.5	24.6	74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 20.638 ug/l m

RT: 11.93 min Scan# 1156

Delta R.T. -0.01 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

Instrument :

MSVOA_F

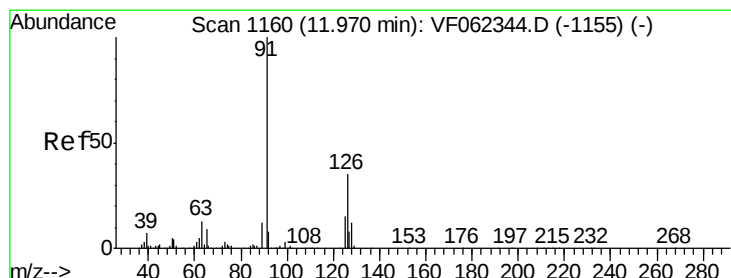
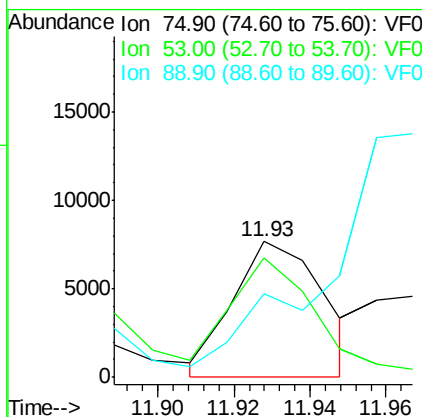
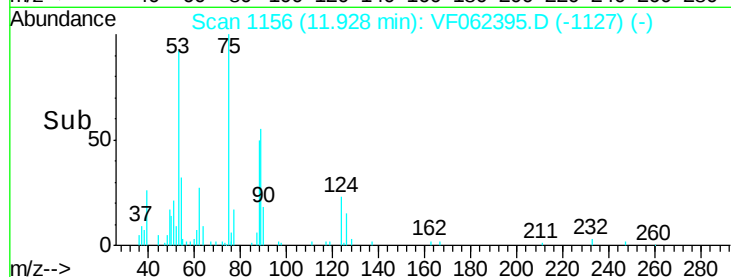
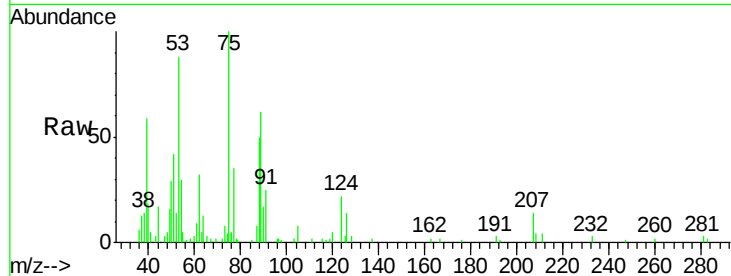
ClientSampleId :

VF0509SBS01

Tot Ion:	75	Resp:	12621
Ion Ratio	Lower	Upper	
75	100		
53	88.2	71.9	107.9
89	0.0	0.0	0.0

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#82

4-Chlorotoluene

Concen: 22.703 ug/l

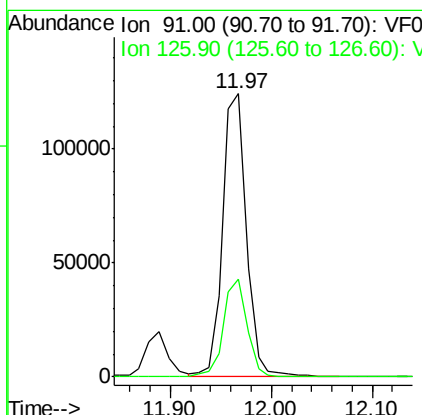
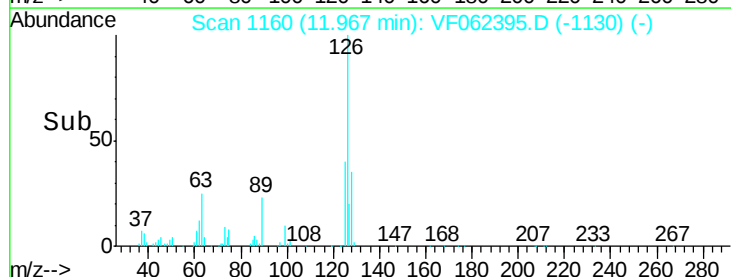
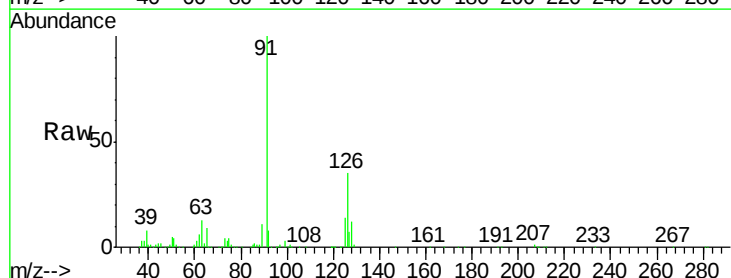
RT: 11.97 min Scan# 1160

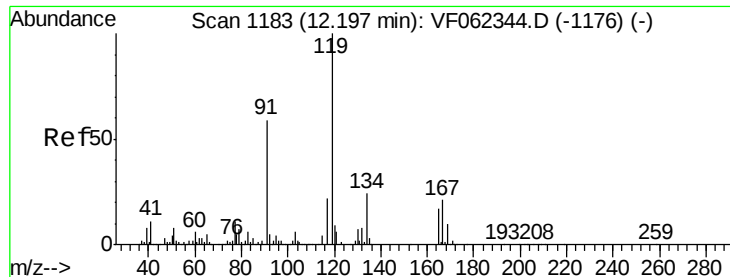
Delta R.T. -0.00 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

