

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030419\
 Data File : VF061838.D
 Acq On : 5 Mar 2019 00:40
 Operator : VA/AP
 Sample : K1712-07
 Misc : 5.75u/5mL/MSVOA-F/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 Z-2-1

Manual Integrations
 APPROVED

MMDadoda
 3/5/2019 10:48:36 AM

Quant Time: Mar 05 05:52:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:04:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	238973	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.59	114	388919	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.77	117	321405	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.54	152	149347	50.00	ug/l	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.84	65	94830	54.11	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	108.22%	
35) Dibromofluoromethane	4.10	113	135702	46.99	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	93.98%	
50) Toluene-d8	7.55	98	343426	41.36	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	82.72%	
62) 4-Bromofluorobenzene	11.40	95	146140	43.50	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	87.00%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.97	85	132	0.048	ug/l #	43
3) Chloromethane	1.07	50	334	0.116	ug/l #	42
4) Vinyl Chloride	1.10	62	67	0.025	ug/l #	1
5) Bromomethane	1.32	94	463	0.251	ug/l #	3
6) Chloroethane	1.45	64	68	0.052	ug/l #	1
14) Allyl chloride	1.91	41	299	0.119	ug/l	90
16) Acetone	2.24	43	18458	49.092	ug/l	95
17) Carbon Disulfide	1.82	76	126	0.020	ug/l #	1
19) Methyl tert-butyl Ether	2.42	73	182	0.052	ug/l #	1
20) Methylene Chloride	2.24	84	29413m	12.950	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	78	0.035	ug/l #	1
22) Diisopropyl ether	2.79	45	531	0.088	ug/l #	1
23) Vinyl Acetate	3.20	43	351	0.119	ug/l #	74
24) 1,1-Dichloroethane	2.88	63	101	0.028	ug/l #	1
25) 2-Butanone	4.28	43	267	0.325	ug/l #	55
26) 2,2-Dichloropropane	3.63	77	60	0.039	ug/l #	52
27) cis-1,2-Dichloroethene	3.44	96	69	0.024	ug/l	1
30) Chloroform	3.87	83	148	0.036	ug/l #	18
31) Cyclohexane	3.73	56	111	0.028	ug/l #	16
32) 1,1,1-Trichloroethane	4.10	97	61	0.022	ug/l #	22
36) 1,1-Dichloropropene	4.38	75	263	0.068	ug/l #	67
37) Ethyl Acetate	4.10	43	504	0.282	ug/l #	30
39) Methylcyclohexane	5.59	83	2521	0.553	ug/l #	48
40) Benzene	4.63	78	961	0.095	ug/l #	52
41) Methacrylonitrile	4.74	41	217	0.237	ug/l #	25
42) 1,2-Dichloroethane	4.87	62	1076	0.446	ug/l #	1
43) Isopropyl Acetate	6.96	43	255	0.120	ug/l #	43
45) 1,2-Dichloropropane	6.26	63	63	0.026	ug/l #	44
48) Methyl methacrylate	6.73	41	173	0.136	ug/l #	31
52) Toluene	7.61	92	1780	0.291	ug/l #	70
53) t-1,3-Dichloropropene	8.21	75	98	0.036	ug/l #	42
54) cis-1,3-Dichloropropene	7.36	75	125	0.034	ug/l #	36
55) 1,1,2-Trichloroethane	8.31	97	92	0.051	ug/l #	16
56) Ethyl methacrylate	8.62	69	125	0.063	ug/l #	68

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030419\
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 ClientSampleId :
 Z-2-1

Manual Integrations
 APPROVED

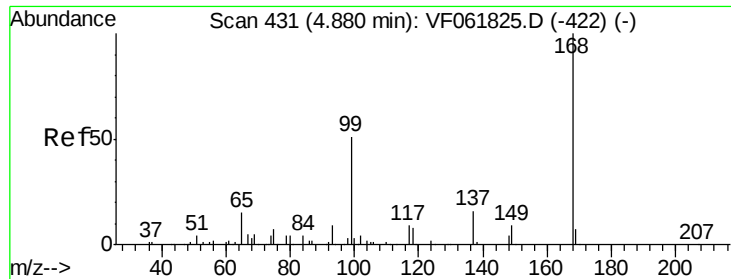
MMDadoda
 3/5/2019 10:48:36 AM

Quant Time: Mar 05 05:52:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:04:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

58) 2-Chloroethyl Vinyl ether	7.28	63	63	0.183	ug/l #	44
64) Tetrachloroethene	8.15	164	67	0.026	ug/l #	1
65) Chlorobenzene	9.78	112	75	0.011	ug/l #	42
67) Ethyl Benzene	9.90	91	462	0.043	ug/l #	45
68) m/p-Xylenes	10.13	106	440	0.106	ug/l #	60
69) o-Xylene	10.70	106	362	0.082	ug/l #	64
70) Styrene	10.79	104	151	0.024	ug/l #	12
73) Isopropylbenzene	11.11	105	211	0.020	ug/l #	48
74) N-amyl acetate	11.37	43	307	0.120	ug/l #	65
76) 1,2,3-Trichloropropane	11.87	75	354	0.273	ug/l #	99
77) Bromobenzene	11.48	156	70	0.027	ug/l #	1
78) n-propylbenzene	11.59	91	863	0.071	ug/l #	63
79) 2-Chlorotoluene	11.71	91	87	0.013	ug/l #	38
80) 1,3,5-Trimethylbenzene	11.82	105	491	0.058	ug/l #	86
81) trans-1,4-Dichloro-2-buten	11.87	75	354	0.570	ug/l #	21
82) 4-Chlorotoluene	11.89	91	236	0.033	ug/l #	37
83) tert-Butylbenzene	12.13	119	295	0.031	ug/l #	75
84) 1,2,4-Trimethylbenzene	12.20	105	606	0.072	ug/l #	91
85) sec-Butylbenzene	12.30	105	678	0.056	ug/l #	54
86) p-Isopropyltoluene	12.46	119	1011	0.099	ug/l #	80
87) 1,3-Dichlorobenzene	12.48	146	220	0.043	ug/l #	26
88) 1,4-Dichlorobenzene	12.56	146	256	0.052	ug/l #	27
89) n-Butylbenzene	12.84	91	886	0.092	ug/l #	72
90) Hexachloroethane	13.06	117	60	0.025	ug/l #	13
91) 1,2-Dichlorobenzene	12.94	146	309	0.063	ug/l #	48
93) 1,2,4-Trichlorobenzene	14.19	180	267	0.076	ug/l #	50
95) Naphthalene	14.45	128	1714	0.281	ug/l #	88
96) 1,2,3-Trichlorobenzene	14.61	180	353	0.110	ug/l #	49

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.02 min

Lab File: VF061838.D

Acq: 5 Mar 2019 00:40

Instrument :

MSVOA_F

ClientSampled :

Z-2-1

Tot Ion:168 Resp: 238973

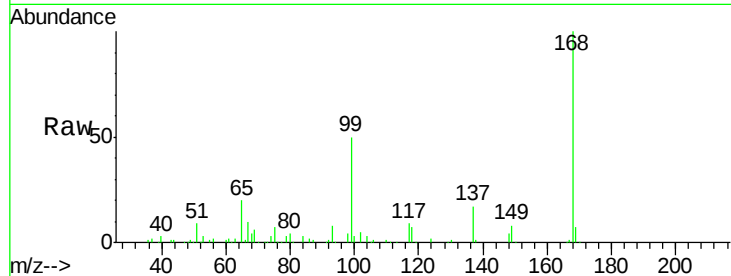
Ion Ratio Lower Upper

168 100

99 50.0 34.9 52.3

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

80000

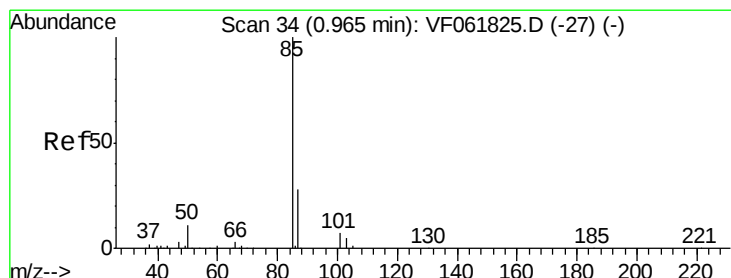
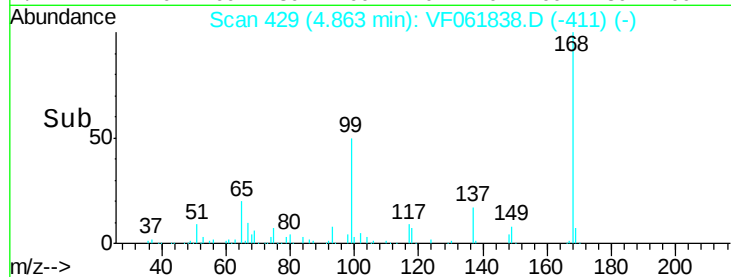
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.048 ug/l

RT: 0.97 min Scan# 34

Delta R.T. 0.00 min

Lab File: VF061838.D

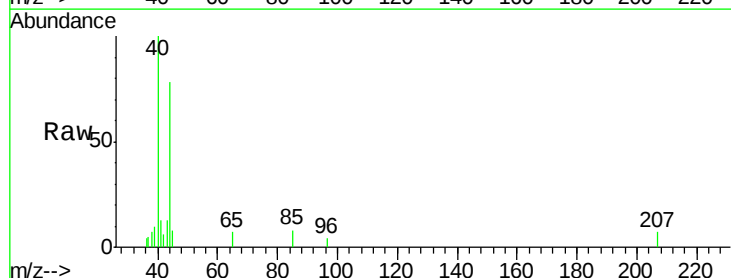
Acq: 5 Mar 2019 00:40

Tgt Ion: 85 Resp: 132

Ion Ratio Lower Upper

85 100

87 0.0 16.1 48.2#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

250

200

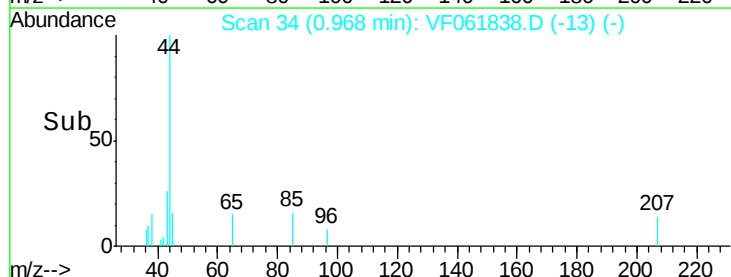
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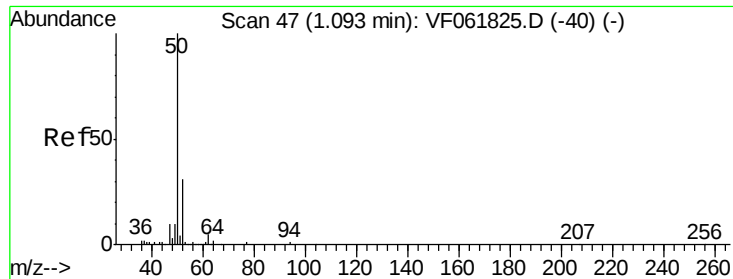
100

50

0

Time-->





#3

Chloromethane

Concen: 0.116 ug/l

RT: 1.07 min Scan# 44

Delta R.T. -0.03 min

Lab File: VF061838.D

Acq: 5 Mar 2019 00:40

Instrument :

MSVOA_F

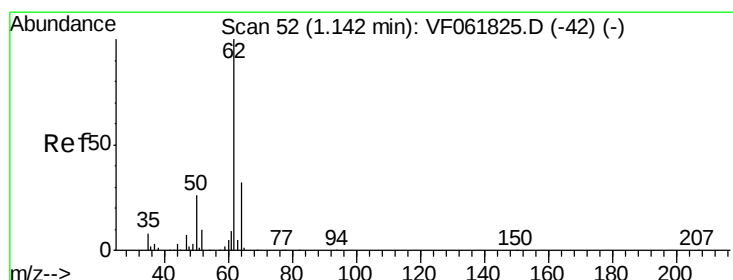
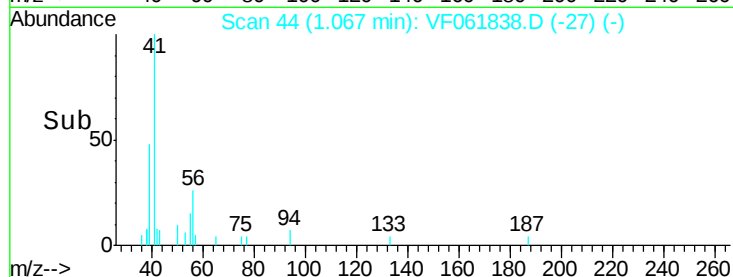
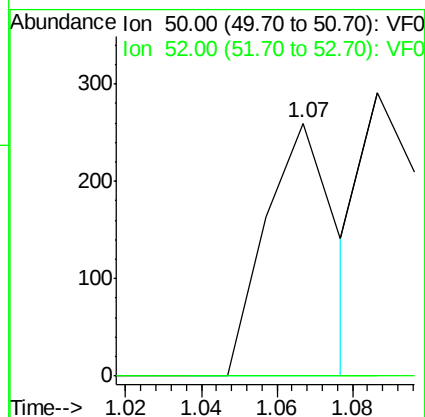
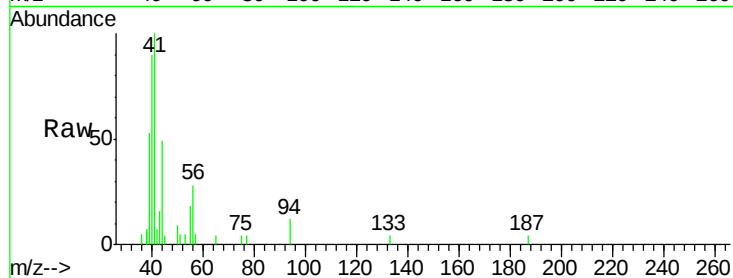
ClientSampled :

Z-2-1

Tot Ion: 50 Resp: 334
 Ion Ratio Lower Upper
 50 100
 52 0.0 26.2 39.4#

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#4

Vinyl Chloride

Concen: 0.025 ug/l

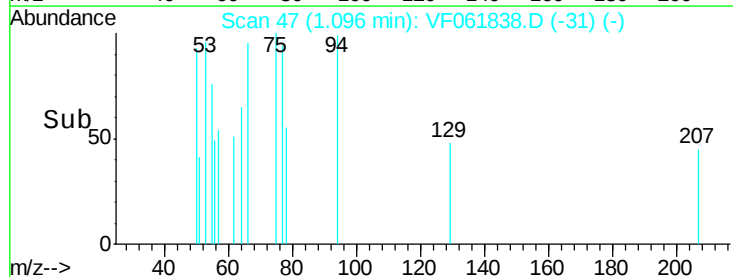
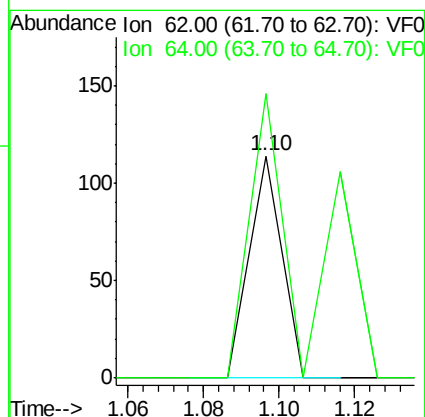
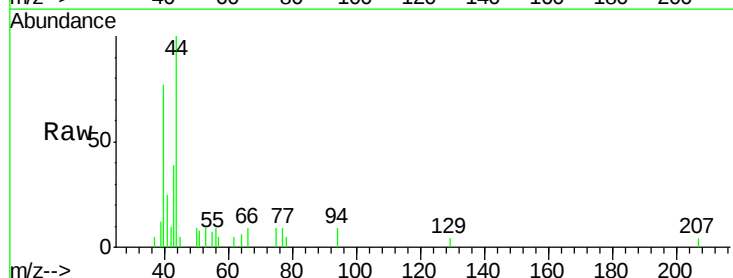
RT: 1.10 min Scan# 47

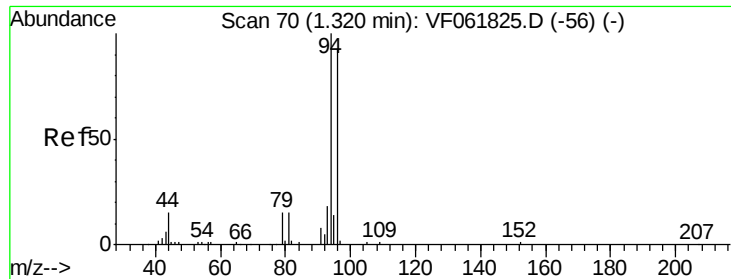
Delta R.T. -0.04 min

Lab File: VF061838.D

Acq: 5 Mar 2019 00:40

Tgt Ion: 62 Resp: 67
 Ion Ratio Lower Upper
 62 100
 64 128.1 27.5 41.3#





#5

Bromomethane

Concen: 0.251 ug/l

RT: 1.32 min Scan# 70

Delta R.T. 0.00 min

Lab File: VF061838.D

Acq: 5 Mar 2019 00:40

Instrument :

MSVOA_F

ClientSampleId :

Z-2-1

Tot Ion: 94 Resp: 463

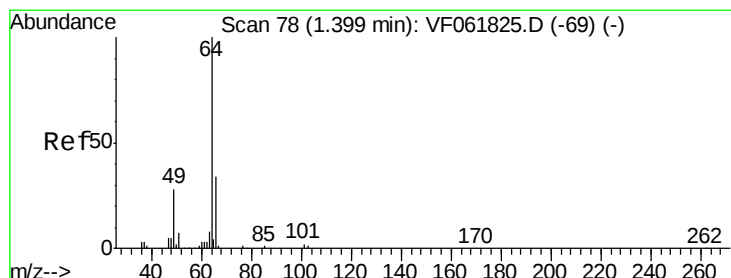
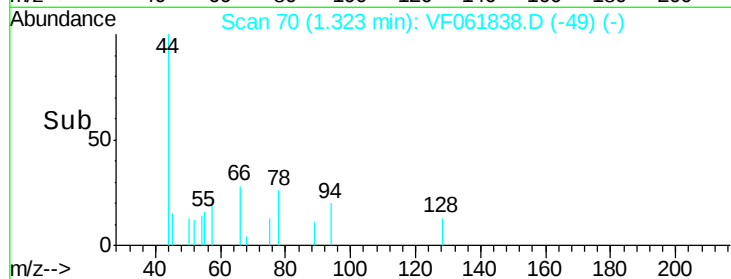
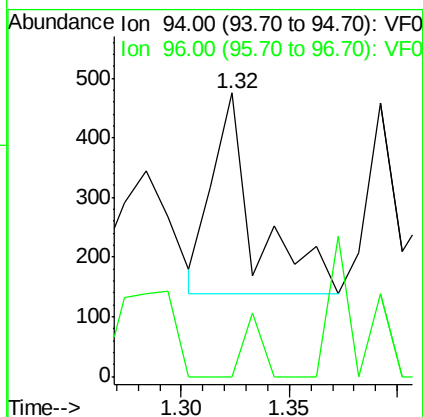
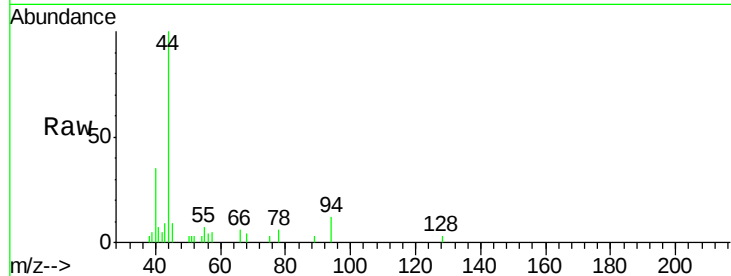
Ion Ratio Lower Upper

94 100

96 0.0 74.6 112.0#

Manual Integrations
APPROVED

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3/5/2019 10:48:36 AM



#6

Chloroethane

Concen: 0.052 ug/l

RT: 1.45 min Scan# 83

Delta R.T. 0.05 min

Lab File: VF061838.D

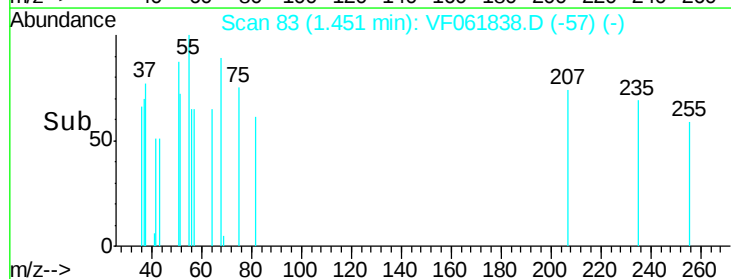
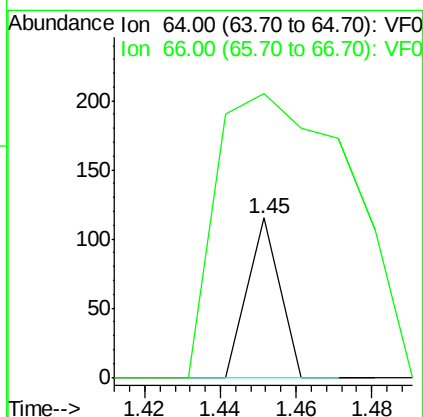
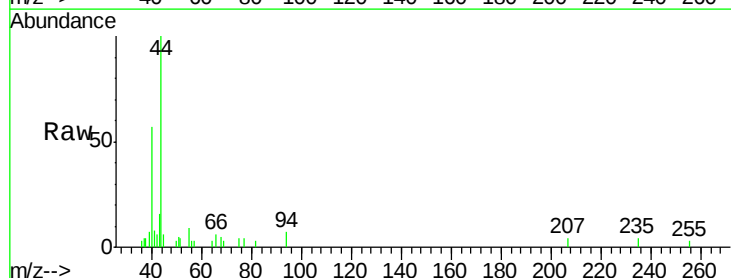
Acq: 5 Mar 2019 00:40

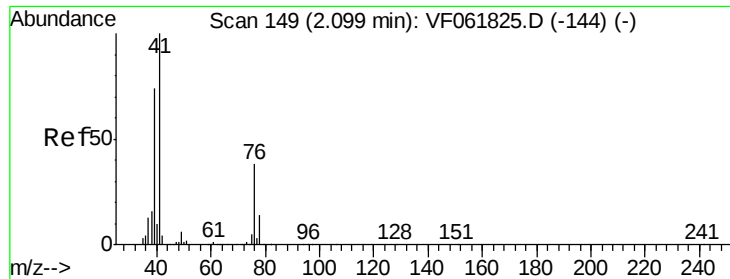
Tgt Ion: 64 Resp: 68

Ion Ratio Lower Upper

64 100

66 178.3 27.9 41.9#





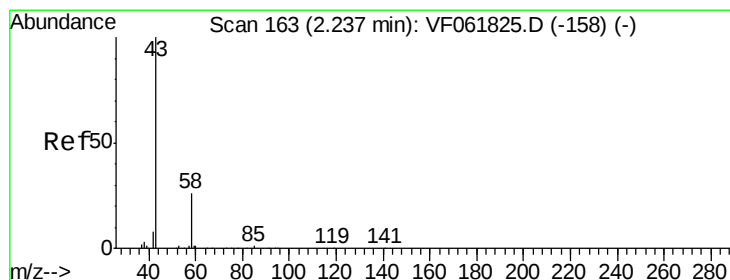
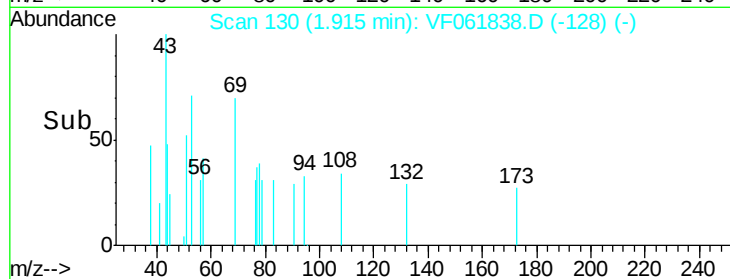
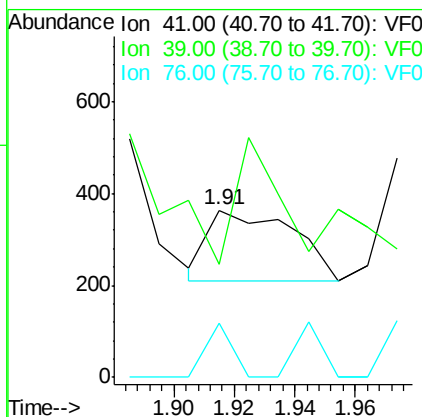
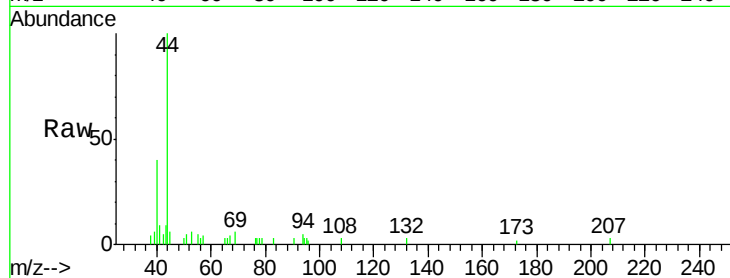
#14
Allvl chloride
Concen: 0.119 ug/l
RT: 1.91 min Scan# 130
Delta R.T. -0.18 min
Lab File: VF061838.D
Acq: 5 Mar 2019 00:40

