

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF020819\
 Data File : VF061562.D
 Acq On : 8 Feb 2019 17:19
 Operator : VA/AP
 Sample : VF0208SBSD01
 Misc : 5.00µg/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0208SBSD01

Manual Integrations
 APPROVED

MMDadoda
 2/12/2019 2:32:07 AM

Quant Time: Feb 09 04:45:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	171947	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	274080	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	266759	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	137081	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	106487	50.16	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.32%	
35) Dibromofluoromethane	4.11	113	116583	53.91	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.82%	
50) Toluene-d8	7.55	98	306392	51.71	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.42%	
62) 4-Bromofluorobenzene	11.41	95	153107	55.30	ug/l	0.00
Spiked Amount 50.000			Recovery	=	110.60%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.95	85	58820	17.410	ug/l	88
3) Chloromethane	1.08	50	43718	17.648	ug/l	96
4) Vinyl Chloride	1.13	62	40733	18.484	ug/l	99
5) Bromomethane	1.33	94	28326	19.712	ug/l	94
6) Chloroethane	1.37	64	19897	20.377	ug/l	100
7) Trichlorofluoromethane	1.47	101	81942	19.128	ug/l	95
8) Diethyl Ether	1.63	74	11204	20.411	ug/l	83
9) 1,1,2-Trichlorotrifluoroet	1.81	101	39396	19.139	ug/l	94
10) Methyl Iodide	1.89	142	58755	18.412	ug/l	94
11) Tert butyl alcohol	2.57	59	8052	89.607	ug/l	93
12) 1,1-Dichloroethene	1.78	96	29905	19.555	ug/l	86
13) Acrolein	2.00	56	3839m	57.886	ug/l	
14) Allyl chloride	2.10	41	53137	31.721	ug/l	98
15) Acrylonitrile	2.94	53	23431	101.797	ug/l	97
16) Acetone	2.24	43	49533	116.307	ug/l	97
17) Carbon Disulfide	1.82	76	83375	17.485	ug/l	99
18) Methyl Acetate	2.35	43	16134	19.103	ug/l	95
19) Methyl tert-butyl Ether	2.42	73	63359	18.481	ug/l	96
20) Methylene Chloride	2.18	84	32982m	21.824	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	30553	18.158	ug/l	90
22) Diisopropyl ether	2.80	45	103354	18.991	ug/l	99
23) Vinyl Acetate	3.18	43	236406	100.691	ug/l	98
24) 1,1-Dichloroethane	2.87	63	61173	17.909	ug/l	98
25) 2-Butanone	4.34	43	73636	103.973	ug/l	97
26) 2,2-Dichloropropane	3.60	77	41176	19.621	ug/l	99
27) cis-1,2-Dichloroethene	3.47	96	46846	18.861	ug/l	98
28) Bromochloromethane	3.72	49	30248	19.701	ug/l	87
29) Tetrahydrofuran	4.07	42	27859	91.355	ug/l	98
30) Chloroform	3.85	83	88864	19.278	ug/l	97
31) Cyclohexane	3.70	56	61678	18.077	ug/l	91
32) 1,1,1-Trichloroethane	4.09	97	68379	20.231	ug/l	96
36) 1,1-Dichloropropene	4.28	75	67036	21.095	ug/l	94
37) Ethyl Acetate	4.12	43	26053	20.510	ug/l #	73
38) Carbon Tetrachloride	3.99	117	62950	22.659	ug/l	94

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MMDadoda
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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	5.45	83	69975	20.319	ug/l	97
40) Benzene	4.63	78	143789	20.334	ug/l	97
41) Methacrylonitrile	4.74	41	16717	24.732	ug/l #	91
42) 1,2-Dichloroethane	4.94	62	55909	22.188	ug/l	99
43) Isopropyl Acetate	6.96	43	32107	20.139	ug/l #	98
44) Trichloroethene	5.50	130	46575	21.471	ug/l	93
45) 1,2-Dichloropropane	6.23	63	37124	20.004	ug/l	100
46) Dibromomethane	6.08	93	25495	20.660	ug/l	91
47) Bromodichloromethane	6.38	83	66079	21.642	ug/l	99
48) Methyl methacrylate	6.72	41	21555	20.134	ug/l	95
49) 1,4-Dioxane	6.71	88	3048	363.703	ug/l #	86
51) 4-Methyl-2-Pentanone	8.25	43	126711	108.110	ug/l	99
52) Toluene	7.62	92	92592	19.884	ug/l	98
53) t-1,3-Dichloropropene	8.27	75	53117	21.909	ug/l	98
54) cis-1,3-Dichloropropene	7.30	75	63234	20.866	ug/l	97
55) 1,1,2-Trichloroethane	8.49	97	27601	20.873	ug/l	96
56) Ethyl methacrylate	8.62	69	31887	20.727	ug/l	94
57) 1,3-Dichloropropane	8.86	76	51922	20.948	ug/l #	88
58) 2-Chloroethyl Vinyl ether	7.30	63	21558	146.439	ug/l	99
59) 2-Hexanone	9.50	43	101240	123.872	ug/l	100
60) Dibromochloromethane	8.71	129	41777	21.610	ug/l	95
61) 1,2-Dibromoethane	8.98	107	29873	19.734	ug/l	96
64) Tetrachloroethene	8.16	164	38077	18.981	ug/l	97
65) Chlorobenzene	9.79	112	109534	20.192	ug/l	96
66) 1,1,1,2-Tetrachloroethane	9.93	131	45022	20.834	ug/l	99
67) Ethyl Benzene	9.90	91	201793	20.360	ug/l	99
68) m/p-Xylenes	10.13	106	144214	40.456	ug/l	96
69) o-Xylene	10.71	106	80036	20.716	ug/l	98
70) Styrene	10.79	104	110105	20.819	ug/l	98
71) Bromoform	10.77	173	20527	21.141	ug/l #	95
73) Isopropylbenzene	11.12	105	241556	21.666	ug/l	98
74) N-amyl acetate	11.37	43	58376	22.143	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.70	83	39458	19.866	ug/l	93
76) 1,2,3-Trichloropropane	11.80	75	29103	20.392	ug/l	100
77) Bromobenzene	11.49	156	49715	21.114	ug/l	83
78) n-propylbenzene	11.59	91	283901	19.526	ug/l	93
79) 2-Chlorotoluene	11.72	91	158809	20.530	ug/l	96
80) 1,3,5-Trimethylbenzene	11.83	105	186777	20.759	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.86	75	12059m	19.437	ug/l	
82) 4-Chlorotoluene	11.89	91	165648	21.221	ug/l	97
83) tert-Butylbenzene	12.13	119	198870	21.355	ug/l	97
84) 1,2,4-Trimethylbenzene	12.20	105	193211	20.847	ug/l	94
85) sec-Butylbenzene	12.31	105	267157	21.125	ug/l	97
86) p-Isopropyltoluene	12.46	119	220830	21.271	ug/l	96
87) 1,3-Dichlorobenzene	12.48	146	92497	18.670	ug/l	99
88) 1,4-Dichlorobenzene	12.56	146	92873	20.873	ug/l	98
89) n-Butylbenzene	12.84	91	228810	21.371	ug/l	95
90) Hexachloroethane	12.92	117	50804	20.760	ug/l	92
91) 1,2-Dichlorobenzene	12.94	146	92066	20.902	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.64	75	6806	19.320	ug/l	63

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	61883	20.056	ug/l	97
94) Hexachlorobutadiene	14.19	225	38412	20.062	ug/l	99
95) Naphthalene	14.46	128	110870	18.912	ug/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	55661	19.487	ug/l	98

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

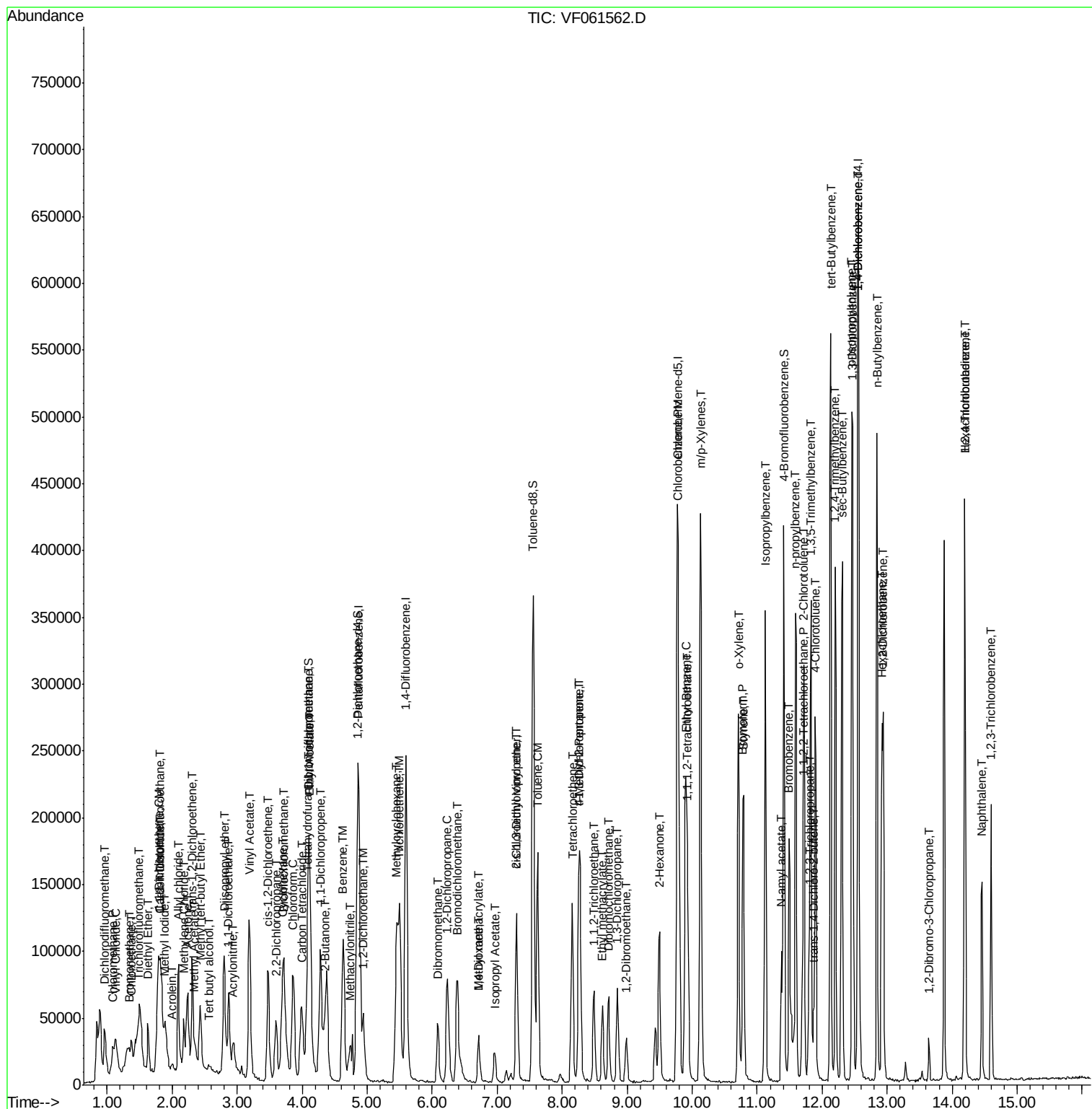
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Data File : VF061562.D
Acq On : 8 Feb 2019 17:19
Operator : VA/AP
Sample : VF0208SBSD01
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 5 Sample Multiplier: 1

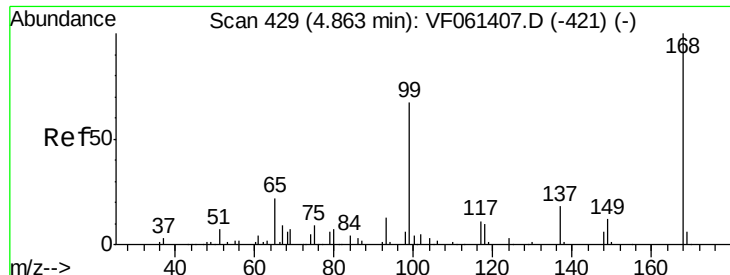
Instrument :
MSVOA_F
ClientSampleId :
VF0208SBSD01

Manual Integrations
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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBSD01

Tot Ion:168 Resp: 171947

Ion Ratio Lower Upper

168 100

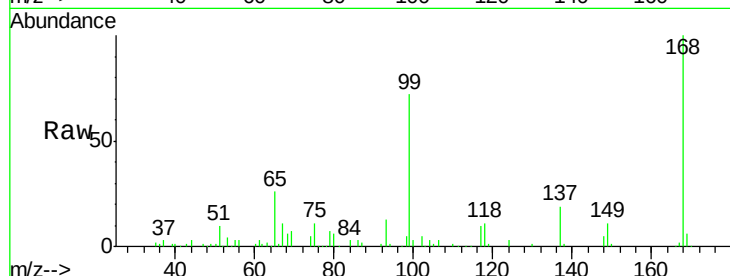
99 72.1 53.5 80.3

Manual Integrations

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2/12/2019 2:32:07 AM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

60000

50000

40000

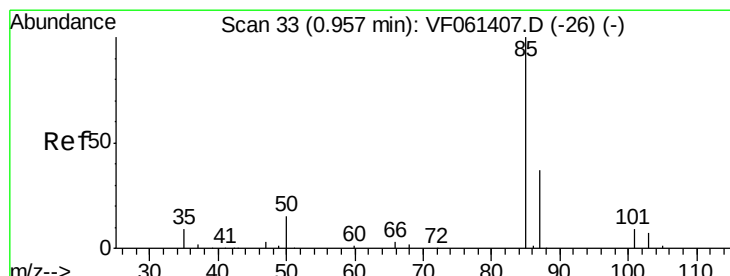
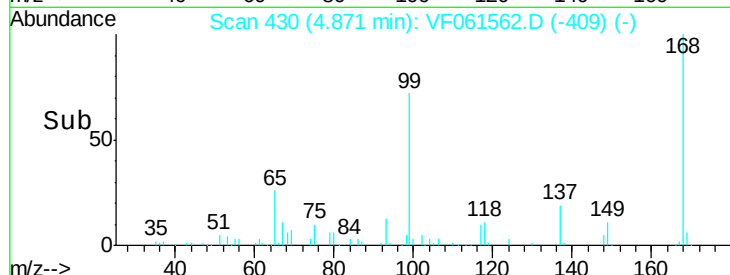
30000

20000

10000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 17.410 ug/l

RT: 0.95 min Scan# 33

Delta R.T. -0.00 min

Lab File: VF061562.D

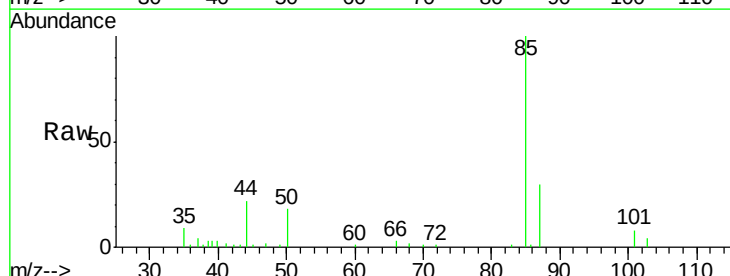
Acq: 8 Feb 2019 17:19

Tgt Ion: 85 Resp: 58820

Ion Ratio Lower Upper

85 100

87 29.8 18.4 55.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.95

20000

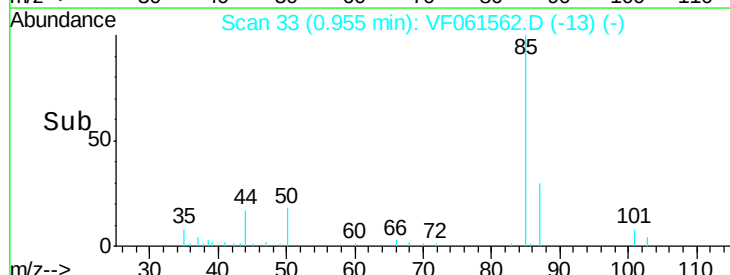
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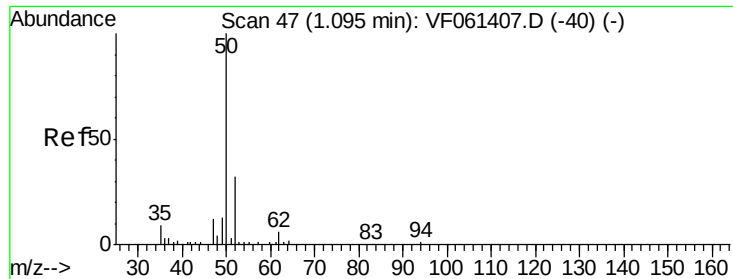
10000

5000

0

Time-->





#3

Chloromethane

Concen: 17.648 ug/l

RT: 1.08 min Scan# 46

Delta R.T. -0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBSD01

Tot Ion: 50 Resp: 43718

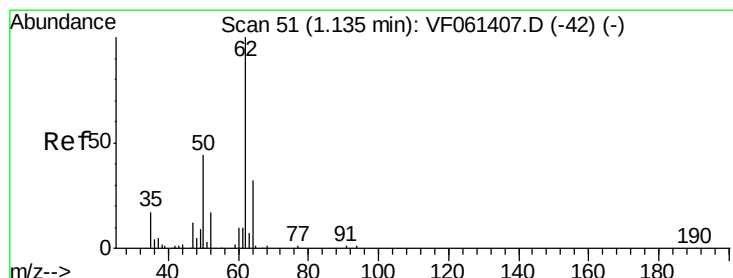
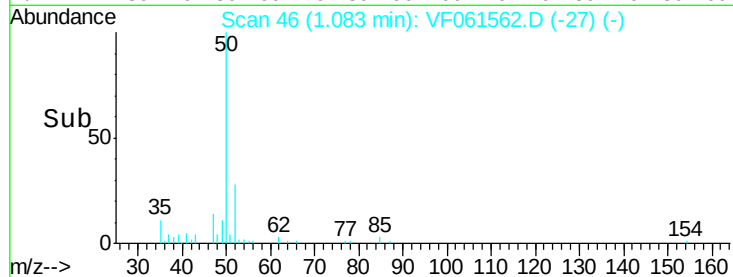
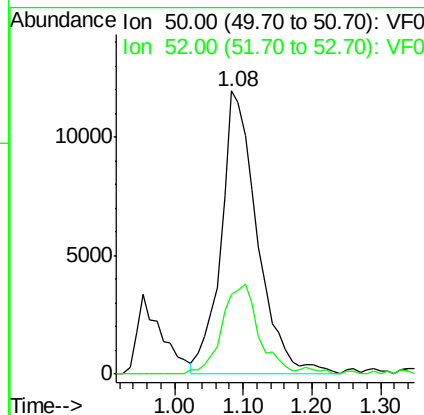
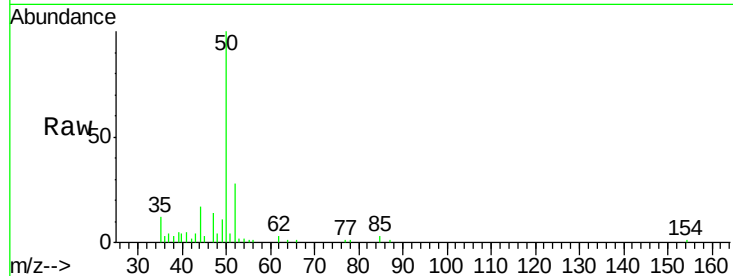
Ion Ratio Lower Upper

50 100

52 28.3 24.6 36.8

Manual Integrations
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#4

Vinyl Chloride

Concen: 18.484 ug/l

RT: 1.13 min Scan# 51

Delta R.T. -0.00 min

Lab File: VF061562.D

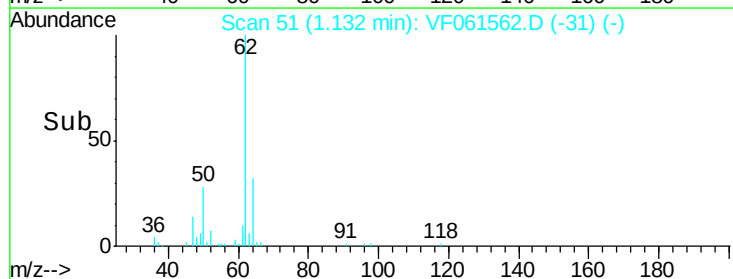
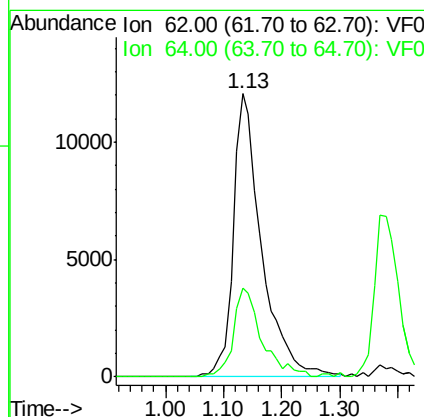
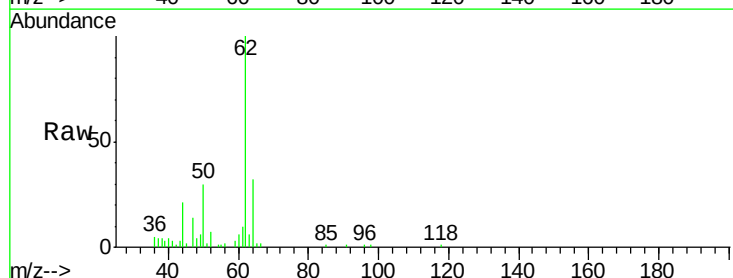
Acq: 8 Feb 2019 17:19

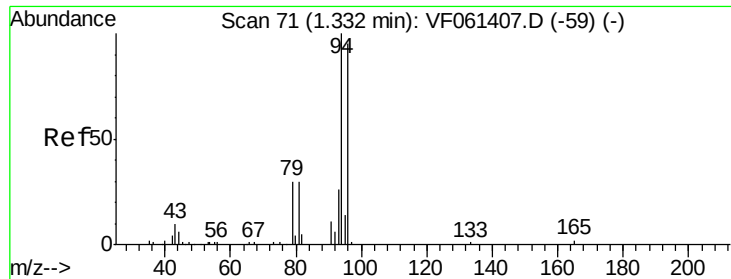
Tgt Ion: 62 Resp: 40733

Ion Ratio Lower Upper

62 100

64 31.5 25.6 38.4





#5

Bromomethane

Concen: 19.712 ug/l

RT: 1.33 min Scan# 71

Delta R.T. -0.00 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBSD01

Tot Ion: 94 Resp: 28326

Ion Ratio Lower Upper

94 100

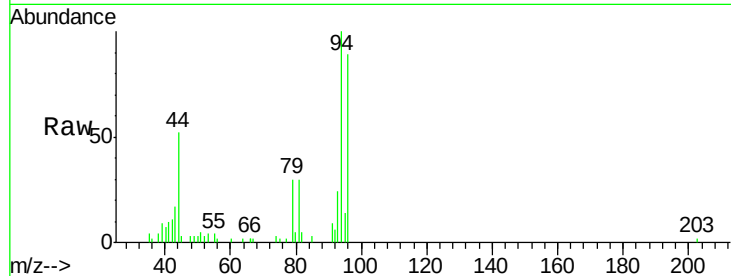
96 89.5 76.0 114.0

Manual Integrations

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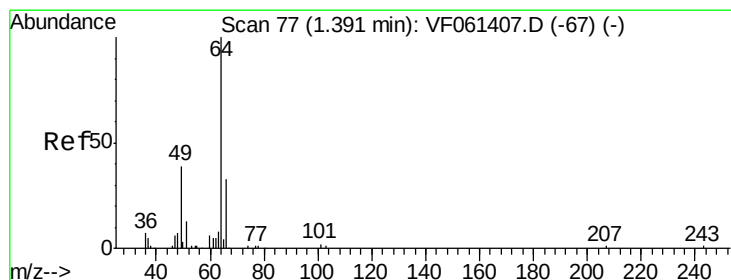
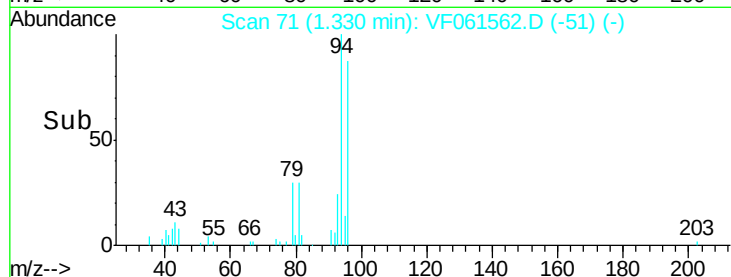
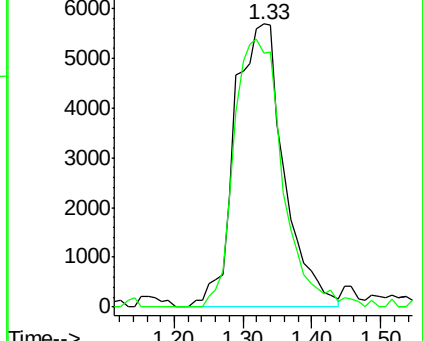
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2/12/2019 2:32:07 AM



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 20.377 ug/l

RT: 1.37 min Scan# 75

Delta R.T. -0.02 min

Lab File: VF061562.D

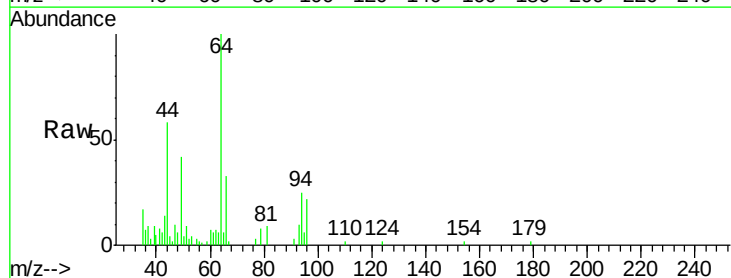
Acq: 8 Feb 2019 17:19

Tgt Ion: 64 Resp: 19897

Ion Ratio Lower Upper

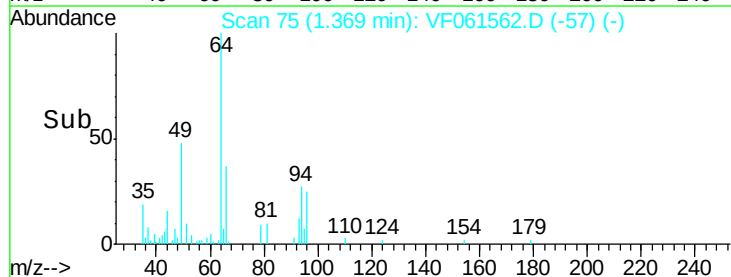
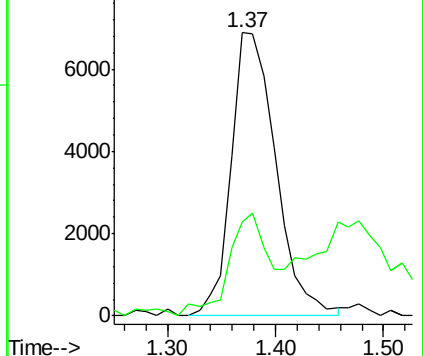
64 100