Tgt Ion:	91	Resp:	202167
Ion Ratio	Lower	Upper	
91	100		
126	34.9	17.7	53.1





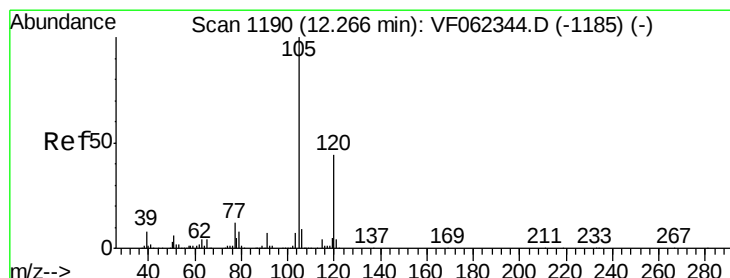
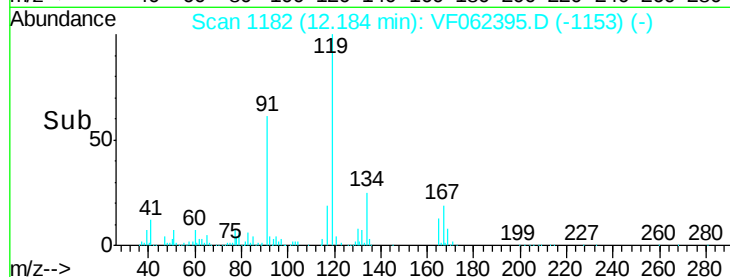
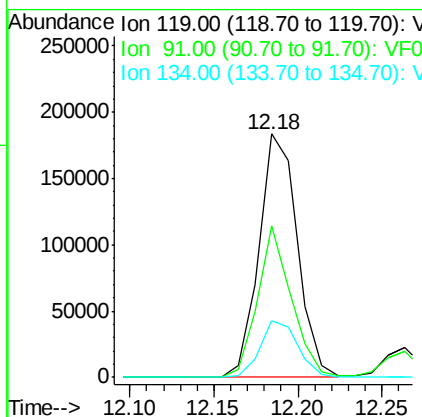
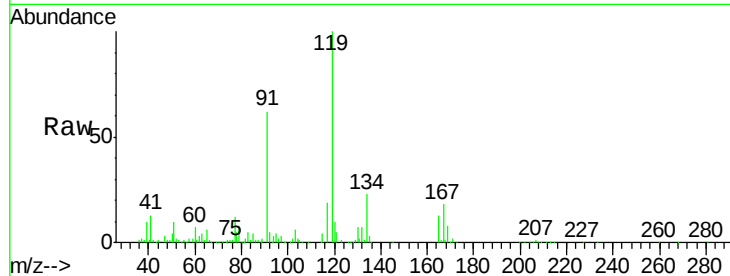
#83
tert-Butylbenzene
Concen: 23.104 ug/l
RT: 12.18 min Scan# 1182
Delta R.T. -0.01 min
Lab File: VF062395.D
Acq: 9 May 2019 14:58

Instrument :
MSVOA_F
ClientSampleId :
VF0509SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	289840		
91	54.9	30.4	91.3	
134	23.2	11.9	35.7	

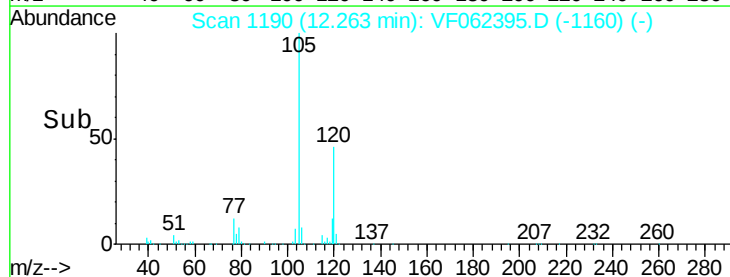
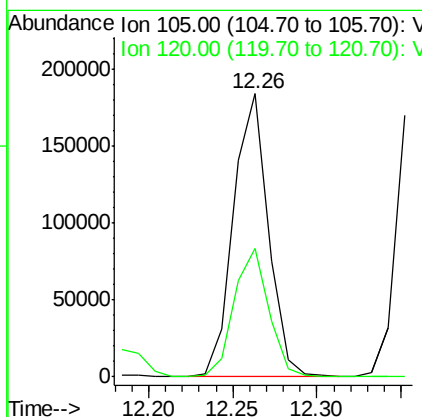
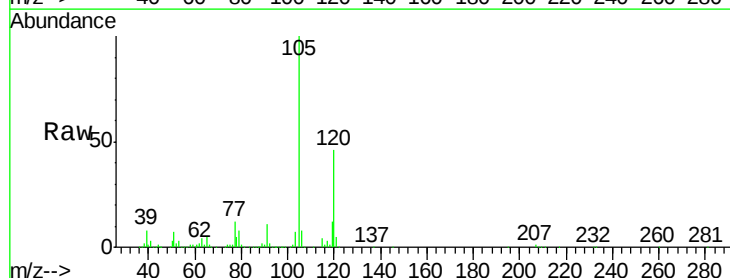
Manual Integrations
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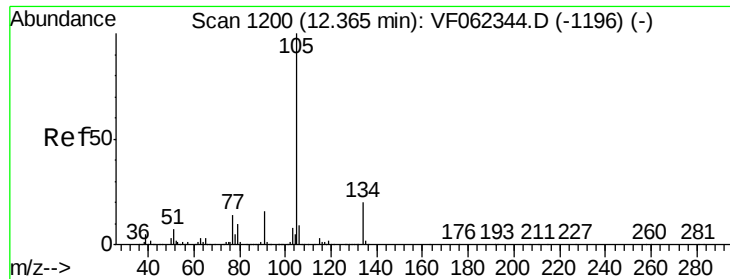
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 22.769 ug/l
RT: 12.26 min Scan# 1190
Delta R.T. -0.00 min
Lab File: VF062395.D
Acq: 9 May 2019 14:58