Instrument :
MSVOA_F
ClientSampled :
Z-2-1

Tot Ion	Ratio	Lower	Upper
41	100		
39	67.6	61.6	92.4
76	32.1	30.3	45.5

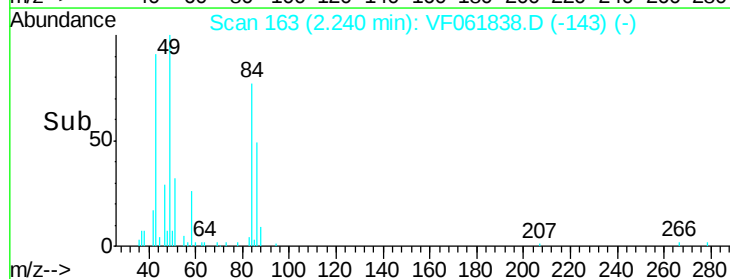
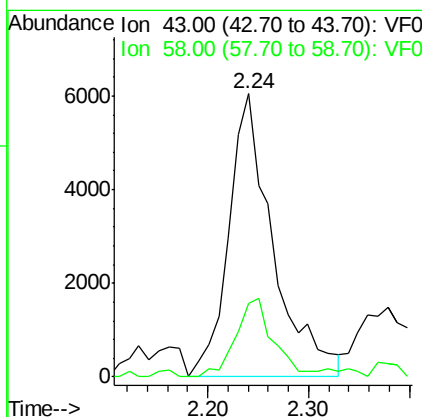
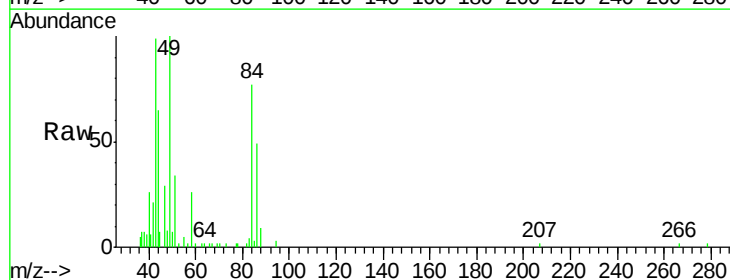
Manual Integrations
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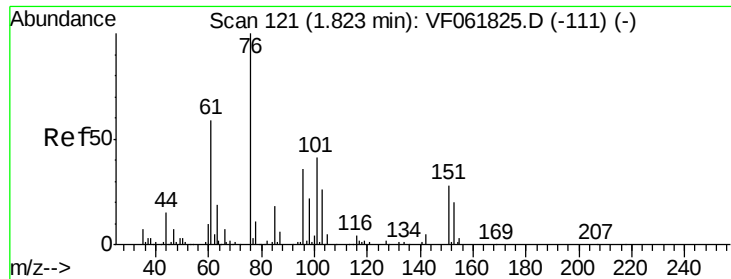
MMDadoda
3/5/2019 10:48:36 AM



#16
Acetone
Concen: 49.092 ug/l
RT: 2.24 min Scan# 163
Delta R.T. -0.01 min
Lab File: VF061838.D
Acq: 5 Mar 2019 00:40

Tgt Ion	Ratio	Lower	Upper
43	100		
58	25.8	22.9	34.3





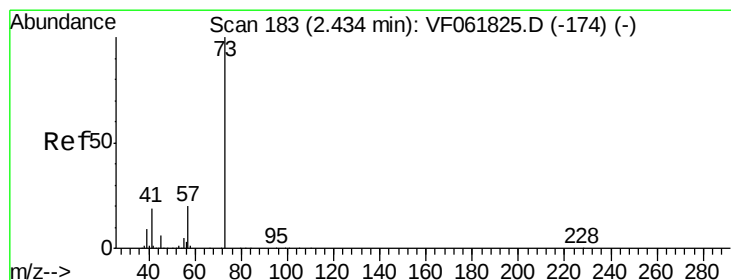
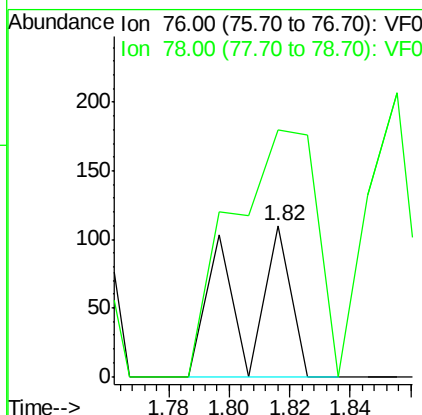
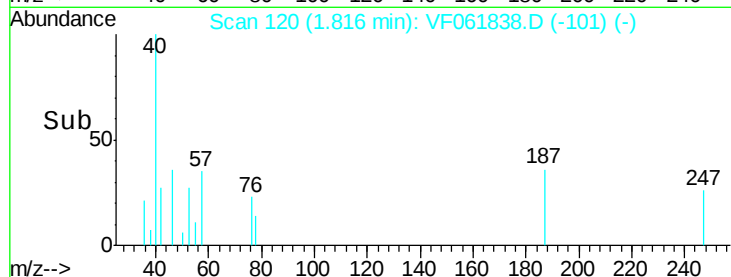
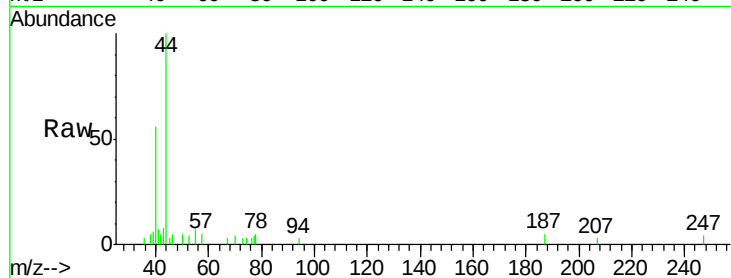
#17
Carbon Disulfide
Concen: 0.020 ug/l
RT: 1.82 min Scan# 120
Delta R.T. -0.01 min
Lab File: VF061838.D
Acq: 5 Mar 2019 00:40

Instrument :
MSVOA_F
ClientSampled :
Z-2-1

Tot Ion: 76 Resp: 126
Ion Ratio Lower Upper
76 100
78 163.6 7.9 11.9#

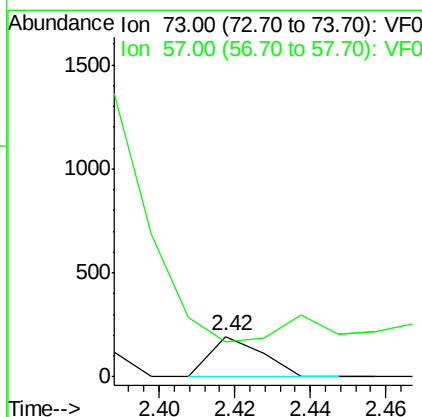
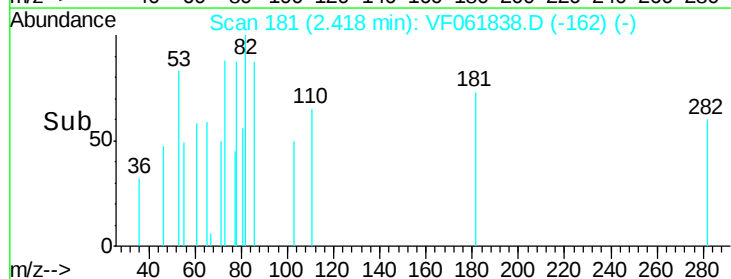
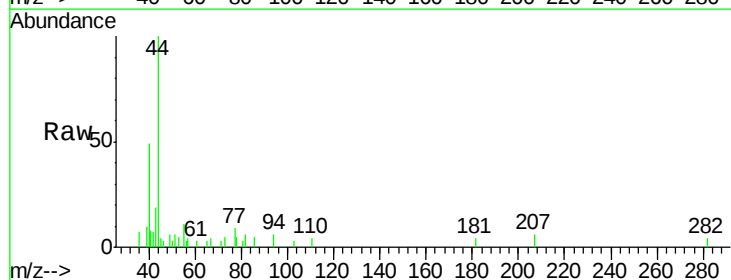
Manual Integrations
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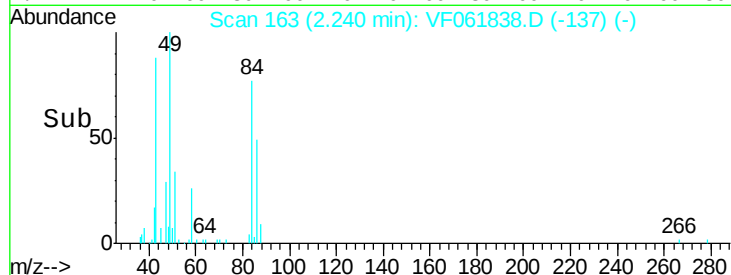
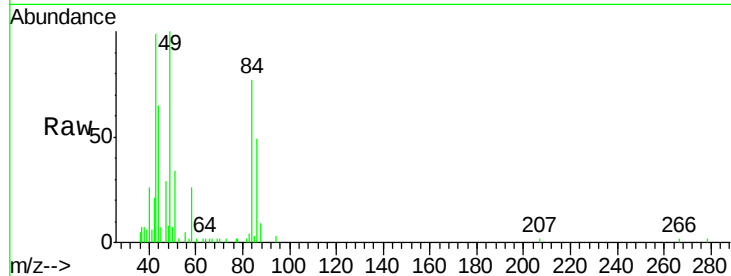
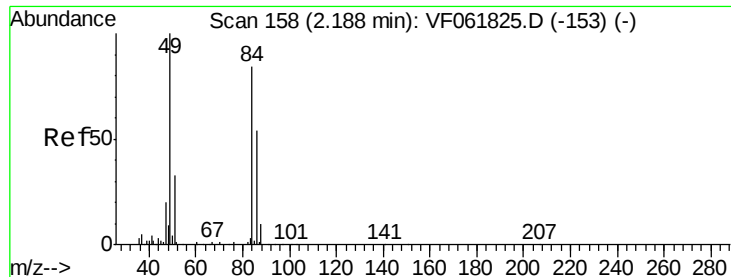
MMDadoda
3/5/2019 10:48:36 AM



#19
Methyl tert-butyl Ether
Concen: 0.052 ug/l
RT: 2.42 min Scan# 181
Delta R.T. -0.01 min
Lab File: VF061838.D
Acq: 5 Mar 2019 00:40

Tgt Ion: 73 Resp: 182
Ion Ratio Lower Upper
73 100
57 86.5 15.8 23.8#





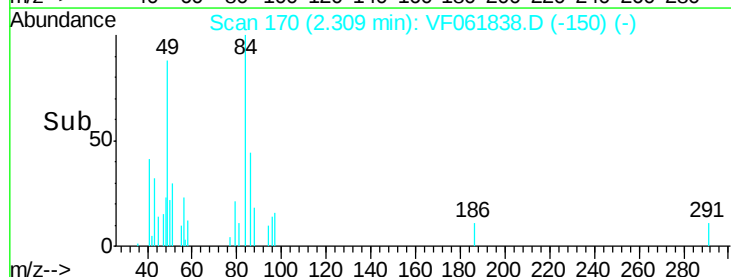
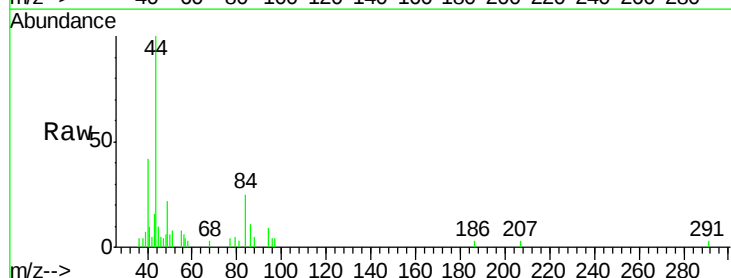
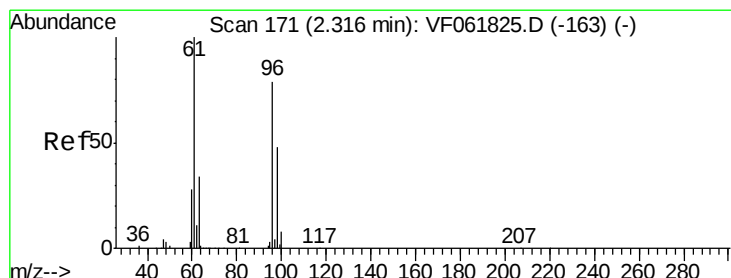
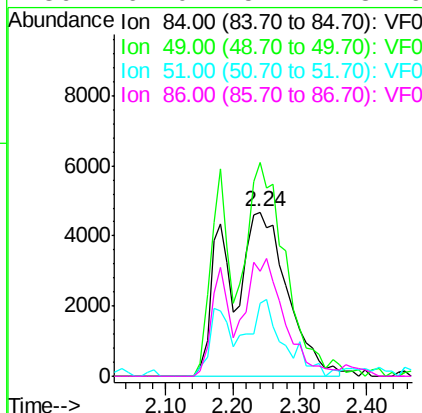
#20
Methvlene Chloride
Concen: 12.950 ug/l m
RT: 2.24 min Scan# 163
Delta R.T. 0.05 min
Lab File: VF061838.D
Acq: 5 Mar 2019 00:40

Tot Ion	Ion	Ratio	Lower	Upper
84	100			
49	130.4	101.8	152.8	
51	44.2	31.1	46.7	
86	64.0	54.4	81.6	

Instrument :
MSVOA_F
ClientSampleId :
Z-2-1

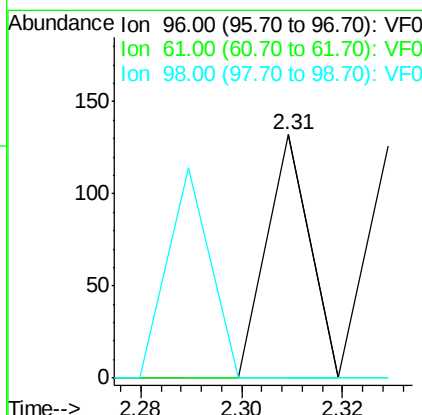
Manual Integrations
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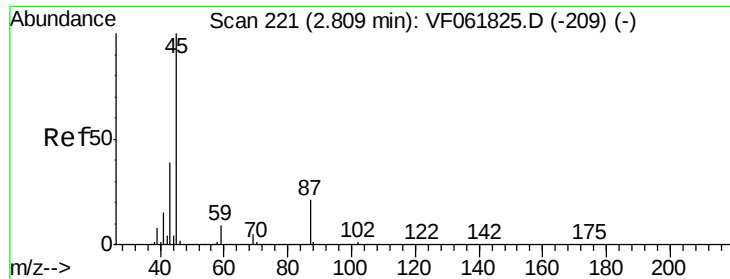
MMDadoda
3/5/2019 10:48:36 AM



#21
trans-1,2-Dichloroethene
Concen: 0.035 ug/l
RT: 2.31 min Scan# 170
Delta R.T. -0.01 min
Lab File: VF061838.D
Acq: 5 Mar 2019 00:40

Tgt Ion	Ion	Ratio	Lower	Upper
96	100			
61	0.0	108.2	162.4#	
98	0.0	52.2	78.2#	





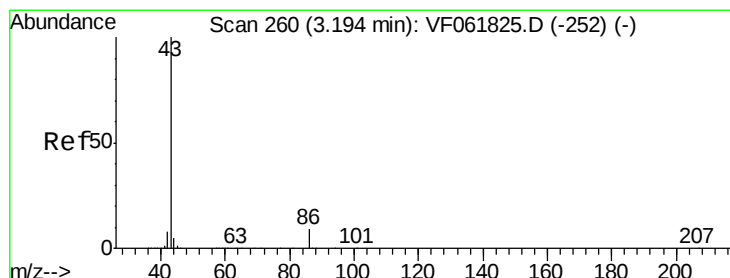
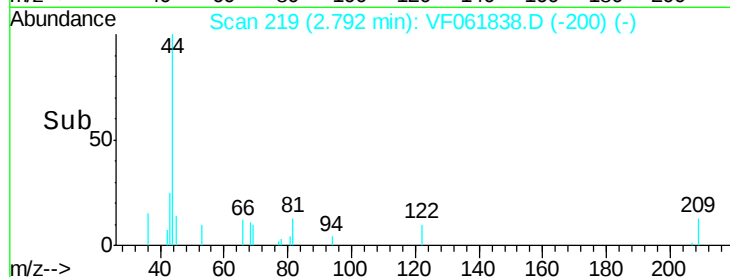
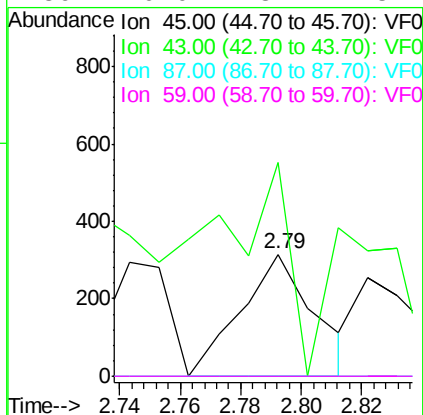
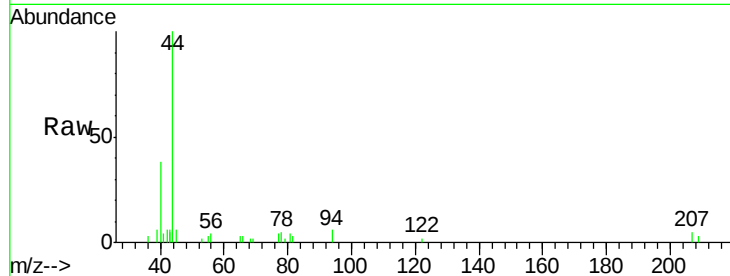
#22
Diisopropyl ether
Concen: 0.088 ug/l
RT: 2.79 min Scan# 219
Delta R.T. -0.01 min
Lab File: VF061838.D
Acq: 5 Mar 2019 00:40

Instrument :
MSVOA_F
ClientSampleId :
Z-2-1

Tot Ion	Ratio	Lower	Upper
45	100		
43	175.8	31.4	47.2#
87	0.0	16.3	24.5#
59	0.0	8.7	13.1#

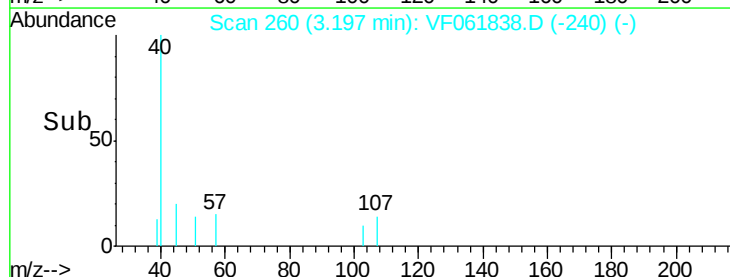
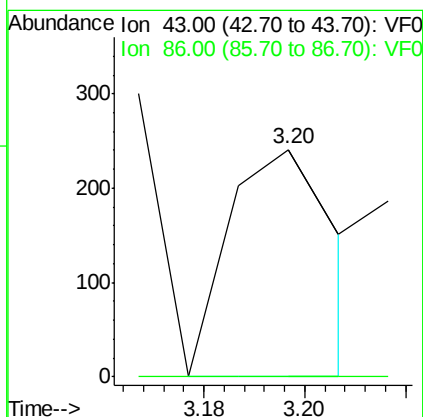
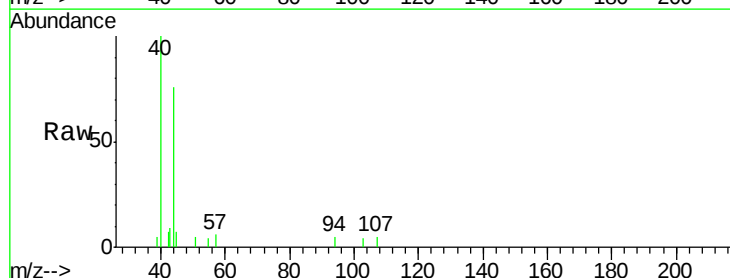
Manual Integrations
APPROVED

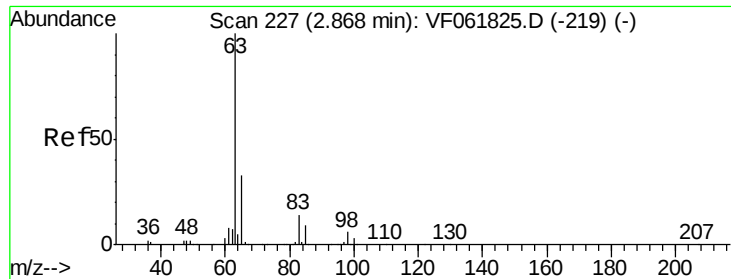
MMDadoda
3/5/2019 10:48:36 AM



#23
Vinyl Acetate
Concen: 0.119 ug/l
RT: 3.20 min Scan# 260
Delta R.T. -0.01 min
Lab File: VF061838.D
Acq: 5 Mar 2019 00:40

Tgt Ion	Ratio	Lower	Upper
43	100		
86	0.0	7.5	11.3#





#24

1,1-Dichloroethane

Concen: 0.028 ug/l

RT: 2.88 min Scan# 228

Delta R.T. 0.00 min

Lab File: VF061838.D

Acq: 5 Mar 2019 00:40

Instrument :

MSVOA_F

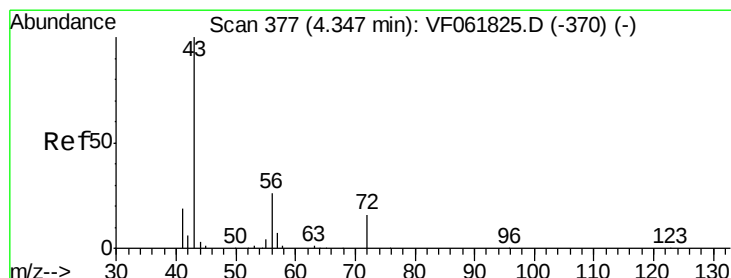
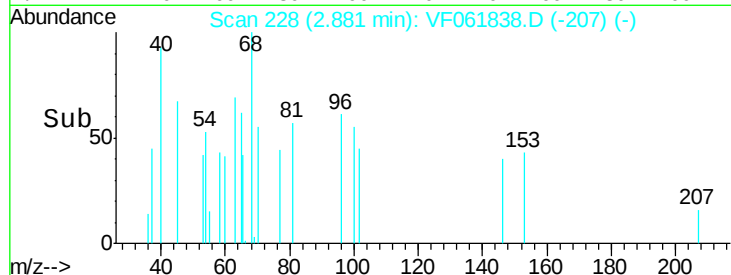
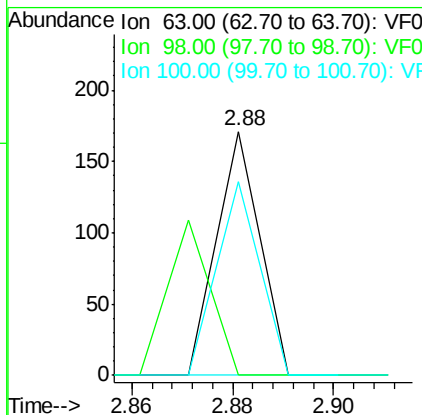
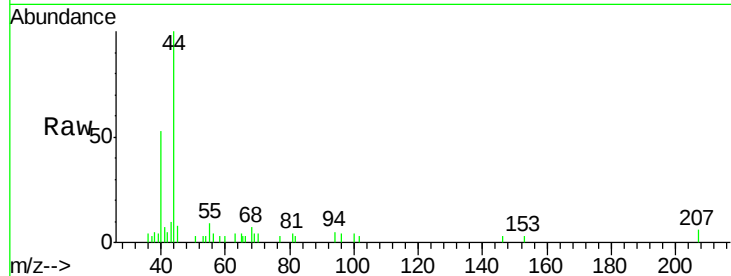
ClientSampleId :

Z-2-1

Tot Ion:	63	Resp:	101
Ion Ratio	Lower	Upper	
63	100		
98	0.0	2.8	8.3#
100	79.5	1.8	5.4#

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#25

2-Butanone

Concen: 0.325 ug/l

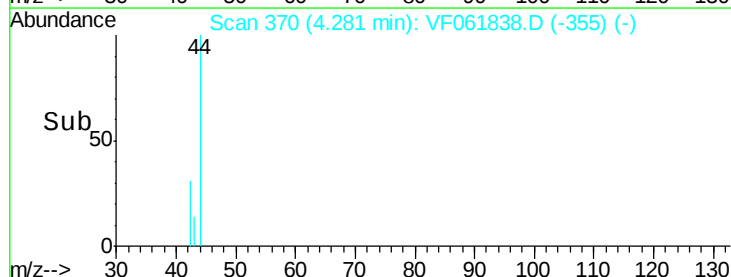
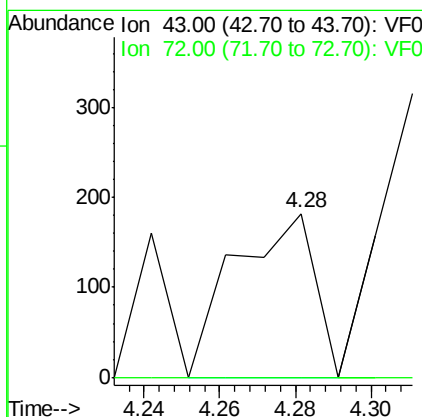
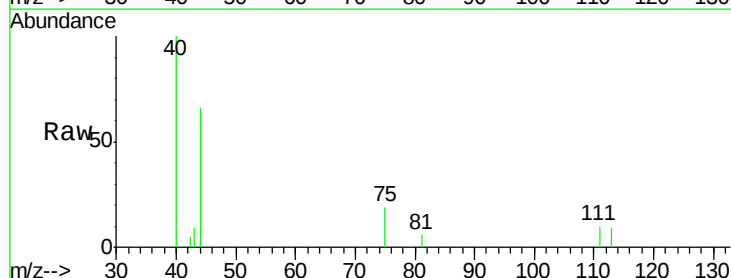
RT: 4.28 min Scan# 370