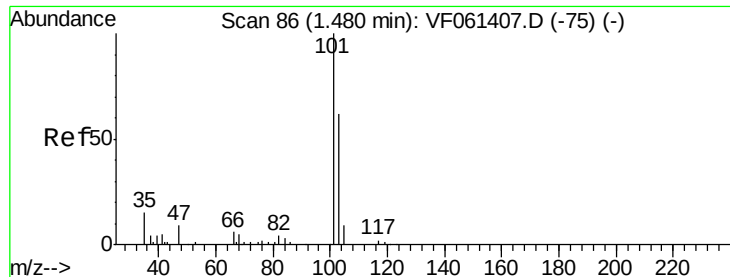
66 33.0 26.6 40.0



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

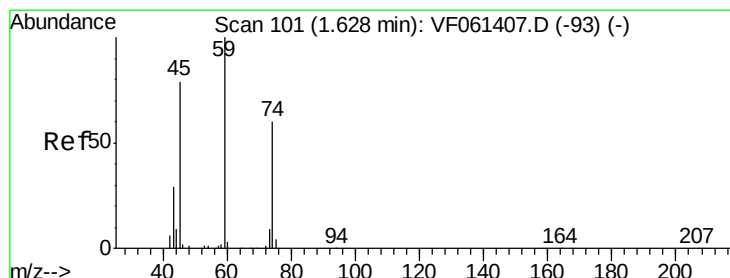
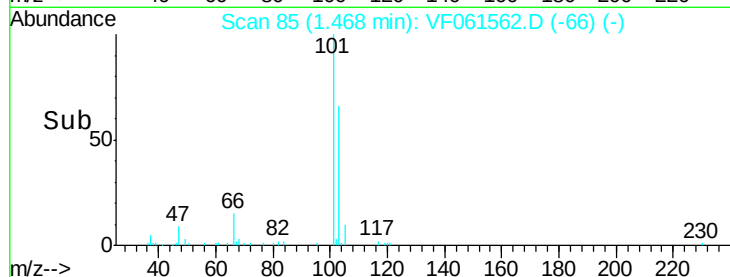
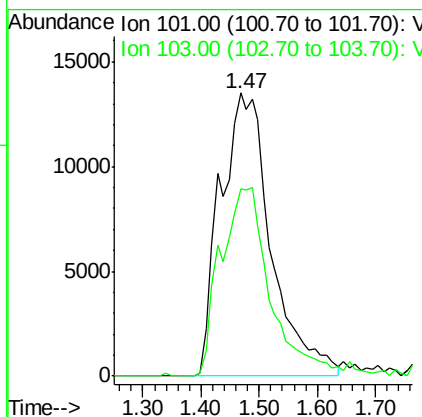
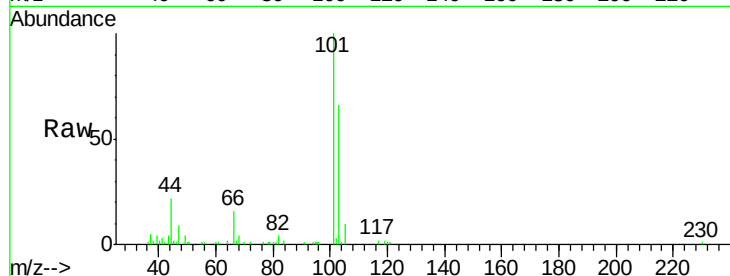
Trichlorofluoromethane
Concen: 19.128 ug/l
RT: 1.47 min Scan# 85
Delta R.T. -0.01 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

Instrument :
MSVOA_F
ClientSampleId :
VF0208SBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.3	49.7	74.5

Manual Integrations
APPROVED

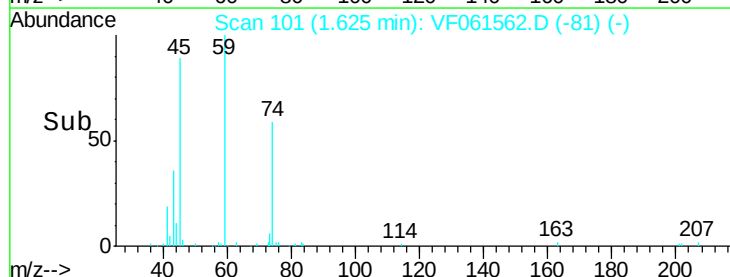
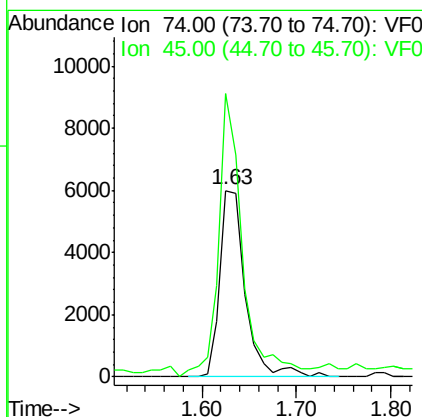
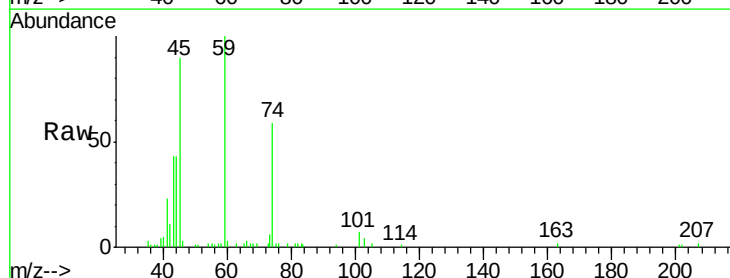
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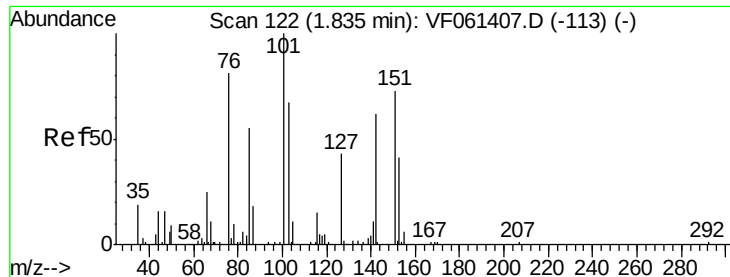


#8

Diethyl Ether
Concen: 20.411 ug/l
RT: 1.63 min Scan# 101
Delta R.T. -0.00 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

Tgt Ion	Ratio	Lower	Upper
74	100		
45	152.1	65.8	197.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.139 ug/l

RT: 1.81 min Scan# 120

Delta R.T. -0.02 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

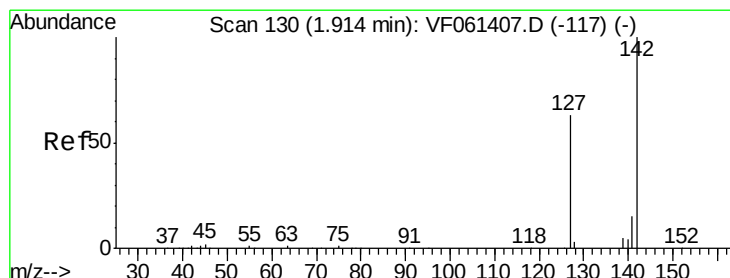
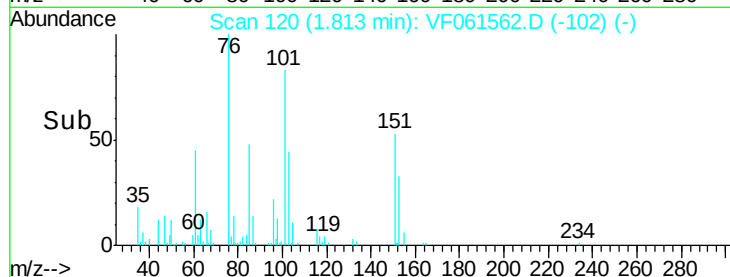
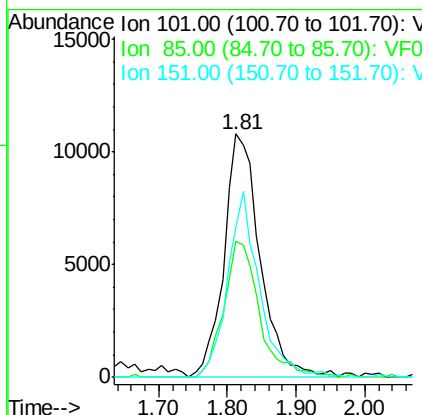
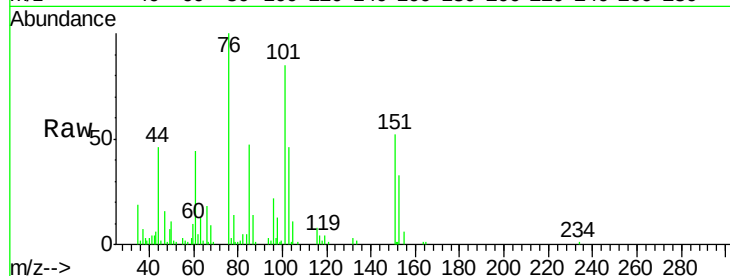
ClientSampleId :

VF0208SBSD01

Tot Ion:	101	Resp:	39396
Ion Ratio	Lower	Upper	
101	100		
85	55.8	41.9	62.9
151	63.1	55.1	82.7

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#10

Methyl Iodide

Concen: 18.412 ug/l

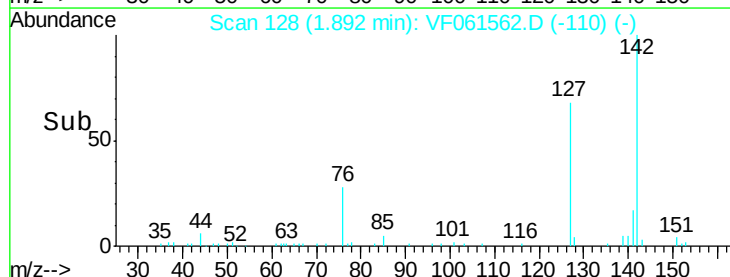
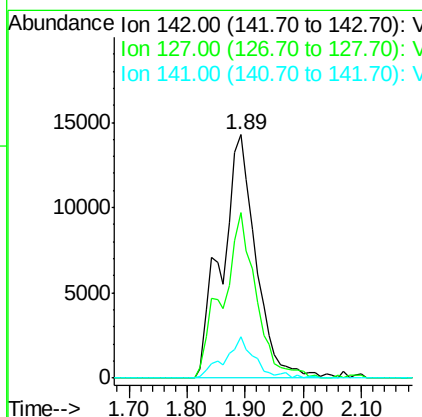
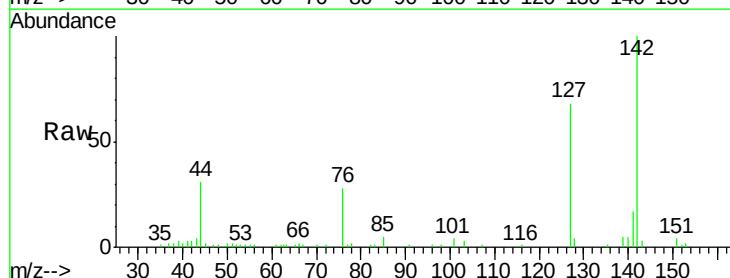
RT: 1.89 min Scan# 128

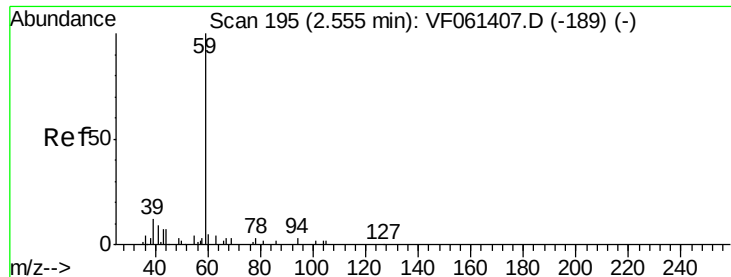
Delta R.T. -0.02 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Tgt Ion:	142	Resp:	58755
Ion Ratio	Lower	Upper	
142	100		
127	67.9	50.7	76.1
141	16.9	11.8	17.6





#11

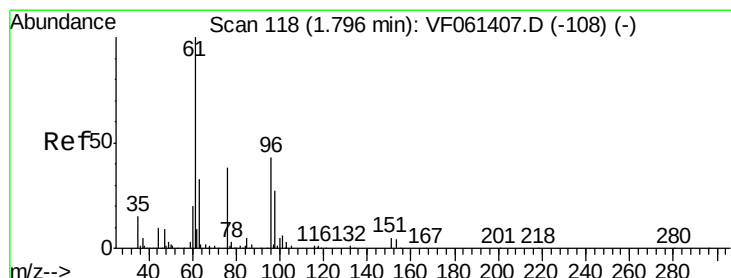
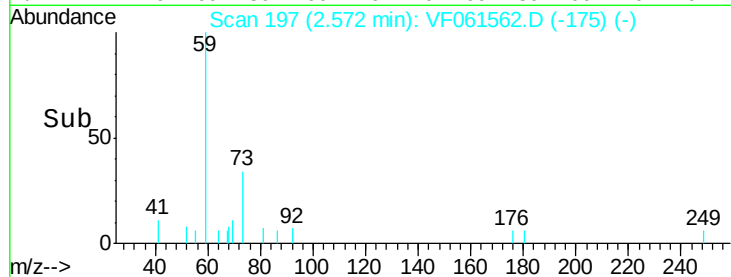
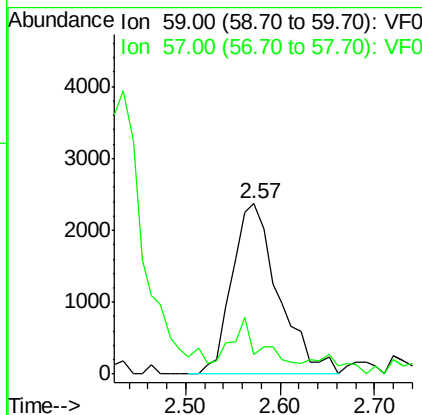
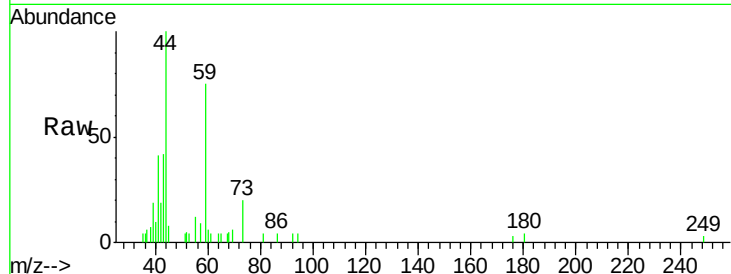
Tert butyl alcohol
 Concen: 89.607 ug/l
 RT: 2.57 min Scan# 197
 Delta R.T. 0.02 min
 Lab File: VF061562.D
 Acq: 8 Feb 2019 17:19

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0208SBSD01

Tot Ion	59	57	Ratio	100	12.0	Resp:	8052
Lower						11.9	
Upper						17.9	

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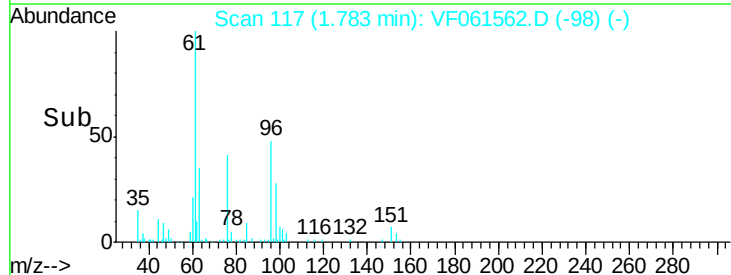
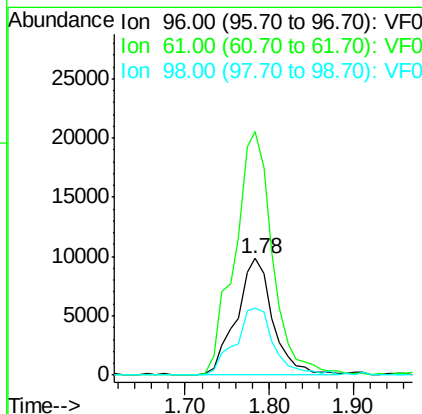
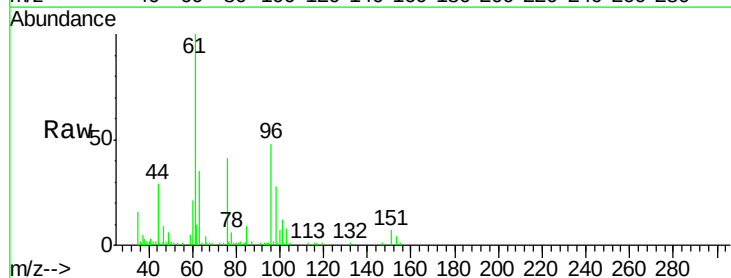
MMDadoda
 2/12/2019 2:32:07 AM

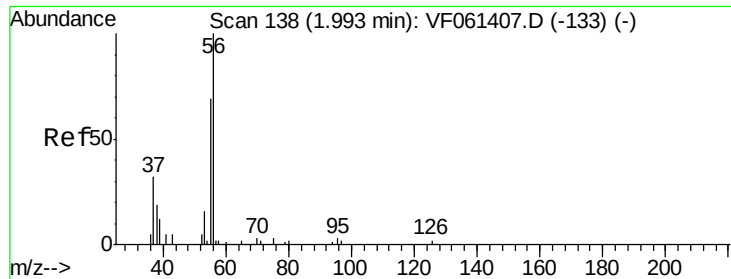


#12

1,1-Dichloroethene
 Concen: 19.555 ug/l
 RT: 1.78 min Scan# 117
 Delta R.T. -0.01 min
 Lab File: VF061562.D
 Acq: 8 Feb 2019 17:19

Tgt Ion	96	61	98	Ratio	100	208.9	57.8	Resp:	29905
Lower						186.9	53.0		
Upper						280.3	79.4		





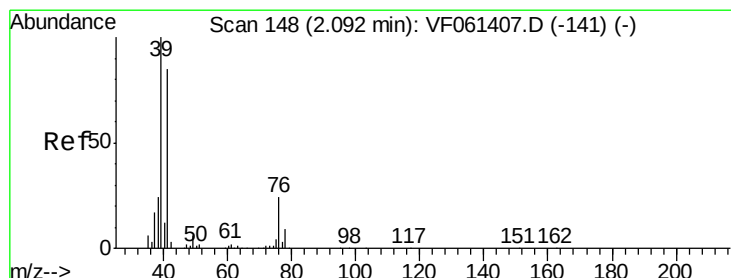
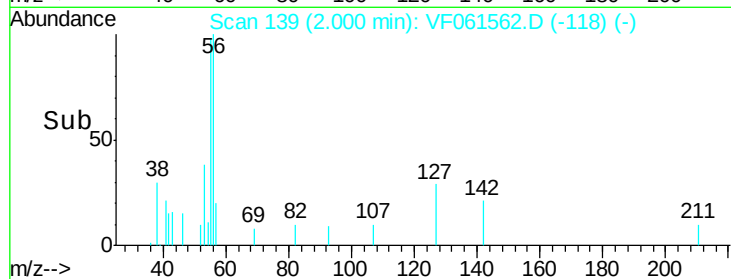
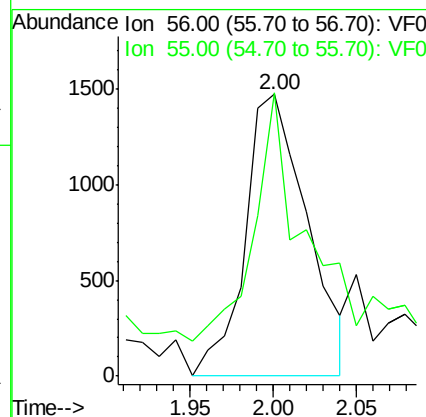
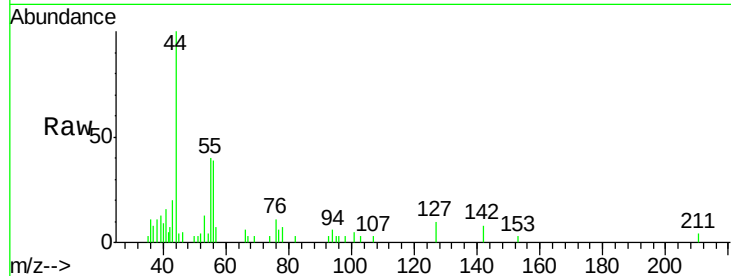
#13
Acrolein
Concen: 57.886 ug/l m
RT: 2.00 min Scan# 139
Delta R.T. 0.01 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

Instrument :
MSVOA_F
ClientSampleId :
VF0208SBSD01

Tot Ion: 56 Resp: 3839
Ion Ratio Lower Upper
56 100
55 100.4 57.5 86.3#

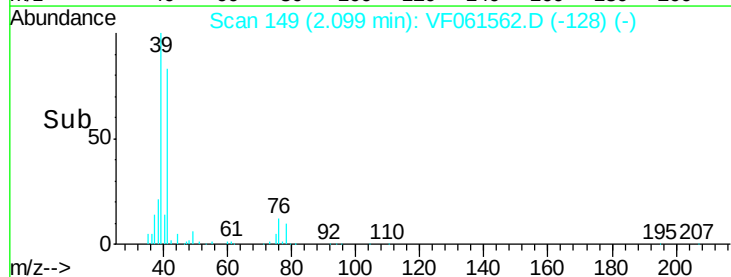
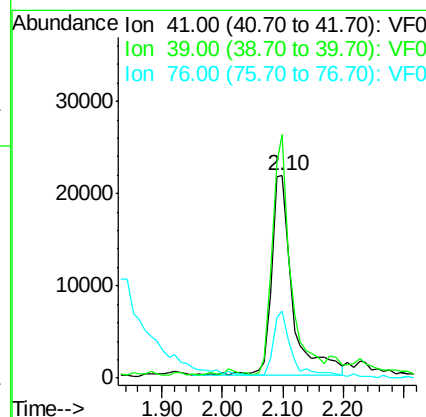
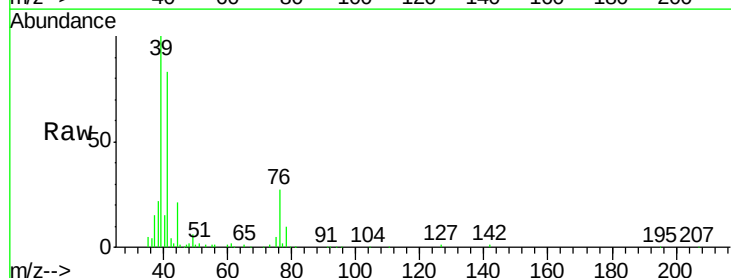
Manual Integrations
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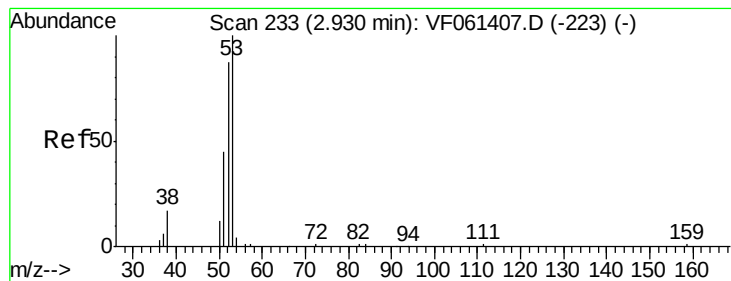
MMDadoda
2/12/2019 2:32:07 AM



#14
Allyl chloride
Concen: 31.721 ug/l
RT: 2.10 min Scan# 149
Delta R.T. 0.01 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

Tgt Ion: 41 Resp: 53137
Ion Ratio Lower Upper
41 100
39 120.2 94.6 141.8
76 33.0 25.9 38.9





#15

Acrylonitrile

Concen: 101.797 ug/l

RT: 2.94 min Scan# 234

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

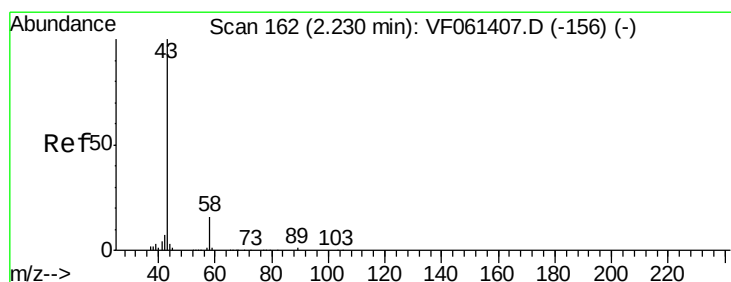
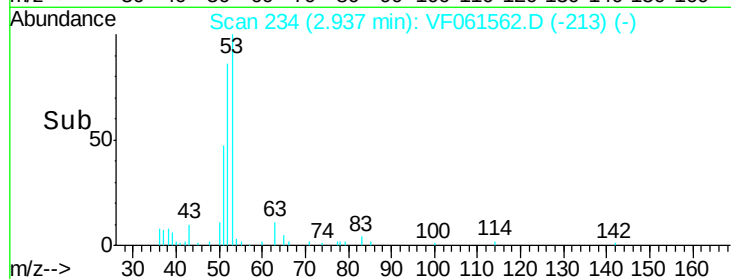
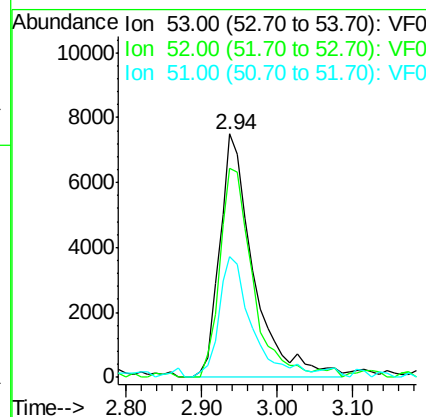
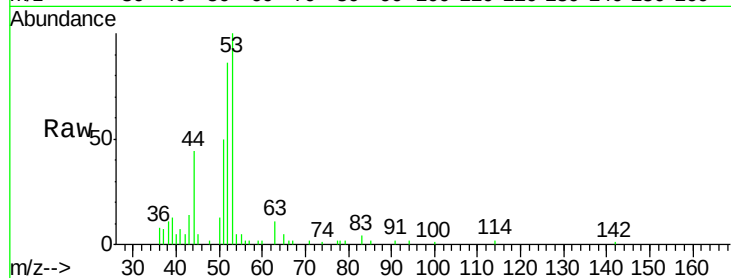
ClientSampleId :