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	265983		
120	45.3	22.6	67.7	





#85

sec-Butylbenzene

Concen: 22.411 ug/l

RT: 12.36 min Scan# 1200

Delta R.T. -0.00 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

Instrument :

MSVOA_F

ClientSampleID :

VF0509SBS01

Tot Ion:105 Resp: 342212

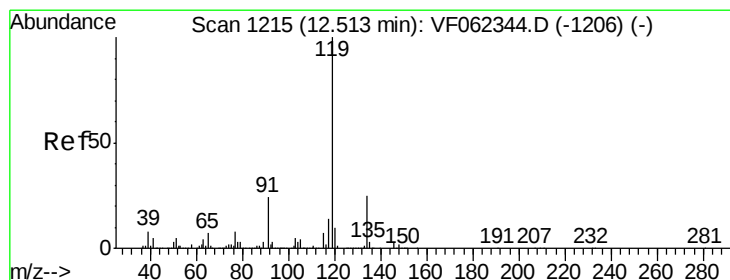
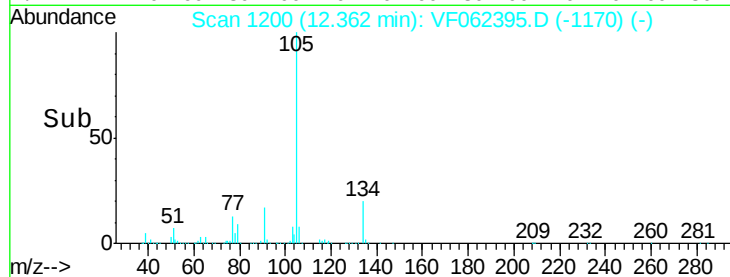
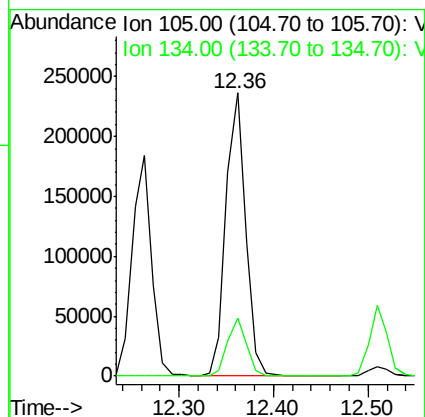
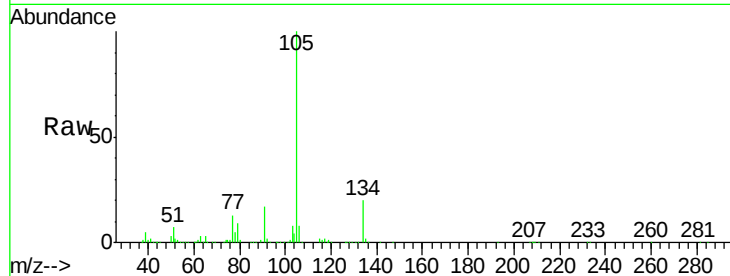
Ion Ratio Lower Upper

105 100

134 19.8 9.8 29.5

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#86

p-Isopropyltoluene

Concen: 22.079 ug/l

RT: 12.51 min Scan# 1215

Delta R.T. -0.00 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

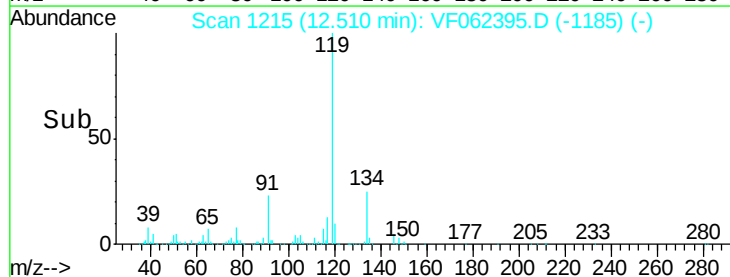
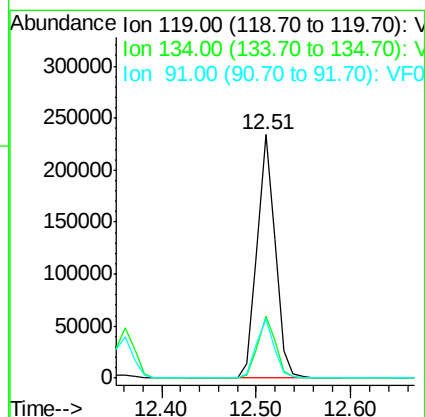
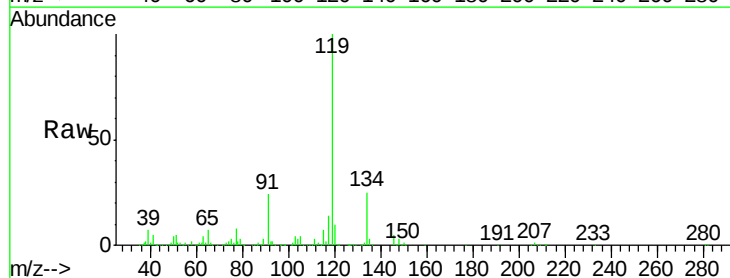
Tgt Ion:119 Resp: 313239