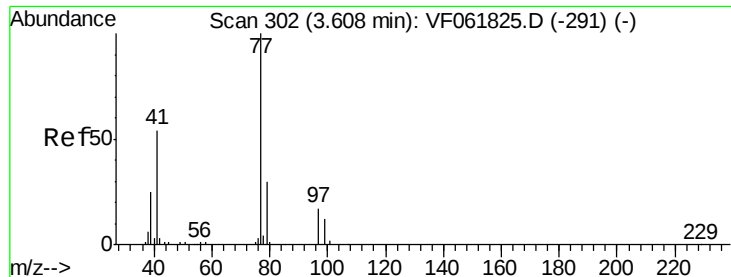
Delta R.T. -0.05 min

Lab File: VF061838.D

Acq: 5 Mar 2019 00:40

Tgt Ion:	43	Resp:	267
Ion Ratio	Lower	Upper	
43	100		
72	0.0	17.1	25.7#





#26

2,2-Dichloropropane

Concen: 0.039 ug/l

RT: 3.63 min Scan# 304

Delta R.T. 0.01 min

Lab File: VF061838.D

Acq: 5 Mar 2019 00:40

Instrument :

MSVOA_F

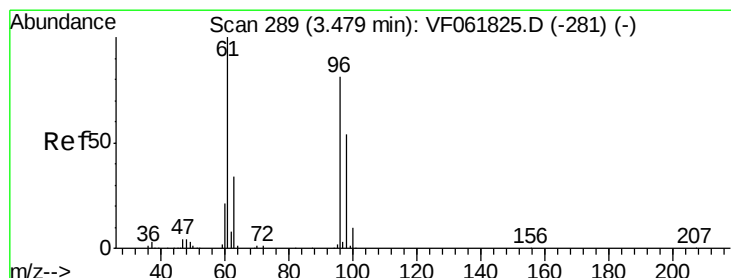
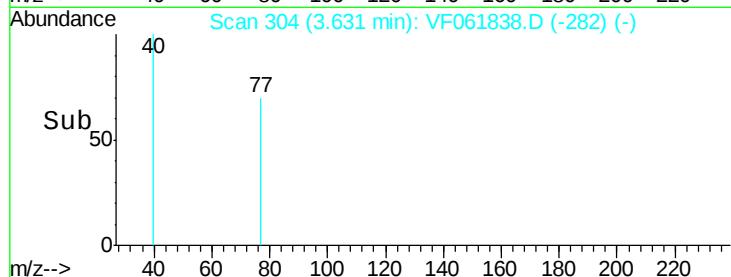
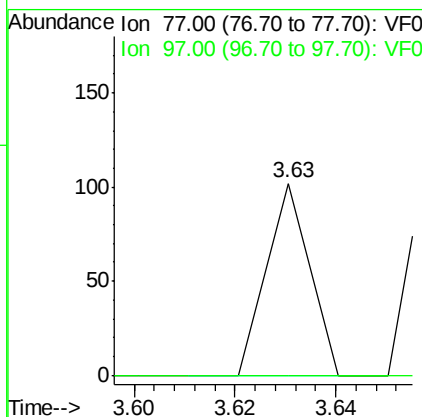
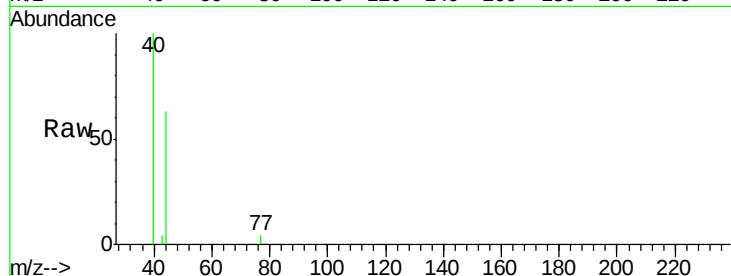
ClientSampled :

Z-2-1

Tot Ion	Ratio	Lower	Upper
77	100		
97	0.0	11.7	35.0#

Manual Integrations
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#27

cis-1,2-Dichloroethene

Concen: 0.024 ug/l

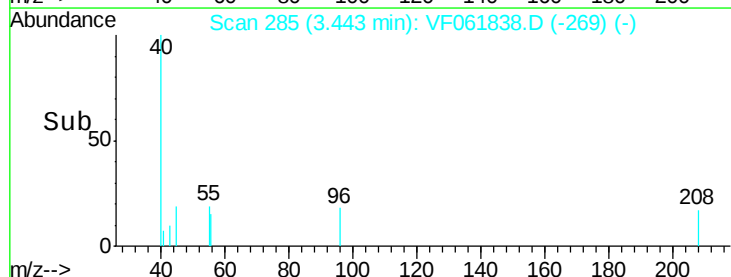
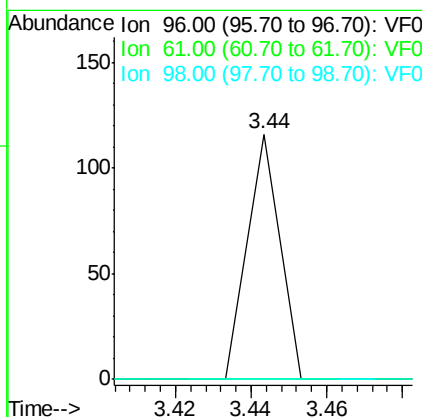
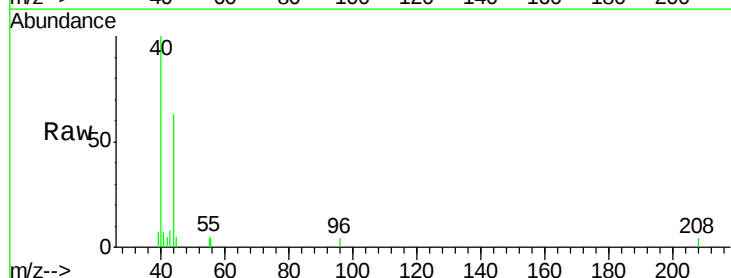
RT: 3.44 min Scan# 285

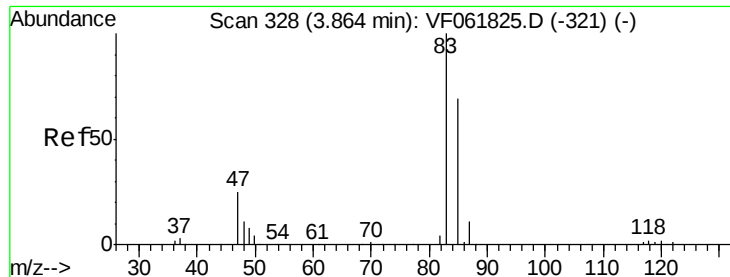
Delta R.T. -0.04 min

Lab File: VF061838.D

Acq: 5 Mar 2019 00:40

Tgt Ion	Ratio	Lower	Upper
96	100		
61	0.0	0.0	241.6
98	0.0	0.0	130.2





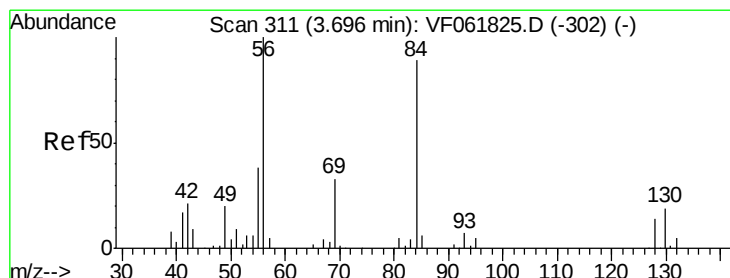
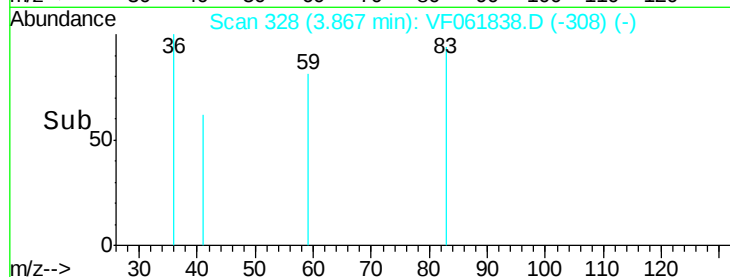
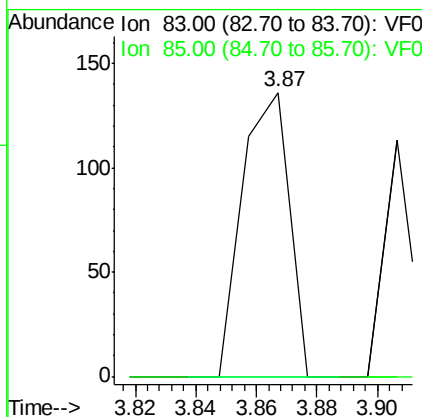
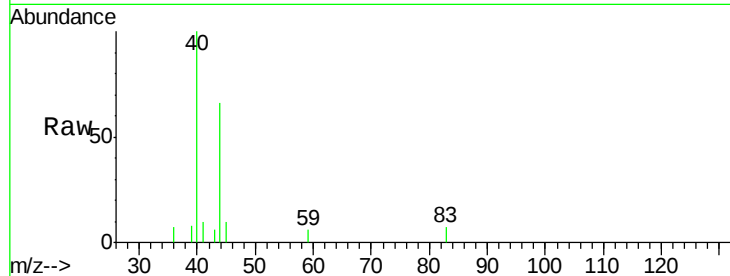
#30
Chloroform
Concen: 0.036 ug/l
RT: 3.87 min Scan# 328
Delta R.T. -0.01 min
Lab File: VF061838.D
Acq: 5 Mar 2019 00:40

Instrument :
MSVOA_F
ClientSampled :
Z-2-1

Tot Ion: 83 Resp: 148
Ion Ratio Lower Upper
83 100
85 0.0 51.1 76.7#

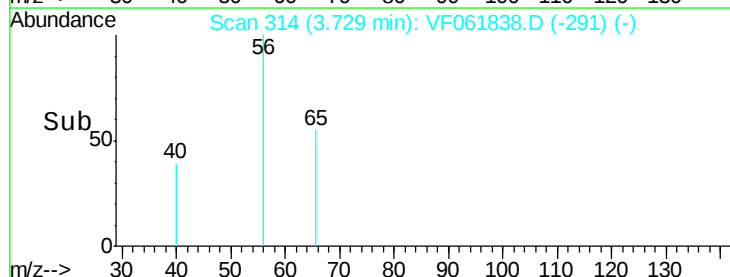
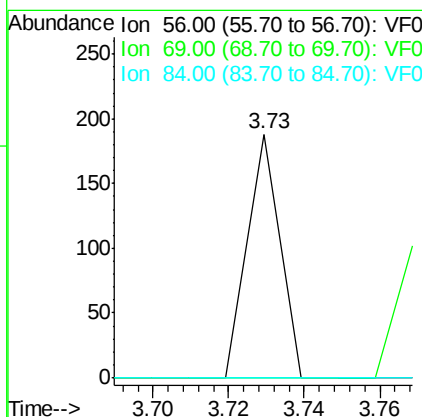
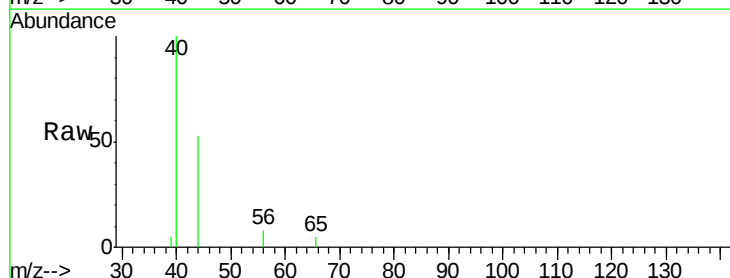
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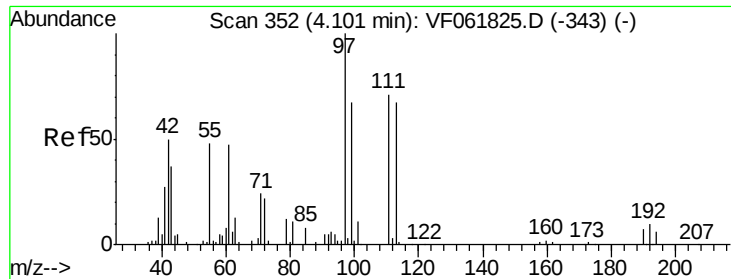
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#31
Cyclohexane
Concen: 0.028 ug/l
RT: 3.73 min Scan# 314
Delta R.T. 0.02 min
Lab File: VF061838.D
Acq: 5 Mar 2019 00:40

Tgt Ion: 56 Resp: 111
Ion Ratio Lower Upper
56 100
69 0.0 23.8 35.8#
84 0.0 68.6 103.0#





#32

1,1,1-Trichloroethane

Concen: 0.022 ug/l

RT: 4.10 min Scan# 352

Delta R.T. 0.00 min

Lab File: VF061838.D

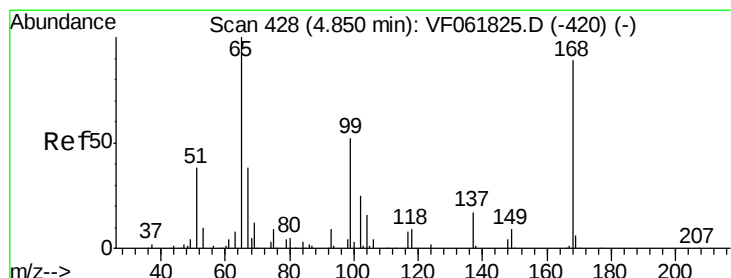
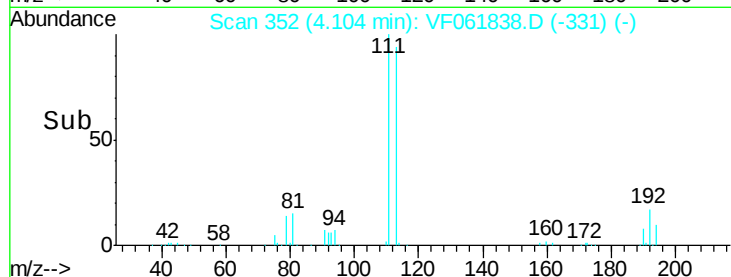
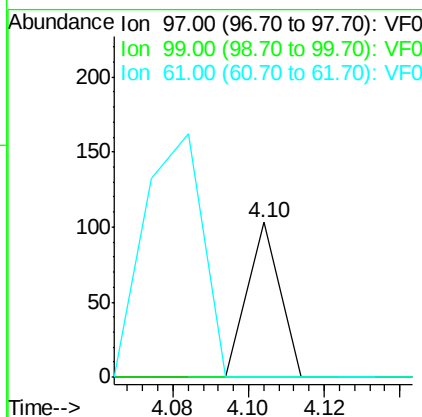
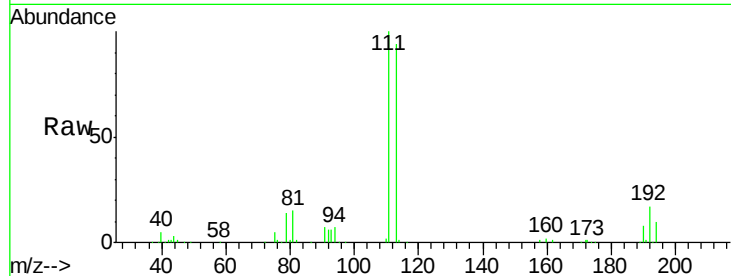
Acq: 5 Mar 2019 00:40

Instrument :
MSVOA_F
ClientSampleId :
Z-2-1

Tot Ion:	97	Resp:	61
Ion	Ratio	Lower	Upper
97	100		
99	0.0	52.2	78.2#
61	0.0	39.2	58.8#

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#33

1,2-Dichloroethane-d4

Concen: 54.114 ug/l

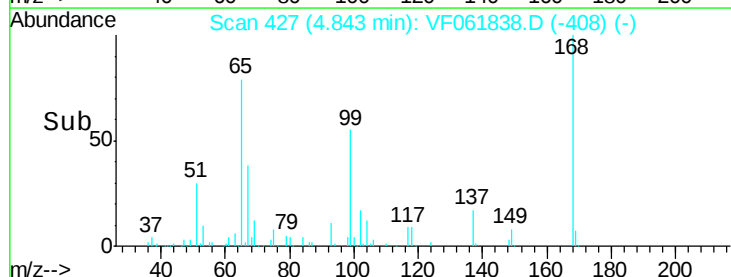
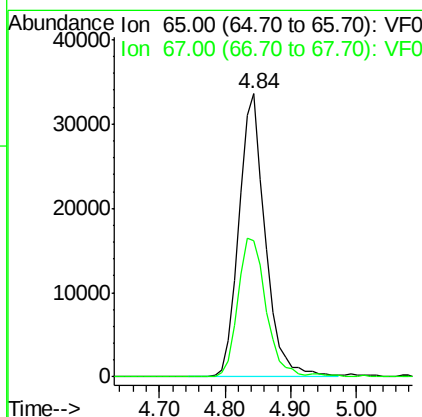
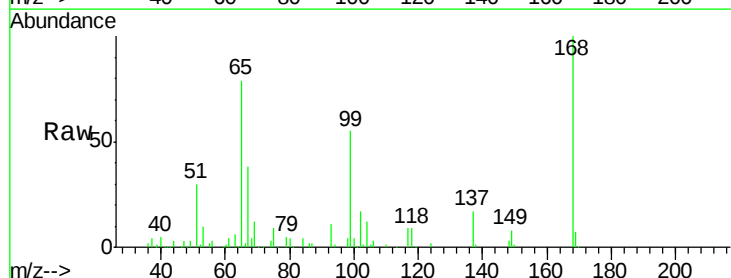
RT: 4.84 min Scan# 427

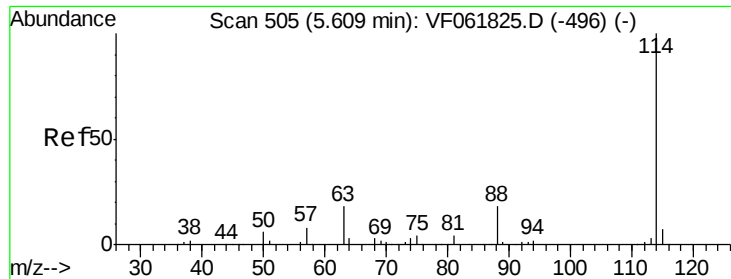
Delta R.T. -0.01 min

Lab File: VF061838.D

Acq: 5 Mar 2019 00:40

Tgt Ion:	65	Resp:	94830
Ion	Ratio	Lower	Upper
65	100		
67	48.2	0.0	104.0





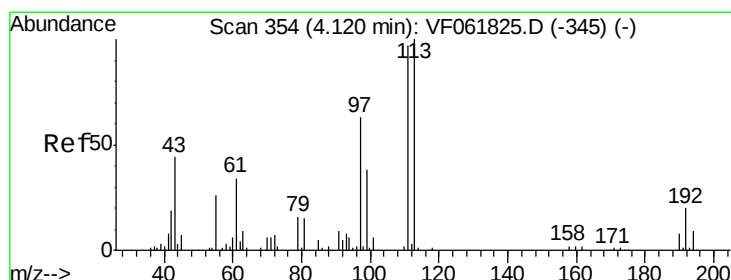
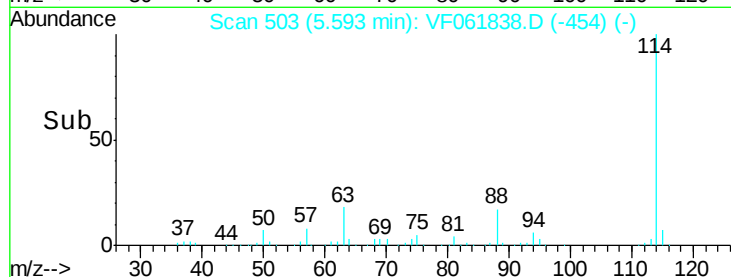
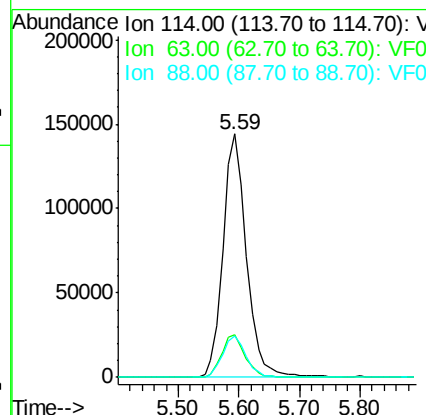
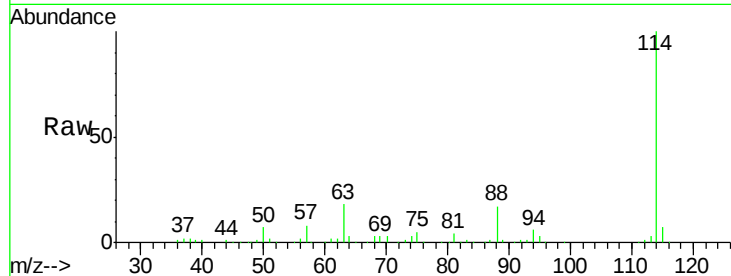
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. -0.01 min
 Lab File: VF061838.D
 Acq: 5 Mar 2019 00:40

Instrument :
 MSVOA_F
 ClientSampleId :
 Z-2-1

Tot Ion	Ion	Ratio	Resp	Lower	Upper
114	100		388919		
63	17.6	0.0	36.6		
88	17.0	0.0	34.4		

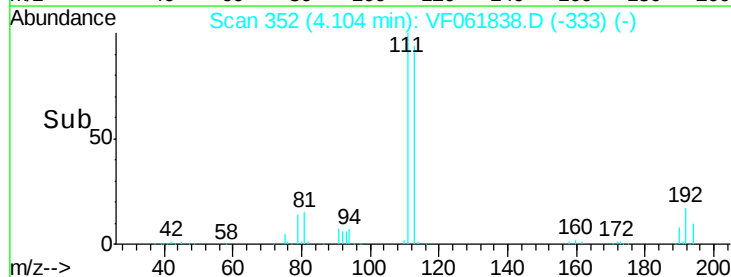
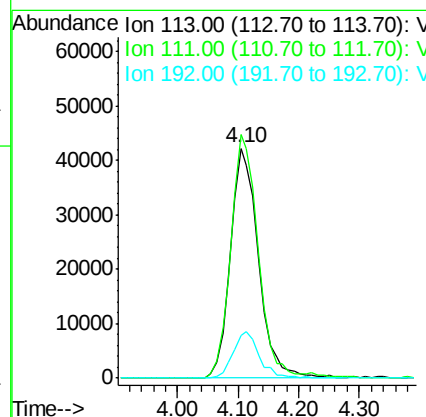
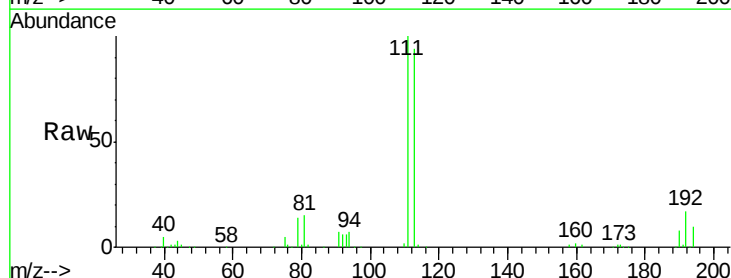
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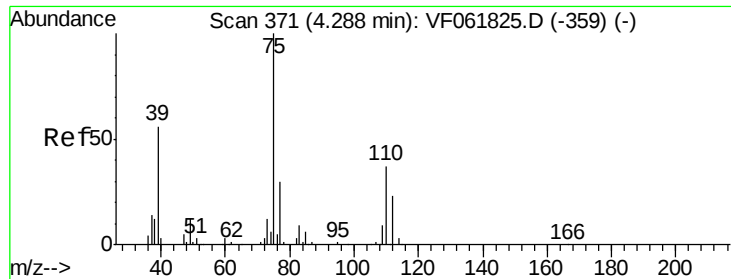
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#35
 Dibromofluoromethane
 Concen: 46.986 ug/l
 RT: 4.10 min Scan# 352
 Delta R.T. -0.01 min
 Lab File: VF061838.D
 Acq: 5 Mar 2019 00:40

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
113	100		135702		
111	106.0	78.8	118.2		
192	18.9	13.4	20.0		





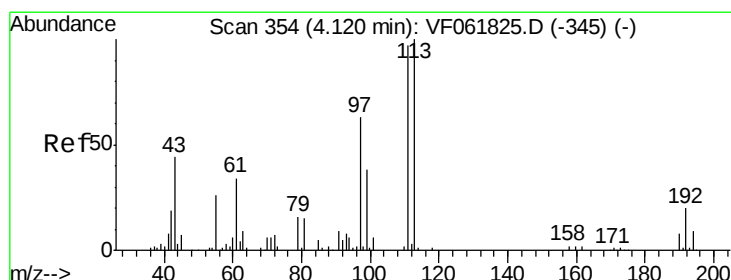
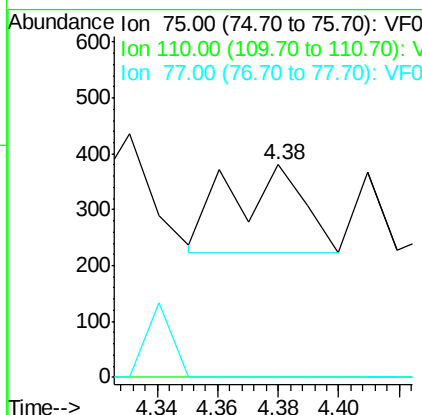
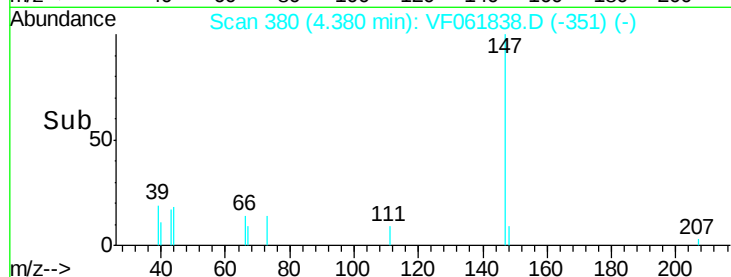
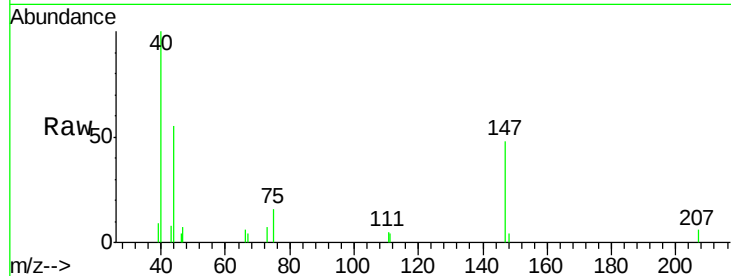
#36
 1,1-Dichloropropene
 Concen: 0.068 ug/l
 RT: 4.38 min Scan# 380
 Delta R.T. 0.08 min
 Lab File: VF061838.D
 Acq: 5 Mar 2019 00:40