VF0208SBSD01

Tot Ion:	53	Resp:	23431
Ion Ratio		Lower	Upper
53	100		
52	86.0	69.6	104.4
51	49.7	36.8	55.2

Manual Integrations
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#16

Acetone

Concen: 116.307 ug/l

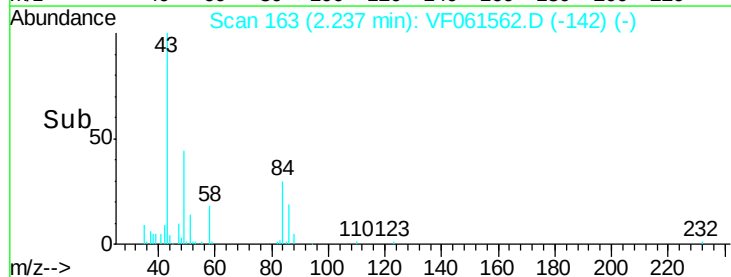
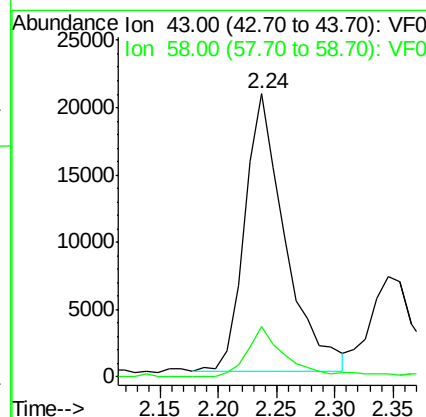
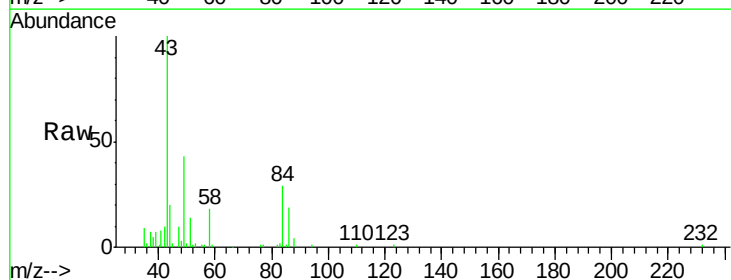
RT: 2.24 min Scan# 163

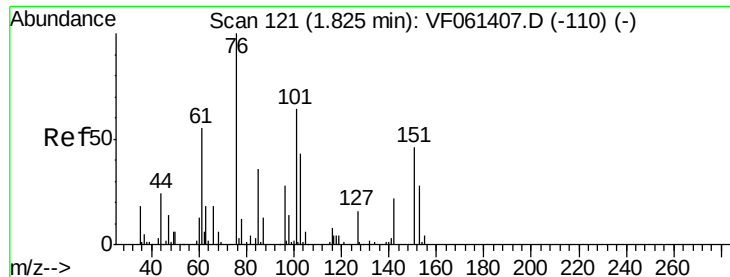
Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Tgt Ion:	43	Resp:	49533
Ion Ratio		Lower	Upper
43	100		
58	17.8	13.3	19.9





#17

Carbon Disulfide

Concen: 17.485 ug/l

RT: 1.82 min Scan# 121

Delta R.T. -0.00 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBSD01

Tot Ion: 76 Resp: 83375

Ion Ratio Lower Upper

76 100

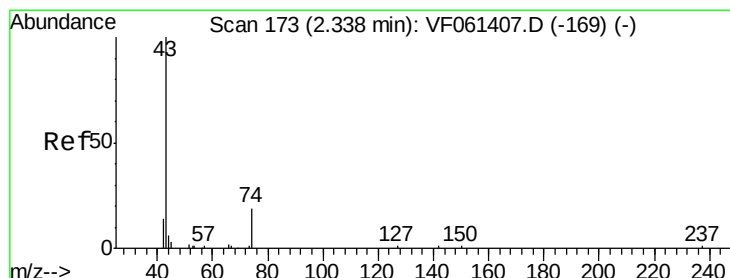
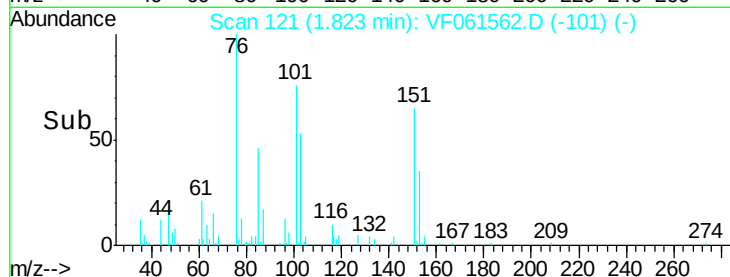
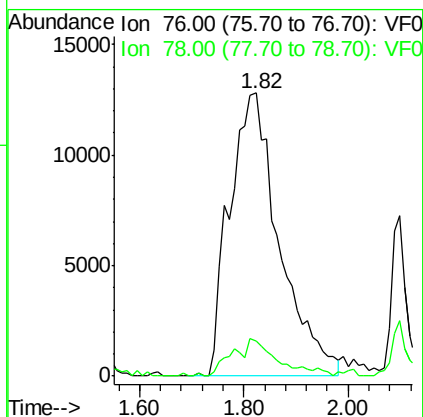
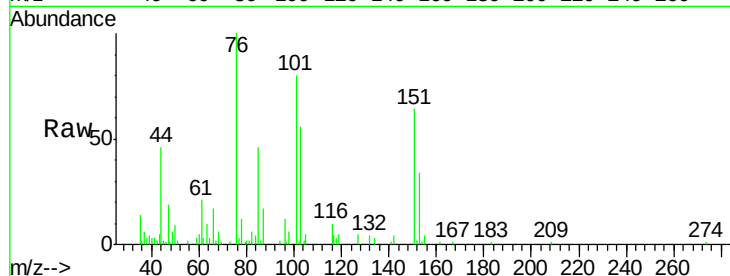
78 12.4 9.6 14.4

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#18

Methyl Acetate

Concen: 19.103 ug/l

RT: 2.35 min Scan# 174

Delta R.T. 0.01 min

Lab File: VF061562.D

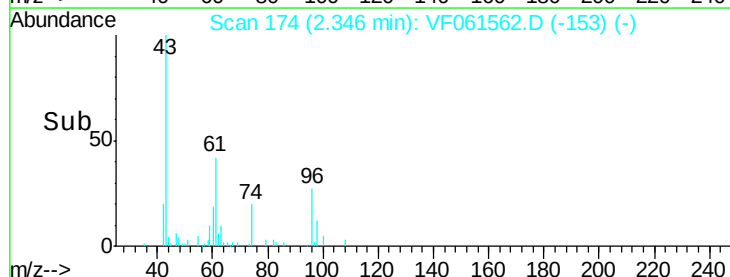
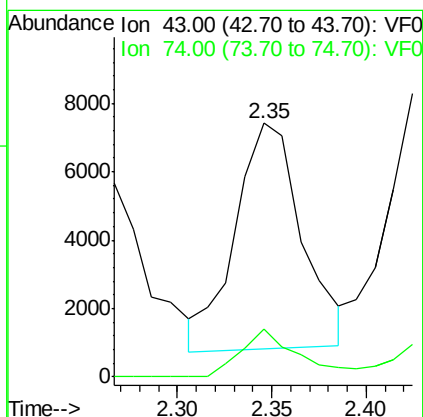
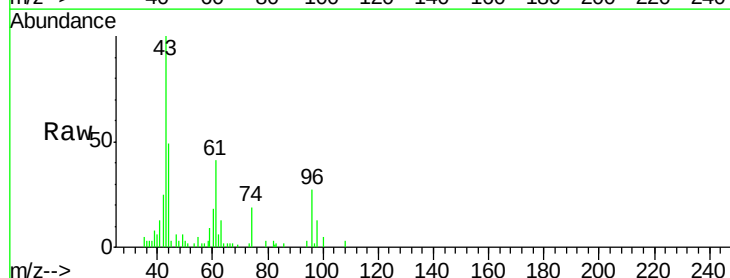
Acq: 8 Feb 2019 17:19

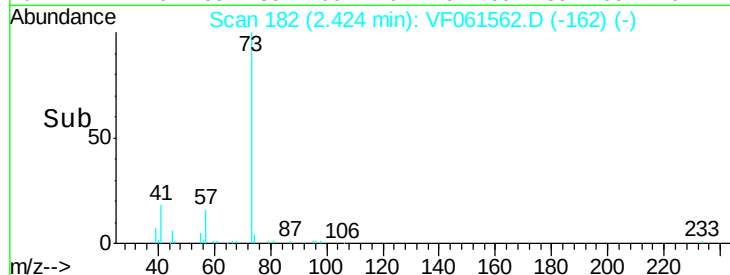
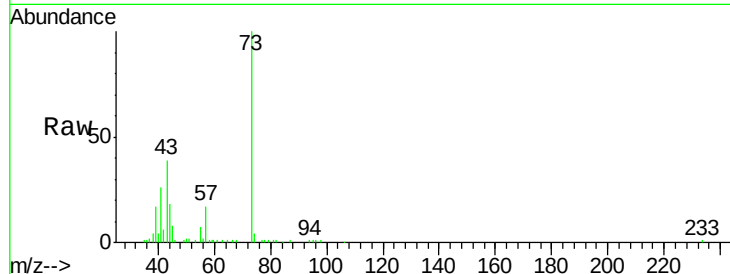
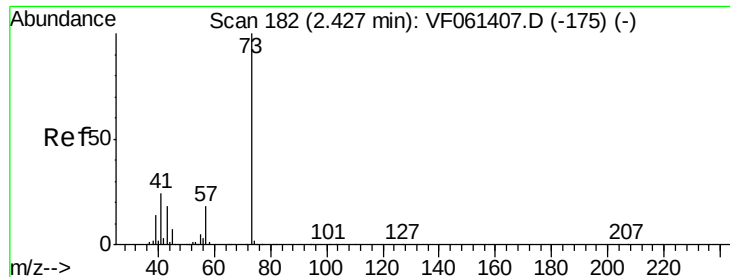
Tgt Ion: 43 Resp: 16134

Ion Ratio Lower Upper

43 100

74 18.8 13.4 20.0





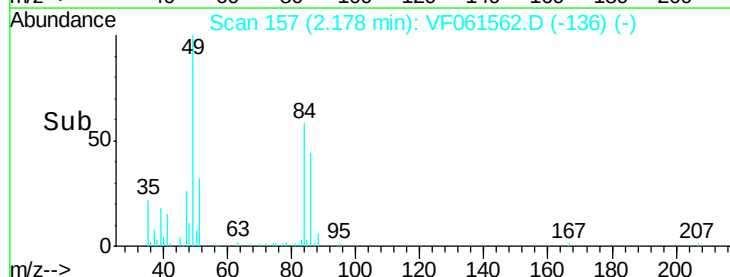
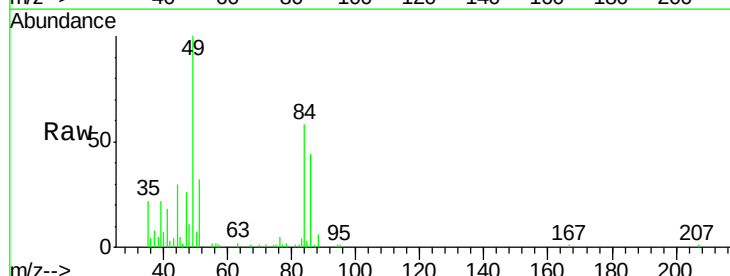
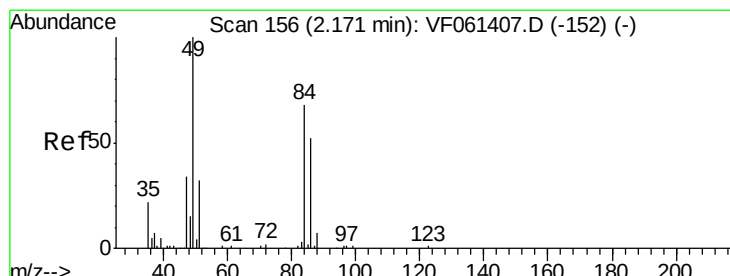
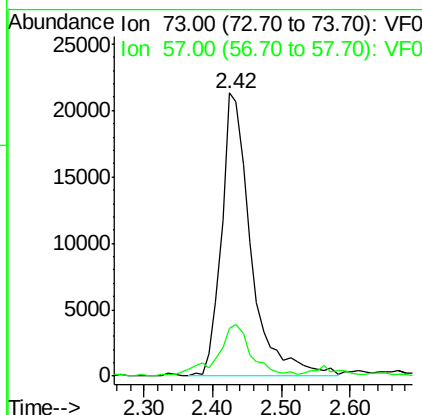
#19
Methyl tert-butyl Ether
Concen: 18.481 ug/l
RT: 2.42 min Scan# 182
Delta R.T. -0.00 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

Tot Ion	Ratio	Lower	Upper
73	100		
57	16.9	14.8	22.2

Instrument :
MSVOA_F
ClientSampleId :
VF0208SBS01

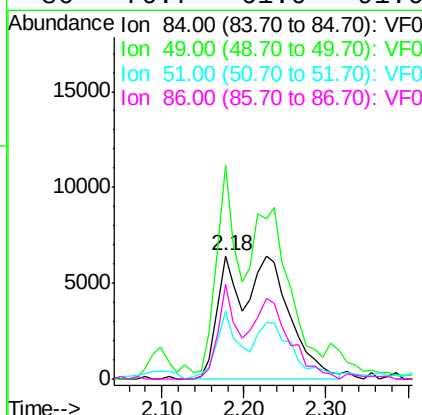
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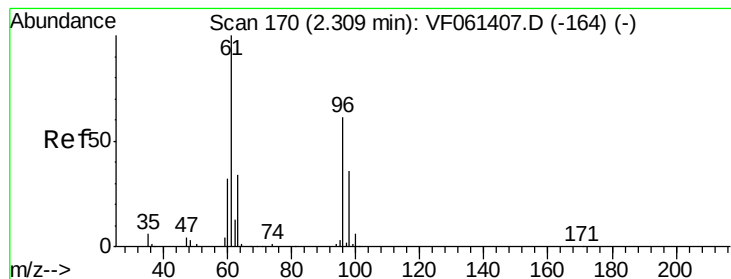
MMDadoda
2/12/2019 2:32:07 AM



#20
Methylene Chloride
Concen: 21.824 ug/l m
RT: 2.18 min Scan# 157
Delta R.T. 0.01 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

Tgt Ion	Ratio	Lower	Upper
84	100		
49	173.6	120.0	180.0
51	55.4	38.6	58.0
86	76.7	61.0	91.6





#21

trans-1,2-Dichloroethene

Concen: 18.158 ug/l

RT: 2.31 min Scan# 170

Delta R.T. -0.00 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

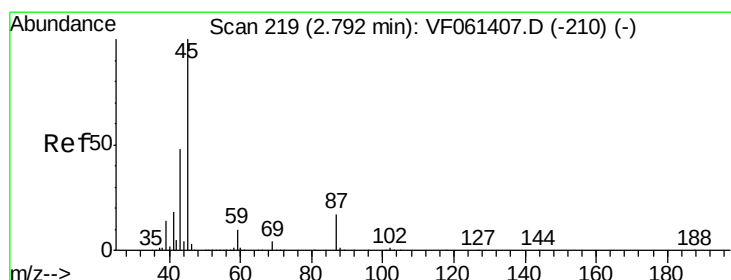
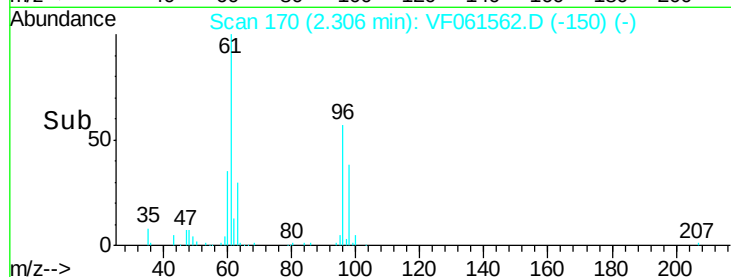
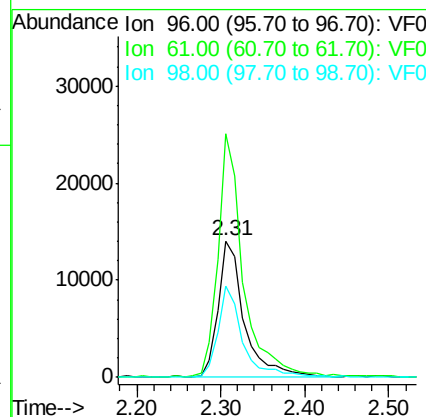
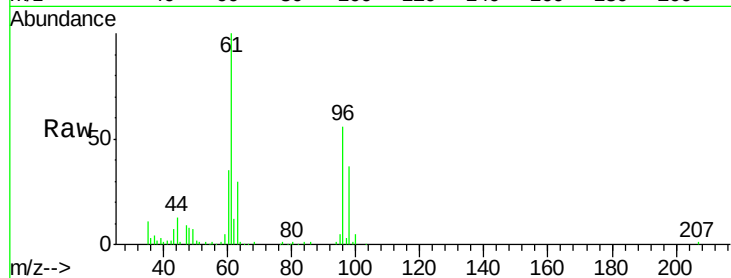
ClientSampleId :

VF0208SBSD01

Tot Ion:	96	Resp:	30553
Ion	Ratio	Lower	Upper
96	100		
61	178.5	131.8	197.8
98	66.5	47.4	71.0

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2/12/2019 2:32:07 AM



#22

Diisopropyl ether

Concen: 18.991 ug/l

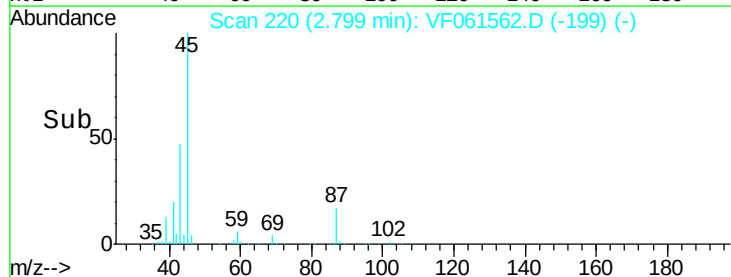
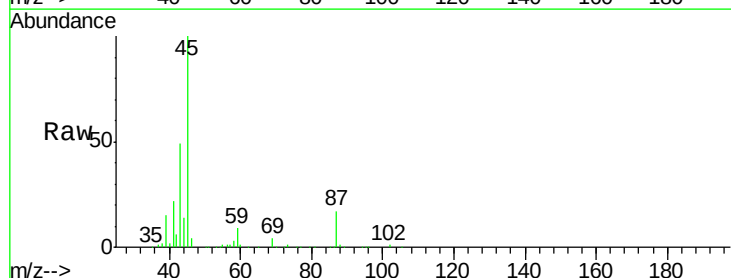
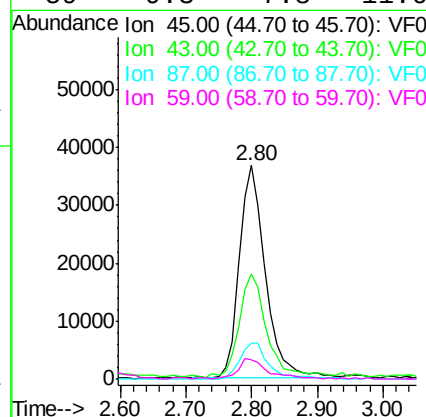
RT: 2.80 min Scan# 220

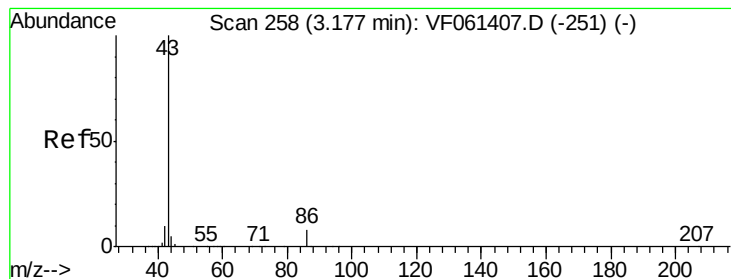
Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Tgt Ion:	45	Resp:	103354
Ion	Ratio	Lower	Upper
45	100		
43	49.2	39.0	58.6
87	17.1	13.9	20.9
59	9.3	7.8	11.6





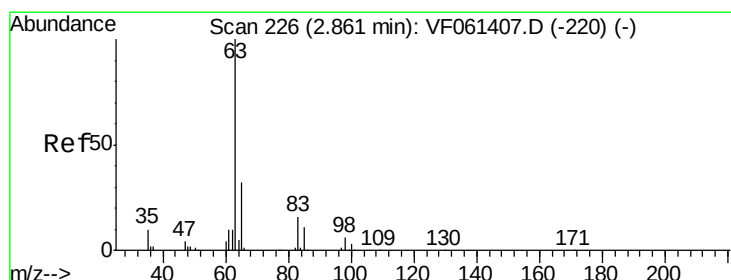
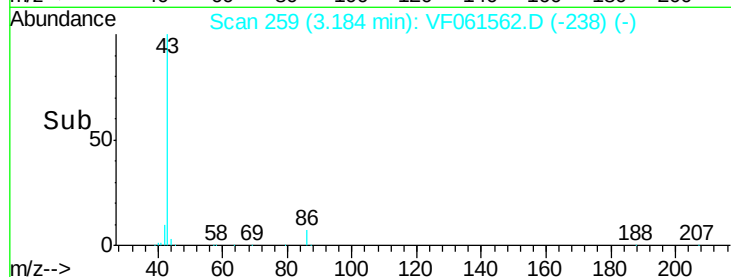
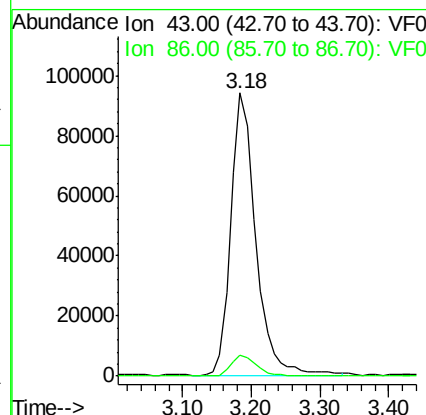
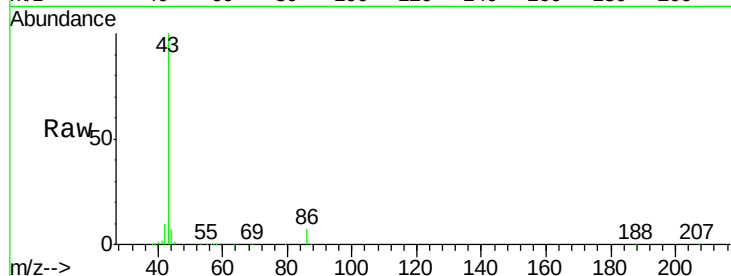
#23
 Vinyl Acetate
 Concen: 100.691 ug/l
 RT: 3.18 min Scan# 259
 Delta R.T. 0.01 min
 Lab File: VF061562.D
 Acq: 8 Feb 2019 17:19

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0208SBSD01

Tot Ion	43	Resp	236406
Ion Ratio	100	Lower	Upper
43	100		
86	7.2	6.2	9.4

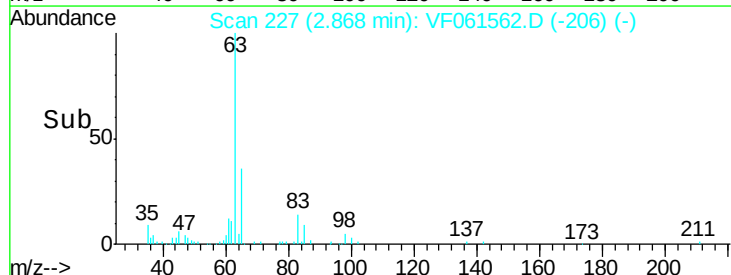
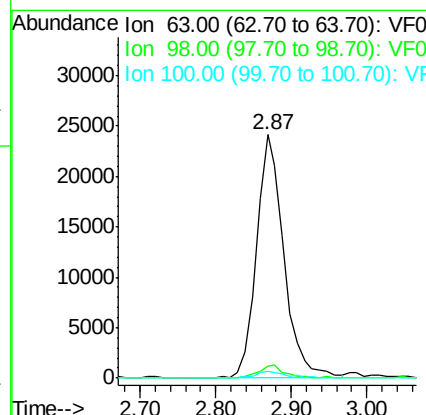
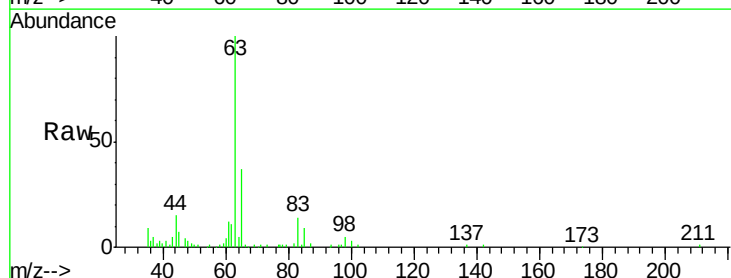
Manual Integrations
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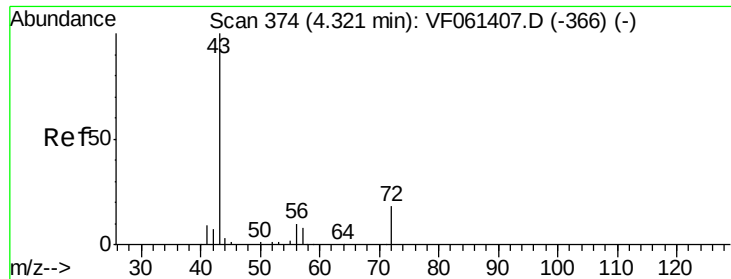
MMDadoda
 2/12/2019 2:32:07 AM