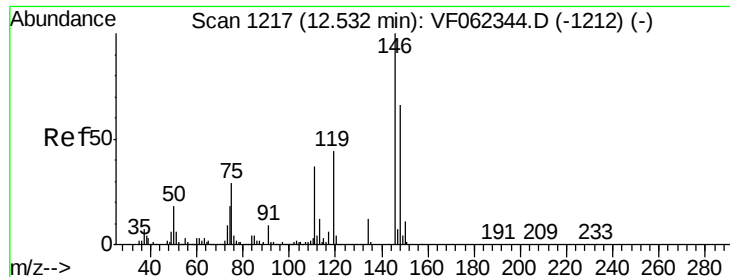
Ion Ratio Lower Upper

119 100

134 25.1 12.9 38.7

91 24.2 12.3 36.8





#87

1,3-Dichlorobenzene

Concen: 21.594 ug/l

RT: 12.53 min Scan# 1217

Delta R.T. -0.00 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

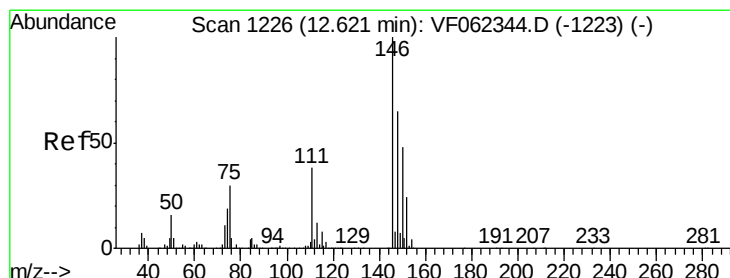
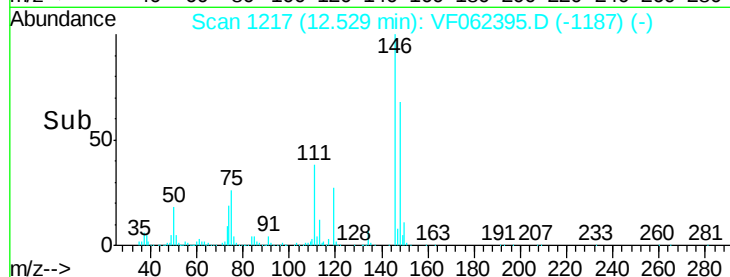
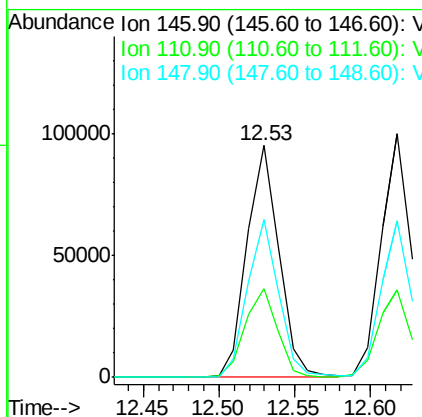
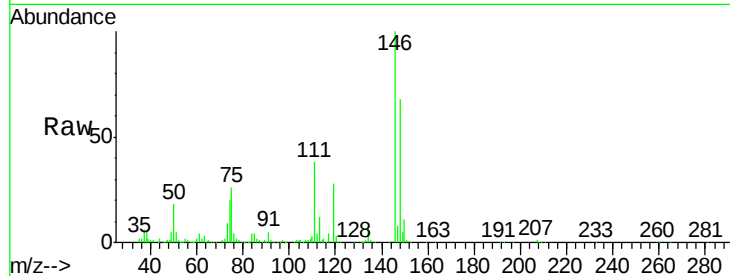
Instrument :
MSVOA_F

ClientSampleId :
VF0509SBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	140961		
111	39.1	18.3	54.8	
148	66.8	32.3	96.9	

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 22.339 ug/l

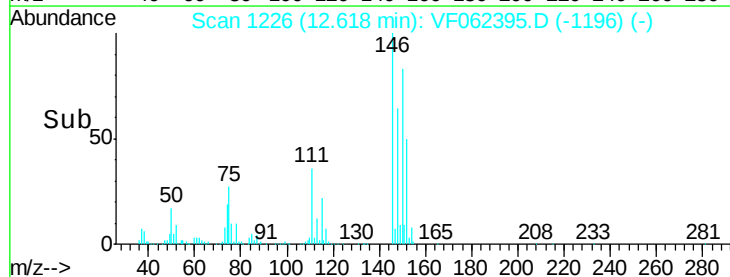
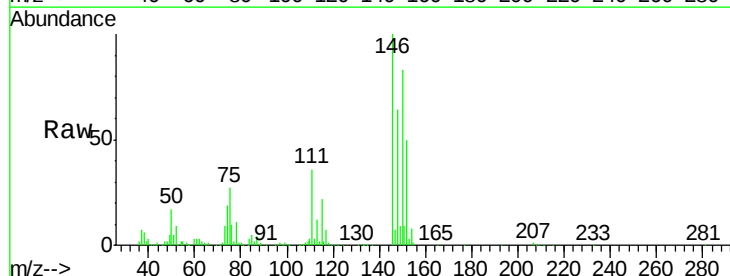
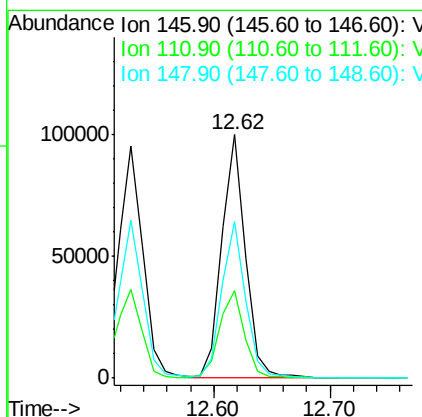
RT: 12.62 min Scan# 1226