Instrument :
 MSVOA_F
 ClientSampled :
 Z-2-1

Tot Ion	Ratio	Lower	Upper
75	100		
110	33.7	20.5	61.6
77	0.0	27.0	40.4#

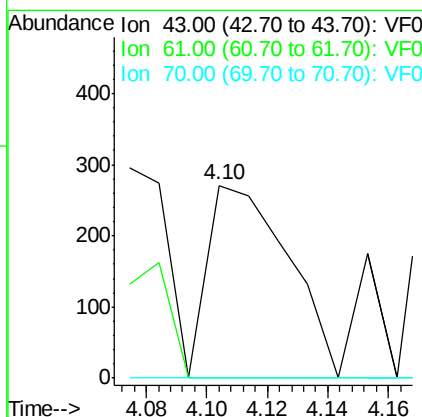
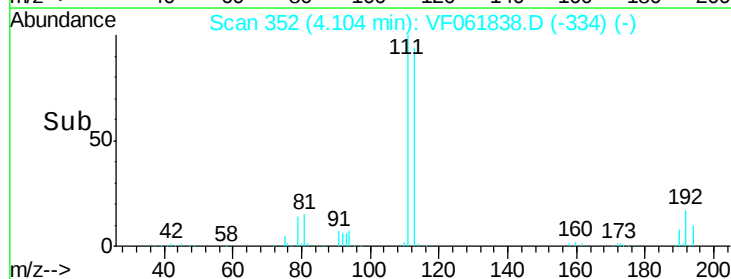
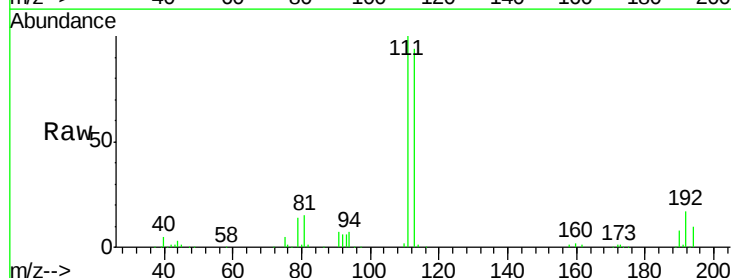
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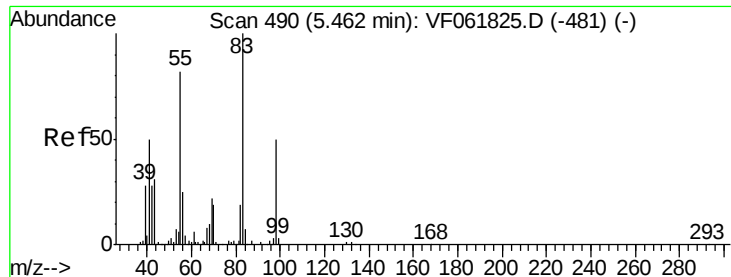
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#37
 Ethyl Acetate
 Concen: 0.282 ug/l
 RT: 4.10 min Scan# 352
 Delta R.T. -0.02 min
 Lab File: VF061838.D
 Acq: 5 Mar 2019 00:40

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	45.7	68.5#
70	0.0	8.5	12.7#





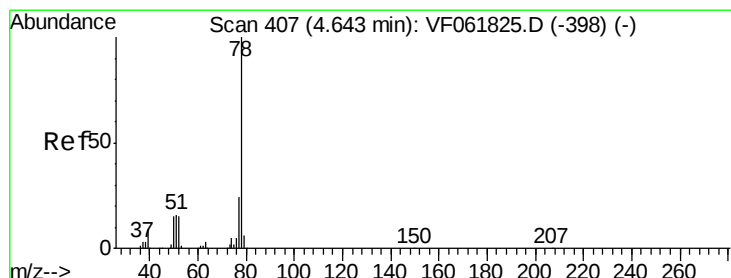
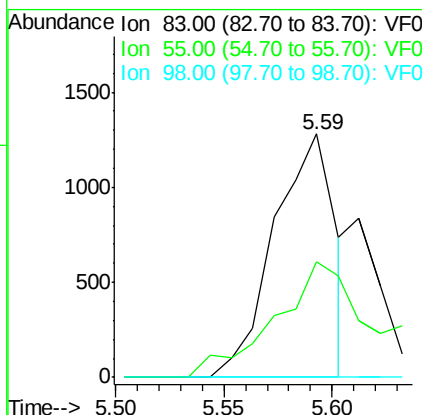
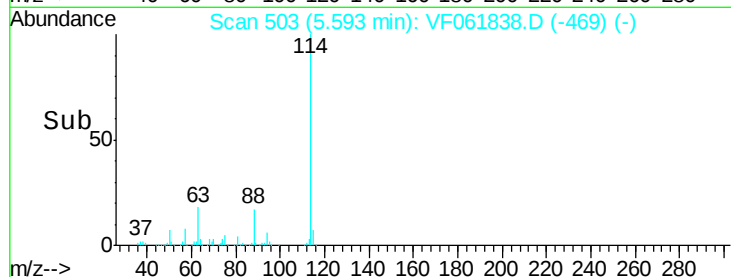
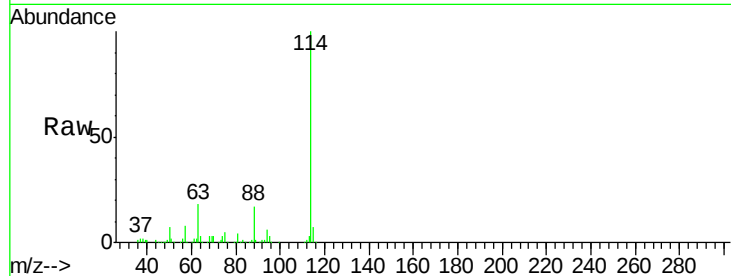
#39
Methylcyclohexane
Concen: 0.553 ug/l
RT: 5.59 min Scan# 503
Delta R.T. 0.13 min
Lab File: VF061838.D
Acq: 5 Mar 2019 00:40

Instrument :
MSVOA_F
ClientSampleId :
Z-2-1

Tot Ion	Ratio	Lower	Upper
83	100		
55	47.4	66.6	99.8#
98	0.0	40.4	60.6#

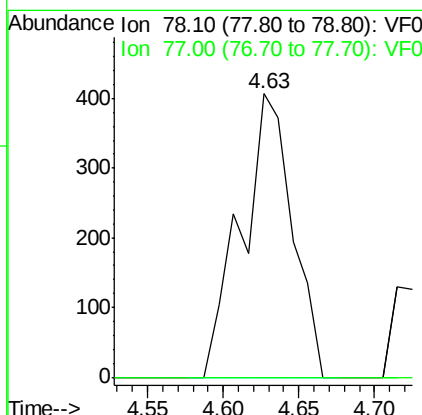
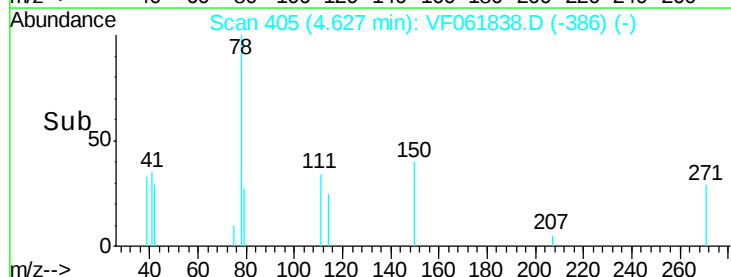
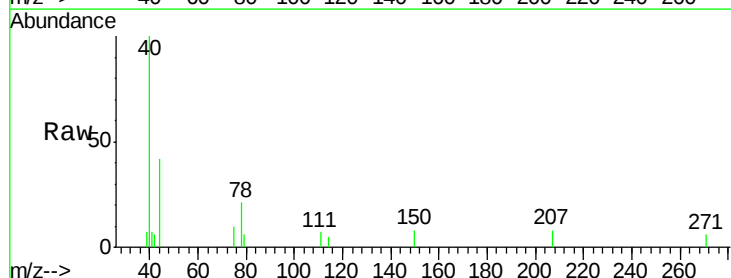
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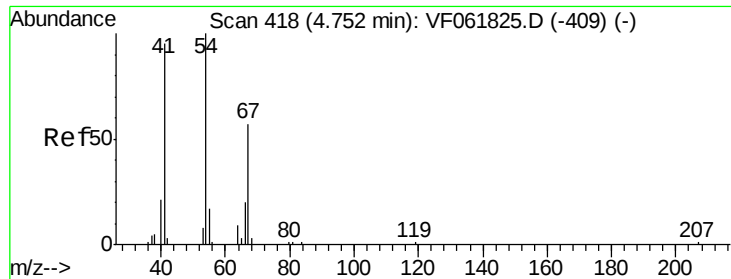
MMDadoda
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#40
Benzene
Concen: 0.095 ug/l
RT: 4.63 min Scan# 405
Delta R.T. -0.01 min
Lab File: VF061838.D
Acq: 5 Mar 2019 00:40

Tgt Ion	Ratio	Lower	Upper
78	100		
77	0.0	19.0	28.6#





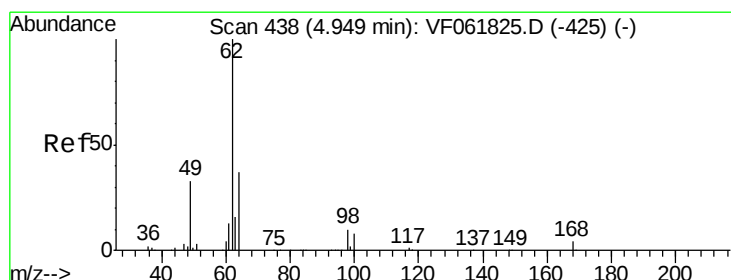
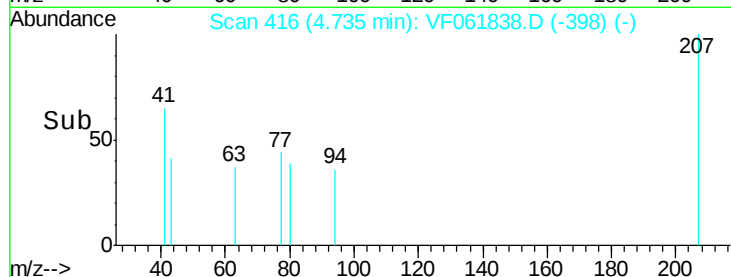
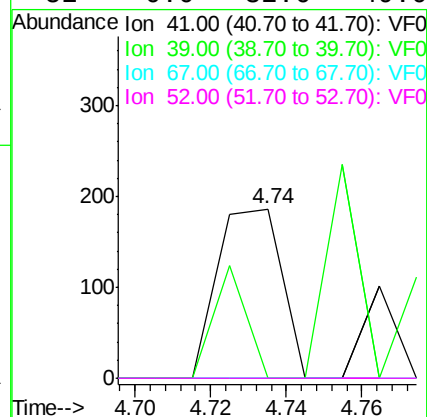
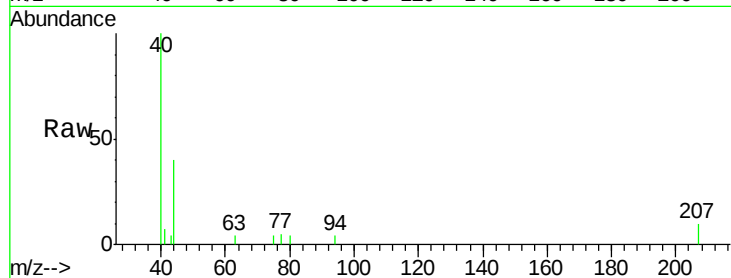
#41
Methacrylonitrile
Concen: 0.237 ug/l
RT: 4.74 min Scan# 416
Delta R.T. -0.02 min
Lab File: VF061838.D
Acq: 5 Mar 2019 00:40

Instrument :
MSVOA_F
ClientSampleId :
Z-2-1

Tot Ion	Ratio	Lower	Upper
41	100		
39	0.0	45.3	67.9#
67	0.0	49.3	73.9#
52	0.0	32.6	49.0#

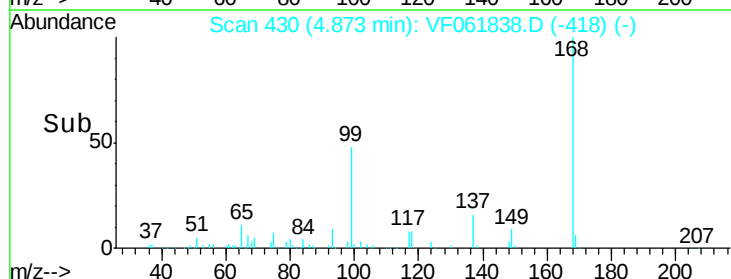
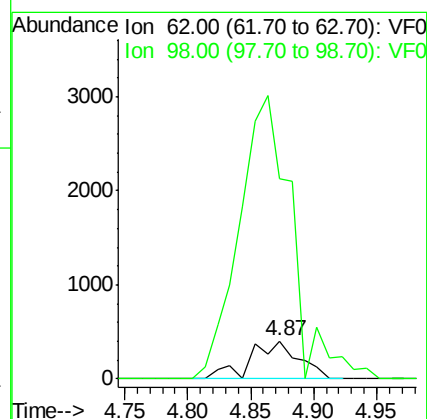
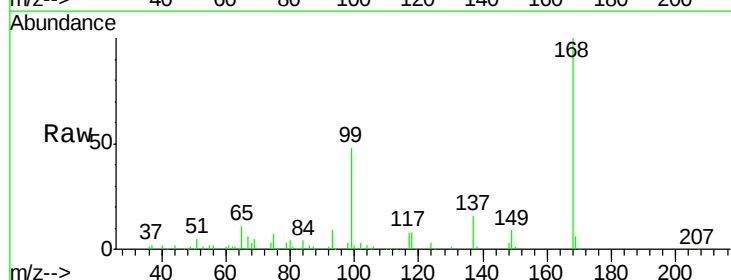
Manual Integrations
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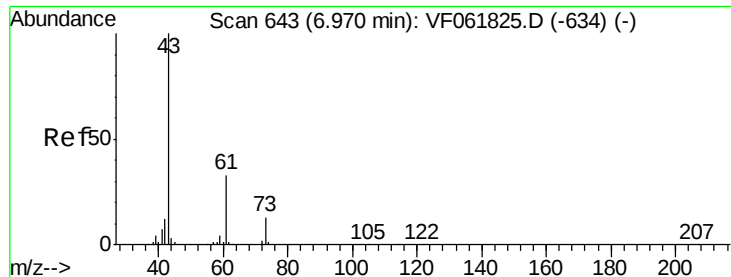
MMDadoda
3/5/2019 10:48:36 AM



#42
1,2-Dichloroethane
Concen: 0.446 ug/l
RT: 4.87 min Scan# 430
Delta R.T. -0.08 min
Lab File: VF061838.D
Acq: 5 Mar 2019 00:40

Tgt Ion	Ratio	Lower	Upper
62	100		
98	529.4	0.0	26.0#





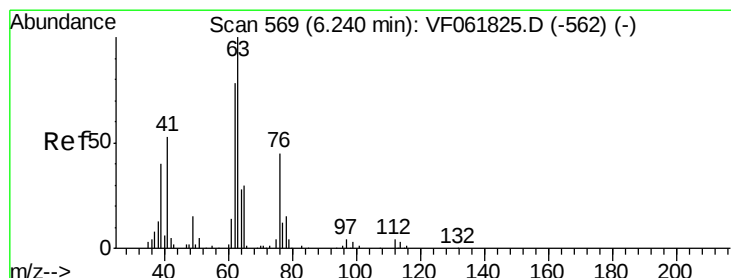
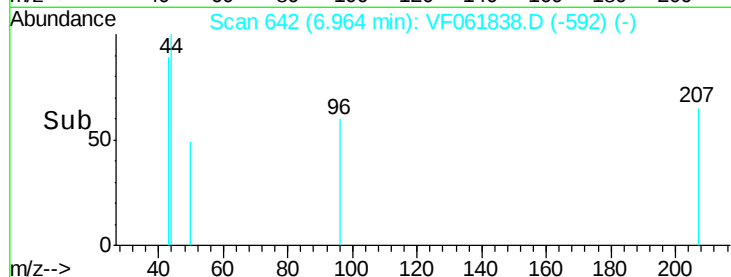
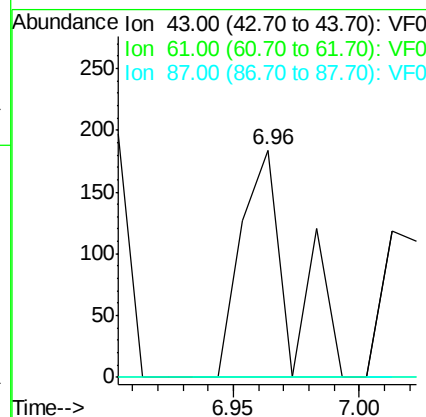
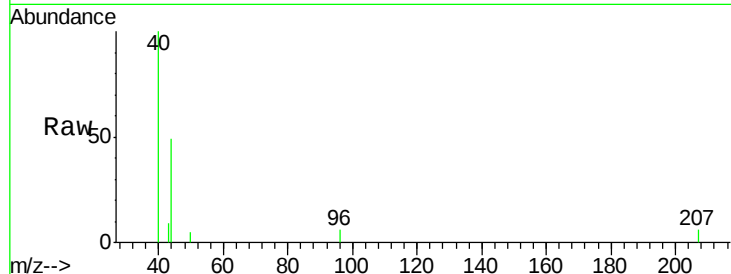
#43
Isopropyl Acetate
Concen: 0.120 ug/l
RT: 6.96 min Scan# 642
Delta R.T. -0.01 min
Lab File: VF061838.D
Acq: 5 Mar 2019 00:40

Instrument :
MSVOA_F
ClientSampled :
Z-2-1

Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	25.8	38.6#
87	0.0	0.4	0.6#

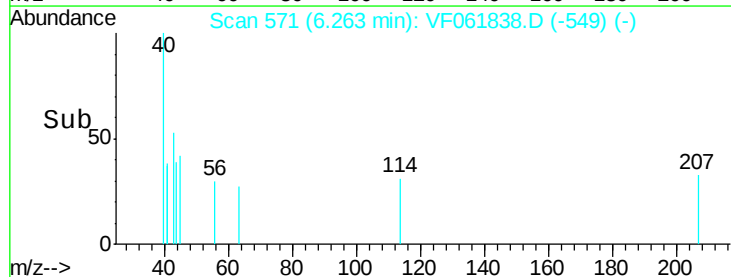
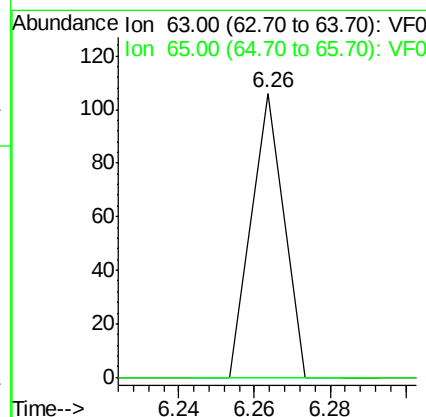
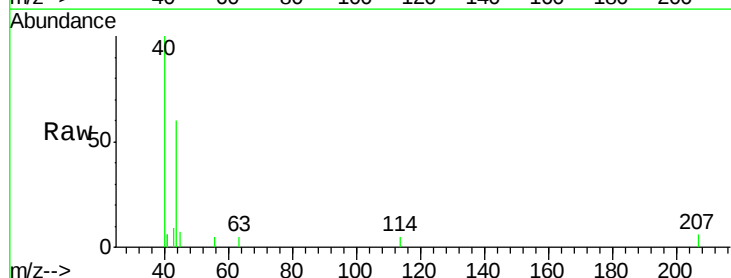
Manual Integrations
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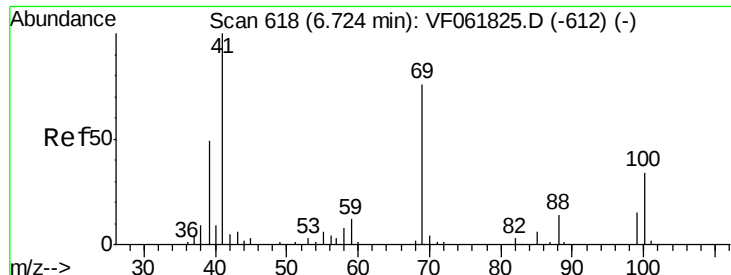
MMDadoda
3/5/2019 10:48:36 AM



#45
1,2-Dichloropropane
Concen: 0.026 ug/l
RT: 6.26 min Scan# 571
Delta R.T. 0.01 min
Lab File: VF061838.D
Acq: 5 Mar 2019 00:40

Tgt Ion	Ratio	Lower	Upper
63	100		
65	0.0	24.9	37.3#





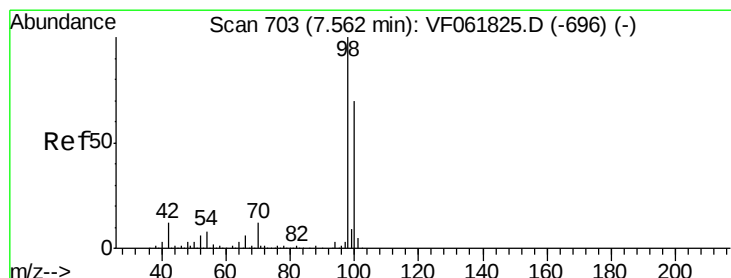
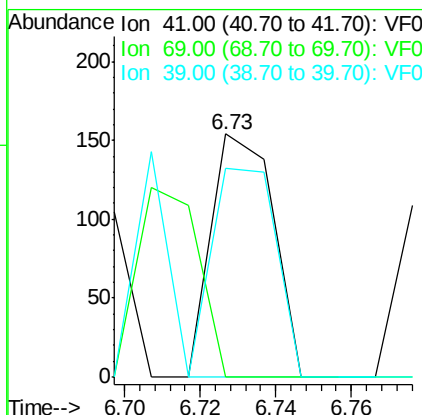
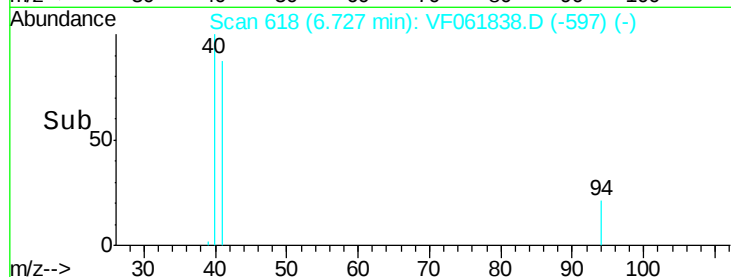
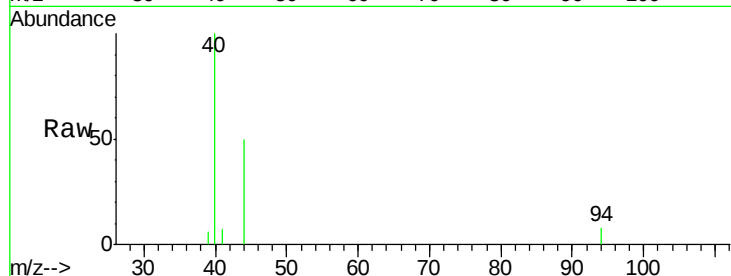
#48
Methvl methacrylate
Concen: 0.136 ug/l
RT: 6.73 min Scan# 618
Delta R.T. 0.00 min
Lab File: VF061838.D
Acq: 5 Mar 2019 00:40