#24
 1,1-Dichloroethane
 Concen: 17.909 ug/l
 RT: 2.87 min Scan# 227
 Delta R.T. 0.01 min
 Lab File: VF061562.D
 Acq: 8 Feb 2019 17:19

Tgt Ion	63	Resp	61173
Ion Ratio	100	Lower	Upper
63	100		
98	4.9	2.9	8.8
100	3.0	1.6	4.8





#25

2-Butanone

Concen: 103.973 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.02 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBSD01

Tot Ion: 43 Resp: 73636

Ion Ratio Lower Upper

43 100

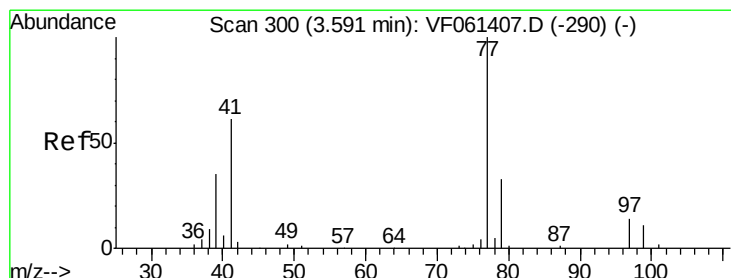
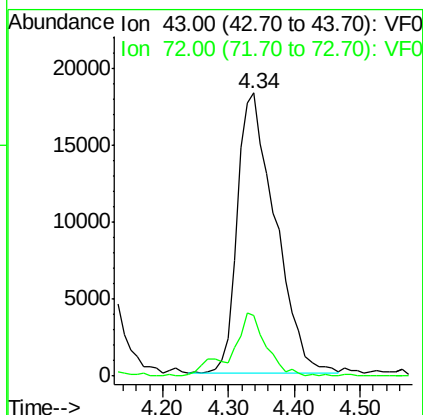
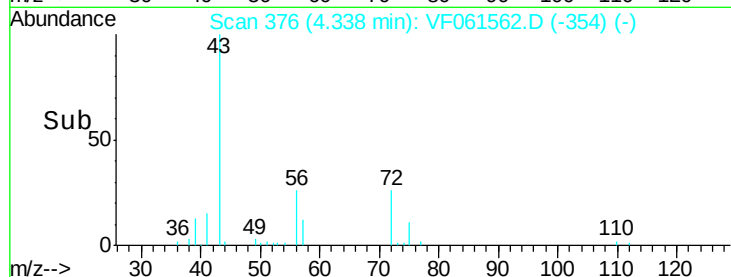
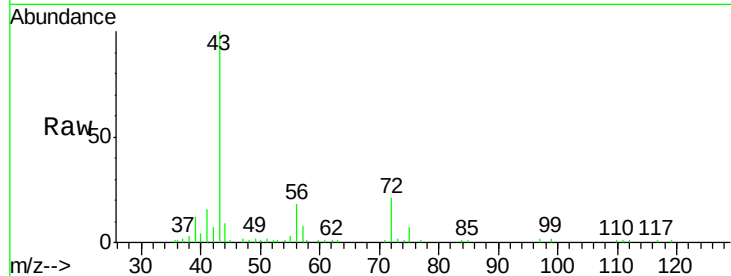
72 21.3 15.8 23.6

Manual Integrations

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MMDadoda

2/12/2019 2:32:07 AM



#26

2,2-Dichloropropane

Concen: 19.621 ug/l

RT: 3.60 min Scan# 301

Delta R.T. 0.01 min

Lab File: VF061562.D

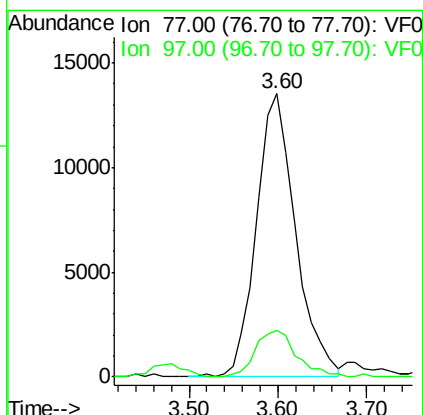
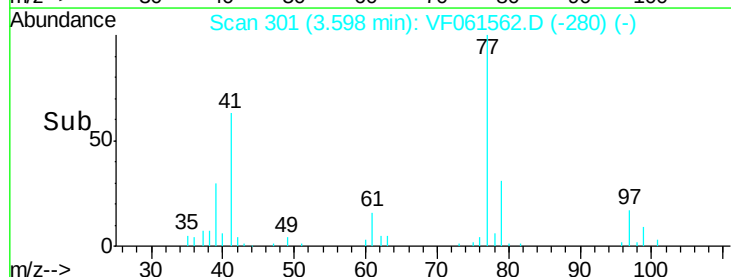
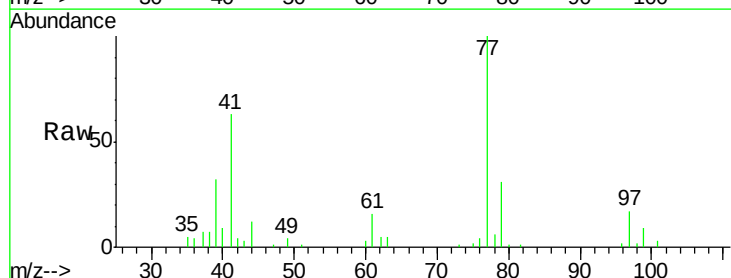
Acq: 8 Feb 2019 17:19

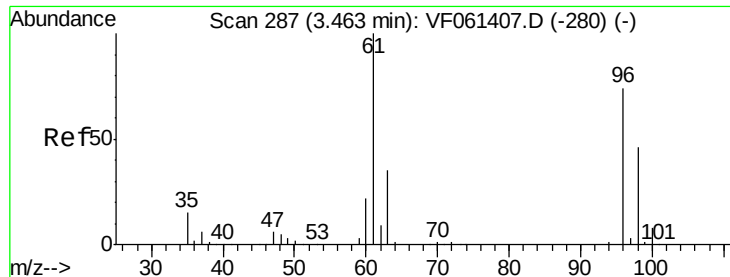
Tgt Ion: 77 Resp: 41176

Ion Ratio Lower Upper

77 100

97 16.5 8.5 25.5





#27

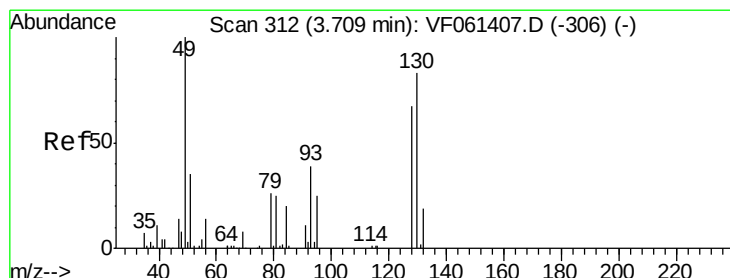
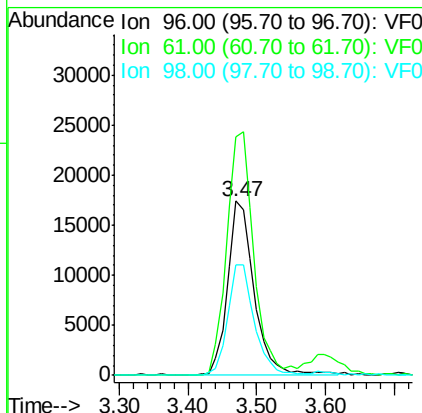
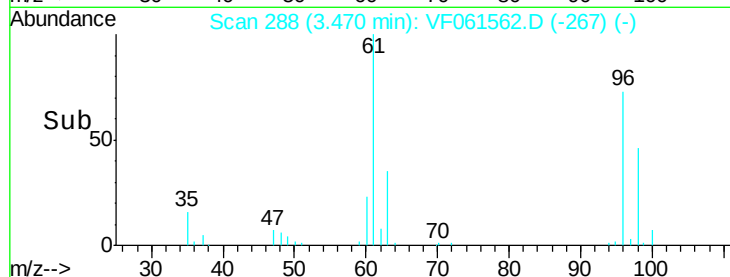
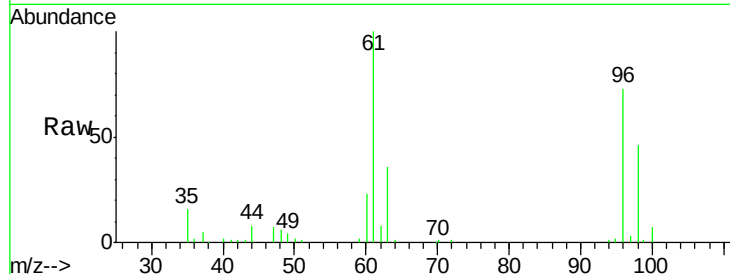
cis-1,2-Dichloroethene
Concen: 18.861 ug/l
RT: 3.47 min Scan# 288
Delta R.T. 0.01 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

Instrument :
MSVOA_F
ClientSampleId :
VF0208SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	46846		
61	136.9	0.0	270.2	
98	63.4	0.0	124.0	

Manual Integrations
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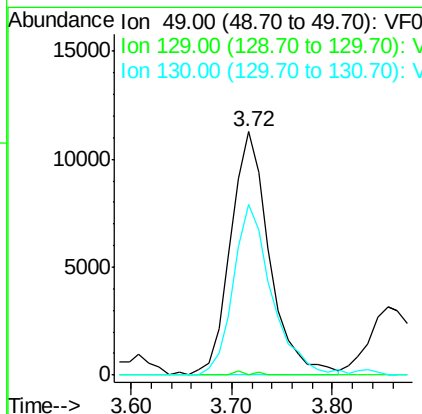
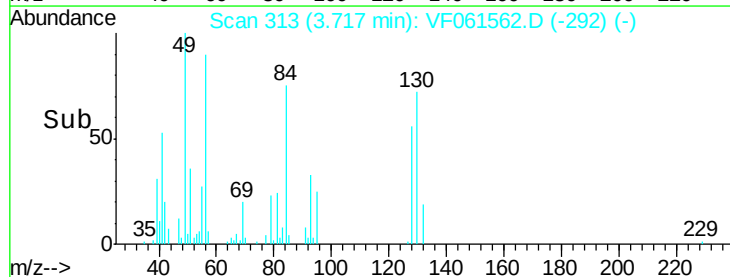
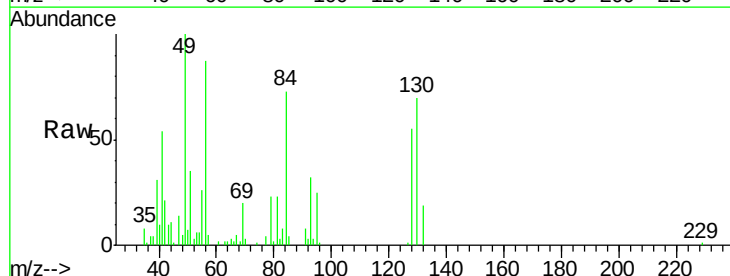
MMDadoda
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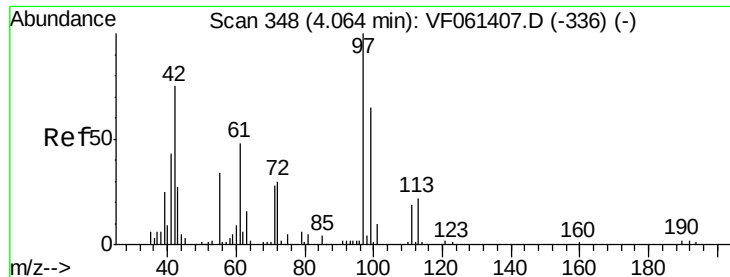


#28

Bromochloromethane
Concen: 19.701 ug/l
RT: 3.72 min Scan# 313
Delta R.T. 0.01 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	30248		
129	0.0	0.0	0.0	
130	69.9	65.4	98.2	





#29

Tetrahydrofuran

Concen: 91.355 ug/l

RT: 4.07 min Scan# 349

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

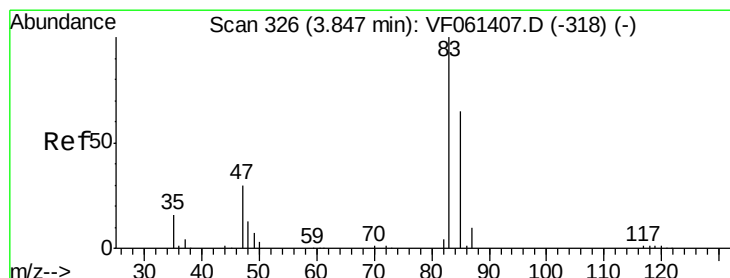
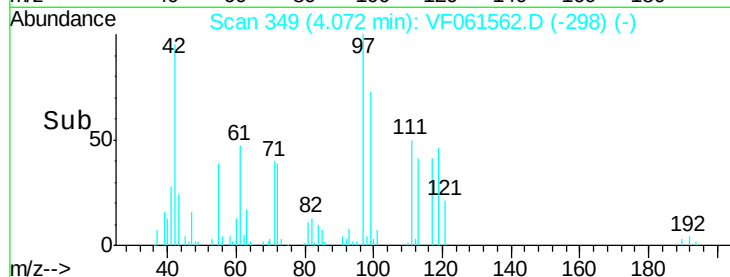
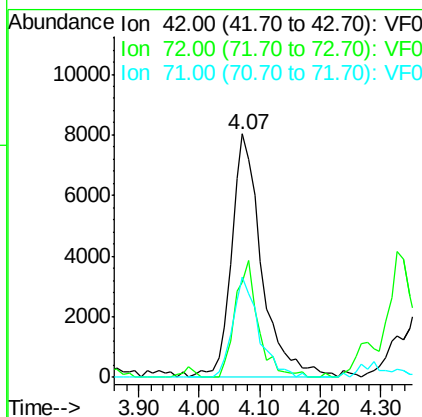
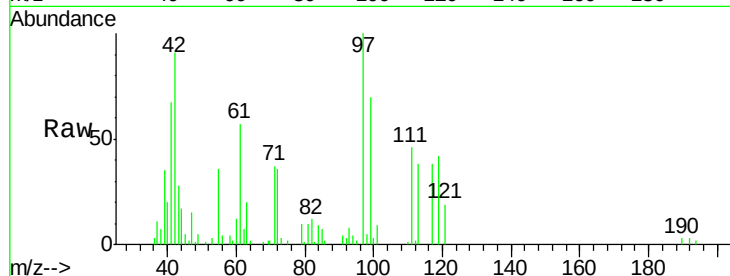
ClientSampleId :

VF0208SBSD01

Tot Ion:	42	Resp:	27859
Ion	Ratio	Lower	Upper
42	100		
72	36.7	28.9	43.3
71	35.2	29.6	44.4

Manual Integrations
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#30

Chloroform

Concen: 19.278 ug/l

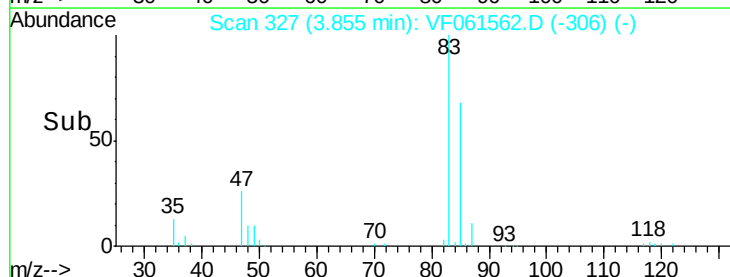
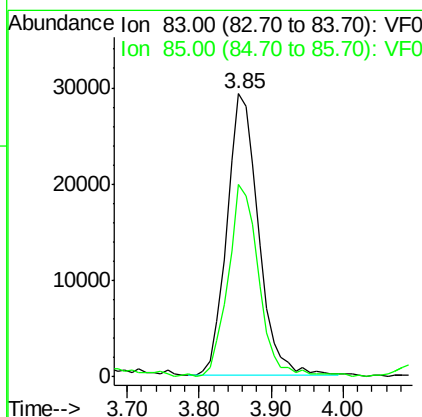
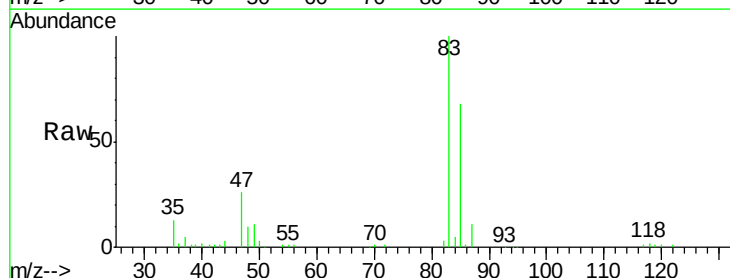
RT: 3.85 min Scan# 327

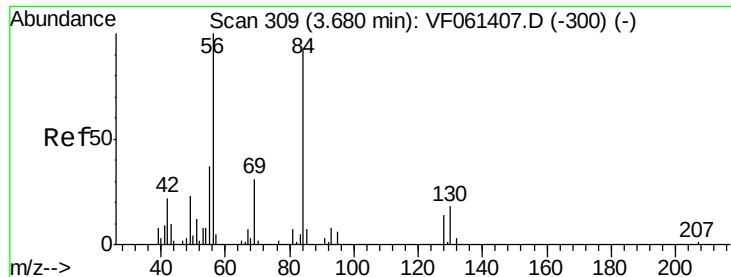
Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Tgt Ion:	83	Resp:	88864
Ion	Ratio	Lower	Upper
83	100		
85	68.0	52.7	79.1





#31

Cyclohexane

Concen: 18.077 ug/l

RT: 3.70 min Scan# 311

Delta R.T. 0.02 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

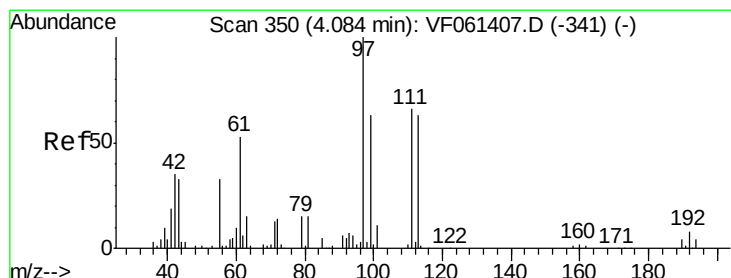
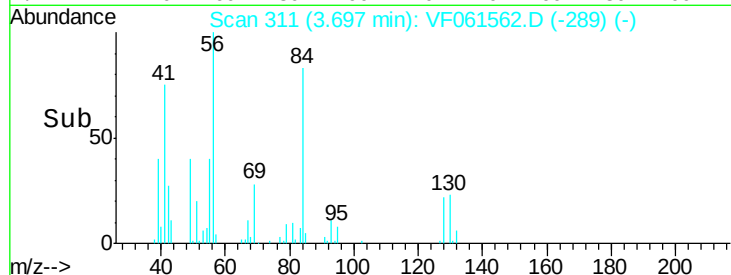
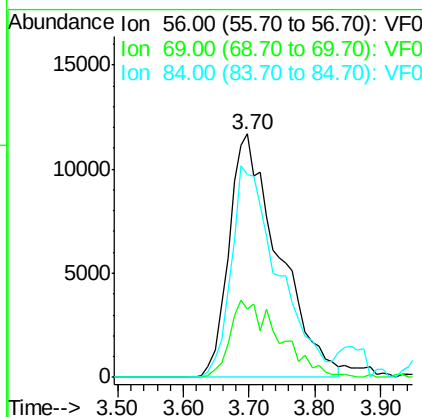
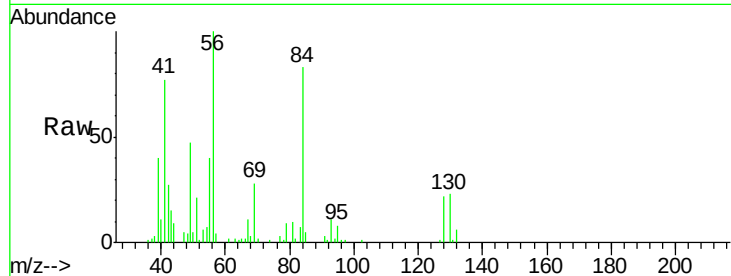
ClientSampleId :

VF0208SBSD01

Tot Ion:	56	Resp:	61678
Ion	Ratio	Lower	Upper
56	100		
69	28.3	24.6	36.8
84	83.2	74.2	111.2

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 20.231 ug/l

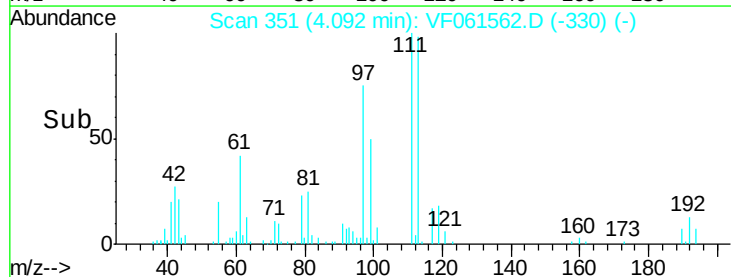
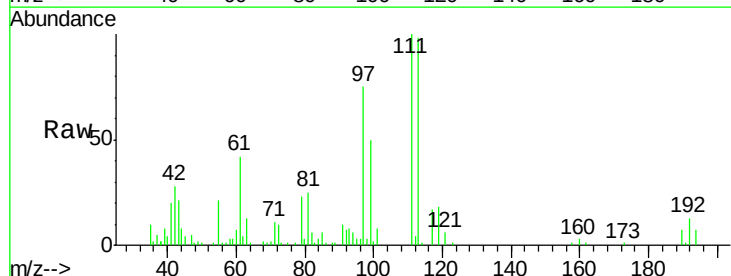
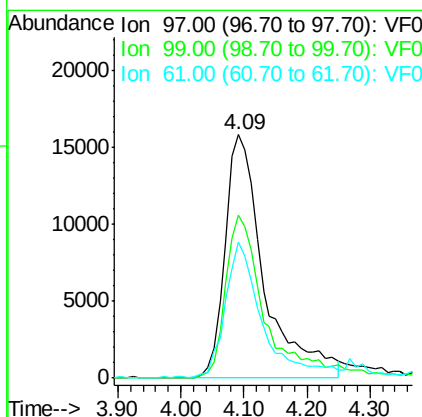
RT: 4.09 min Scan# 351

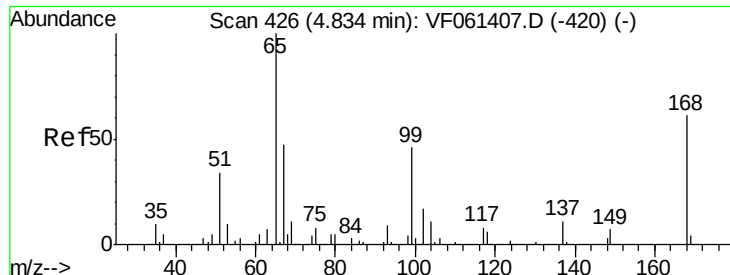
Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Tgt Ion:	97	Resp:	68379
Ion	Ratio	Lower	Upper
97	100		
99	66.9	50.1	75.1
61	55.8	43.1	64.7





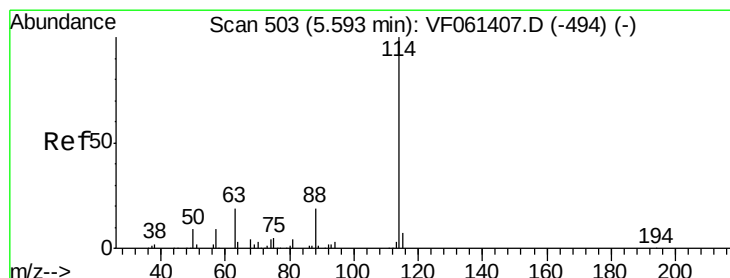
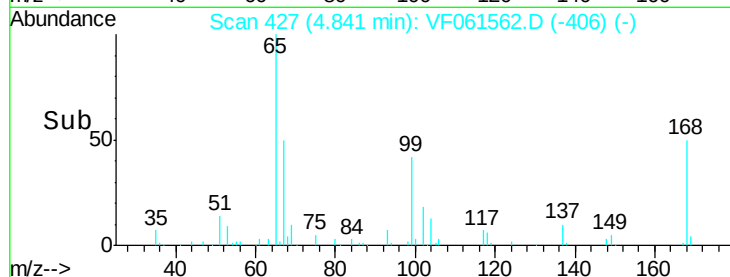
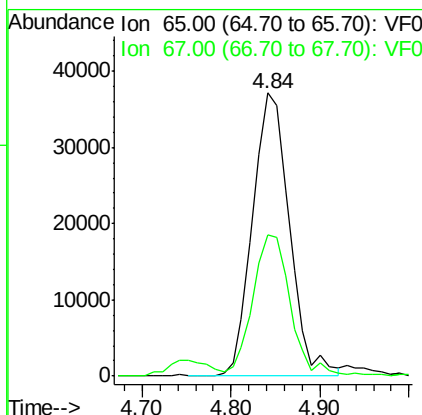
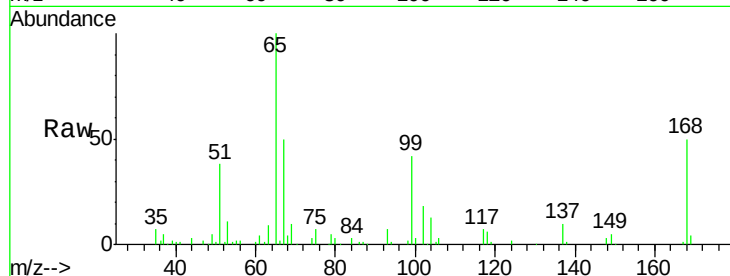
#33
 1,2-Dichloroethane-d4
 Concen: 50.161 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. 0.01 min
 Lab File: VF061562.D
 Acq: 8 Feb 2019 17:19