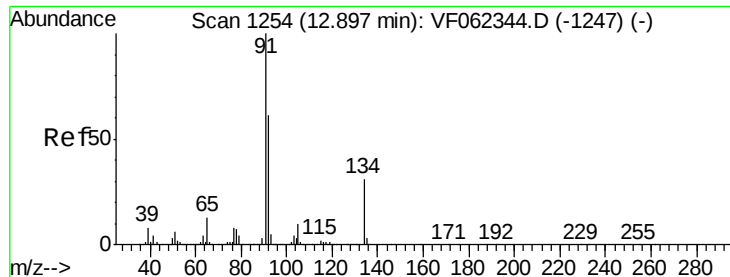
Delta R.T. -0.00 min

Lab File: VF062395.D

Acq: 9 May 2019 14:58

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	140748		
111	38.7	18.8	56.3	
148	64.5	32.2	96.6	





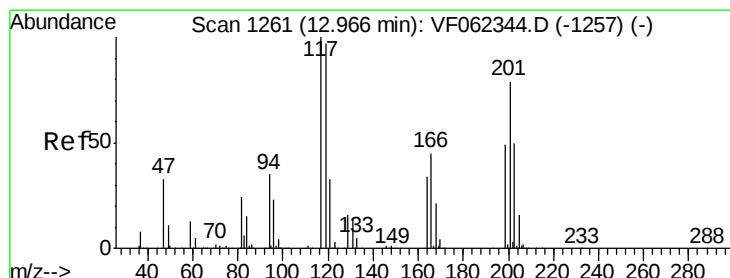
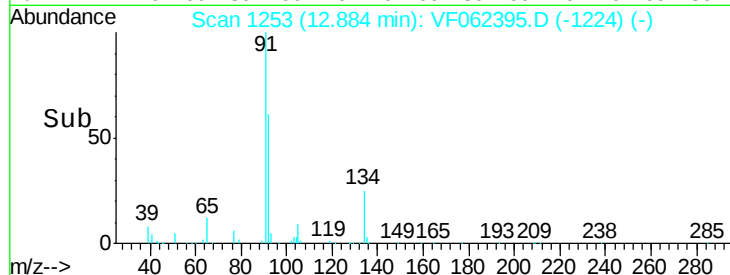
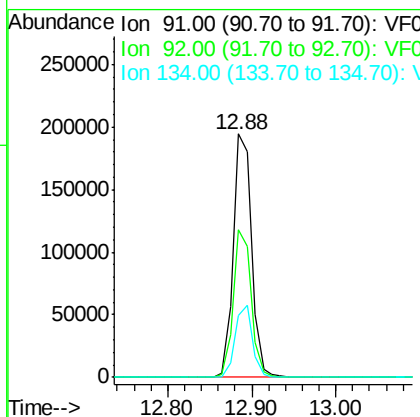
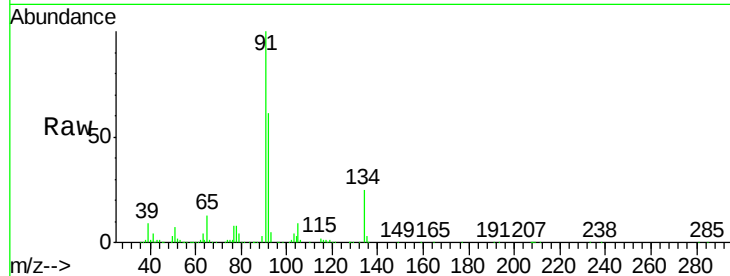
#89
n-Butylbenzene
Concen: 23.256 ug/l
RT: 12.88 min Scan# 1253
Delta R.T. -0.01 min
Lab File: VF062395.D
Acq: 9 May 2019 14:58

Instrument :
MSVOA_F
ClientSampleId :
VF0509SBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	293540		
92	59.3	30.0	90.0	
134	28.1	14.1	42.4	