Instrument :
MSVOA_F
ClientSampled :
Z-2-1

Tot Ion	Ratio	Lower	Upper
41	100		
69	0.0	60.4	90.6#
39	85.7	43.7	65.5#

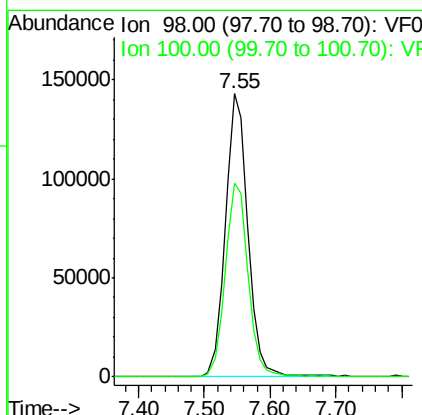
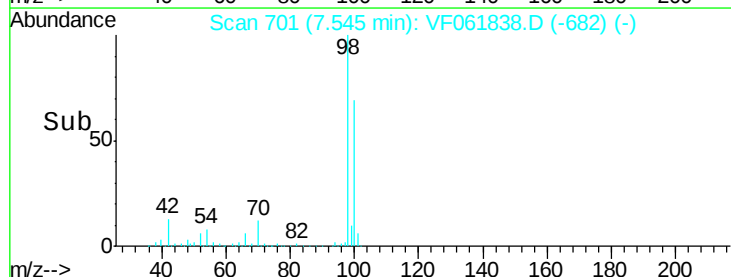
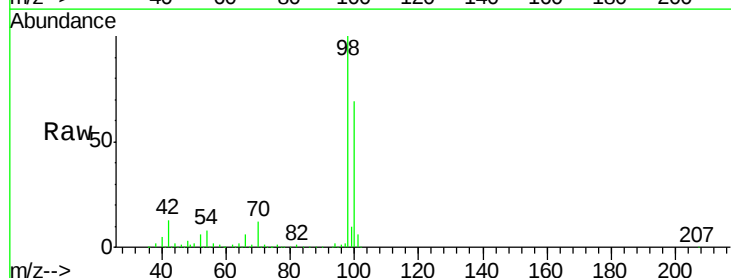
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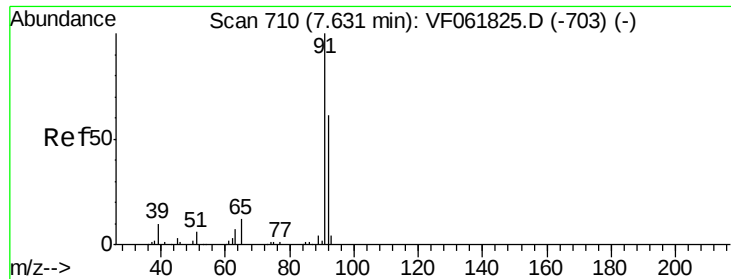
MMDadoda
3/5/2019 10:48:36 AM



#50
Toluene-d8
Concen: 41.364 ug/l
RT: 7.55 min Scan# 701
Delta R.T. -0.01 min
Lab File: VF061838.D
Acq: 5 Mar 2019 00:40

Tgt Ion	Ratio	Lower	Upper
98	100		
100	68.6	55.4	83.2





#52

Toluene

Concen: 0.291 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.01 min

Lab File: VF061838.D

Acq: 5 Mar 2019 00:40

Instrument :

MSVOA_F

ClientSampled :

Z-2-1

Tot Ion: 92 Resp: 1780

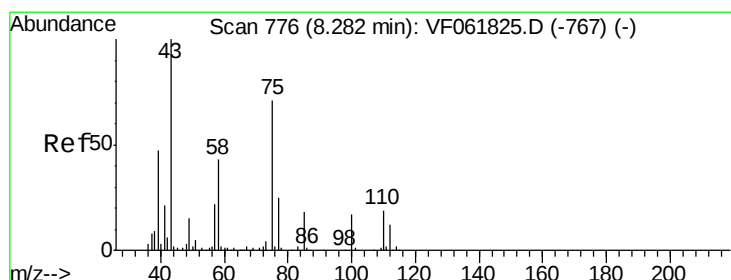
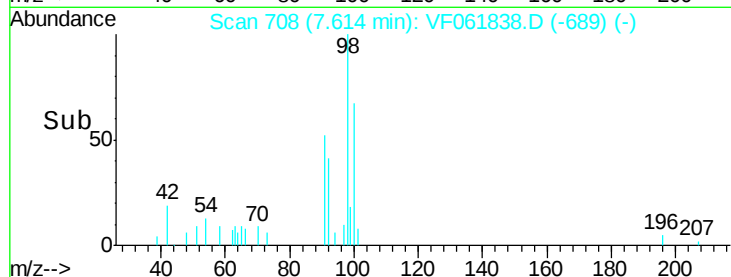
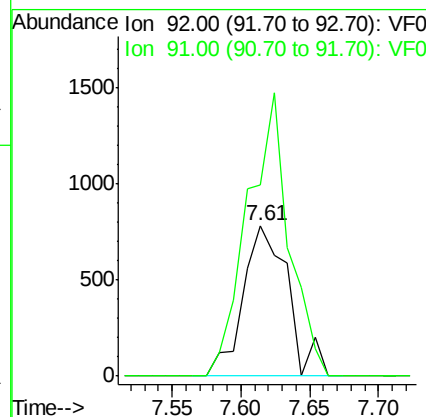
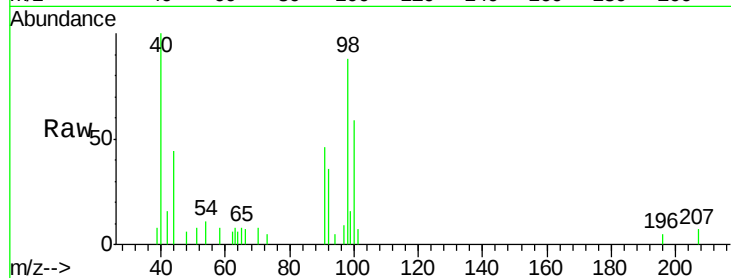
Ion Ratio Lower Upper

92 100

91 127.0 133.9 200.9#

Manual Integrations
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3/5/2019 10:48:36 AM



#53

t-1,3-Dichloropropene

Concen: 0.036 ug/l

RT: 8.21 min Scan# 768

Delta R.T. -0.08 min

Lab File: VF061838.D

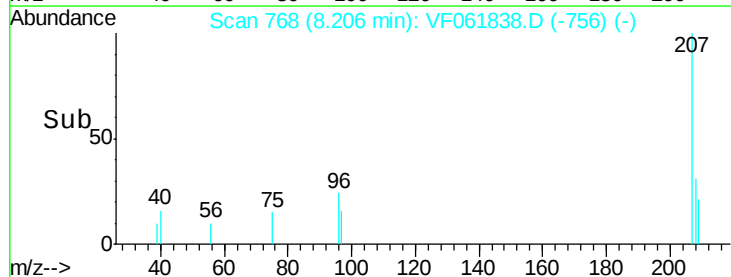
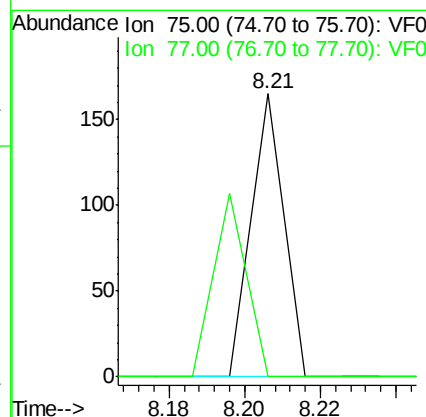
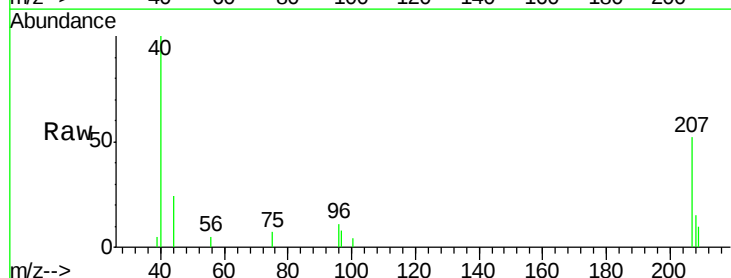
Acq: 5 Mar 2019 00:40

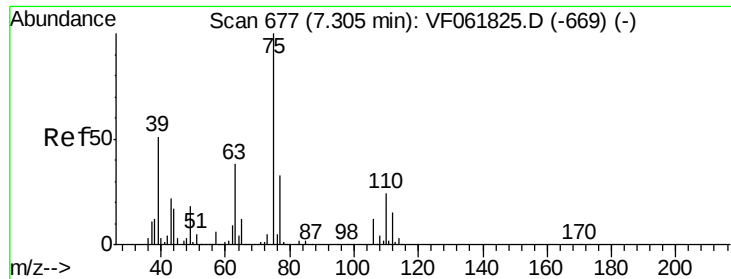
Tgt Ion: 75 Resp: 98

Ion Ratio Lower Upper

75 100

77 0.0 26.2 39.2#





#54

cis-1,3-Dichloropropene

Concen: 0.034 ug/l

RT: 7.36 min Scan# 682

Delta R.T. 0.04 min

Lab File: VF061838.D

Acq: 5 Mar 2019 00:40

Instrument :

MSVOA_F

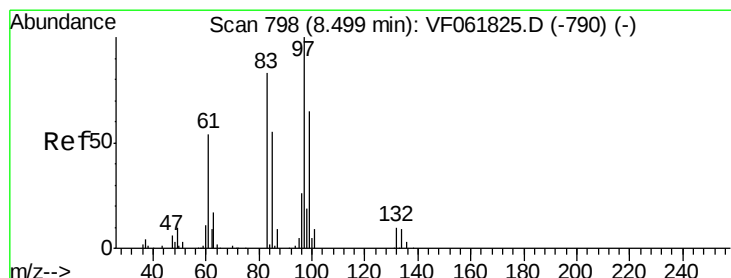
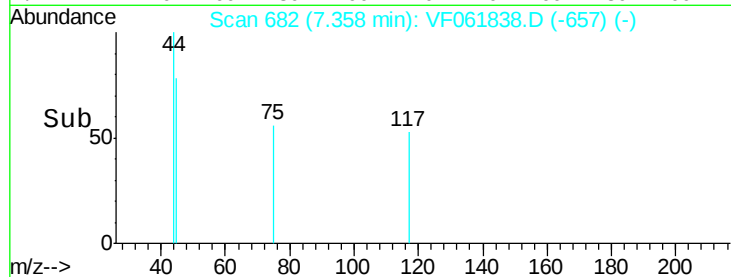
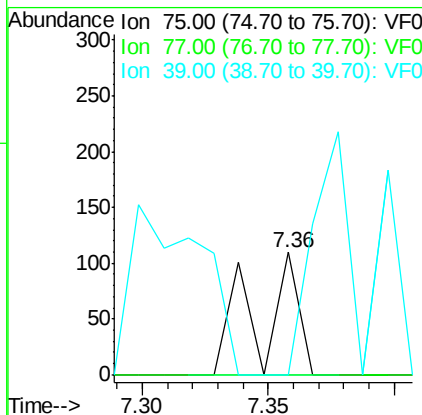
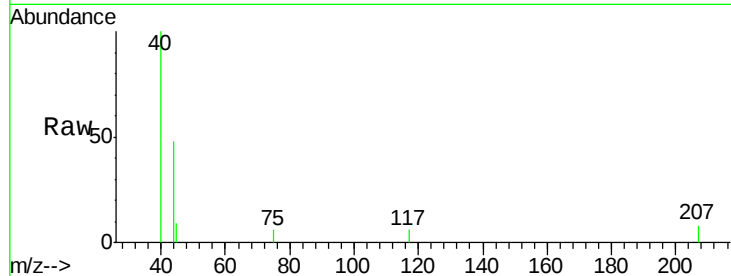
ClientSampleId :

Z-2-1

Tot Ion:	75	Resp:	125
Ion Ratio	Lower	Upper	
75	100		
77	0.0	26.4	39.6#
39	0.0	36.0	54.0#

Manual Integrations
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#55

1,1,2-Trichloroethane

Concen: 0.051 ug/l

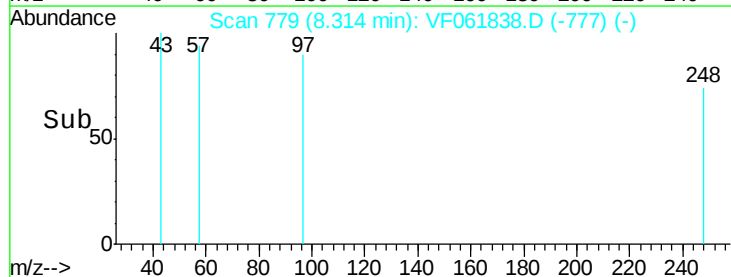
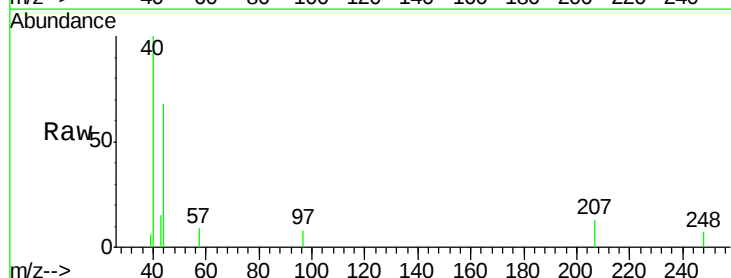
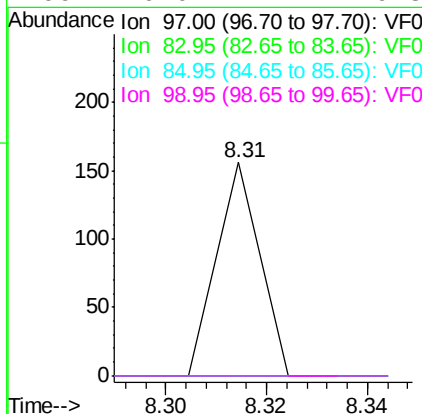
RT: 8.31 min Scan# 779

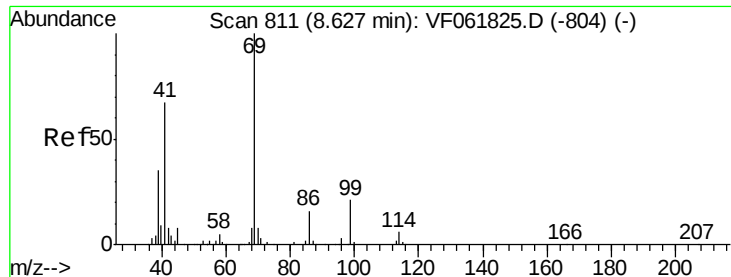
Delta R.T. -0.18 min

Lab File: VF061838.D

Acq: 5 Mar 2019 00:40

Tgt Ion:	97	Resp:	92
Ion Ratio	Lower	Upper	
97	100		
83	0.0	69.2	103.8#
85	0.0	43.0	64.4#
99	0.0	47.2	70.8#





#56

Ethyl methacrylate

Concen: 0.063 ug/l

RT: 8.62 min Scan# 810

Delta R.T. -0.01 min

Lab File: VF061838.D

Acq: 5 Mar 2019 00:40

Instrument :

MSVOA_F

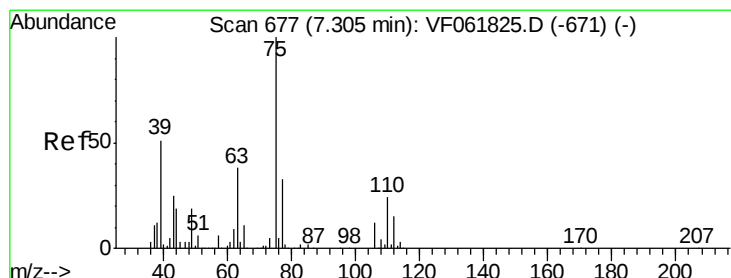
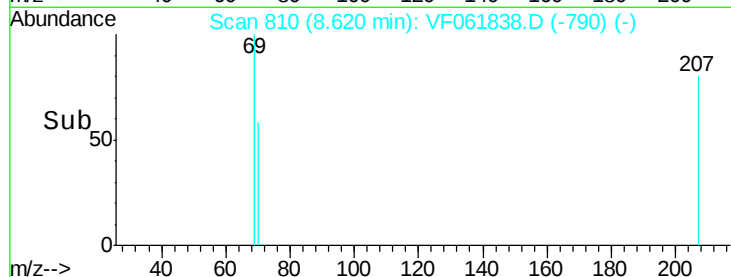
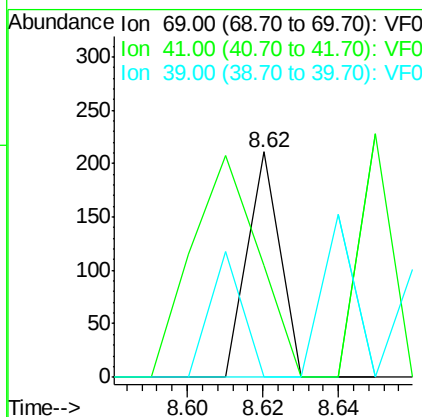
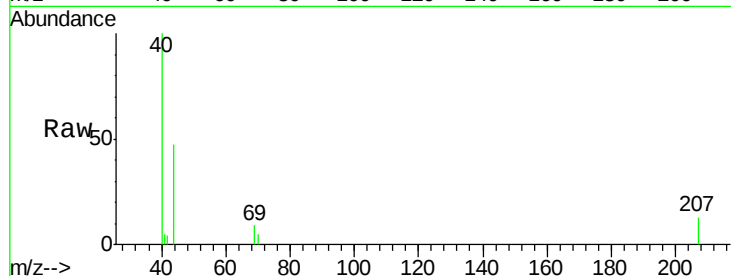
ClientSampleId :

Z-2-1

Tot Ion:	69.00	Resp:	125
Ion Ratio	Lower	Upper	
69	100		
41	49.3	52.9	79.3#
39	0.0	24.5	36.7#

Manual Integrations
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#58

2-Chloroethyl Vinyl ether

Concen: 0.183 ug/l

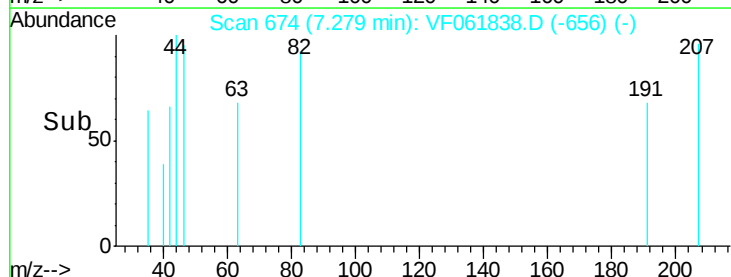
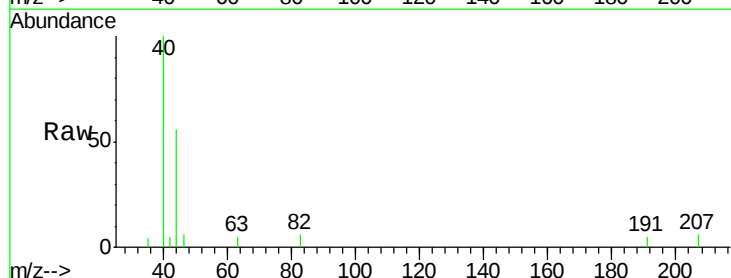
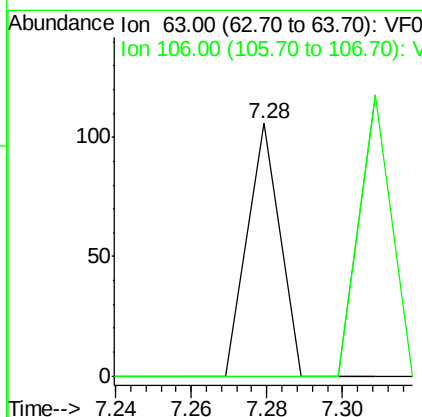
RT: 7.28 min Scan# 674

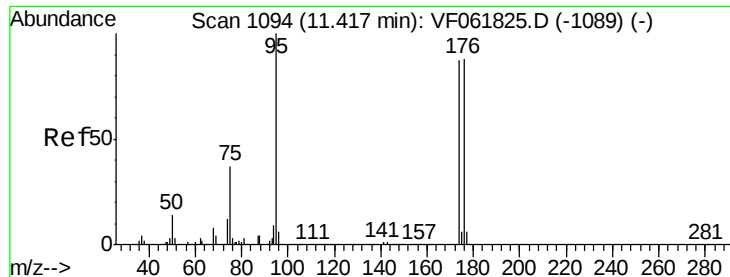
Delta R.T. -0.02 min

Lab File: VF061838.D

Acq: 5 Mar 2019 00:40

Tgt Ion:	63	Resp:	63
Ion Ratio	Lower	Upper	
63	100		
106	0.0	24.6	36.8#





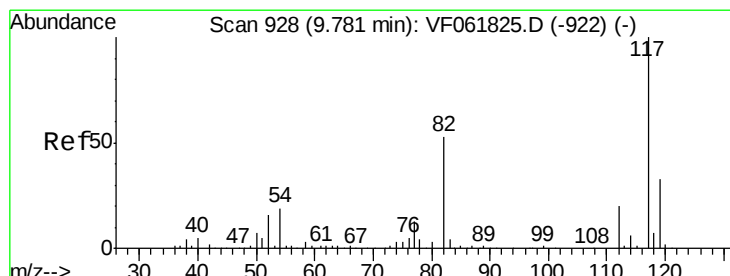
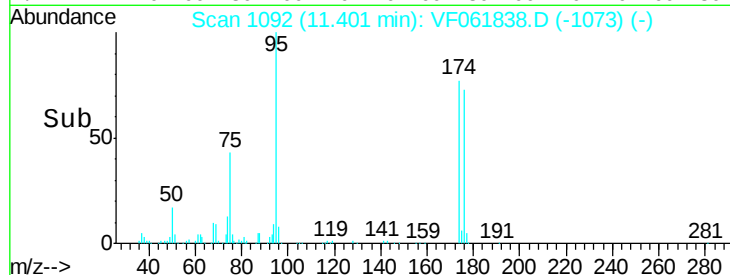
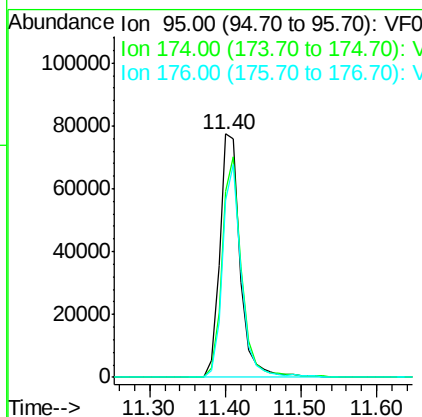
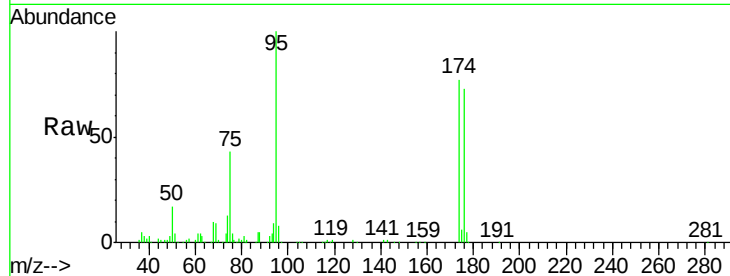
#62
4-Bromofluorobenzene
Concen: 43.502 ug/l
RT: 11.40 min Scan# 1092
Delta R.T. -0.01 min
Lab File: VF061838.D
Acq: 5 Mar 2019 00:40

Instrument :
MSVOA_F
ClientSampled :
Z-2-1

Tot Ion	Ratio	Resp	Lower	Upper
95	100	146140		
174	76.5	0.0	165.8	
176	72.7	0.0	167.0	

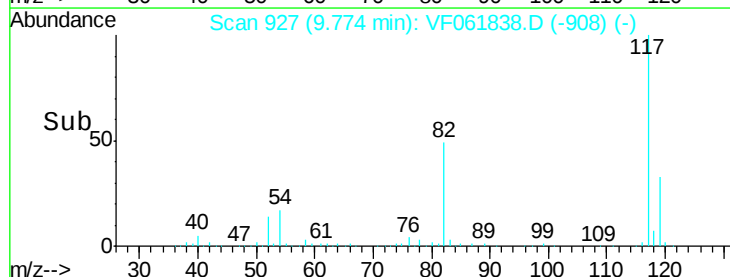
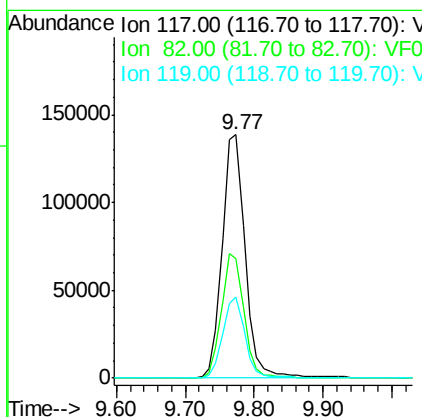
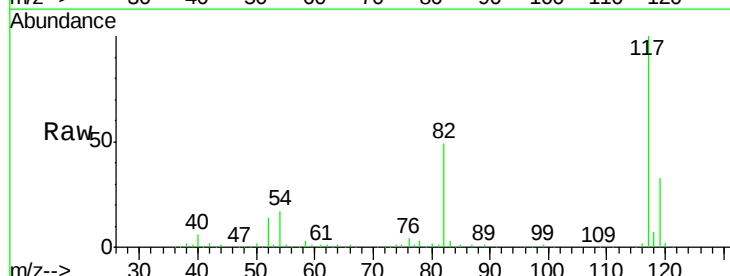
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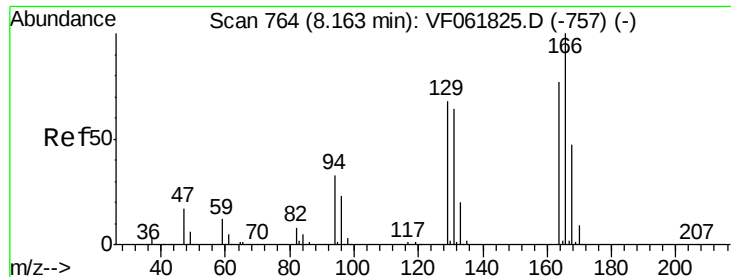
MMDadoda
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#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.01 min
Lab File: VF061838.D
Acq: 5 Mar 2019 00:40

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	321405		
82	49.2	39.3	58.9	
119	33.3	26.6	40.0	





#64

Tetrachloroethene

Concen: 0.026 ug/l

RT: 8.15 min Scan# 762

Delta R.T. -0.01 min

Lab File: VF061838.D

Acq: 5 Mar 2019 00:40

Instrument :