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0208SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	106487		
67	50.0	0.0	99.8	

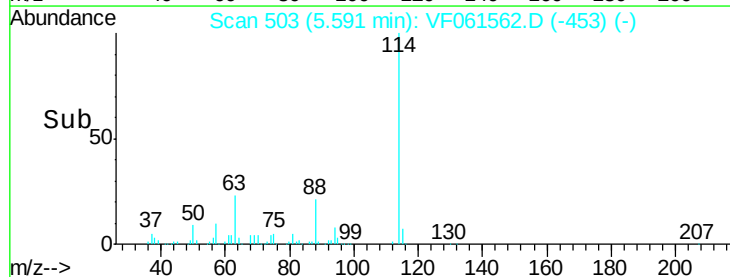
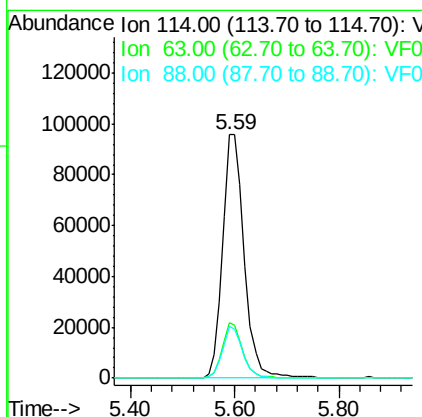
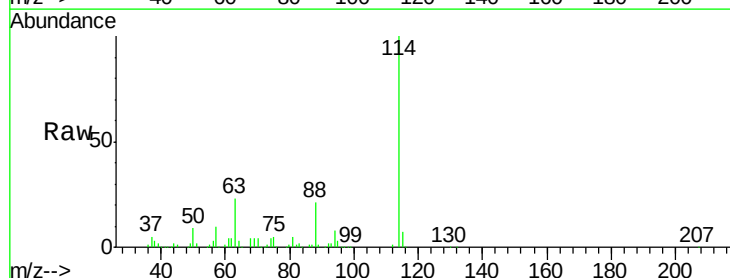
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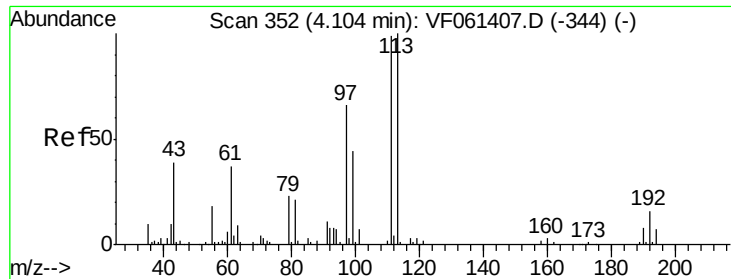
MMDadoda
 2/12/2019 2:32:07 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. -0.00 min
 Lab File: VF061562.D
 Acq: 8 Feb 2019 17:19

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	274080		
63	22.8	0.0	39.0	
88	21.0	0.0	37.4	





#35

Dibromofluoromethane

Concen: 53.906 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

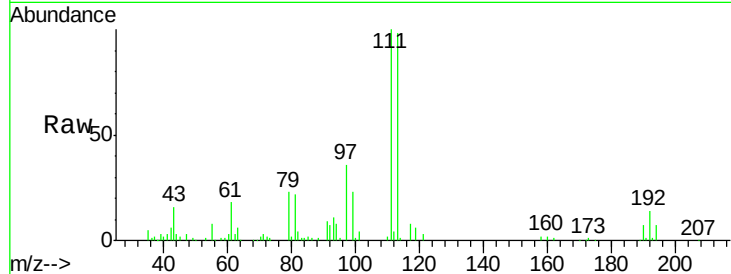
ClientSampleId :

VF0208SBSD01

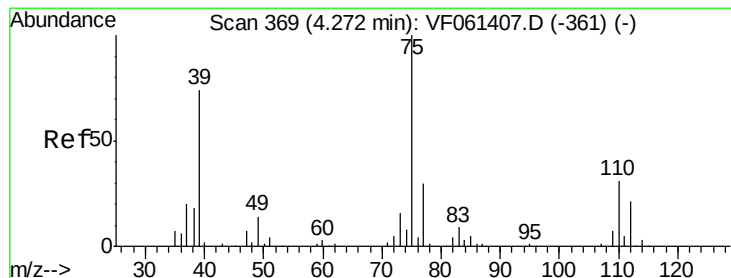
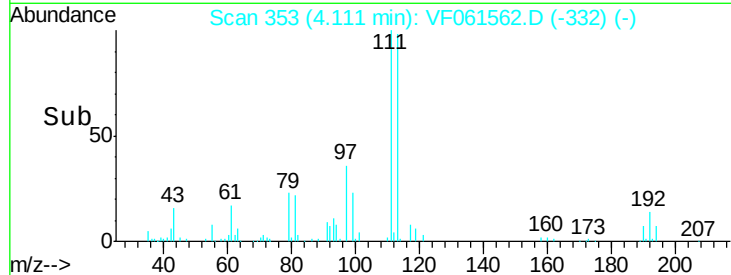
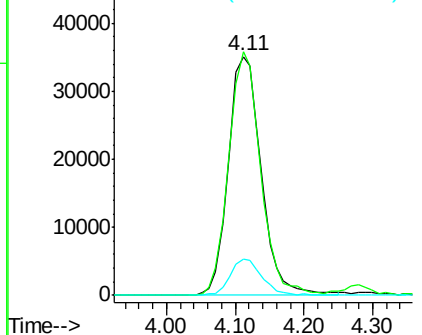
Tot Ion:	113	Resp:	116583
Ion Ratio	Lower	Upper	
113	100		
111	101.9	79.4	119.0
192	15.0	12.4	18.6

Manual Integrations
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Abundance Ion 113.00 (112.70 to 113.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 21.095 ug/l

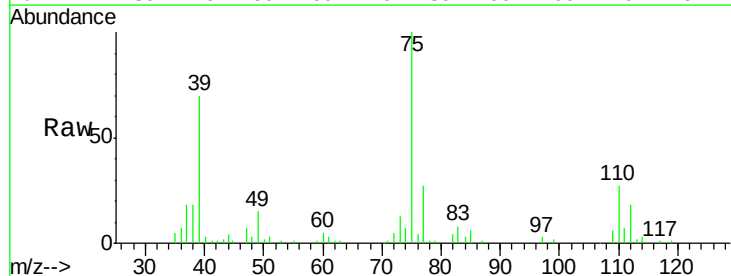
RT: 4.28 min Scan# 370

Delta R.T. 0.01 min

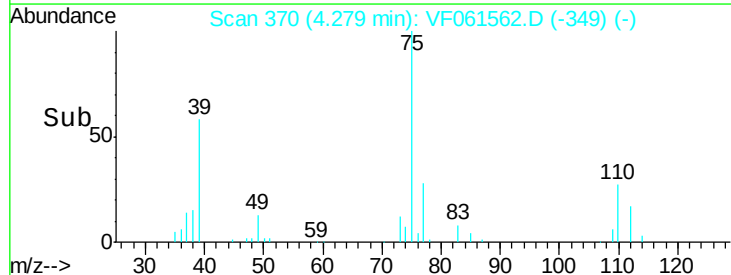
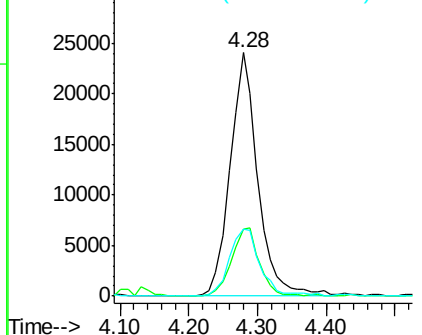
Lab File: VF061562.D

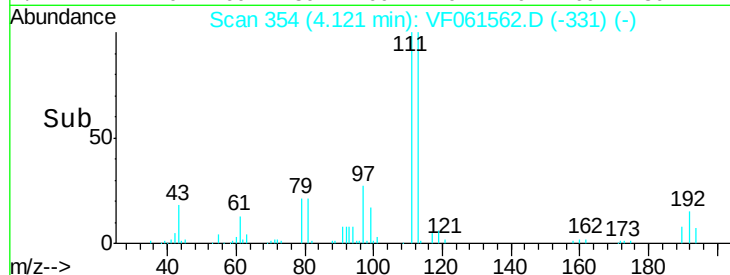
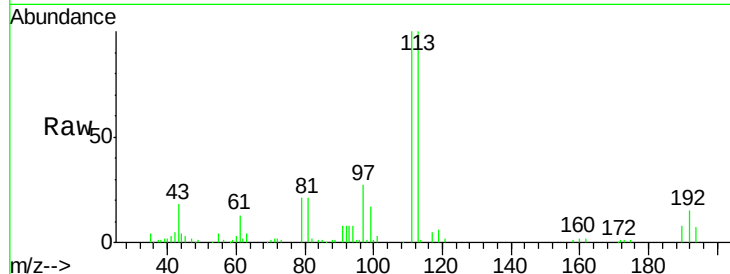
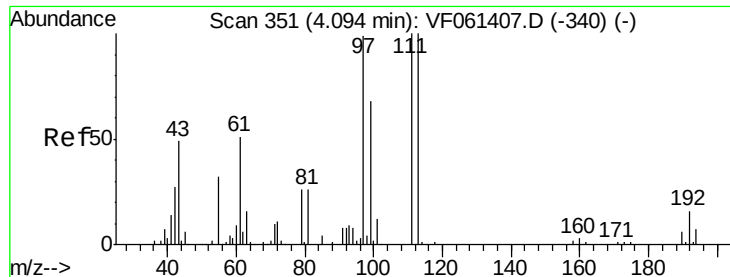
Acq: 8 Feb 2019 17:19

Tgt Ion:	75	Resp:	67036
Ion Ratio	Lower	Upper	
75	100		
110	27.3	15.8	47.3
77	27.5	24.0	36.0



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 110.00 (109.70 to 110.70): V
Ion 77.00 (76.70 to 77.70): VF0





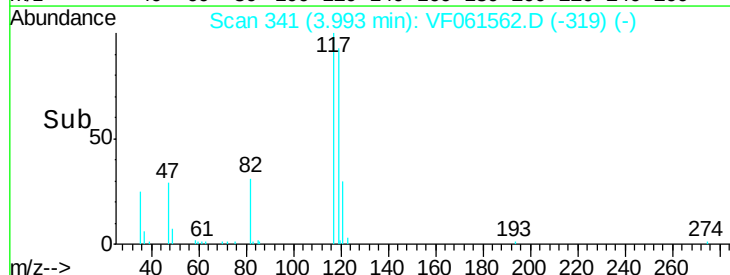
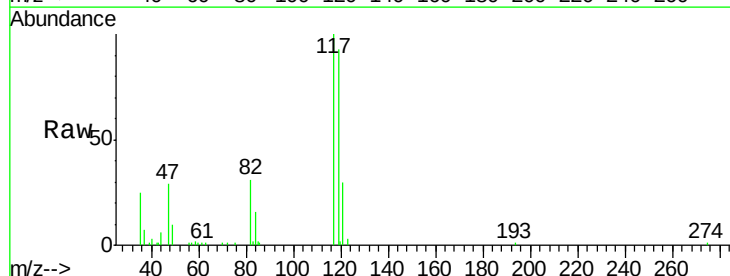
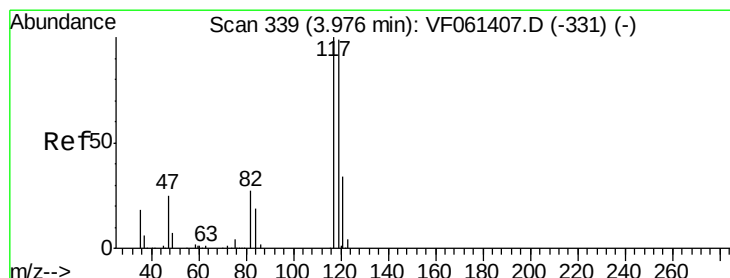
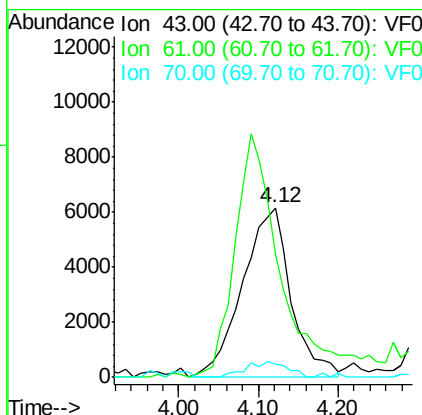
#37
Ethyl Acetate
Concen: 20.510 ug/l
RT: 4.12 min Scan# 354
Delta R.T. 0.03 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

Tot Ion	Ratio	Lower	Upper
43	100		
61	73.0	81.7	122.5#
70	8.0	6.2	9.2

Instrument :
MSVOA_F
ClientSampleId :
VF0208SBS01

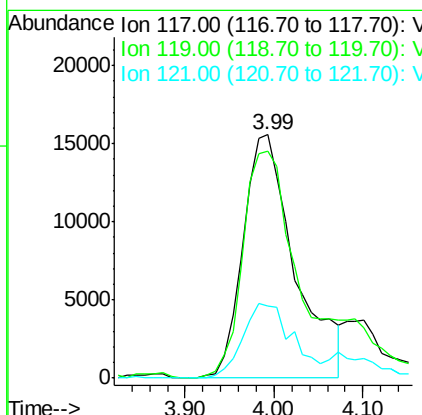
Manual Integrations
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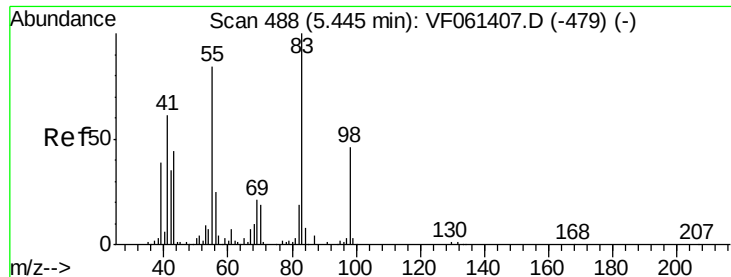
MMDadoda
2/12/2019 2:32:07 AM



#38
Carbon Tetrachloride
Concen: 22.659 ug/l
RT: 3.99 min Scan# 341
Delta R.T. 0.02 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.4	79.0	118.6
121	29.9	27.0	40.6





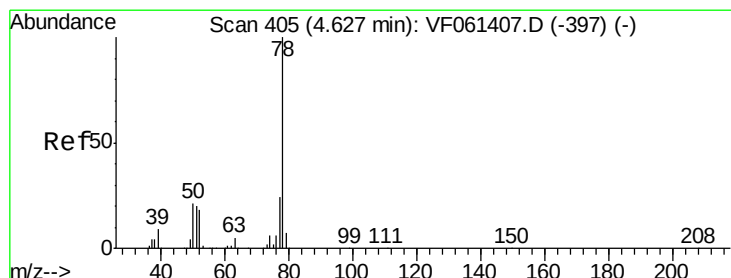
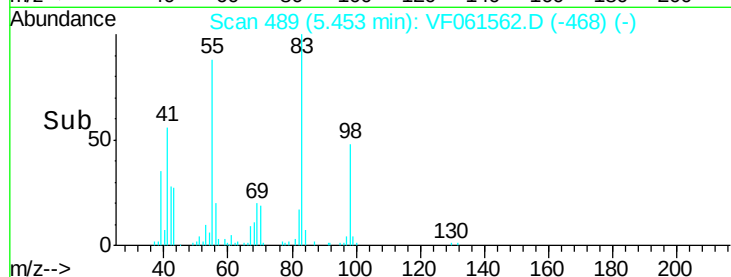
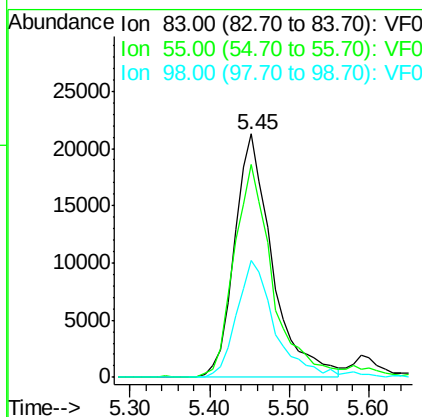
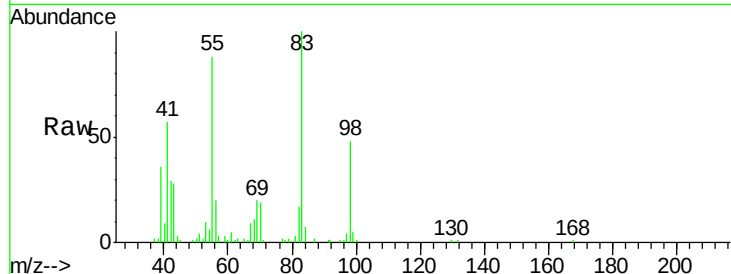
#39
Methylvlcyclohexane
Concen: 20.319 ug/l
RT: 5.45 min Scan# 489
Delta R.T. 0.01 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

Instrument :
MSVOA_F
ClientSampleId :
VF0208SBSD01

Tot Ion	83	Resp	69975
Ion Ratio	Lower	Upper	
83	100		
55	87.6	67.4	101.2
98	47.9	36.7	55.1

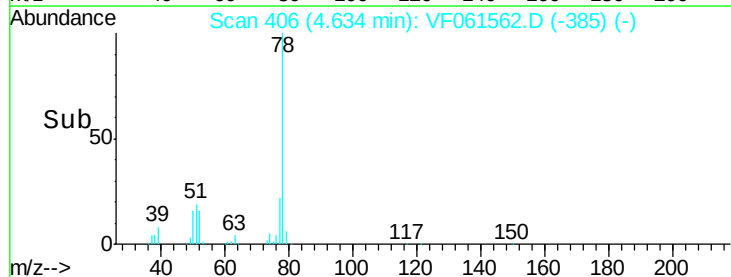
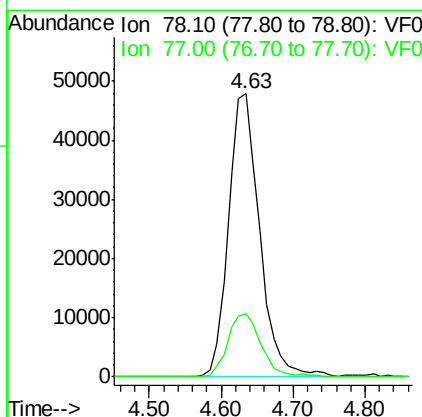
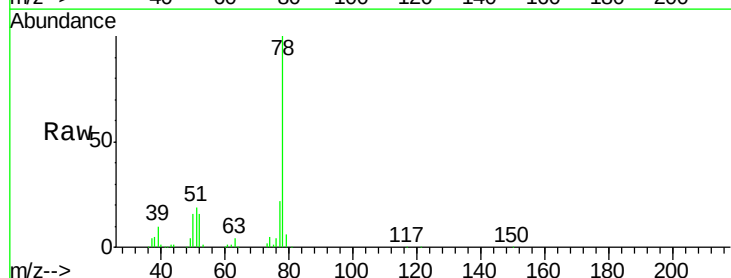
Manual Integrations
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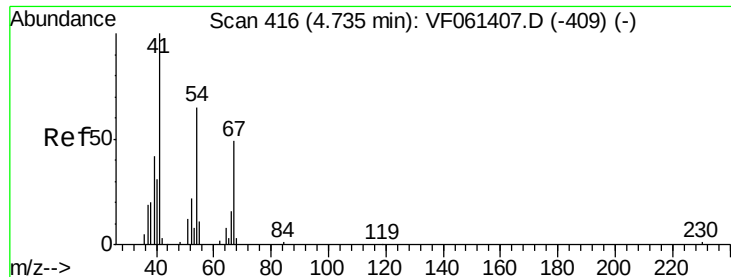
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#40
Benzene
Concen: 20.334 ug/l
RT: 4.63 min Scan# 406
Delta R.T. 0.01 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

Tgt Ion	78	Resp	143789
Ion Ratio	Lower	Upper	
78	100		
77	22.4	19.0	28.6





#41

Methacrylonitrile

Concen: 24.732 ug/l

RT: 4.74 min Scan# 417

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

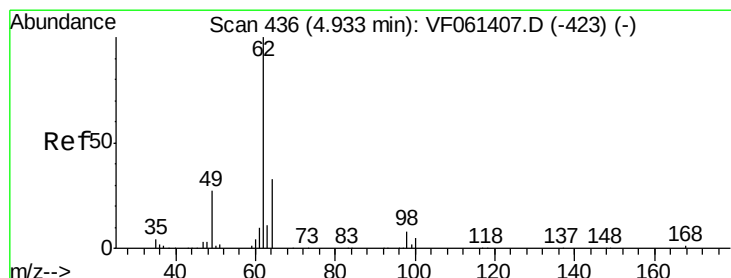
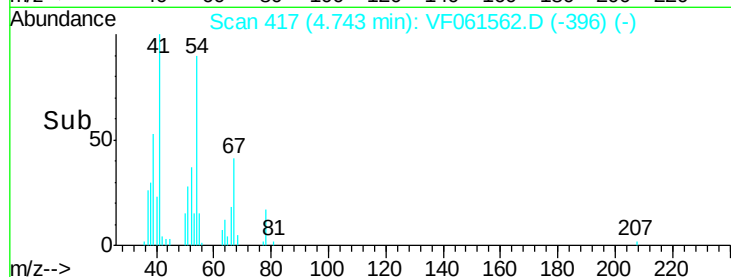
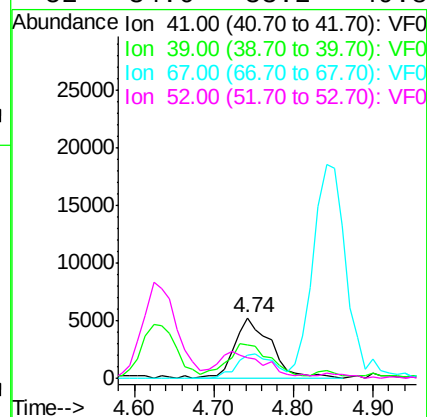
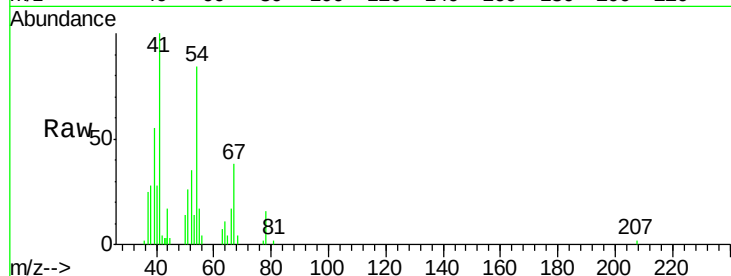
ClientSampleId :

VF0208SBSD01

Tot Ion:	41	Resp:	16717
Ion Ratio	Lower	Upper	
41	100		
39	55.5	43.1	64.7
67	38.2	38.8	58.2#
52	34.6	33.2	49.8

Manual Integrations
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#42

1,2-Dichloroethane

Concen: 22.188 ug/l

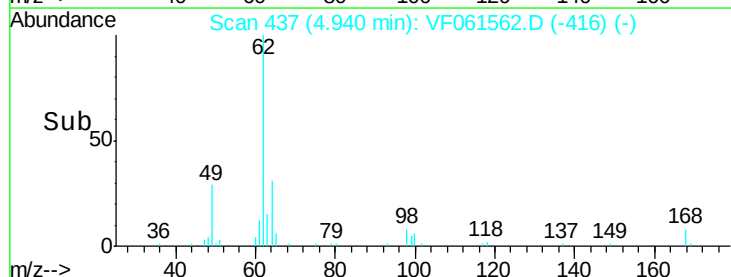
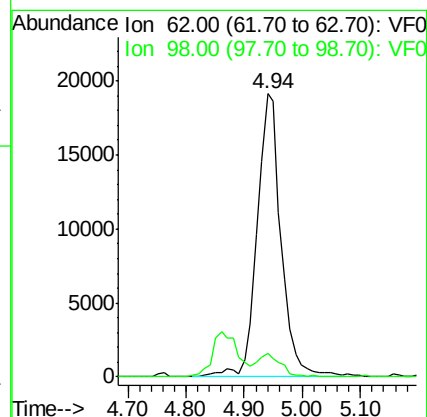
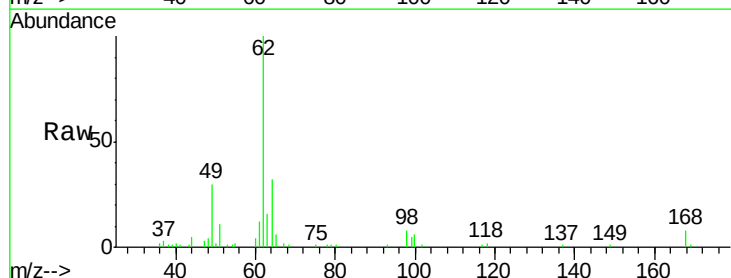
RT: 4.94 min Scan# 437

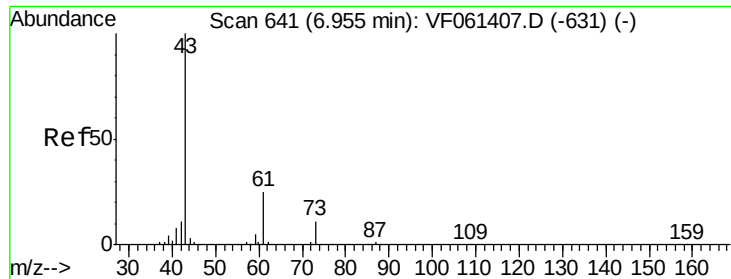
Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Tgt Ion:	62	Resp:	55909
Ion Ratio	Lower	Upper	
62	100		
98	8.2	0.0	17.0