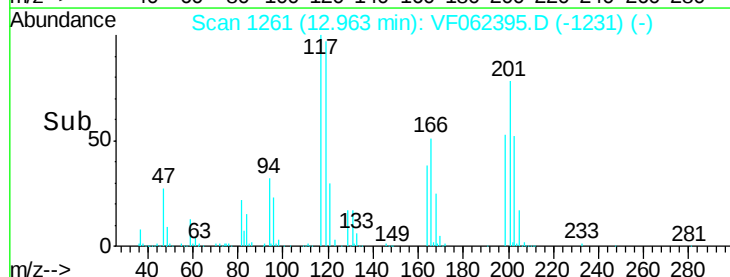
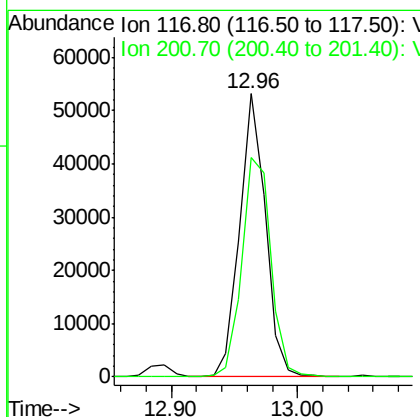
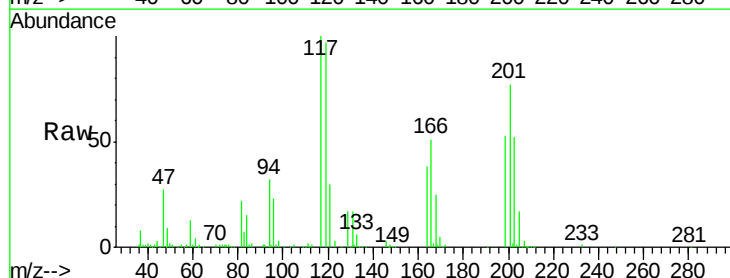
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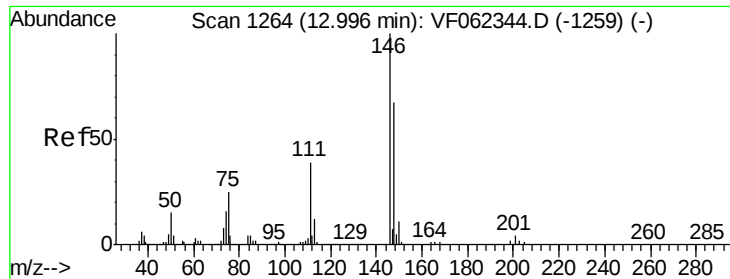
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#90
Hexachloroethane
Concen: 21.307 ug/l
RT: 12.96 min Scan# 1261
Delta R.T. -0.00 min
Lab File: VF062395.D
Acq: 9 May 2019 14:58

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	75475		
201	86.9	46.2	138.5	





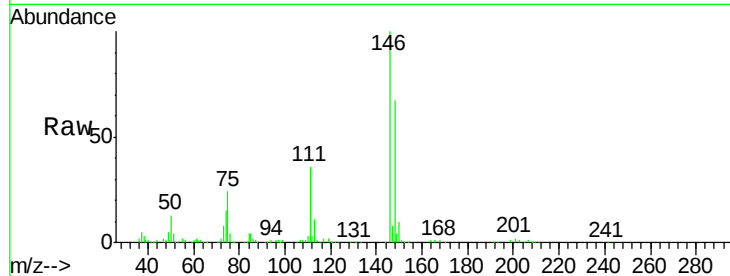
#91
 1,2-Dichlorobenzene
 Concen: 21.784 ug/l
 RT: 12.99 min Scan# 1264
 Delta R.T. -0.00 min
 Lab File: VF062395.D
 Acq: 9 May 2019 14:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0509SBS01

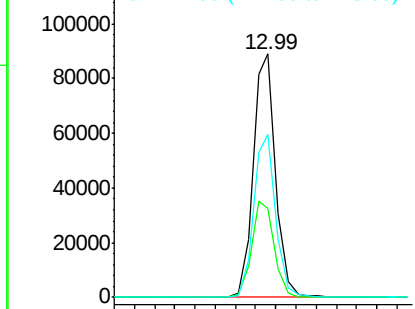
Tot Ion	Ratio	Resp	Lower	Upper
146	100	137642		
111	39.8	20.0	60.0	
148	66.2	33.1	99.5	

Manual Integrations
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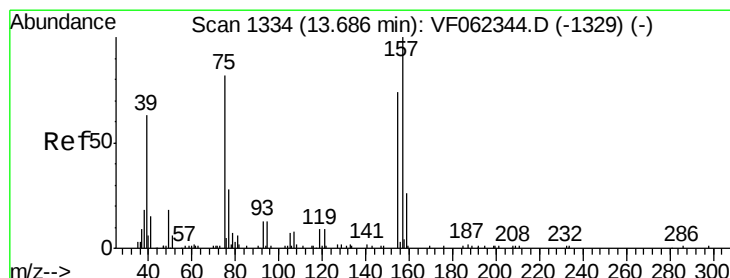
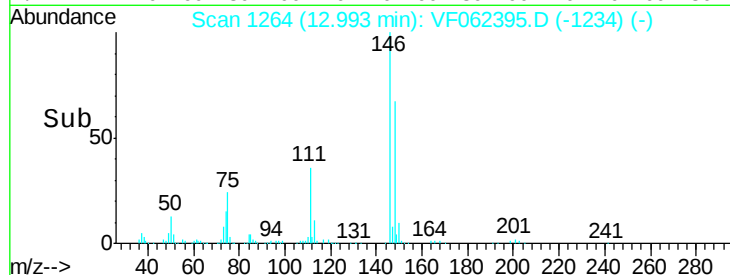
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Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

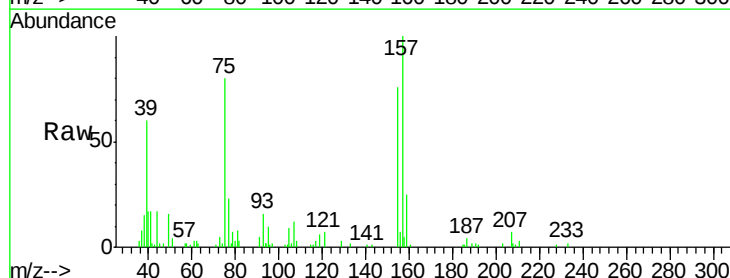


Time-->

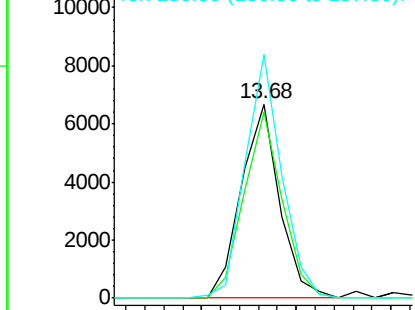


#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.620 ug/l
 RT: 13.68 min Scan# 1334
 Delta R.T. -0.00 min
 Lab File: VF062395.D
 Acq: 9 May 2019 14:58