MSVOA_F

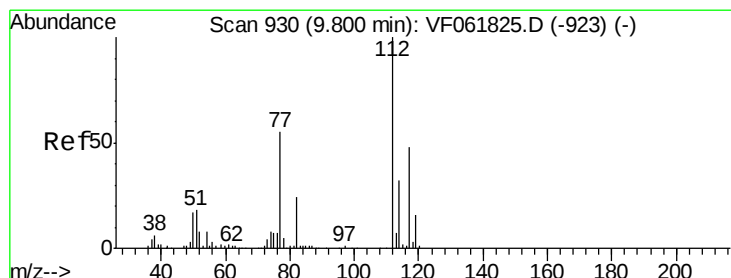
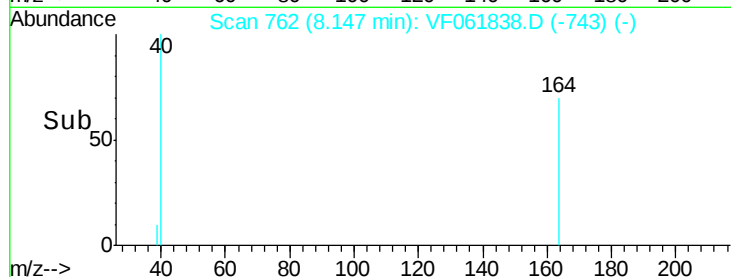
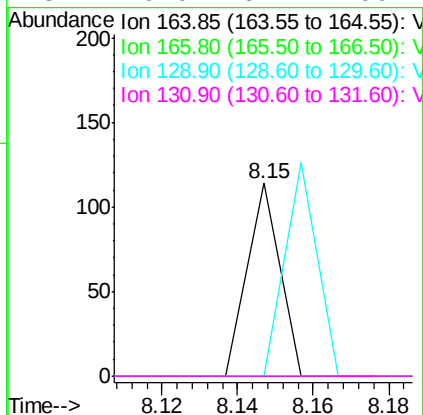
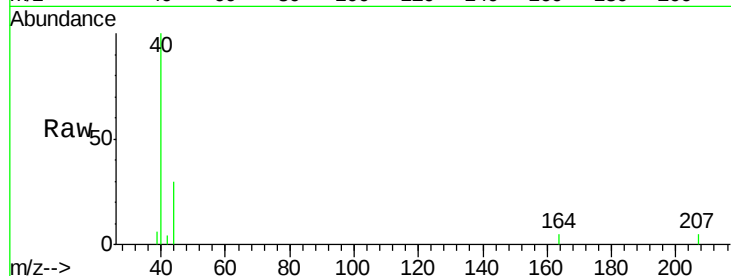
ClientSampleId :

Z-2-1

Tot Ion:	164	Resp:	67
Ion Ratio	Lower	Upper	
164	100		
166	0.0	103.9	155.9#
129	0.0	71.3	106.9#
131	0.0	67.1	100.7#

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#65

Chlorobenzene

Concen: 0.011 ug/l

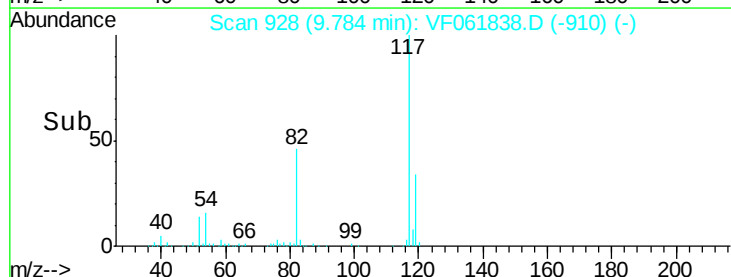
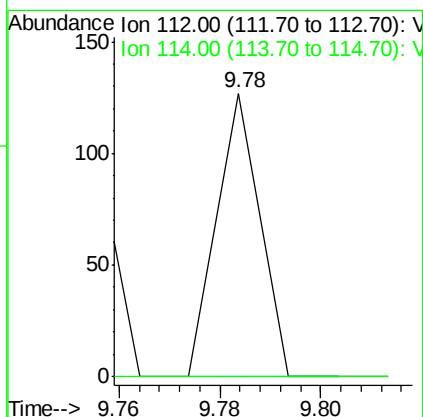
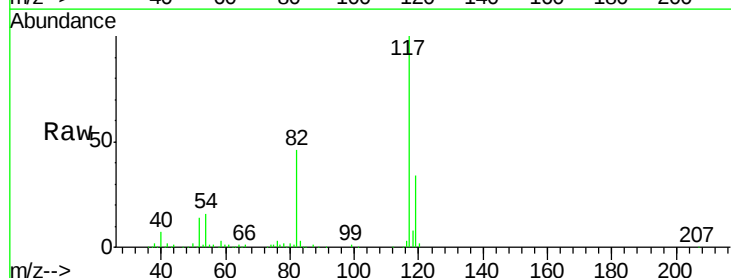
RT: 9.78 min Scan# 928

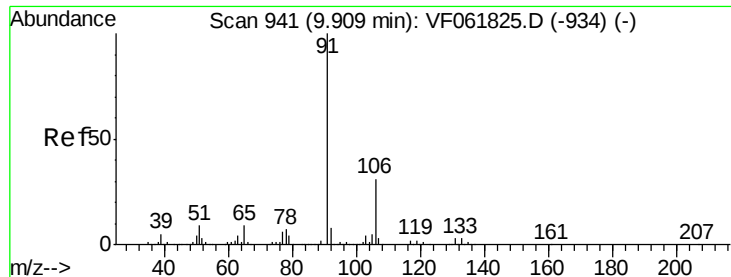
Delta R.T. -0.02 min

Lab File: VF061838.D

Acq: 5 Mar 2019 00:40

Tgt Ion:	112	Resp:	75
Ion Ratio	Lower	Upper	
112	100		
114	0.0	26.2	39.2#





#67

Ethyl Benzene

Concen: 0.043 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.01 min

Lab File: VF061838.D

Acq: 5 Mar 2019 00:40

Instrument :

MSVOA_F

ClientSampled :

Z-2-1

Tot Ion: 91 Resp: 462

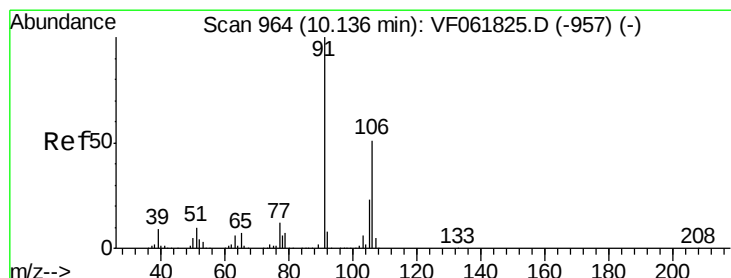
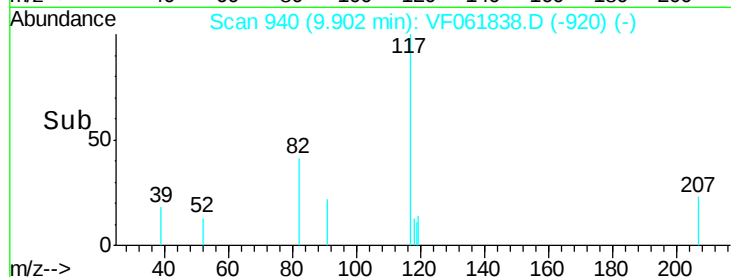
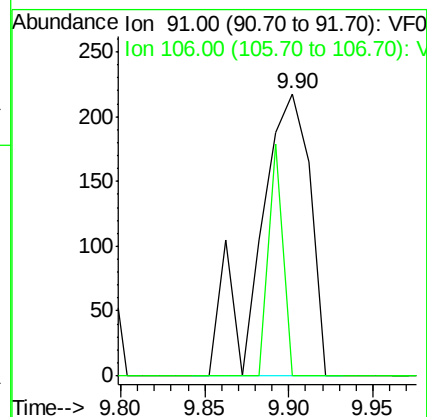
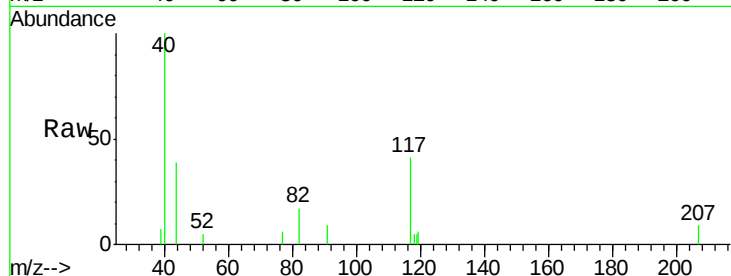
Ion Ratio Lower Upper

91 100

106 0.0 24.1 36.1#

Manual Integrations
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3/5/2019 10:48:36 AM



#68

m/p-Xylenes

Concen: 0.106 ug/l

RT: 10.13 min Scan# 963

Delta R.T. -0.01 min

Lab File: VF061838.D

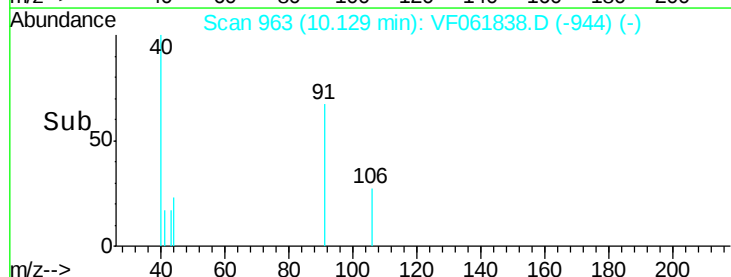
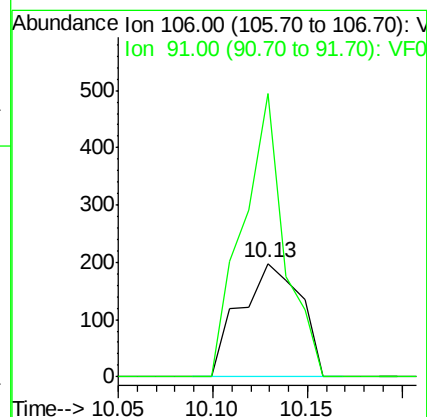
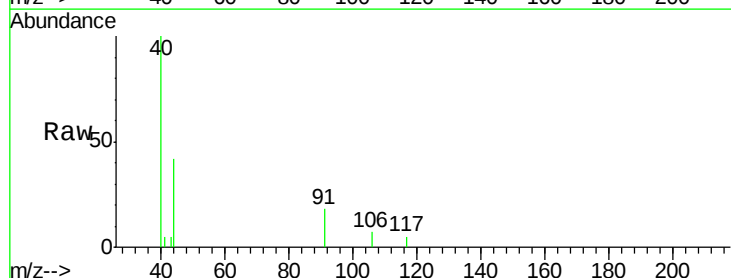
Acq: 5 Mar 2019 00:40

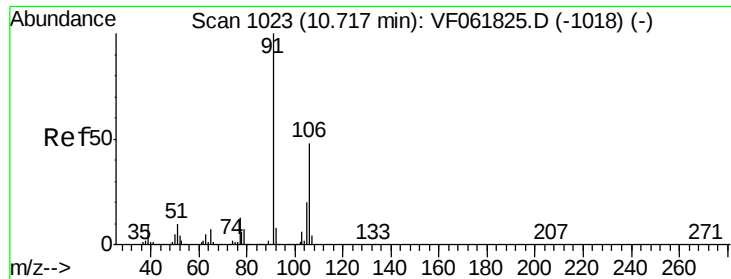
Tgt Ion: 106 Resp: 440

Ion Ratio Lower Upper

106 100

91 249.5 153.0 229.6#





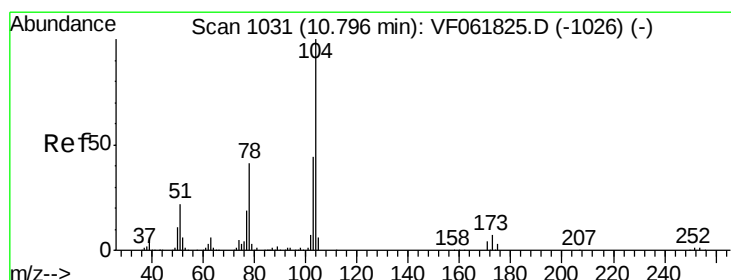
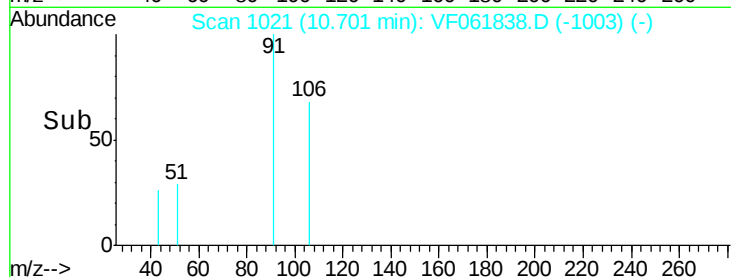
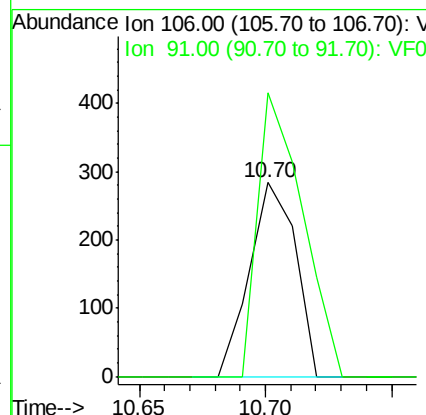
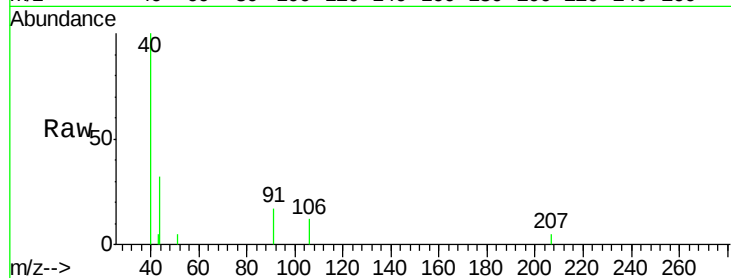
#69
o-Xylene
Concen: 0.082 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.02 min
Lab File: VF061838.D
Acq: 5 Mar 2019 00:40

Instrument :
MSVOA_F
ClientSampleId :
Z-2-1

Tot Ion	Ion	Ratio	Resp	Lower	Upper
362	106	100			
	91	146.1	100.1	300.1	

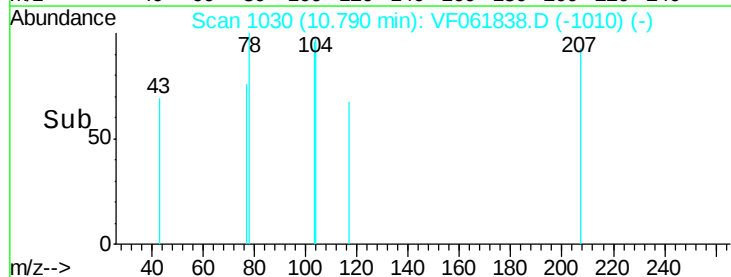
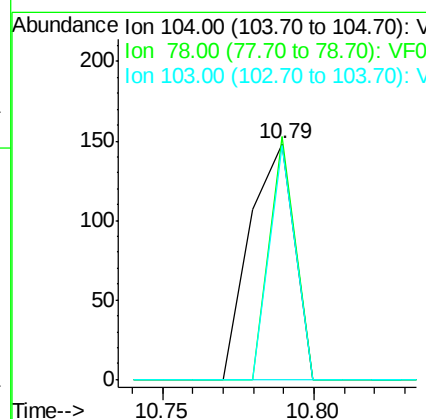
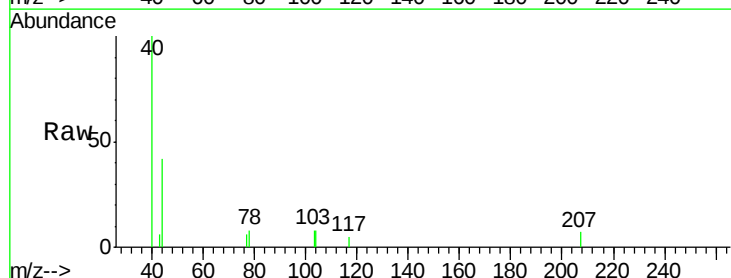
Manual Integrations
APPROVED

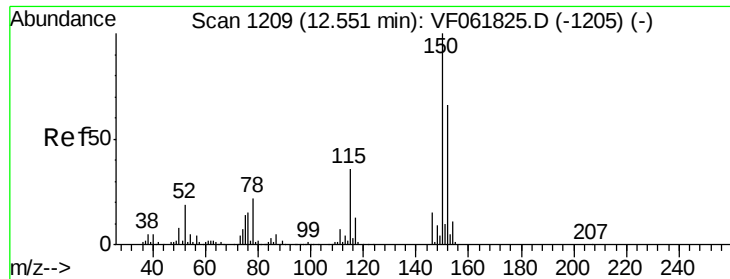
MMDadoda
3/5/2019 10:48:36 AM



#70
Styrene
Concen: 0.024 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VF061838.D
Acq: 5 Mar 2019 00:40

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
151	104	100			
	78	103.4	33.2	49.8#	
	103	99.3	37.2	55.8#	





#72

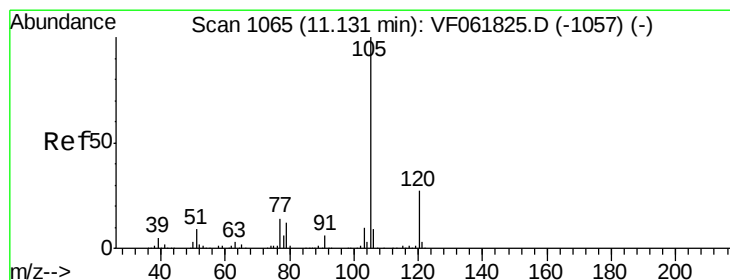
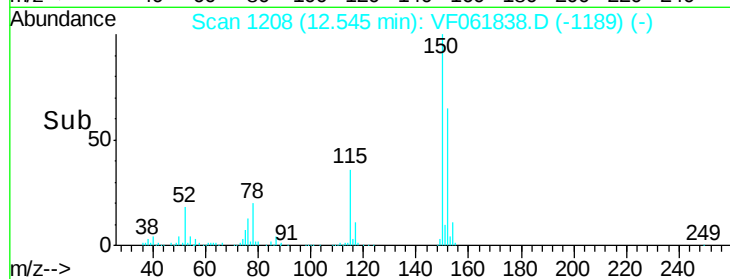
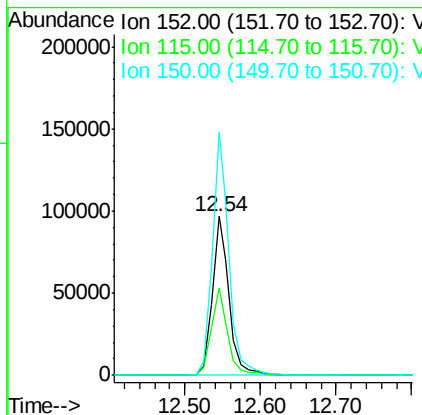
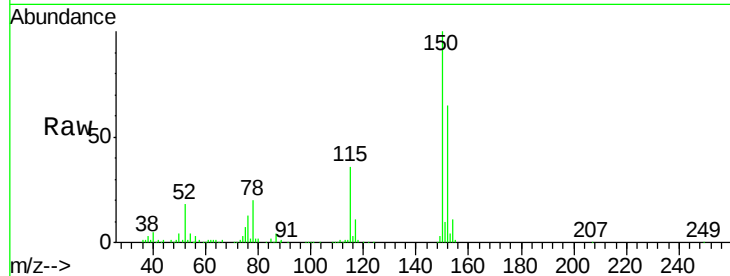
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.01 min
Lab File: VF061838.D
Acq: 5 Mar 2019 00:40

Instrument :
MSVOA_F
ClientSampled :
Z-2-1

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.1	24.3	72.8
150	153.2	0.0	312.0

Manual Integrations
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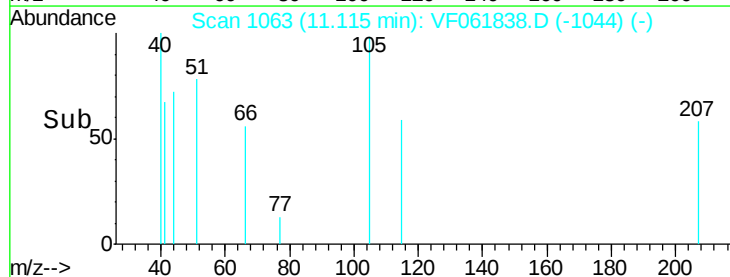
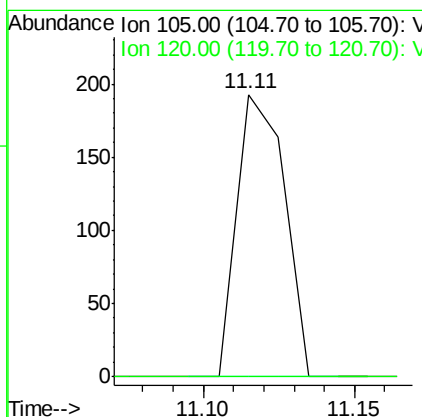
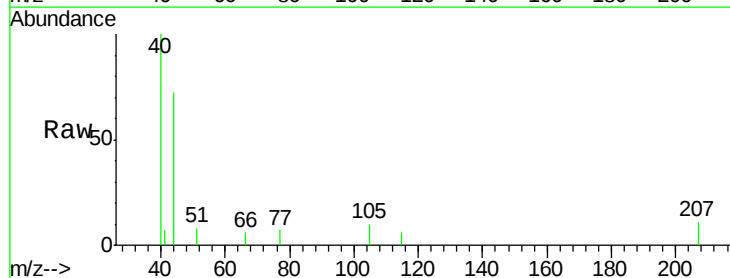
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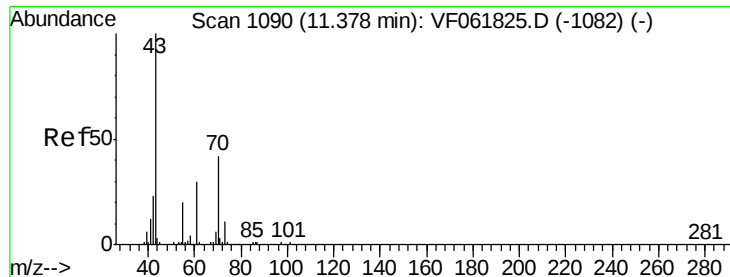


#73

Isopropylbenzene
Concen: 0.020 ug/l
RT: 11.11 min Scan# 1063
Delta R.T. -0.01 min
Lab File: VF061838.D
Acq: 5 Mar 2019 00:40

Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	13.4	40.1





#74

N-amvl acetate

Concen: 0.120 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VF061838.D

Acq: 5 Mar 2019 00:40

Instrument :

MSVOA_F

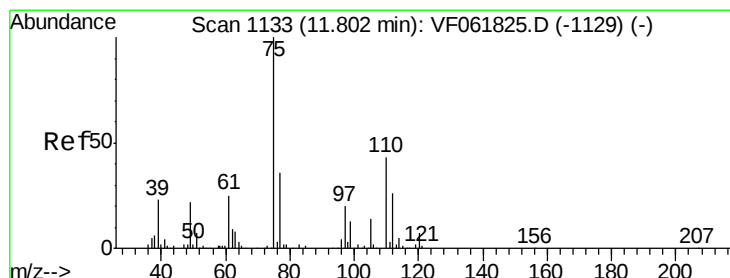
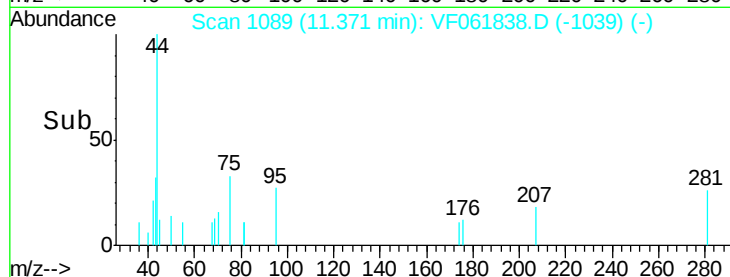
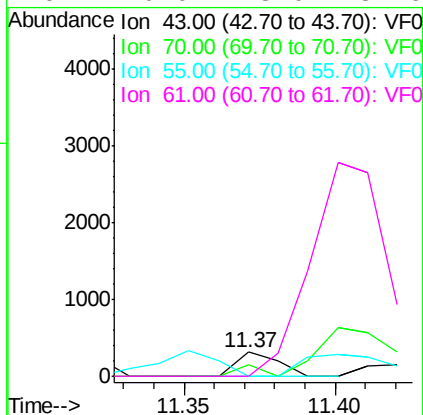
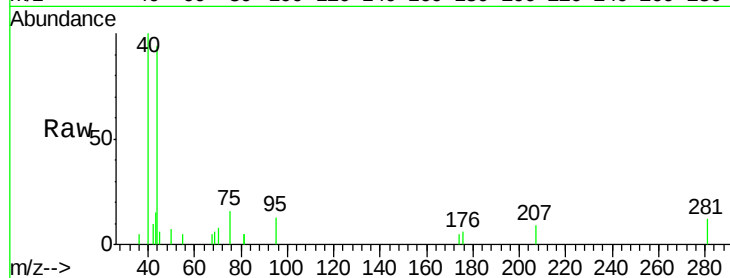
ClientSampleId :

Z-2-1

Tot Ion:	43	Resp:	307
Ion	Ratio	Lower	Upper
43	100		
70	48.9	31.5	47.3#
55	0.0	16.7	25.1#
61	0.0	23.0	34.6#

Manual Integrations
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MMDadoda
3/5/2019 10:48:36 AM