#43

Isopropyl Acetate

Concen: 20.139 ug/l

RT: 6.96 min Scan# 642

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

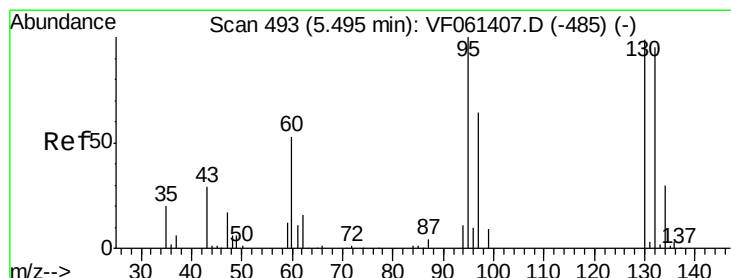
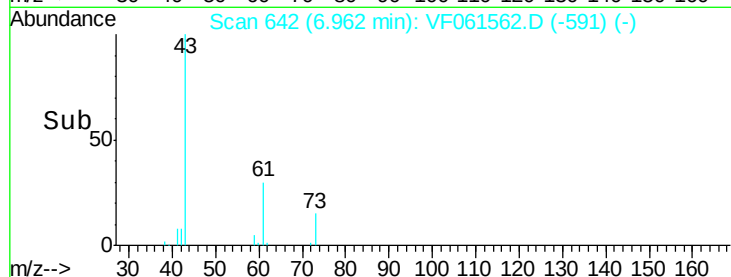
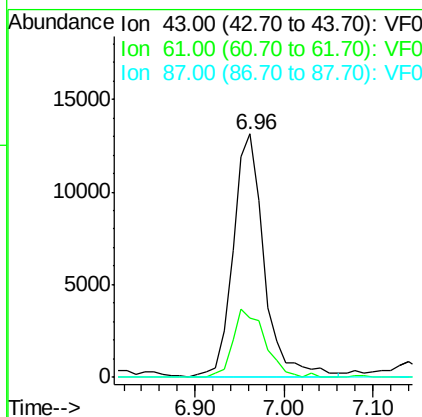
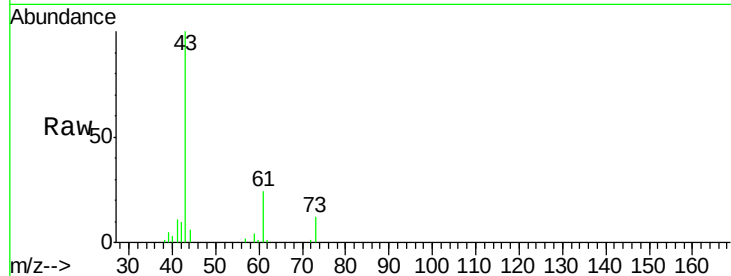
ClientSampleId :

VF0208SBSD01

Tot Ion:	43	Resp:	32107
Ion Ratio	Lower	Upper	
43	100		
61	24.4	20.3	30.5
87	0.0	0.5	0.7#

Manual Integrations
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2/12/2019 2:32:07 AM



#44

Trichloroethene

Concen: 21.471 ug/l

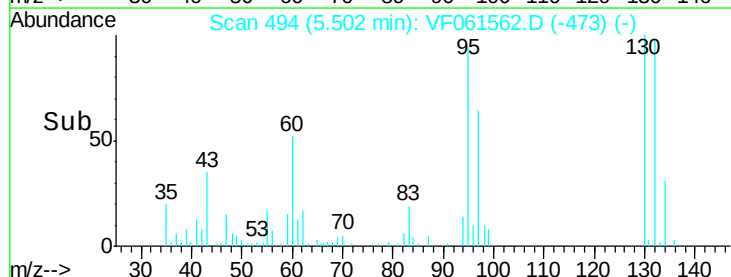
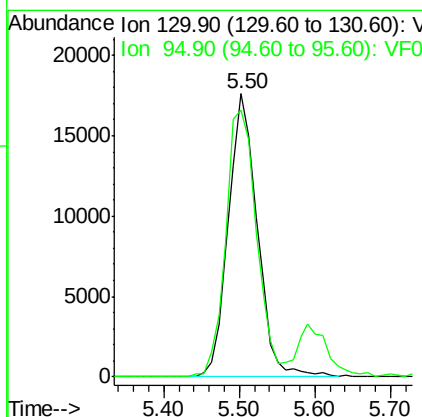
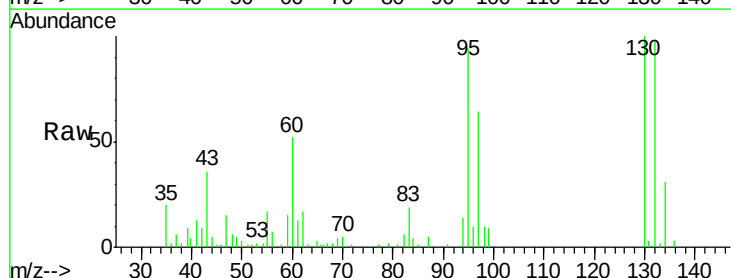
RT: 5.50 min Scan# 494

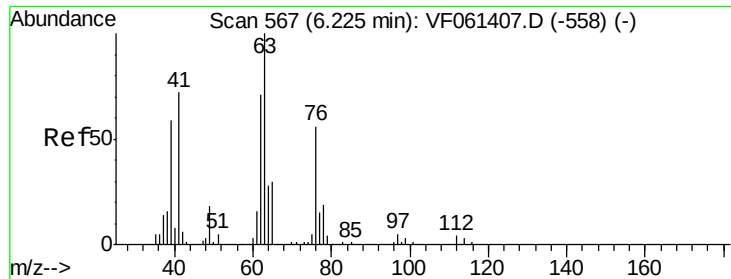
Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Tgt Ion:	130	Resp:	46575
Ion Ratio	Lower	Upper	
130	100		
95	94.4	0.0	202.8





#45

1,2-Dichloropropane

Concen: 20.004 ug/l

RT: 6.23 min Scan# 568

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBSD01

Tot Ion: 63 Resp: 37124

Ion Ratio Lower Upper

63 100

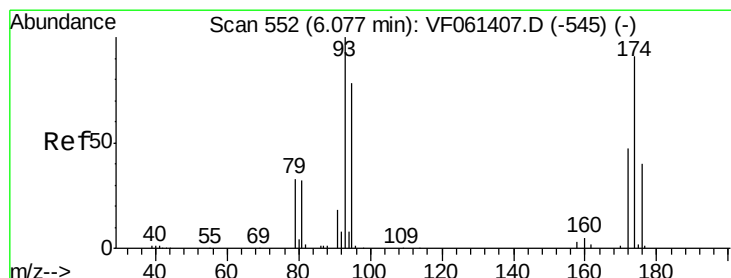
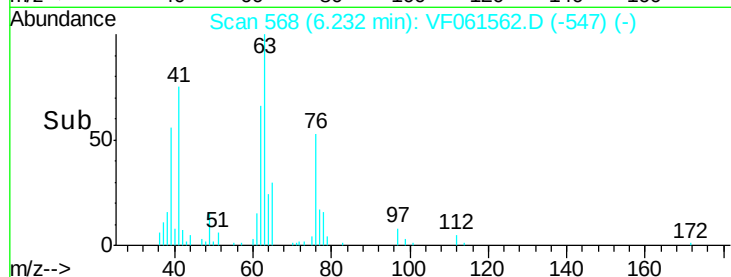
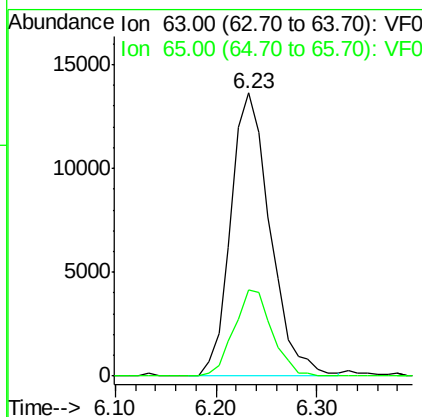
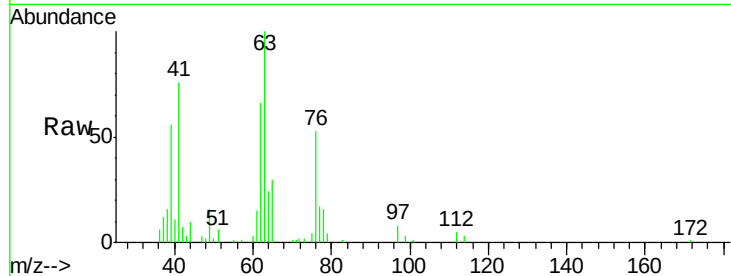
65 30.3 24.4 36.6

Manual Integrations

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MMDadoda

2/12/2019 2:32:07 AM



#46

Dibromomethane

Concen: 20.660 ug/l

RT: 6.08 min Scan# 553

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

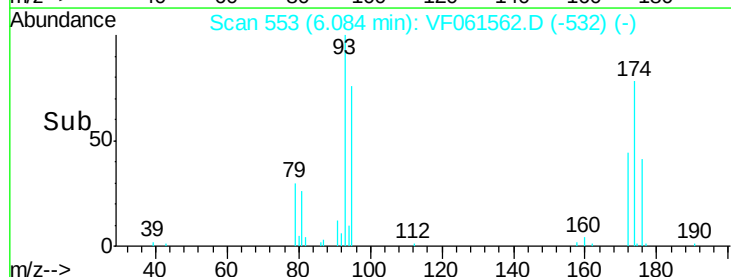
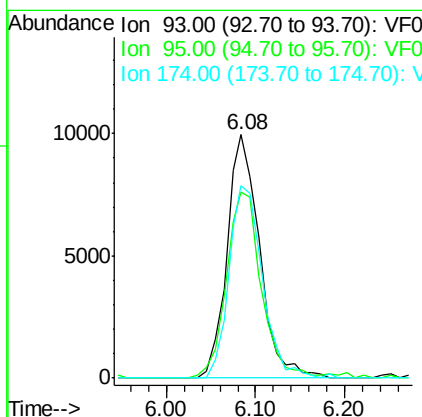
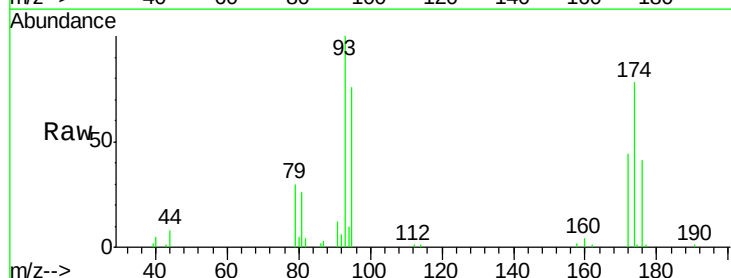
Tgt Ion: 93 Resp: 25495

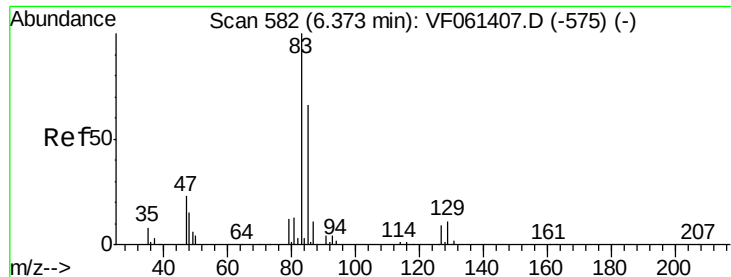
Ion Ratio Lower Upper

93 100

95 76.4 62.1 93.1

174 79.1 74.6 111.8





#47

Bromodichloromethane

Concen: 21.642 ug/l

RT: 6.38 min Scan# 583

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

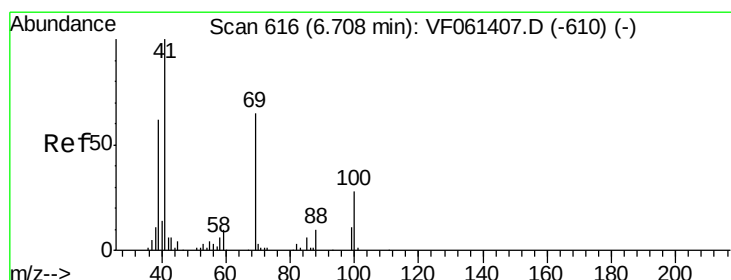
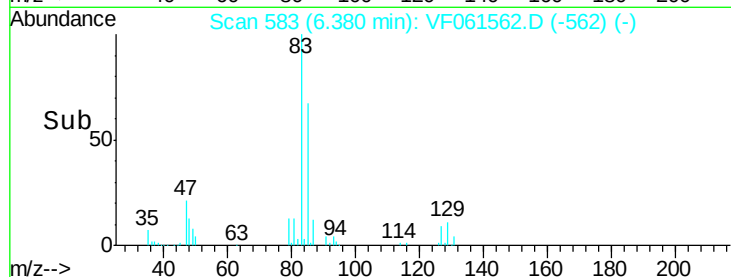
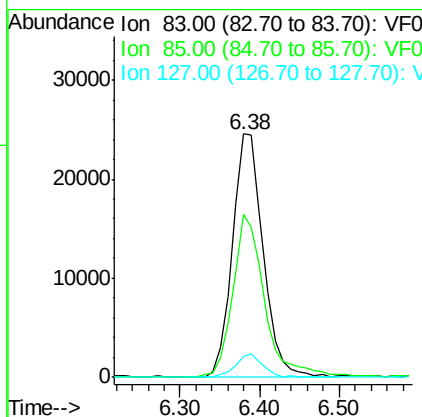
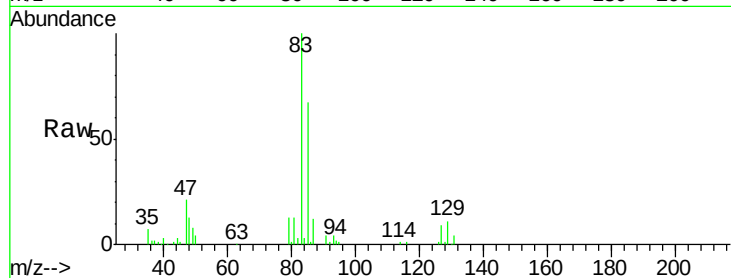
ClientSampleId :

VF0208SBSD01

Tot Ion:	83	Resp:	66079
Ion	Ratio	Lower	Upper
83	100		
85	67.2	53.0	79.4
127	8.6	6.9	10.3

Manual Integrations
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MMDadoda
2/12/2019 2:32:07 AM



#48

Methyl methacrylate

Concen: 20.134 ug/l

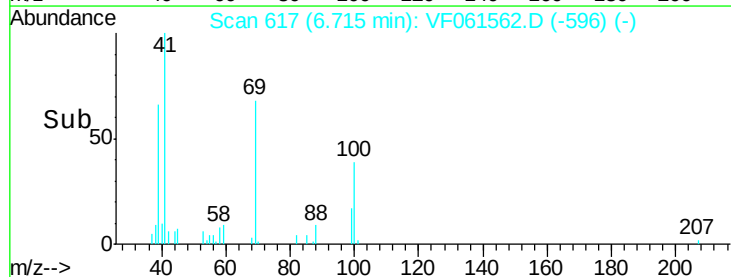
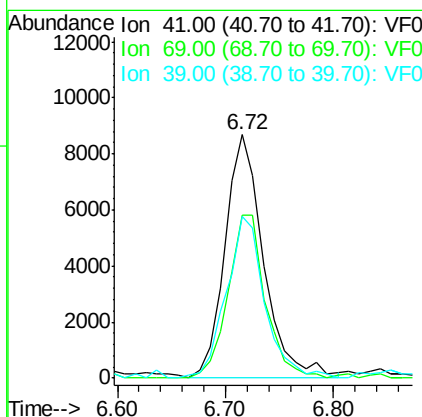
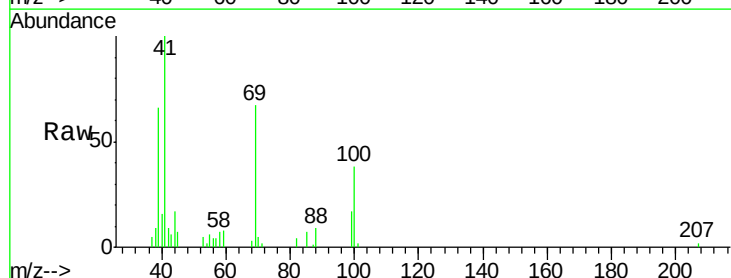
RT: 6.72 min Scan# 617

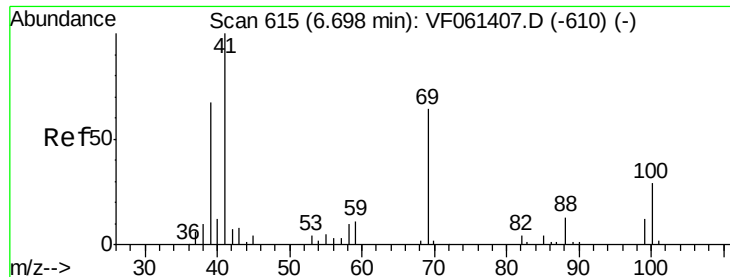
Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Tgt Ion:	41	Resp:	21555
Ion	Ratio	Lower	Upper
41	100		
69	66.8	51.7	77.5
39	66.5	49.2	73.8





#49

1,4-Dioxane

Concen: 363.703 ug/l

RT: 6.71 min Scan# 616

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

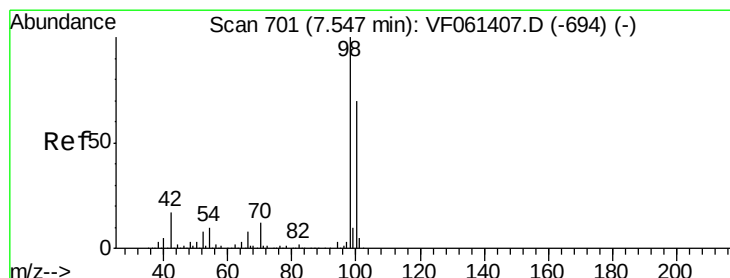
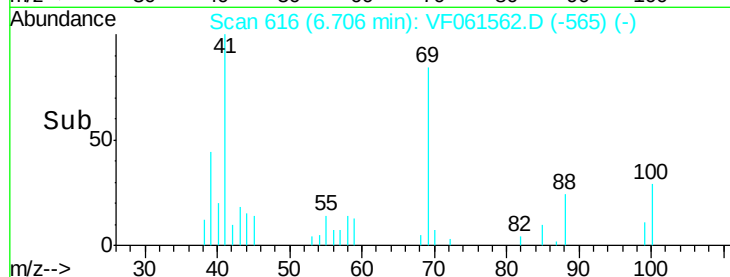
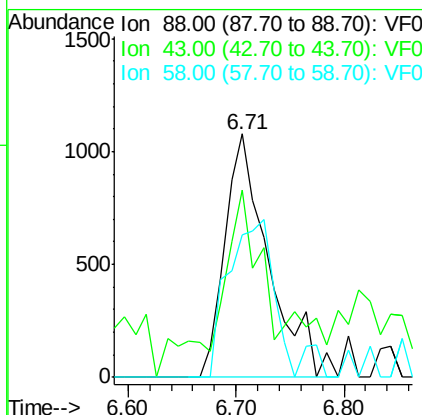
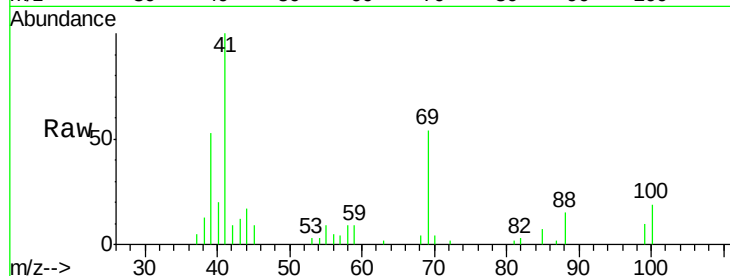
ClientSampleId :

VF0208SBS01

Tot Ion:	88	Resp:	3048
Ion	Ratio	Lower	Upper
88	100		
43	77.1	55.5	83.3
58	58.6	59.9	89.9#

Manual Integrations
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#50

Toluene-d8

Concen: 51.708 ug/l

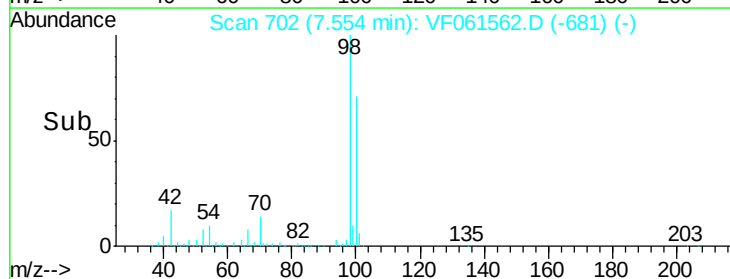
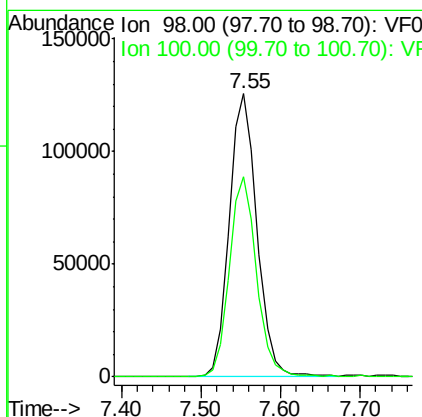
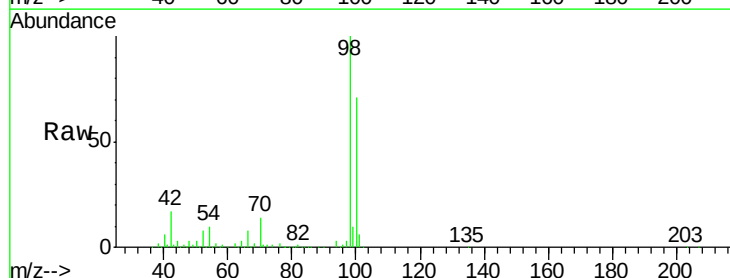
RT: 7.55 min Scan# 702

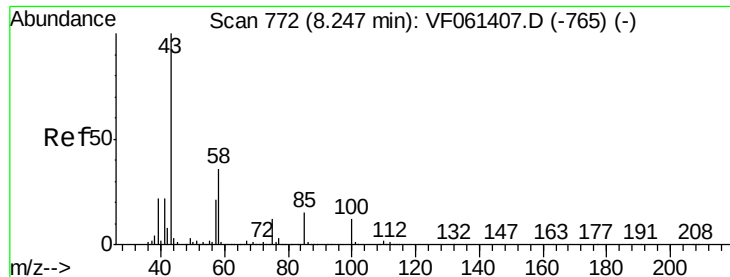
Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Tgt Ion:	98	Resp:	306392
Ion	Ratio	Lower	Upper
98	100		
100	70.7	55.6	83.4





#51

4-Methyl-2-Pentanone

Concen: 108.110 ug/l

RT: 8.25 min Scan# 773

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBS01

Tot Ion: 43 Resp: 126711

Ion Ratio Lower Upper

43 100

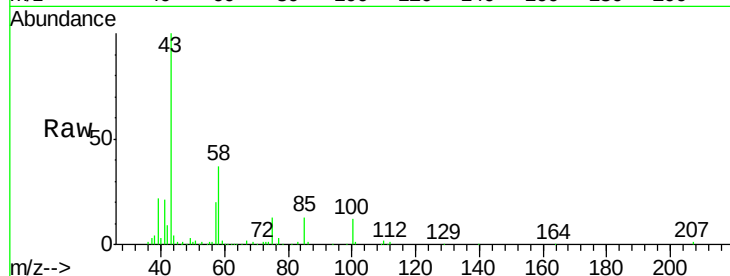
58 36.7 28.8 43.2

Manual Integrations

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MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

60000

50000

40000

30000

20000

10000

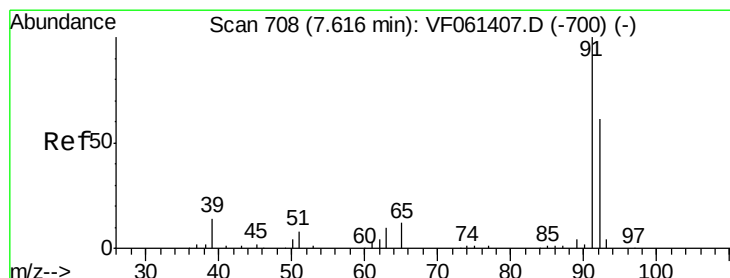
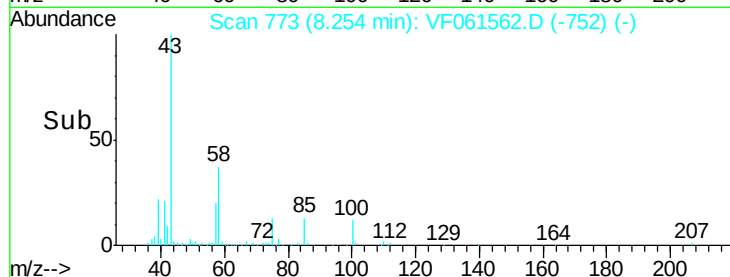
0