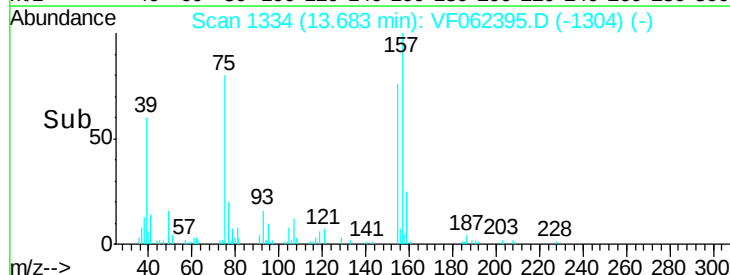
Tgt Ion	Ratio	Resp	Lower	Upper
75	100	9373		
155	95.7	51.8	155.4	
157	120.1	67.3	201.8	

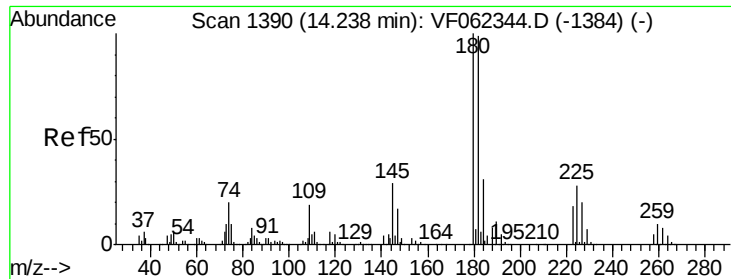


Abundance Ion 74.90 (74.60 to 75.60): VF0
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V



Time-->





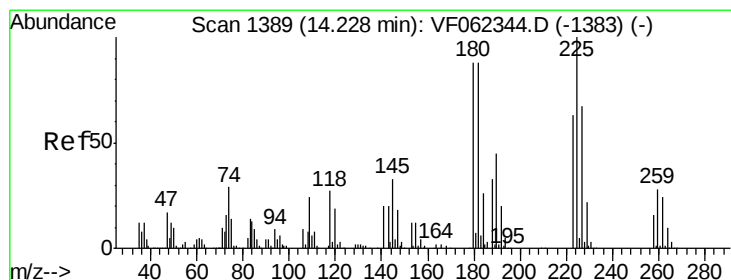
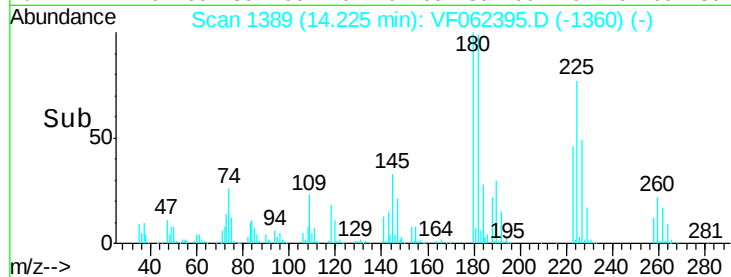
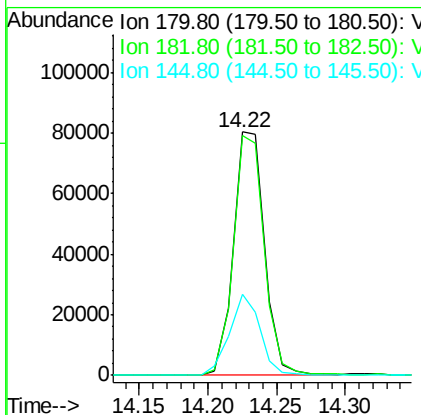
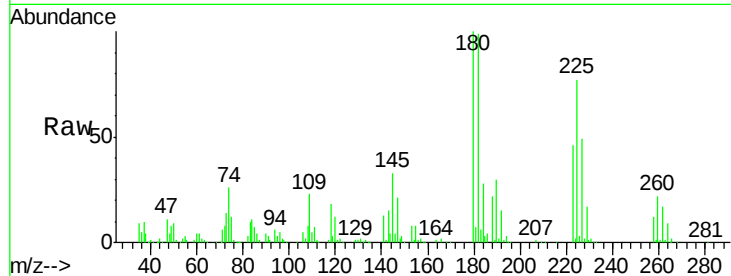
#93
 1,2,4-Trichlorobenzene
 Concen: 22.318 ug/l
 RT: 14.22 min Scan# 1389
 Delta R.T. -0.01 min
 Lab File: VF062395.D
 Acq: 9 May 2019 14:58

Instrument :
 MSVOA_F
 ClientSampled :
 VF0509SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	126482		
182	98.2	49.0	147.0	
145	32.9	16.7	50.1	