#76

1,2,3-Trichloropropane

Concen: 0.273 ug/l

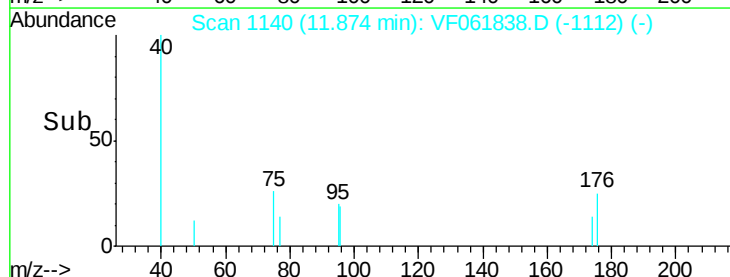
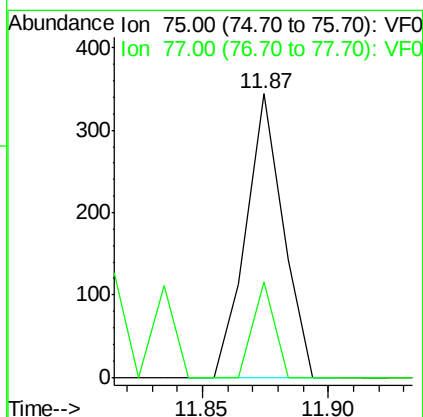
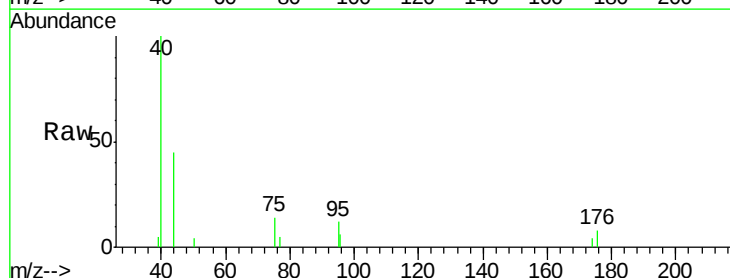
RT: 11.87 min Scan# 1140

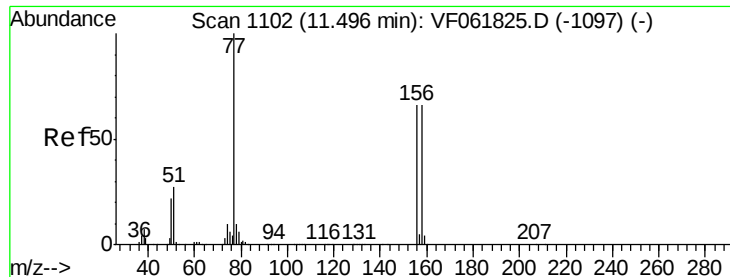
Delta R.T. 0.07 min

Lab File: VF061838.D

Acq: 5 Mar 2019 00:40

Tgt Ion:	75	Resp:	354
Ion	Ratio	Lower	Upper
75	100		
77	33.7	16.6	49.7





#77

Bromobenzene

Concen: 0.027 ug/l

RT: 11.48 min Scan# 1100

Delta R.T. -0.02 min

Lab File: VF061838.D

Acq: 5 Mar 2019 00:40

Instrument :

MSVOA_F

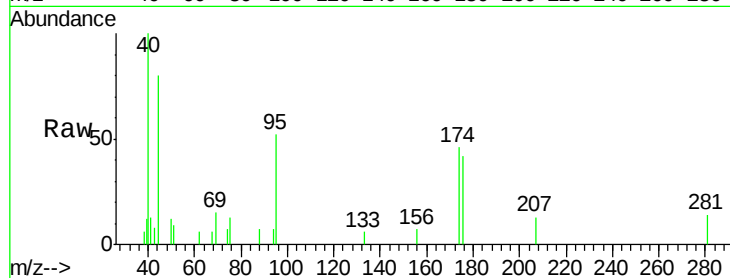
ClientSampleId :

Z-2-1

Tot Ion:	156	Resp:	70
Ion Ratio	Lower	Upper	
156	100		
77	0.0	64.3	192.7#
158	0.0	50.9	152.7#

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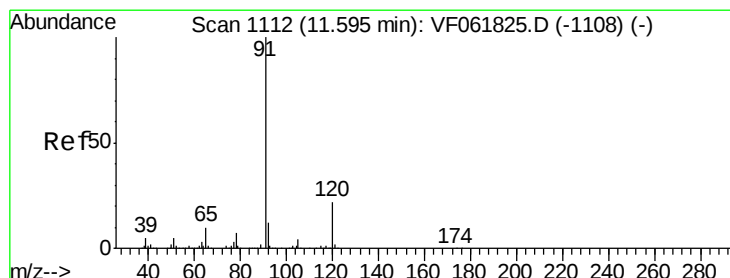
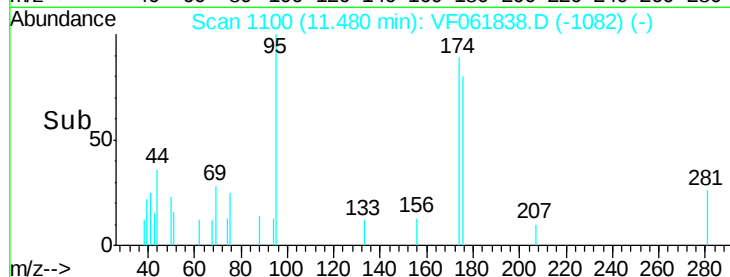
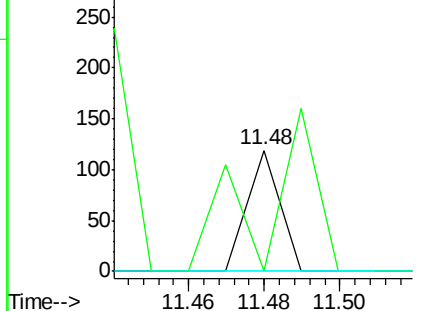
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Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 0.071 ug/l

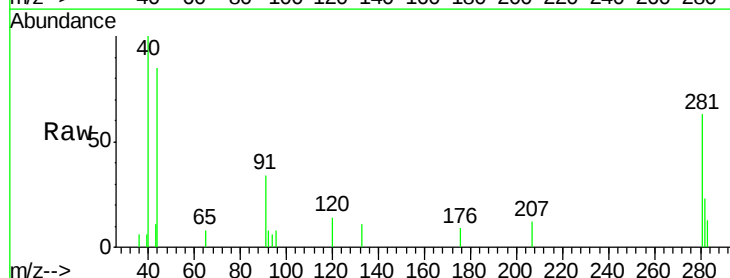
RT: 11.59 min Scan# 1111

Delta R.T. -0.01 min

Lab File: VF061838.D

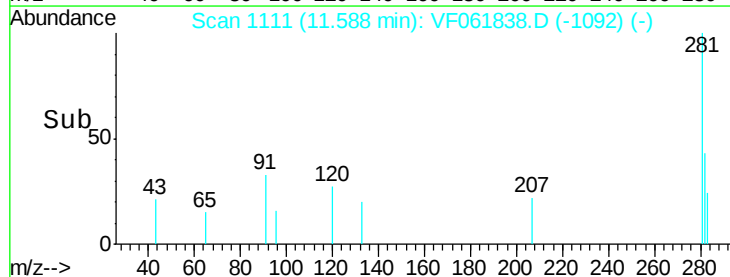
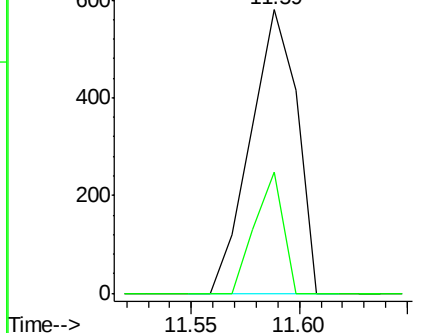
Acq: 5 Mar 2019 00:40

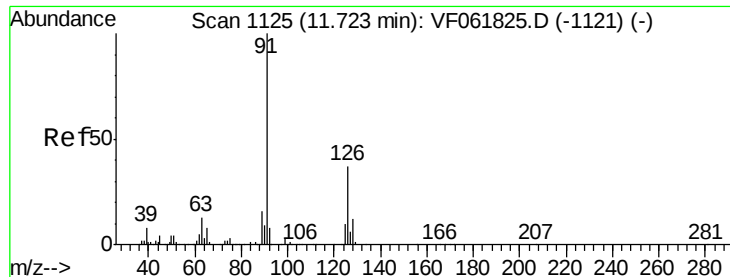
Tgt Ion:	91	Resp:	863
Ion Ratio	Lower	Upper	
91	100		
120	42.6	12.1	36.3#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 0.013 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. -0.02 min

Lab File: VF061838.D

Acq: 5 Mar 2019 00:40

Instrument :

MSVOA_F

ClientSampled :

Z-2-1

Tot Ion: 91 Resp: 87

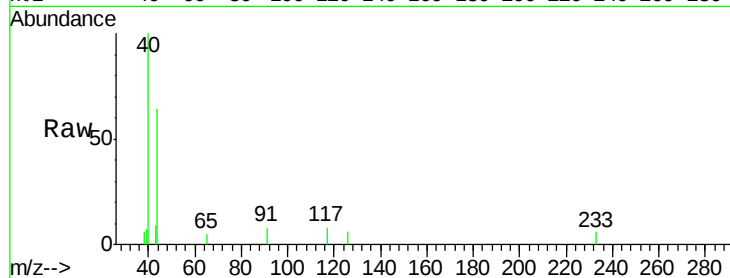
Ion Ratio Lower Upper

91 100

126 77.6 19.8 59.4#

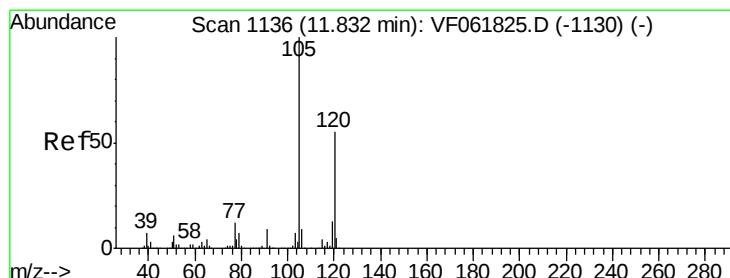
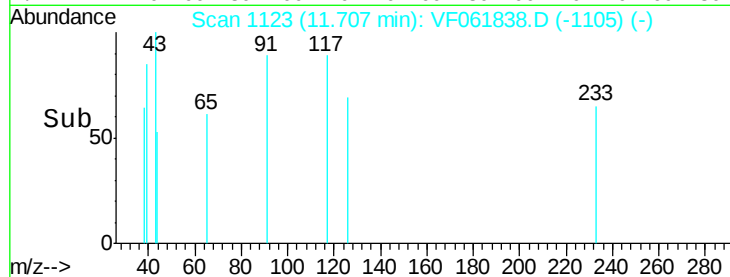
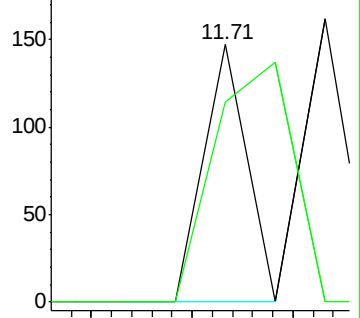
Manual Integrations
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Abundance Ion 91.00 (90.70 to 91.70): VF061825.D (-1121) (-)

Ion 126.00 (125.70 to 126.70): VF061825.D (-1121) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.058 ug/l

RT: 11.82 min Scan# 1134

Delta R.T. -0.01 min

Lab File: VF061838.D

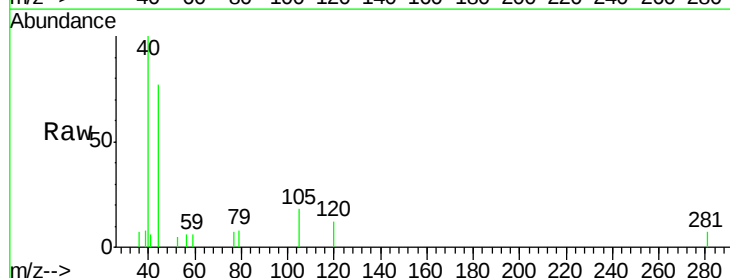
Acq: 5 Mar 2019 00:40

Tgt Ion: 105 Resp: 491

Ion Ratio Lower Upper

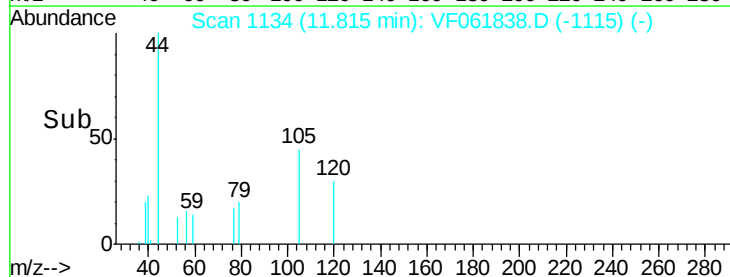
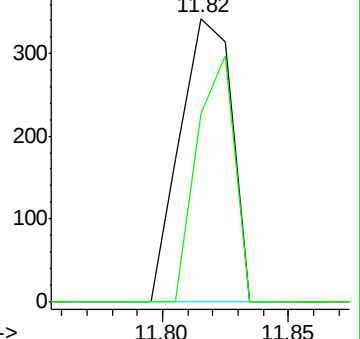
105 100

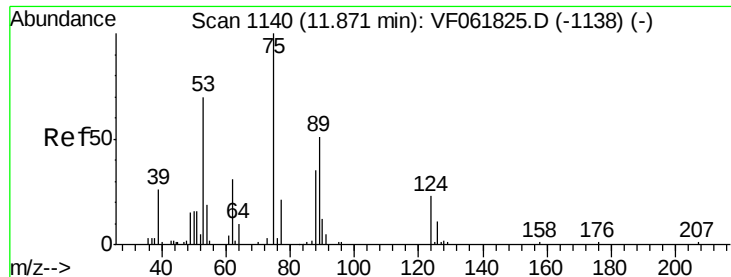
120 66.2 27.9 83.6



Abundance Ion 105.00 (104.70 to 105.70): VF061825.D (-1130) (-)

Ion 120.00 (119.70 to 120.70): VF061825.D (-1130) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 0.570 ug/l

RT: 11.87 min Scan# 1140

Delta R.T. -0.01 min

Lab File: VF061838.D

Acq: 5 Mar 2019 00:40

Instrument :

MSVOA_F

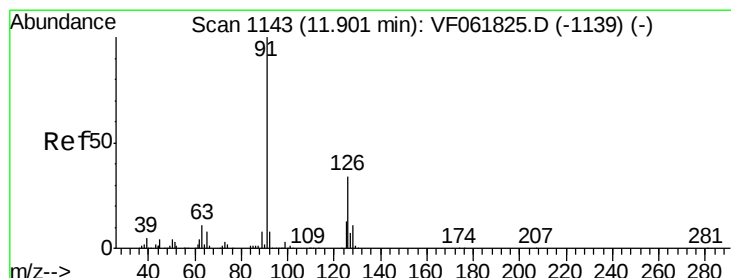
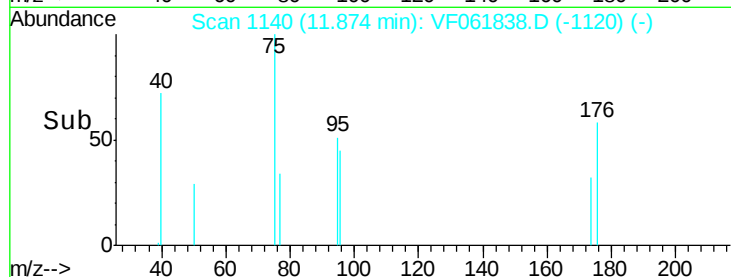
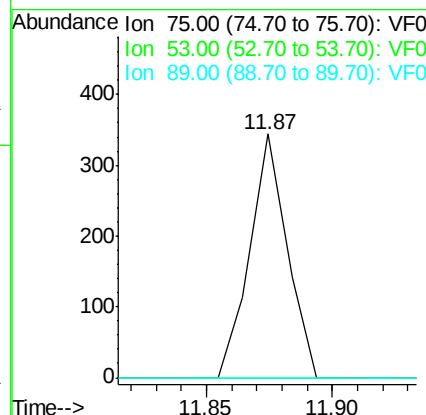
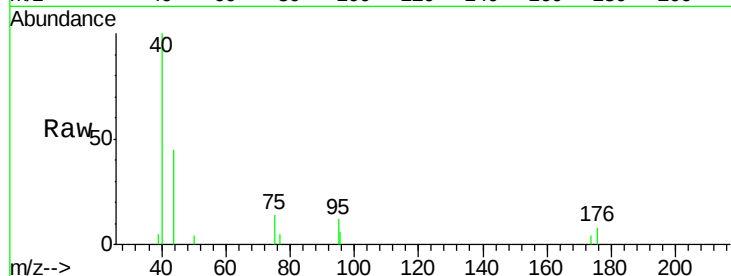
ClientSampled :

Z-2-1

Tot Ion:	75	Resp:	354
Ion Ratio	Lower	Upper	
75	100		
53	0.0	53.7	80.5#
89	0.0	41.6	62.4#

Manual Integrations
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3/5/2019 10:48:36 AM



#82

4-Chlorotoluene

Concen: 0.033 ug/l

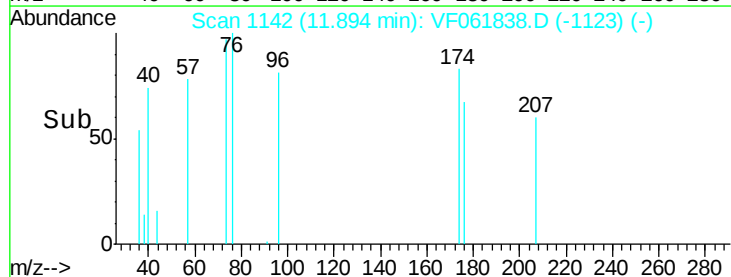
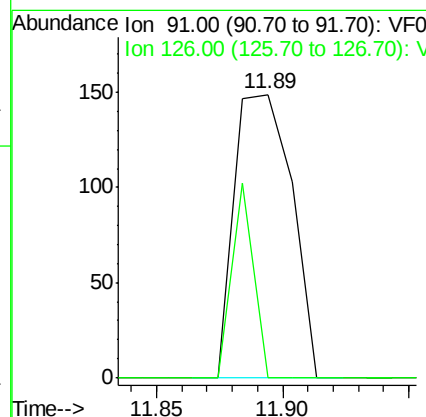
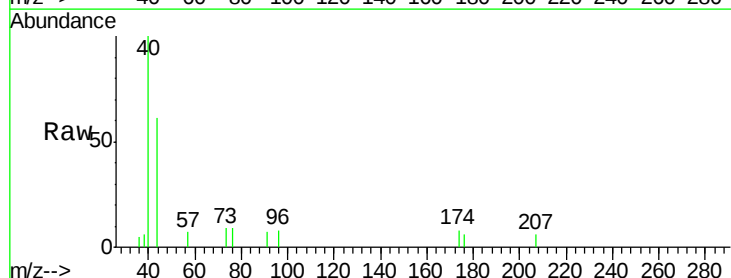
RT: 11.89 min Scan# 1142

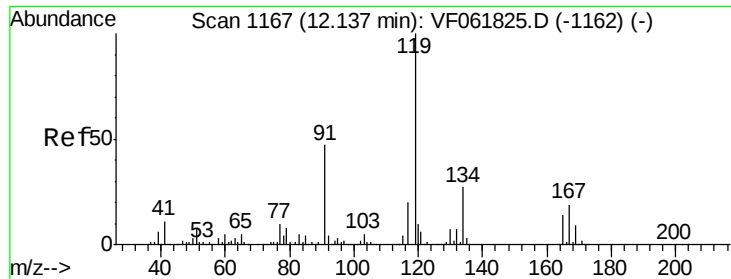
Delta R.T. -0.01 min

Lab File: VF061838.D

Acq: 5 Mar 2019 00:40

Tgt Ion:	91	Resp:	236
Ion Ratio	Lower	Upper	
91	100		
126	0.0	19.1	57.1#





#83

tert-Butylbenzene

Concen: 0.031 ug/l

RT: 12.13 min Scan# 1166

Delta R.T. -0.01 min

Lab File: VF061838.D

Acq: 5 Mar 2019 00:40

Instrument :

MSVOA_F

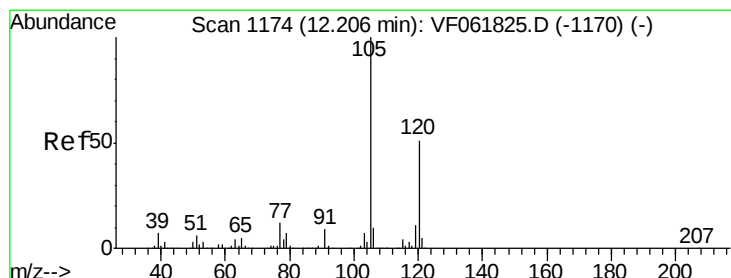
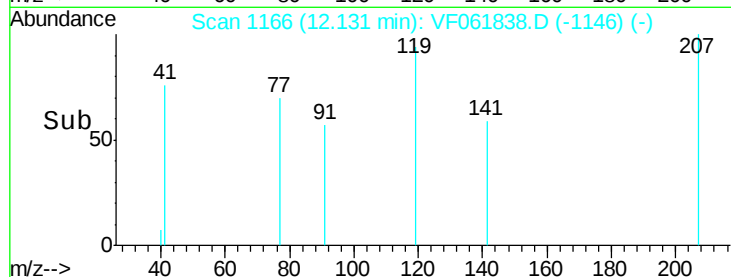
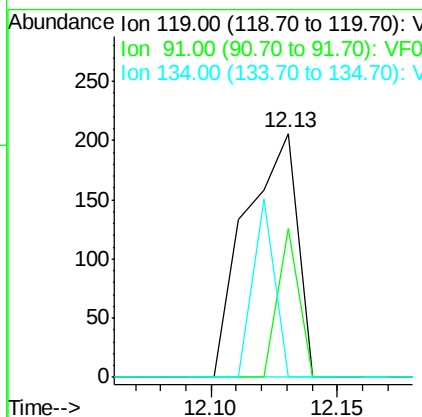
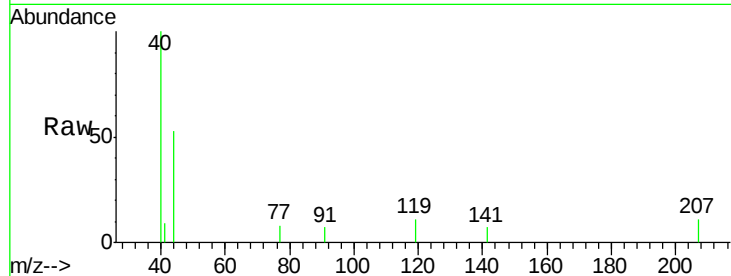
ClientSampled :

Z-2-1

Tot Ion	Ratio	Lower	Upper
119	100		
91	61.2	26.3	78.8
134	0.0	12.9	38.7

Manual Integrations
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3/5/2019 10:48:36 AM



#84

1,2,4-Trimethylbenzene

Concen: 0.072 ug/l

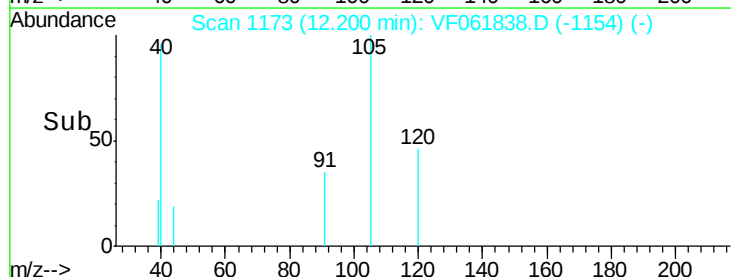
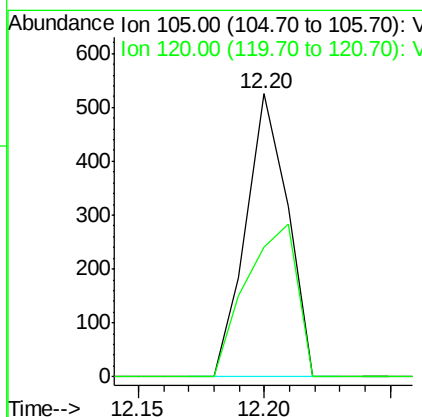
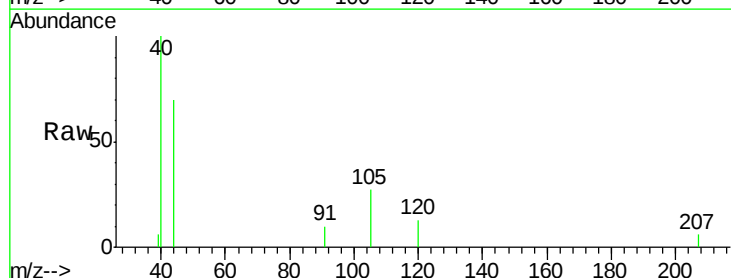
RT: 12.20 min Scan# 1173

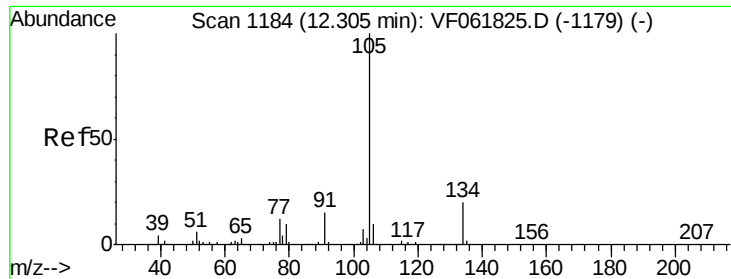
Delta R.T. -0.01 min

Lab File: VF061838.D

Acq: 5 Mar 2019 00:40

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.9	26.1	78.3





#85

sec-Butylbenzene

Concen: 0.056 ug/l

RT: 12.30 min Scan# 1183

Delta R.T. -0.01 min

Lab File: VF061838.D

Acq: 5 Mar 2019 00:40

Instrument :