8.25

8.30

8.40

Time-->



#52

Toluene

Concen: 19.884 ug/l

RT: 7.62 min Scan# 709

Delta R.T. 0.01 min

Lab File: VF061562.D

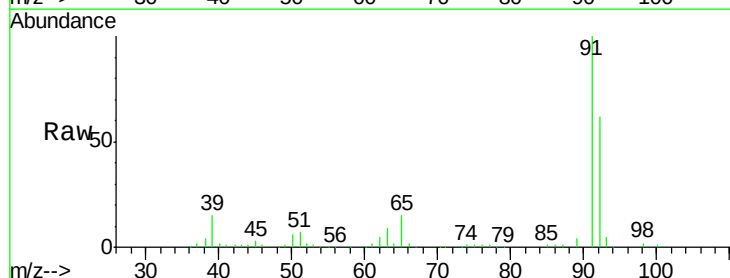
Acq: 8 Feb 2019 17:19

Tgt Ion: 92 Resp: 92592

Ion Ratio Lower Upper

92 100

91 161.1 131.2 196.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

60000

40000

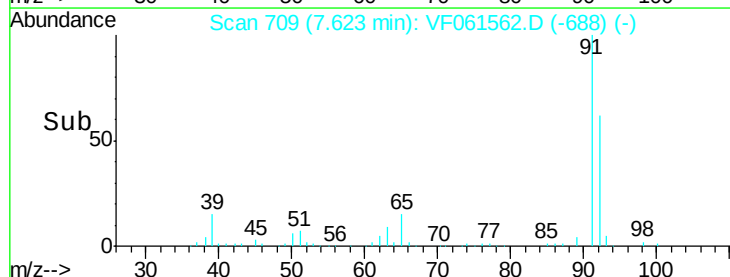
20000

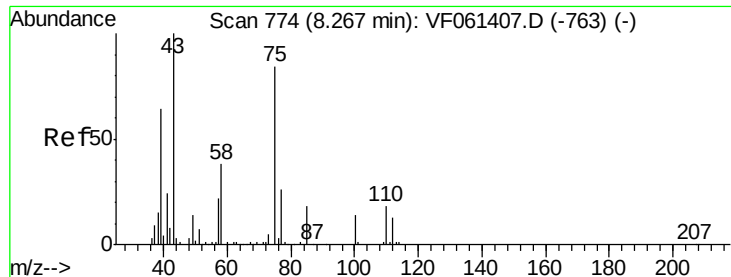
0

7.62

7.70

Time-->





#53

t-1,3-Dichloropropene

Concen: 21.909 ug/l

RT: 8.27 min Scan# 775

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBSD01

Tot Ion: 75 Resp: 53117

Ion Ratio Lower Upper

75 100

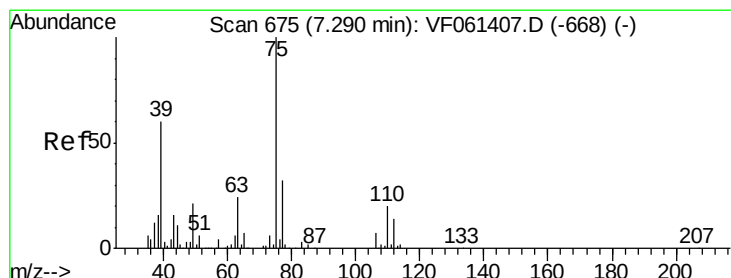
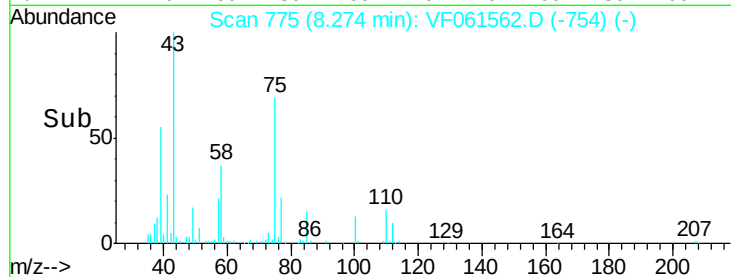
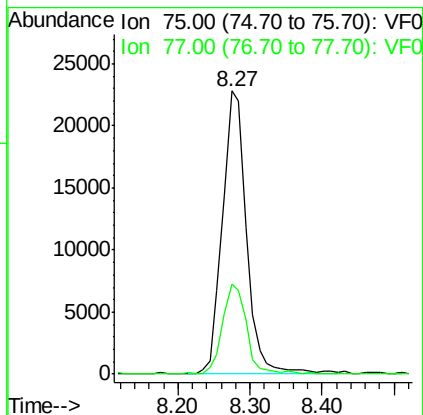
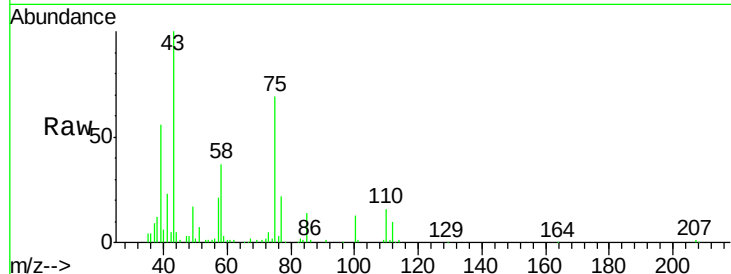
77 31.6 24.4 36.6

Manual Integrations

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2/12/2019 2:32:07 AM



#54

cis-1,3-Dichloropropene

Concen: 20.866 ug/l

RT: 7.30 min Scan# 676

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

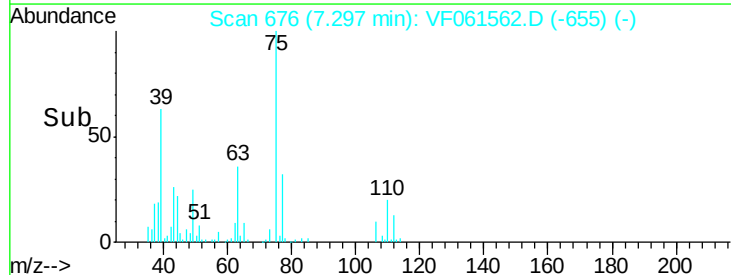
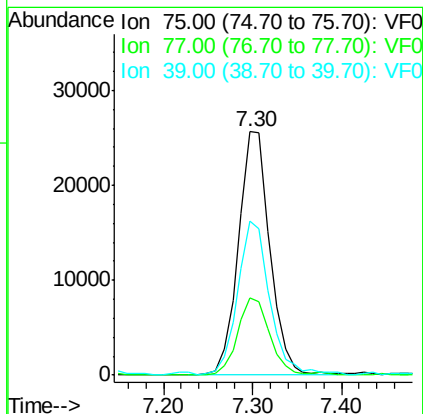
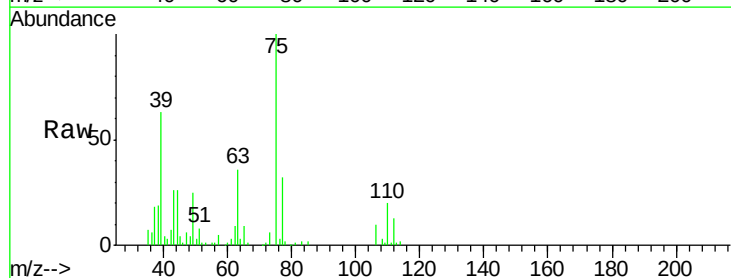
Tgt Ion: 75 Resp: 63234

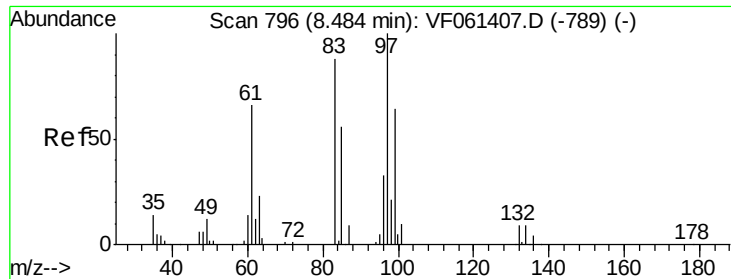
Ion Ratio Lower Upper

75 100

77 31.9 25.4 38.0

39 63.5 47.8 71.8





#55

1,1,2-Trichloroethane

Concen: 20.873 ug/l

RT: 8.49 min Scan# 797

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

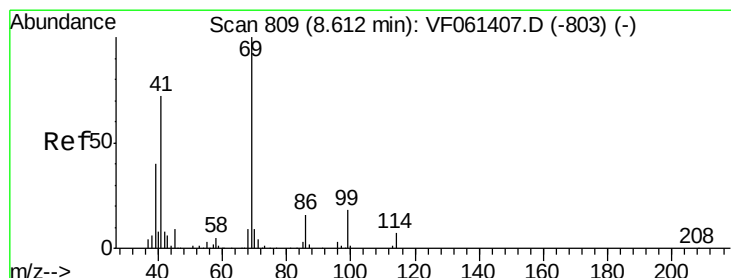
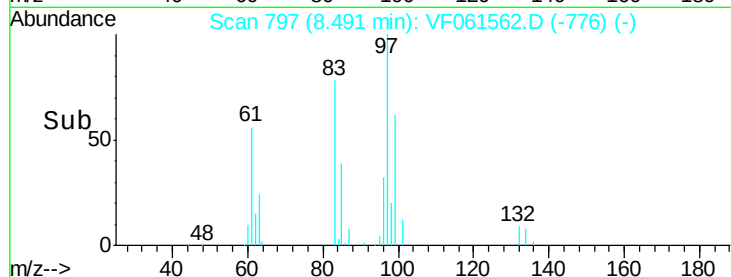
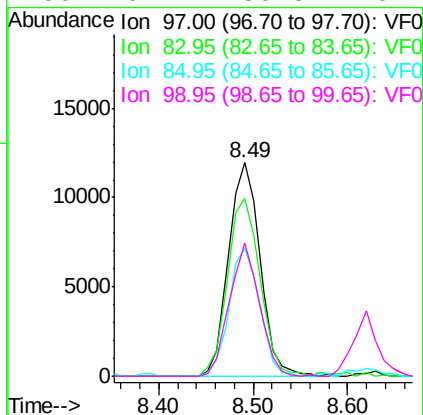
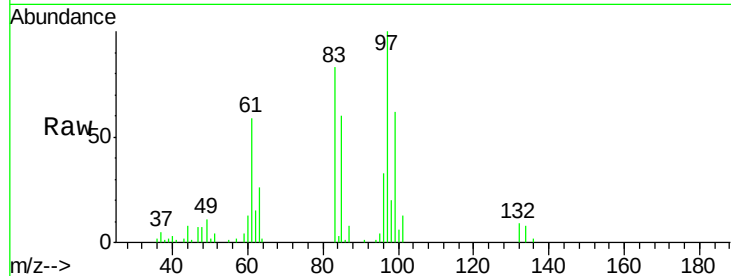
ClientSampleId :

VF0208SBSD01

Tot Ion:	97	Resp:	27601
Ion	Ratio	Lower	Upper
97	100		
83	83.2	70.4	105.6
85	60.1	44.7	67.1
99	62.2	50.8	76.2

Manual Integrations
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2/12/2019 2:32:07 AM



#56

Ethyl methacrylate

Concen: 20.727 ug/l

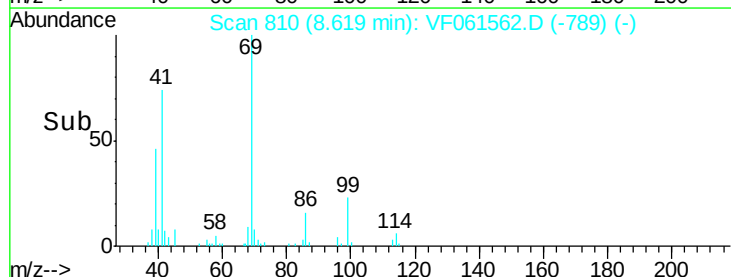
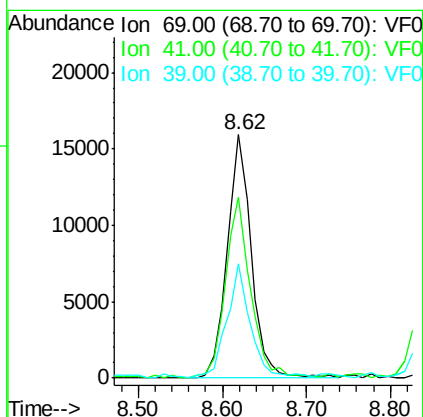
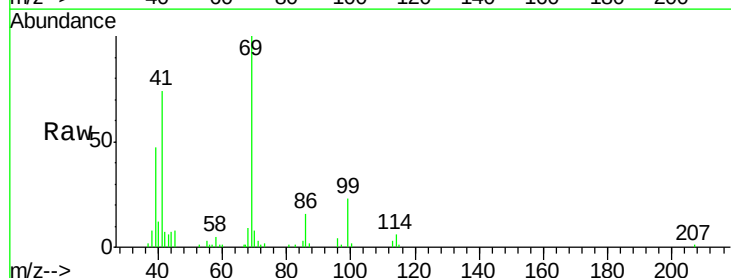
RT: 8.62 min Scan# 810

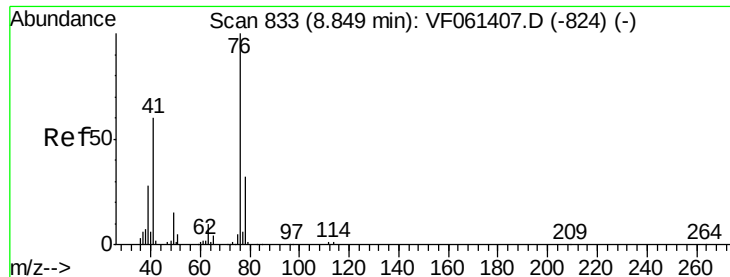
Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Tgt Ion:	69	Resp:	31887
Ion	Ratio	Lower	Upper
69	100		
41	74.3	57.5	86.3
39	47.2	32.0	48.0





#57

1,3-Dichloropropane

Concen: 20.948 ug/l

RT: 8.86 min Scan# 834

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBSD01

Tot Ion: 76 Resp: 51922

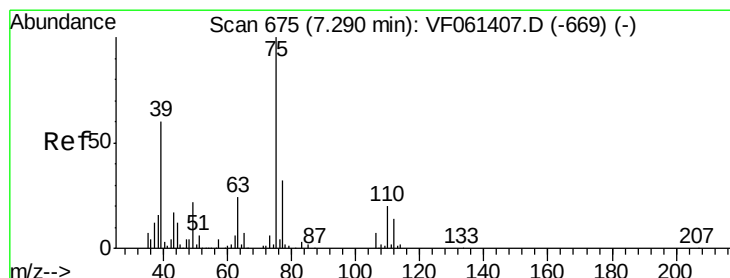
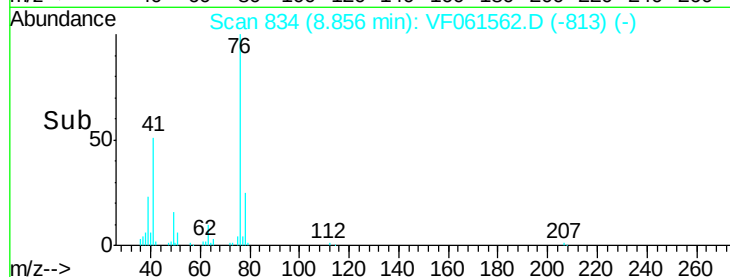
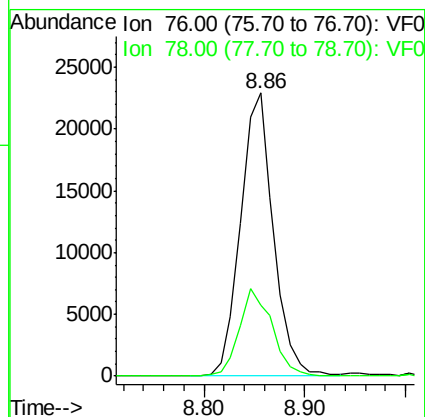
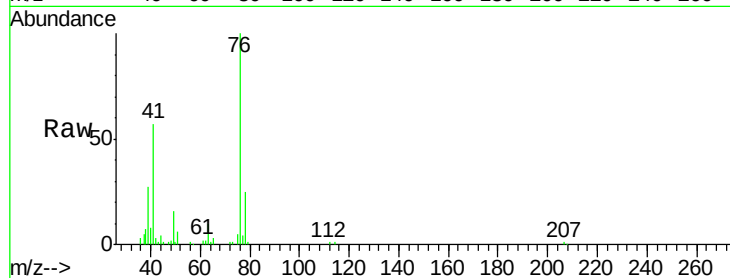
Ion Ratio Lower Upper

76 100

78 24.9 25.3 37.9#

Manual Integrations
APPROVED

MMDadoda
2/12/2019 2:32:07 AM



#58

2-Chloroethyl Vinyl ether

Concen: 146.439 ug/l

RT: 7.30 min Scan# 676

Delta R.T. 0.01 min

Lab File: VF061562.D

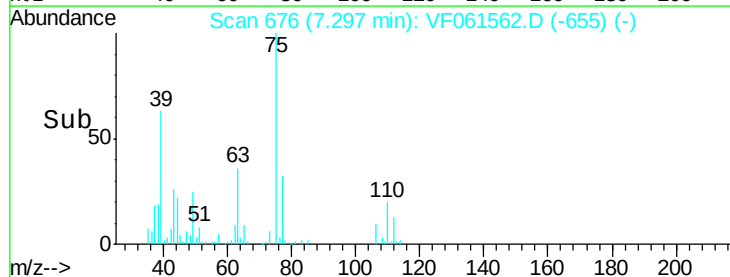
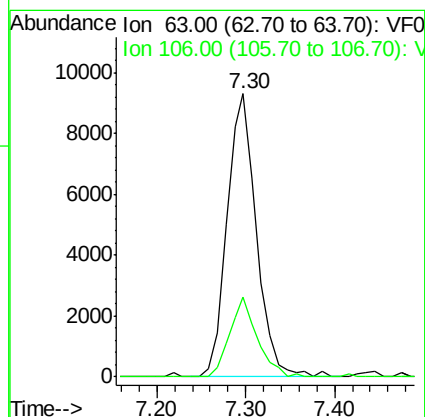
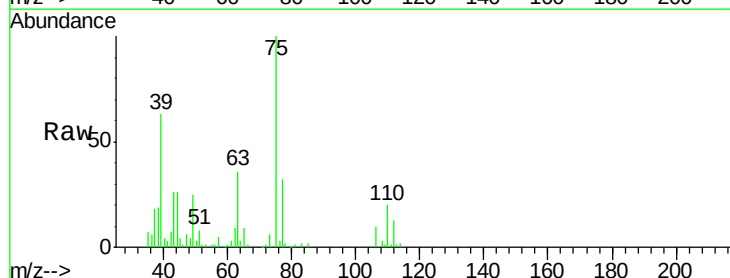
Acq: 8 Feb 2019 17:19

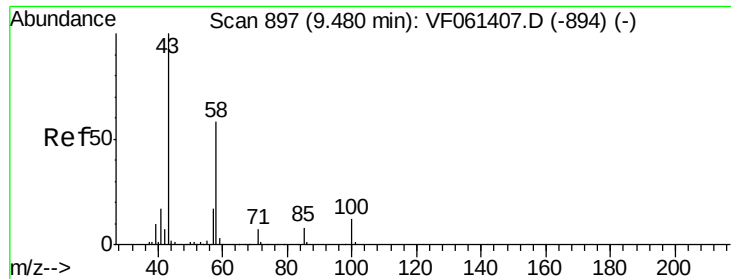
Tgt Ion: 63 Resp: 21558

Ion Ratio Lower Upper

63 100

106 28.2 21.9 32.9





#59

2-Hexanone

Concen: 123.872 ug/l

RT: 9.50 min Scan# 899

Delta R.T. 0.02 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBSD01

Tot Ion: 43 Resp: 101240

Ion Ratio Lower Upper

43 100

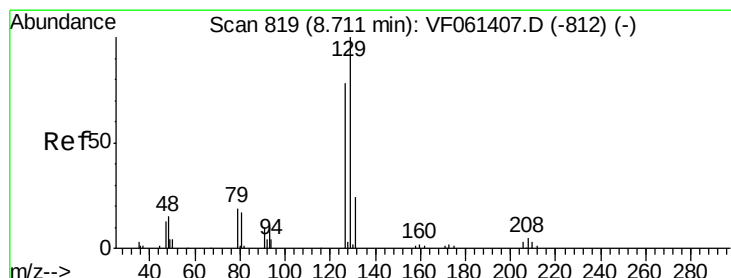
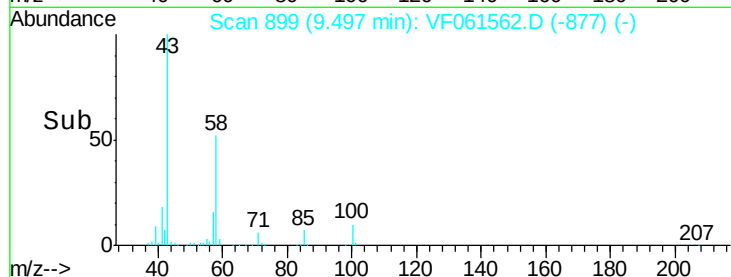
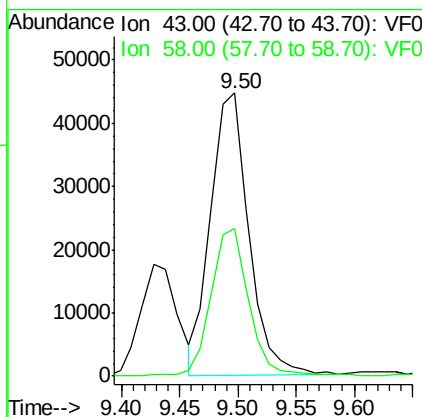
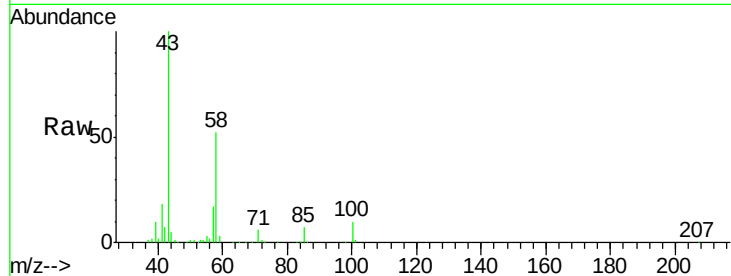
58 52.0 25.9 77.6

Manual Integrations

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2/12/2019 2:32:07 AM



#60

Dibromochloromethane

Concen: 21.610 ug/l

RT: 8.71 min Scan# 819

Delta R.T. -0.00 min

Lab File: VF061562.D

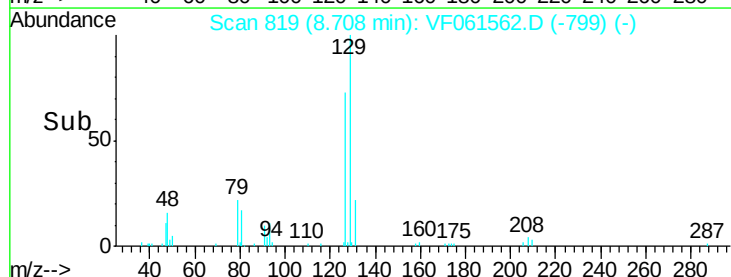
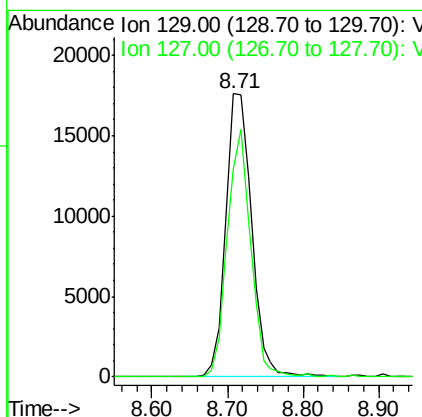
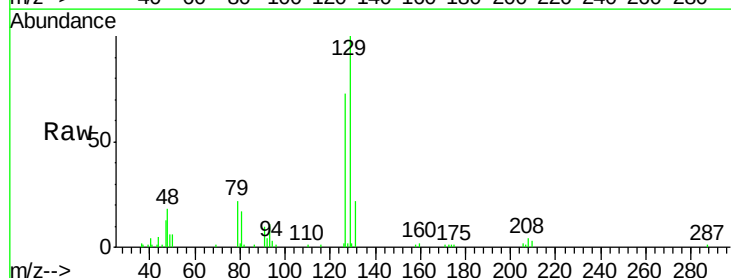
Acq: 8 Feb 2019 17:19

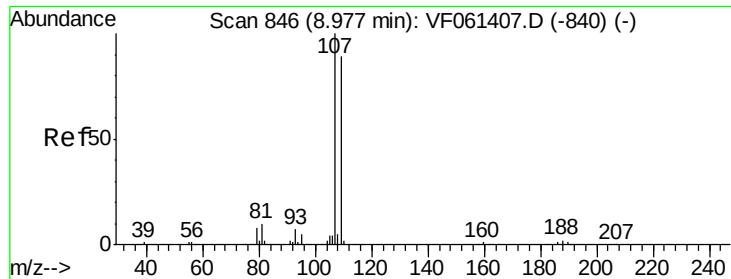
Tgt Ion: 129 Resp: 41777

Ion Ratio Lower Upper

129 100

127 73.4 39.1 117.2





#61

1,2-Dibromoethane

Concen: 19.734 ug/l

RT: 8.98 min Scan# 847

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBSD01

Tot Ion:107 Resp: 29873

Ion Ratio Lower Upper

107 100

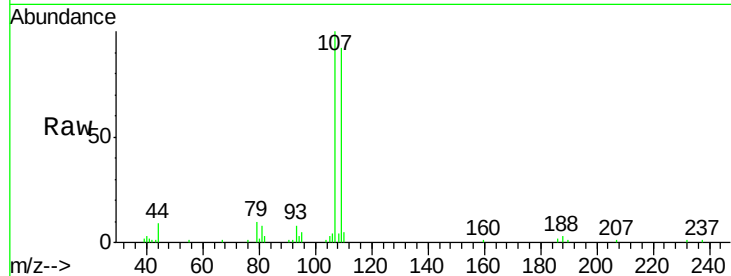
109 92.0 70.8 106.2

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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.98

15000

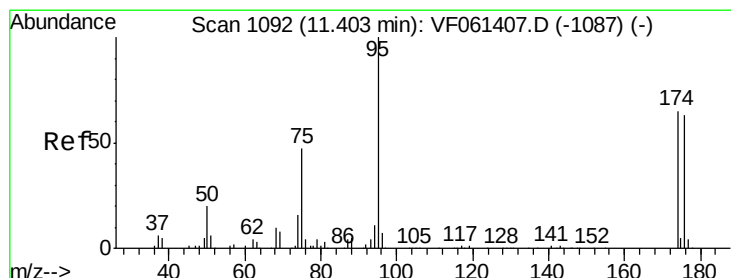
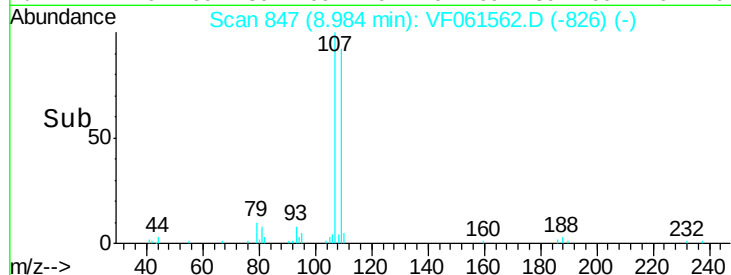
10000