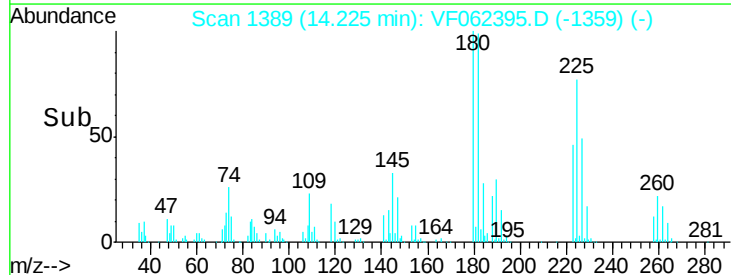
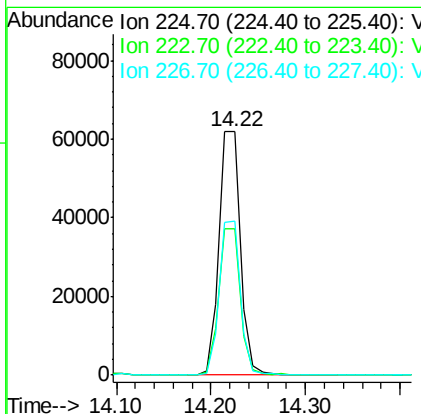
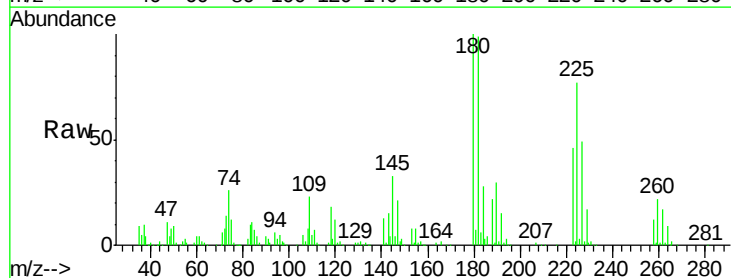
Manual Integrations
 APPROVED

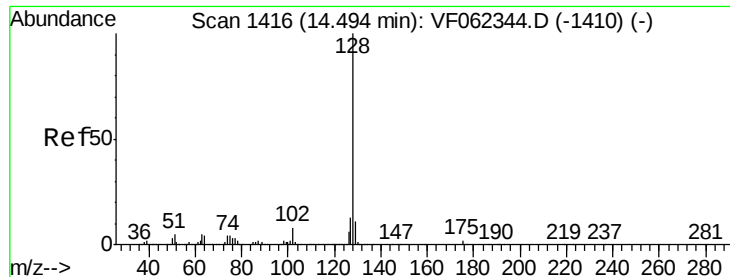
MMDadoda
 5/10/2019 11:03:35 AM



#94
 Hexachlorobutadiene
 Concen: 23.035 ug/l
 RT: 14.22 min Scan# 1389
 Delta R.T. -0.00 min
 Lab File: VF062395.D
 Acq: 9 May 2019 14:58

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	97302		
223	60.3	31.9	95.5	
227	61.7	33.1	99.5	





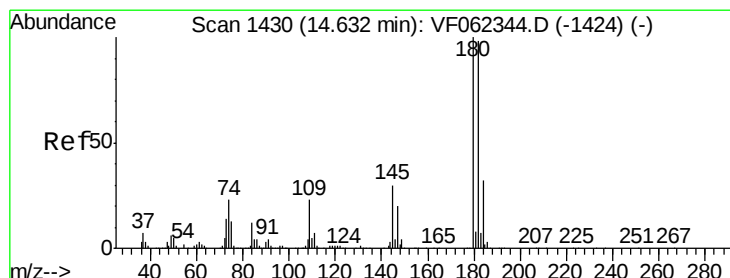
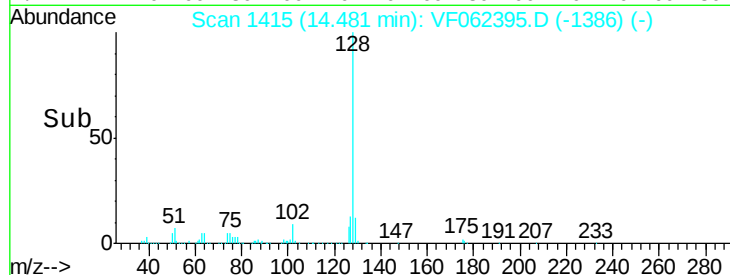
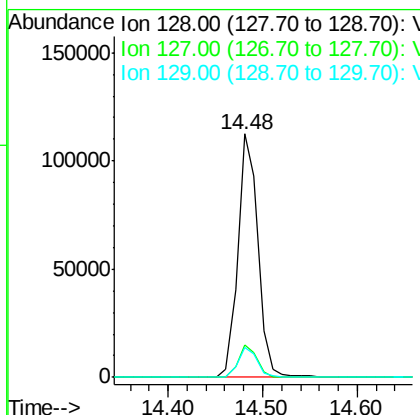
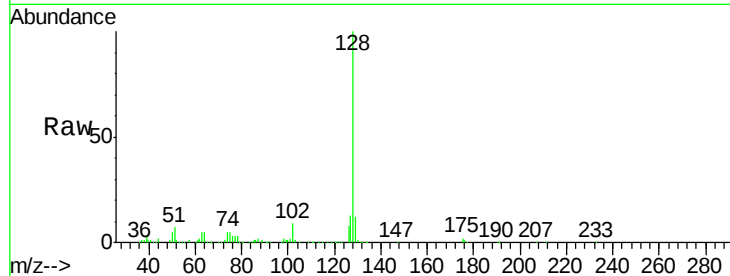
#95
Naphthalene
Concen: 19.415 ug/l
RT: 14.48 min Scan# 1415
Delta R.T. -0.01 min
Lab File: VF062395.D
Acq: 9 May 2019 14:58

Instrument :
MSVOA_F
ClientSampleId :
VF0509SBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	165426		
127	12.8		10.5	15.7
129	11.7		8.6	12.8

Manual Integrations
APPROVED

MMDadoda
5/10/2019 11:03:35 AM



#96
1,2,3-Trichlorobenzene
Concen: 21.666 ug/l
RT: 14.63 min Scan# 1430
Delta R.T. -0.00 min
Lab File: VF062395.D
Acq: 9 May 2019 14:58

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	118960		
182	95.3		49.4	148.0
145	29.1		14.8	44.3