MSVOA_F

ClientSampled :

Z-2-1

Tot Ion:105 Resp: 678

Ion Ratio Lower Upper

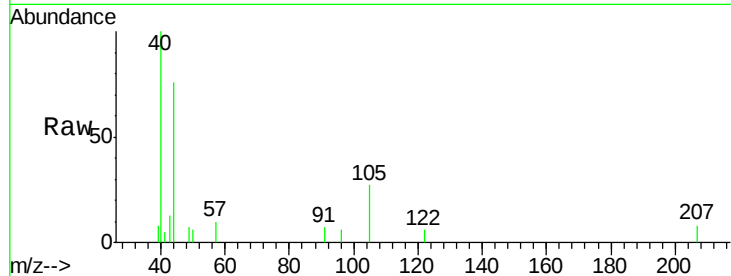
105 100

134 0.0 10.8 32.4#

Manual Integrations
APPROVED

MMDadoda

3/5/2019 10:48:36 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

12.30

600

500

400

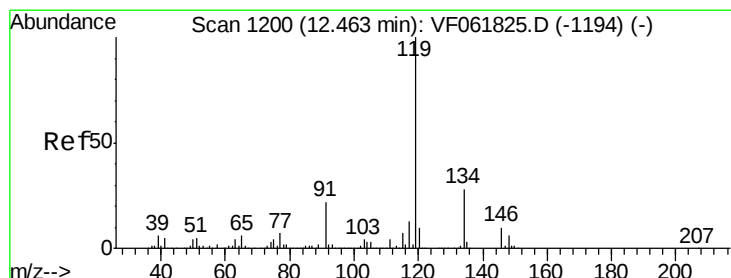
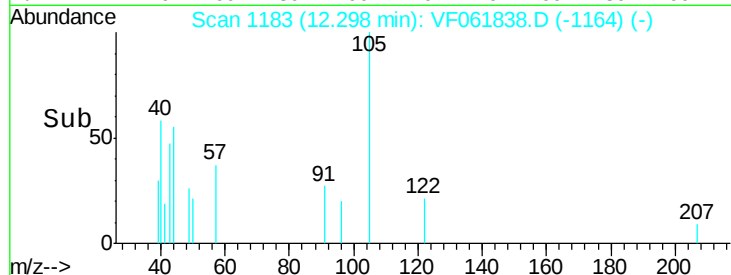
300

200

100

0

Time-->



#86

p-Isopropyltoluene

Concen: 0.099 ug/l

RT: 12.46 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VF061838.D

Acq: 5 Mar 2019 00:40

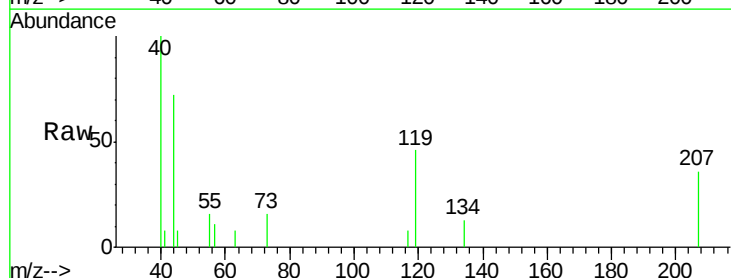
Tgt Ion:119 Resp: 1011

Ion Ratio Lower Upper

119 100

134 27.3 13.7 41.1

91 0.0 10.8 32.4#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

12.46

1000

800

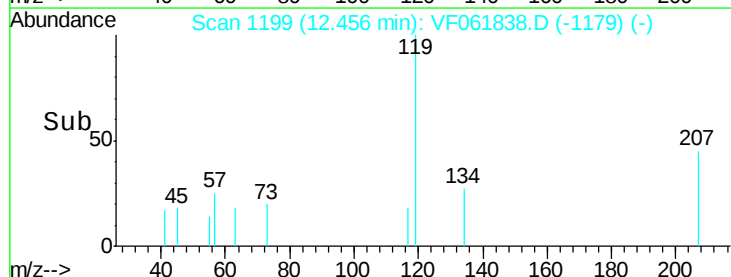
600

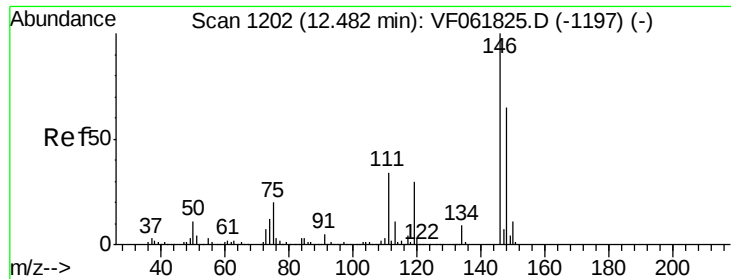
400

200

0

Time-->





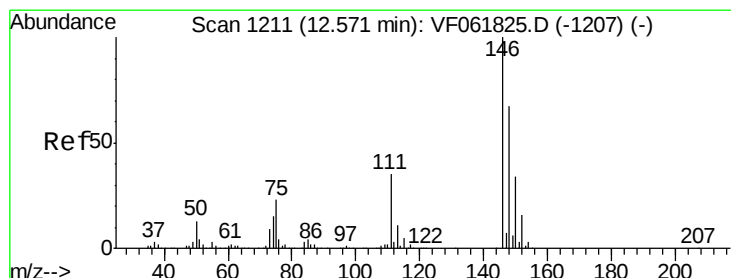
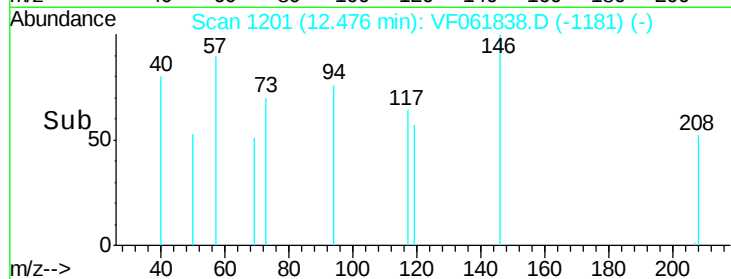
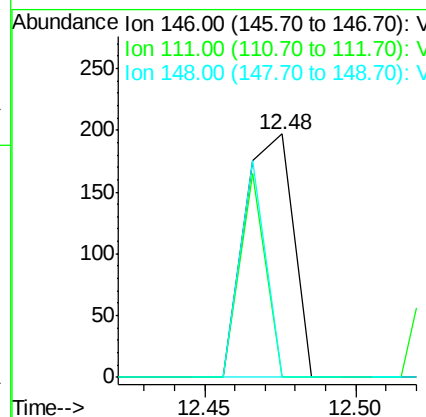
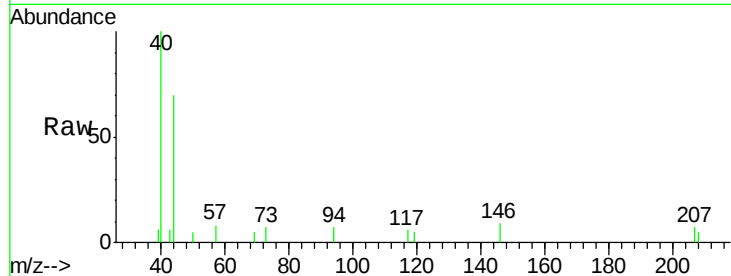
#87
 1,3-Dichlorobenzene
 Concen: 0.043 ug/l
 RT: 12.48 min Scan# 1201
 Delta R.T. -0.01 min
 Lab File: VF061838.D
 Acq: 5 Mar 2019 00:40

Instrument :
 MSVOA_F
 ClientSampled :
 Z-2-1

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	17.5	52.6#
148	0.0	31.4	94.3#

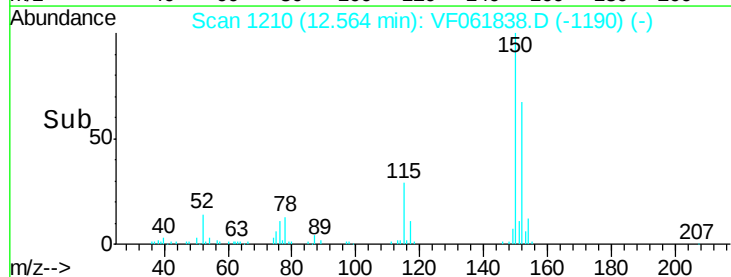
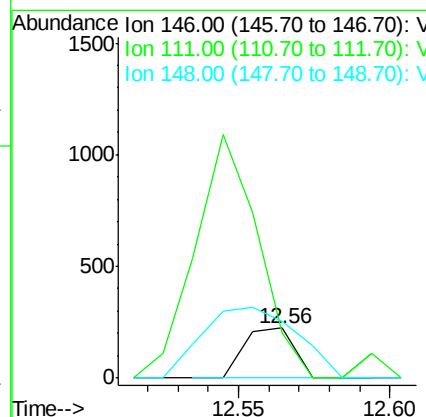
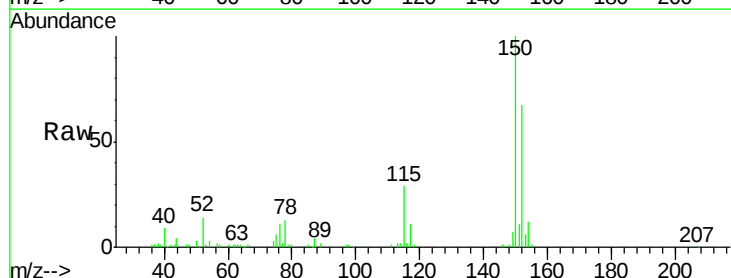
Manual Integrations
 APPROVED

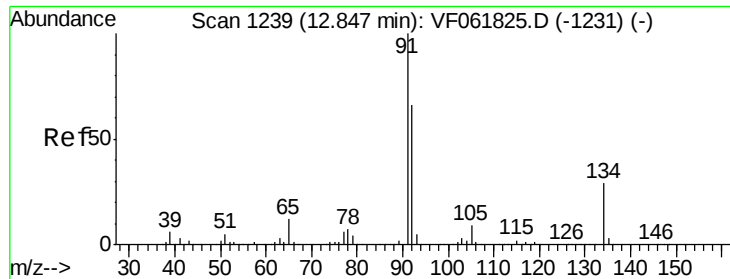
MMDadoda
 3/5/2019 10:48:36 AM



#88
 1,4-Dichlorobenzene
 Concen: 0.052 ug/l
 RT: 12.56 min Scan# 1210
 Delta R.T. -0.01 min
 Lab File: VF061838.D
 Acq: 5 Mar 2019 00:40

Tgt Ion	Ratio	Lower	Upper
146	100		
111	90.2	18.4	55.4#
148	114.3	32.2	96.6#





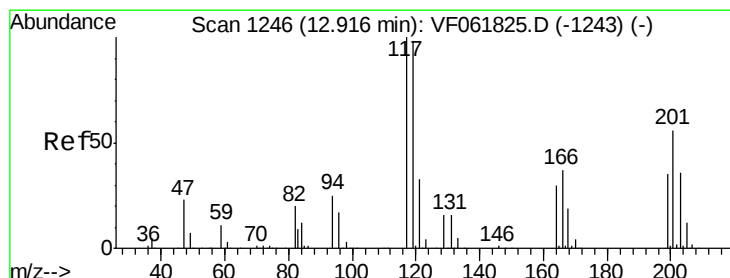
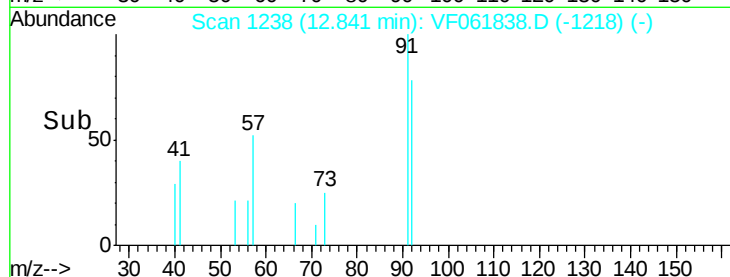
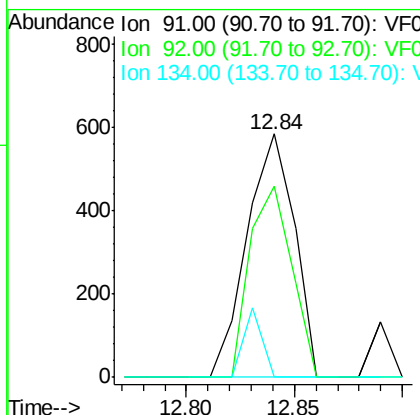
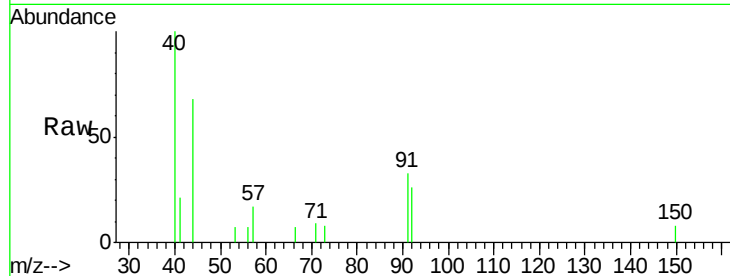
#89
n-Butylbenzene
Concen: 0.092 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.01 min
Lab File: VF061838.D
Acq: 5 Mar 2019 00:40

Instrument :
MSVOA_F
ClientSampleId :
Z-2-1

Tot Ion	Ratio	Lower	Upper
91	100		
92	78.5	31.4	94.3
134	0.0	12.3	36.9

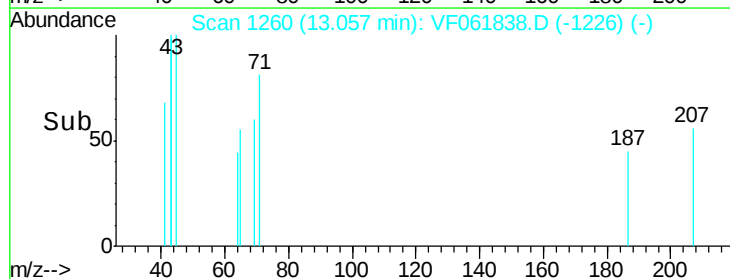
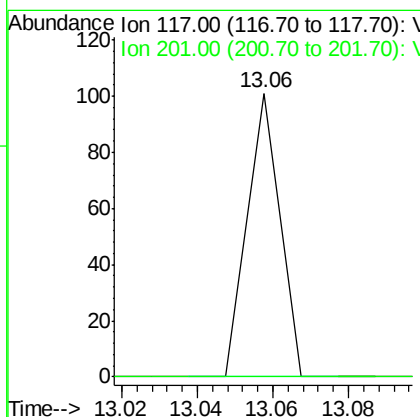
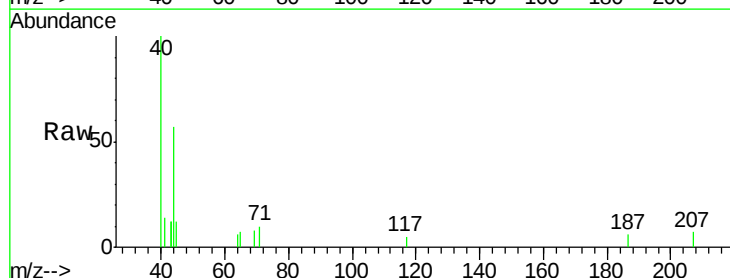
Manual Integrations
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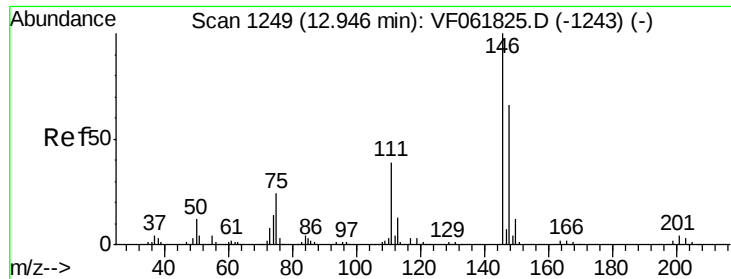
MMDadoda
3/5/2019 10:48:36 AM



#90
Hexachloroethane
Concen: 0.025 ug/l
RT: 13.06 min Scan# 1260
Delta R.T. 0.13 min
Lab File: VF061838.D
Acq: 5 Mar 2019 00:40

Tgt Ion	Ratio	Lower	Upper
117	100		
201	0.0	36.2	108.6





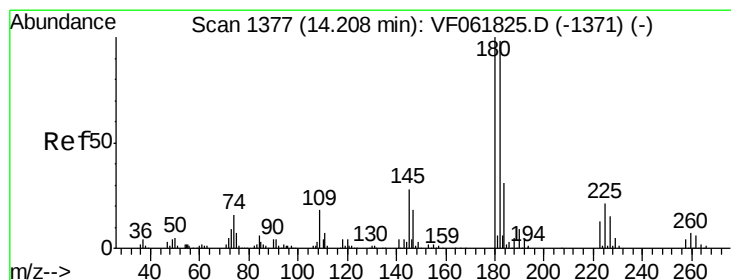
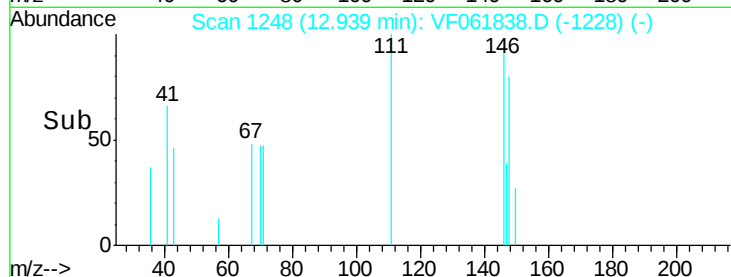
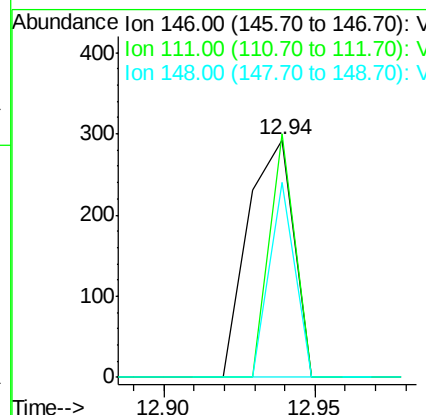
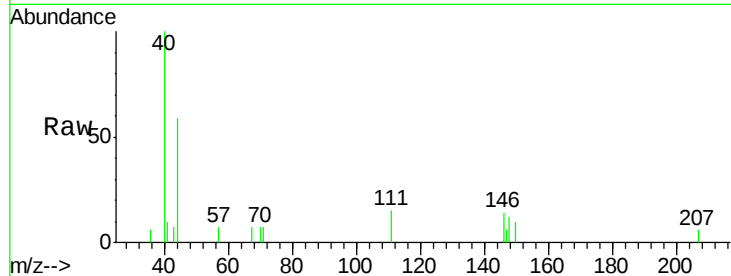
#91
 1,2-Dichlorobenzene
 Concen: 0.063 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. -0.01 min
 Lab File: VF061838.D
 Acq: 5 Mar 2019 00:40

Instrument :
 MSVOA_F
 ClientSampled :
 Z-2-1

Tot Ion	Ratio	Lower	Upper
146	100		
111	102.4	20.2	60.5#
148	82.3	32.3	96.9

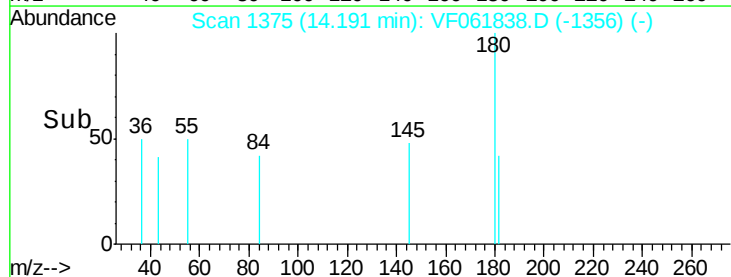
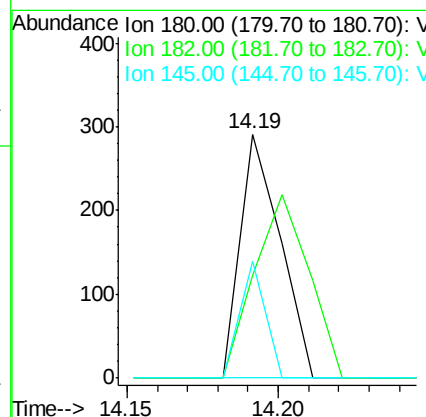
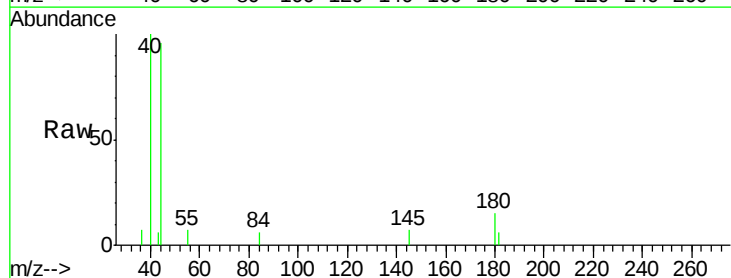
Manual Integrations
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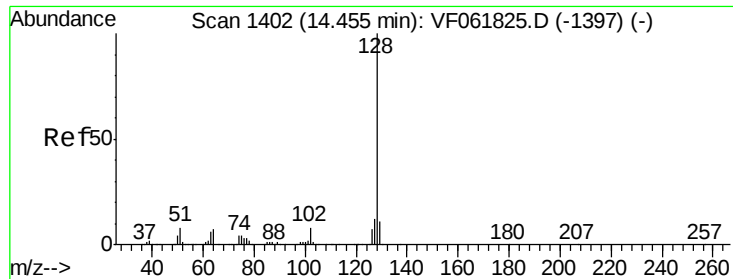
MMDadoda
 3/5/2019 10:48:36 AM



#93
 1,2,4-Trichlorobenzene
 Concen: 0.076 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.01 min
 Lab File: VF061838.D
 Acq: 5 Mar 2019 00:40

Tgt Ion	Ratio	Lower	Upper
180	100		
182	42.3	48.6	145.9#
145	47.8	15.3	45.9#





#95

Naphthalene

Concen: 0.281 ug/l

RT: 14.45 min Scan# 1401

Delta R.T. -0.01 min

Lab File: VF061838.D

Acq: 5 Mar 2019 00:40

Instrument :

MSVOA_F

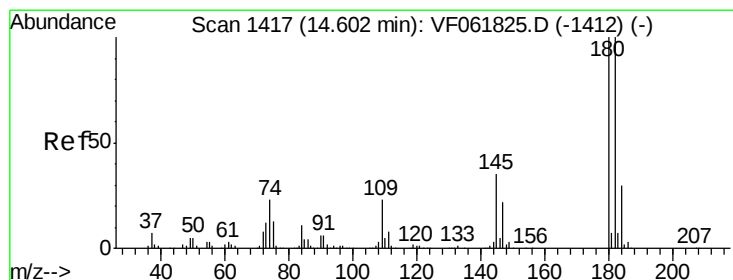
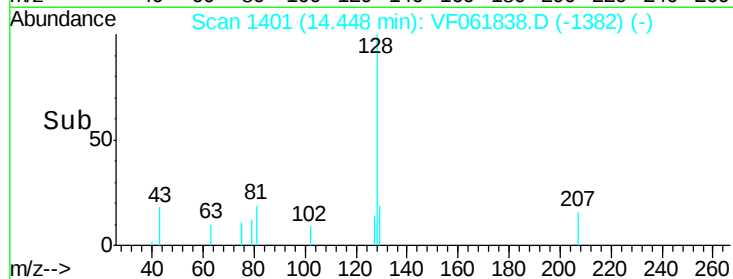
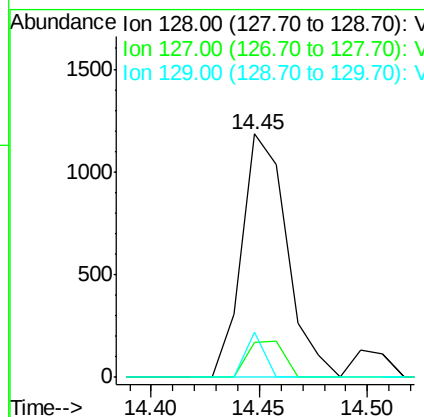
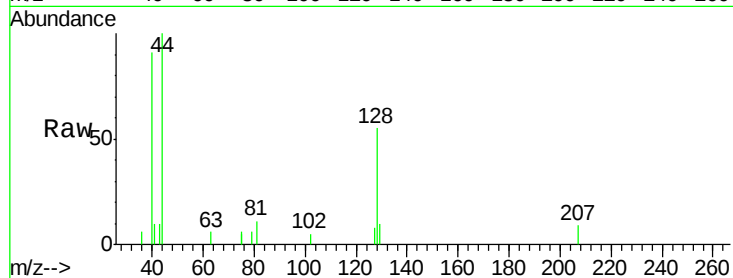
ClientSampleId :

Z-2-1

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.3	9.8	14.6
129	18.7	9.4	14.2#

Manual Integrations
APPROVED

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3/5/2019 10:48:36 AM



#96

1,2,3-Trichlorobenzene

Concen: 0.110 ug/l

RT: 14.61 min Scan# 1417

Delta R.T. -0.01 min

Lab File: VF061838.D

Acq: 5 Mar 2019 00:40

Tgt Ion	Ratio	Lower	Upper
180	100		
182	48.7	49.0	147.2#
145	0.0	15.4	46.1#