5000

0

Time-->

8.90 9.00 9.10



#62

4-Bromofluorobenzene

Concen: 55.302 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

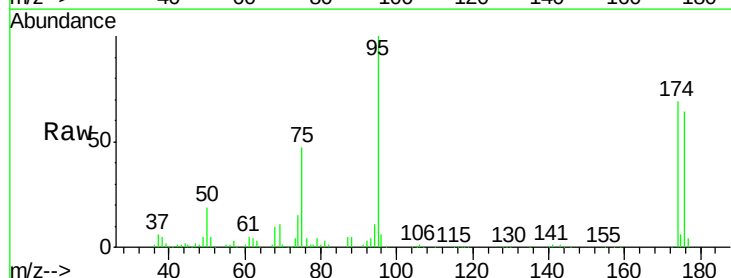
Tgt Ion: 95 Resp: 153107

Ion Ratio Lower Upper

95 100

174 69.4 0.0 130.4

176 63.8 0.0 126.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

120000

100000

80000

60000

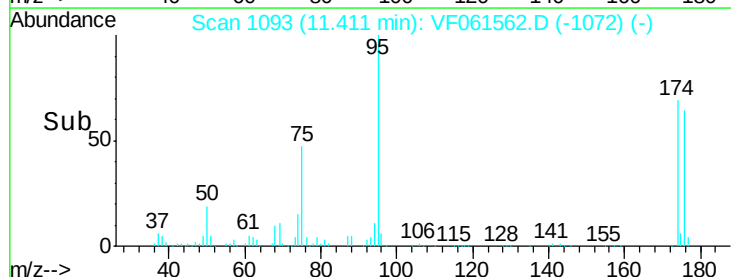
40000

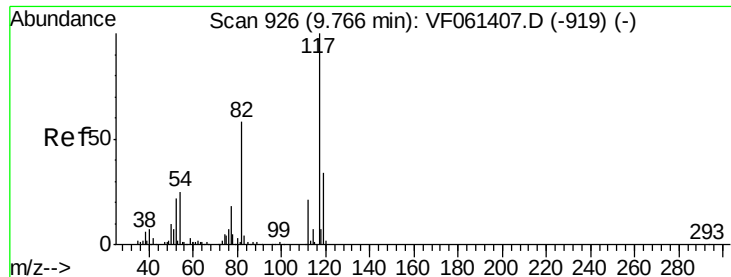
20000

0

Time-->

11.30 11.40 11.50 11.60





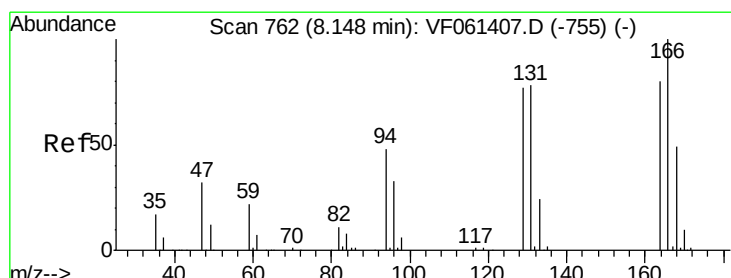
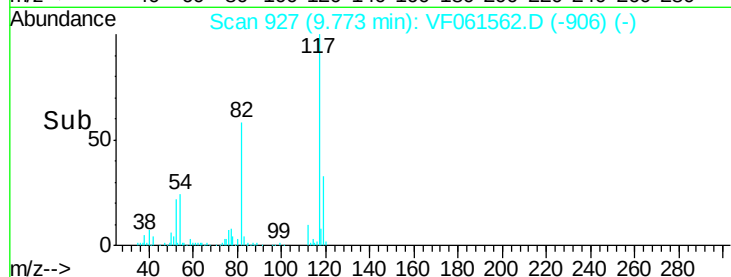
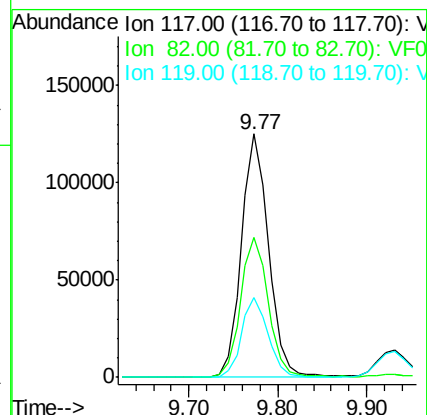
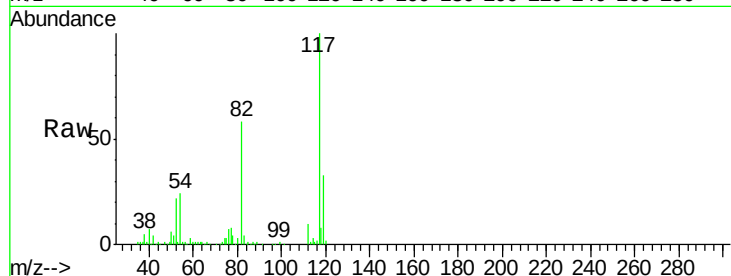
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. 0.01 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

Instrument :
MSVOA_F
ClientSampleId :
VF0208SBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.7	46.4	69.6
119	32.8	27.2	40.8

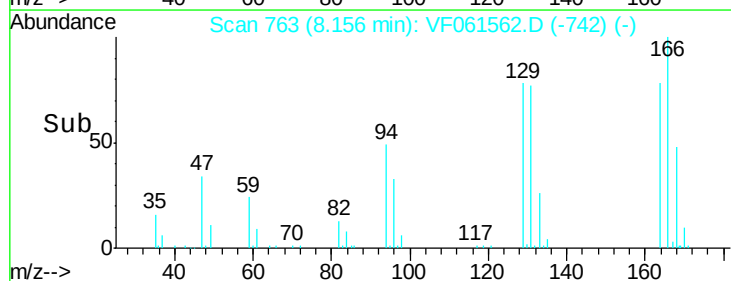
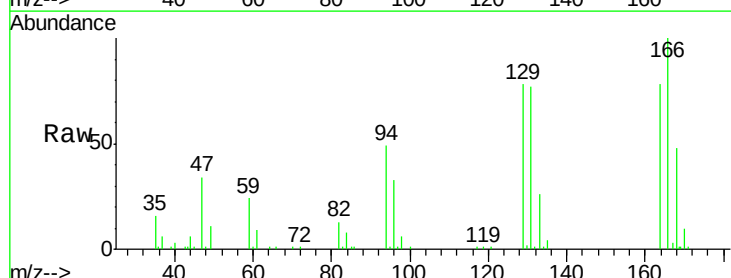
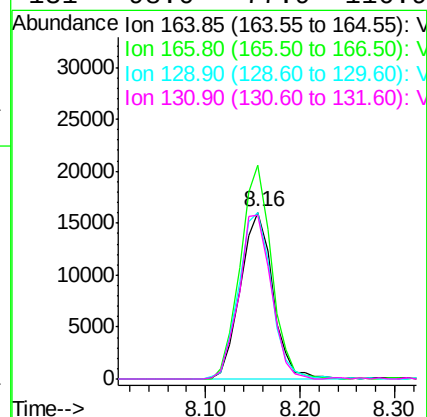
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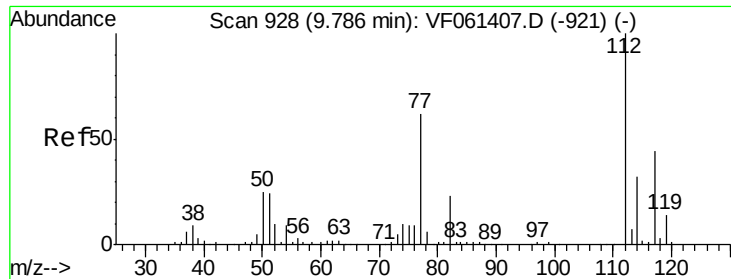
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#64
Tetrachloroethene
Concen: 18.981 ug/l
RT: 8.16 min Scan# 763
Delta R.T. 0.01 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.9	99.6	149.4
129	99.3	76.4	114.6
131	98.0	77.9	116.9





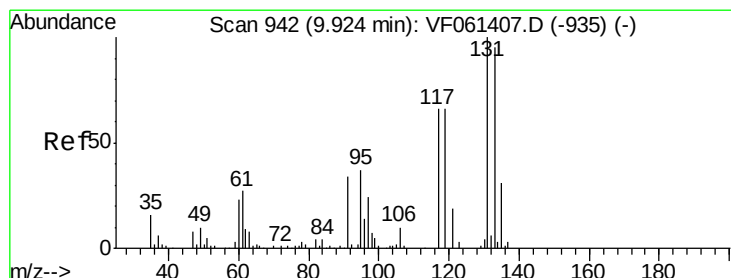
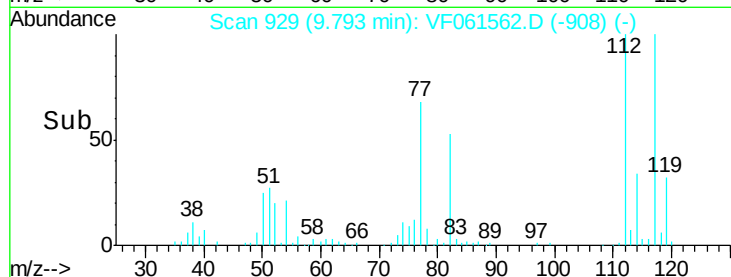
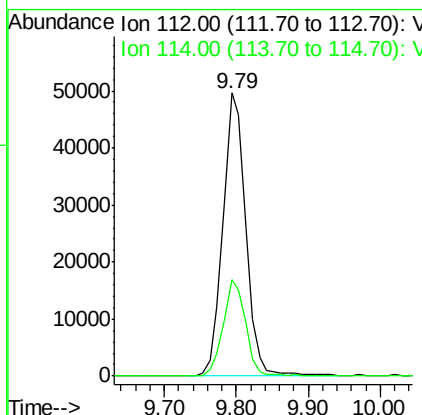
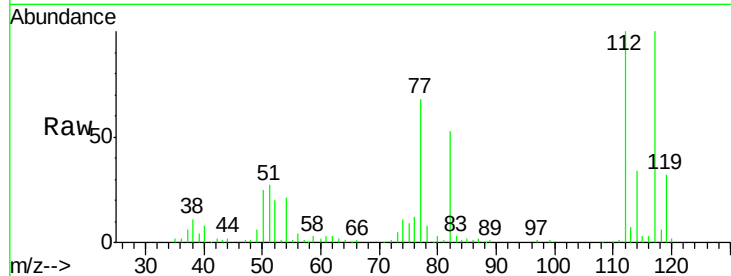
#65
Chlorobenzene
Concen: 20.192 ug/l
RT: 9.79 min Scan# 929
Delta R.T. 0.01 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

Instrument :
MSVOA_F
ClientSampleId :
VF0208SBSD01

Tot Ion:112 Resp: 109534
Ion Ratio Lower Upper
112 100
114 33.9 25.4 38.0

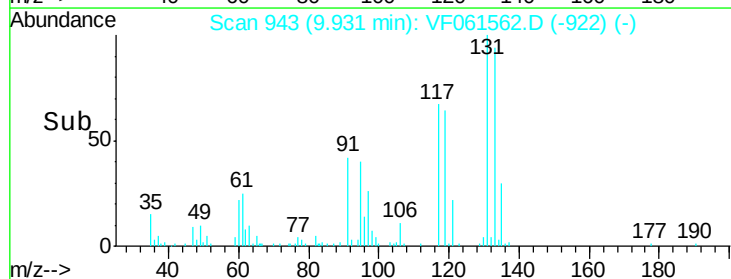
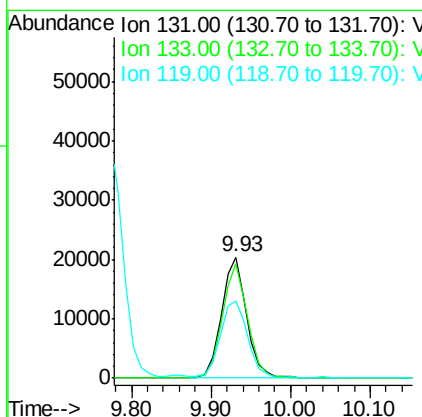
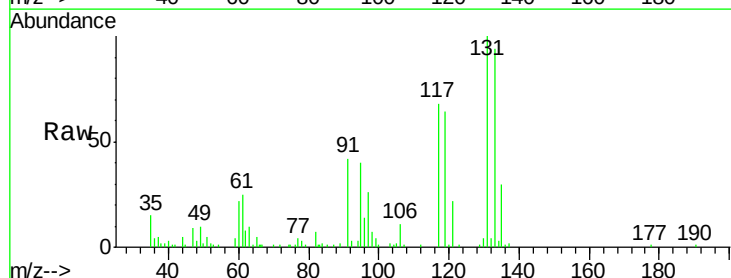
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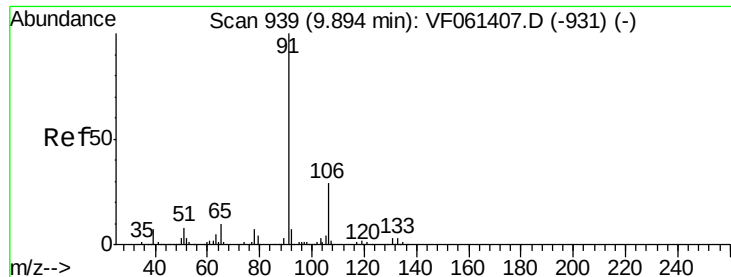
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#66
1,1,1,2-Tetrachloroethane
Concen: 20.834 ug/l
RT: 9.93 min Scan# 943
Delta R.T. 0.01 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

Tgt Ion:131 Resp: 45022
Ion Ratio Lower Upper
131 100
133 94.3 47.4 142.2
119 64.2 33.1 99.3





#67

Ethyl Benzene

Concen: 20.360 ug/l

RT: 9.90 min Scan# 940

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBSD01

Tot Ion: 91 Resp: 201793

Ion Ratio Lower Upper

91 100

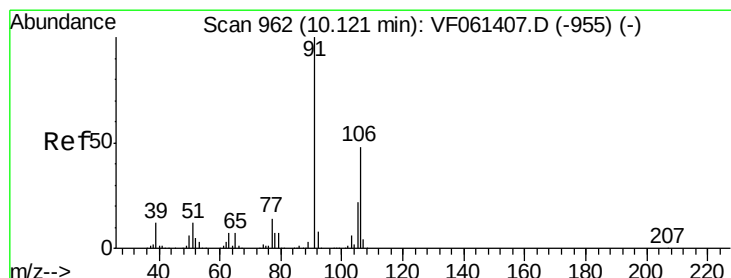
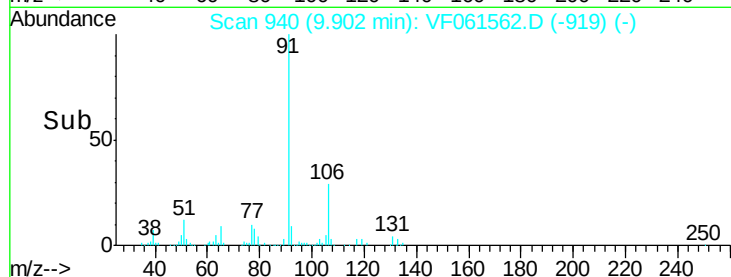
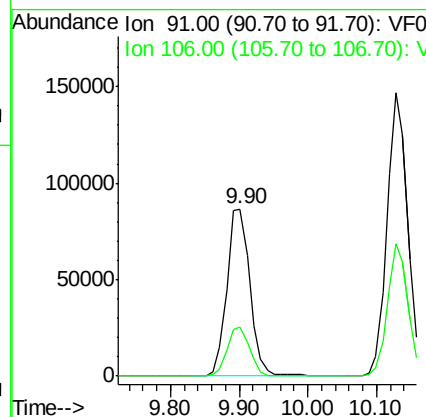
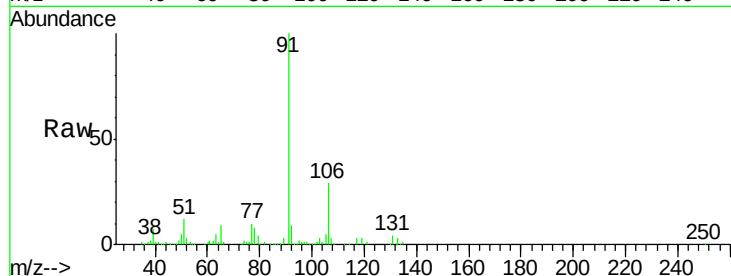
106 29.4 23.1 34.7

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#68

m/p-Xylenes

Concen: 40.456 ug/l

RT: 10.13 min Scan# 963

Delta R.T. 0.01 min

Lab File: VF061562.D

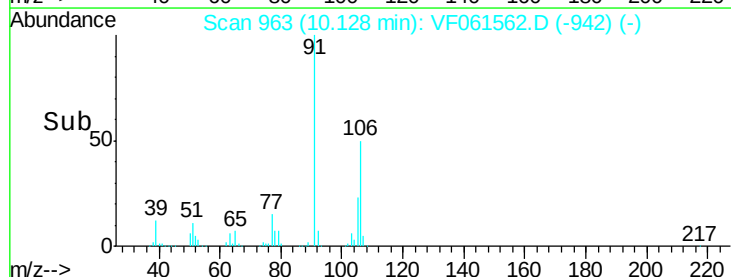
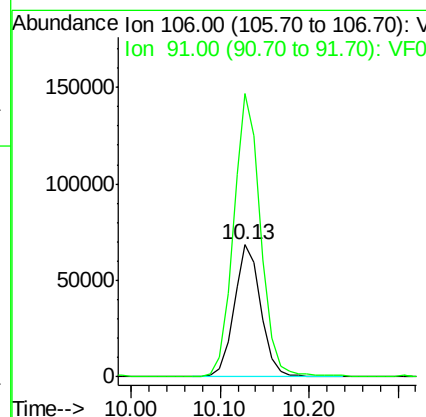
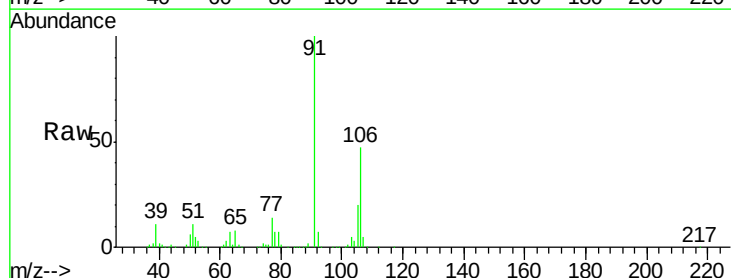
Acq: 8 Feb 2019 17:19

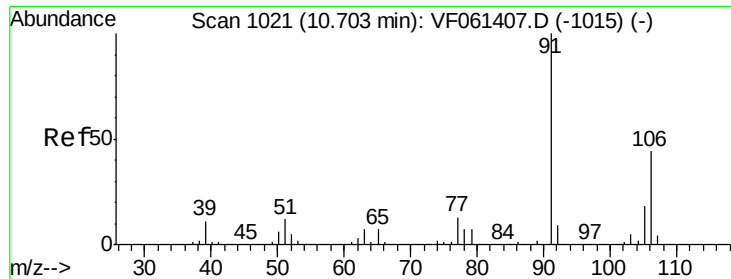
Tgt Ion: 106 Resp: 144214

Ion Ratio Lower Upper

106 100

91 214.0 166.2 249.4





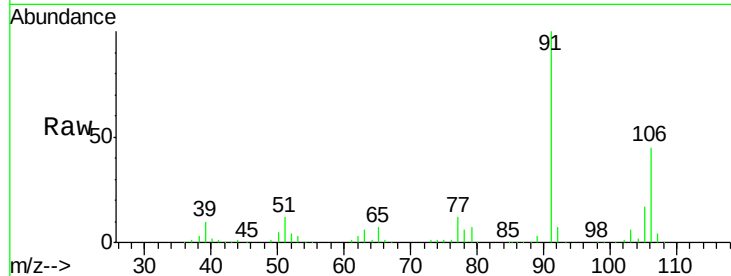
#69
o-Xylene
Concen: 20.716 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. 0.01 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

Instrument :
MSVOA_F
ClientSampleId :
VF0208SBS01

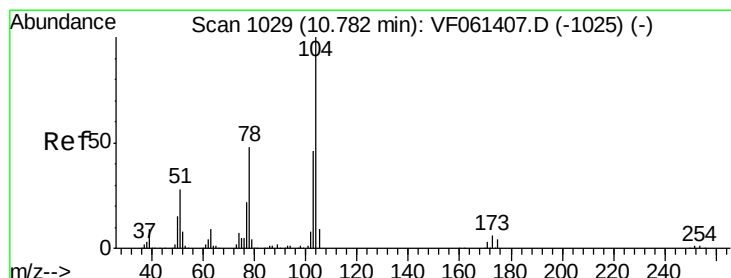
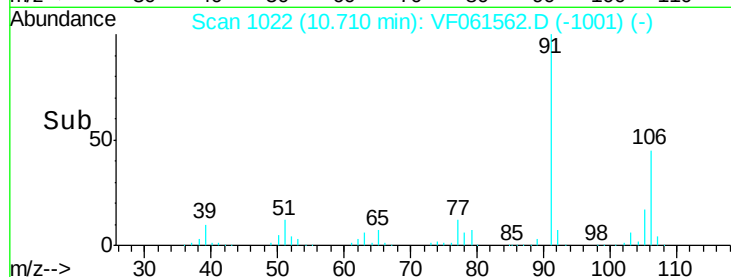
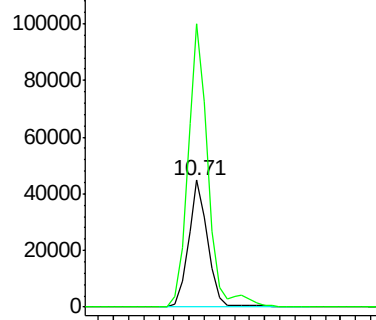
Tot Ion:106 Resp: 80036
Ion Ratio Lower Upper
106 100
91 223.2 113.3 339.8

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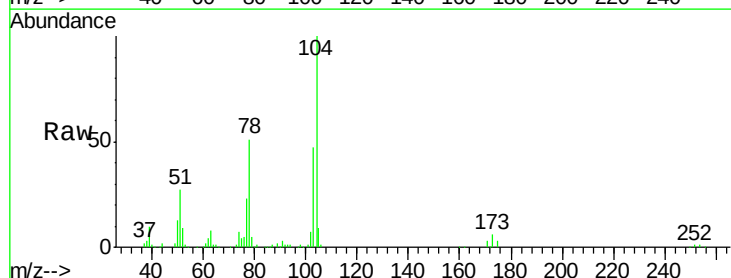


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

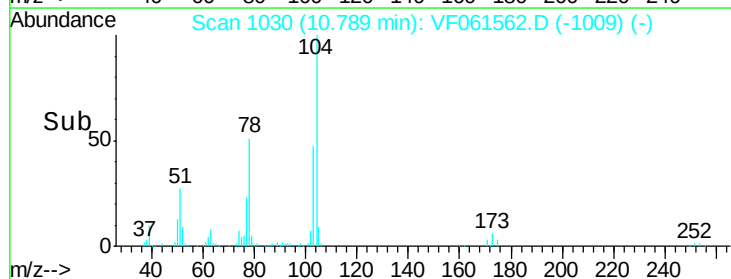
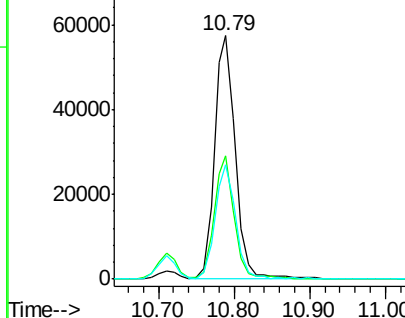


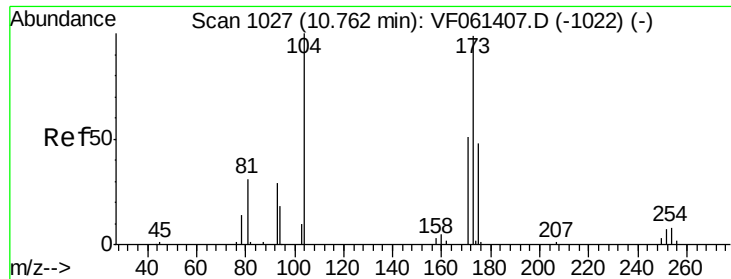
#70
Styrene
Concen: 20.819 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. 0.01 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

Tgt Ion:104 Resp: 110105
Ion Ratio Lower Upper
104 100
78 50.9 38.8 58.2
103 46.8 37.0 55.6



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VF0
Ion 103.00 (102.70 to 103.70): V





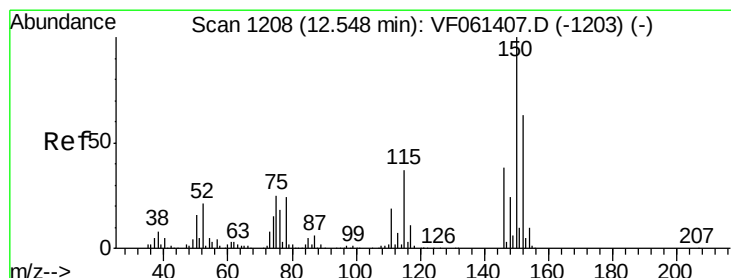
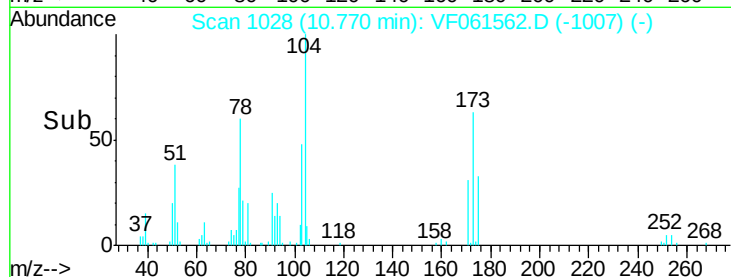
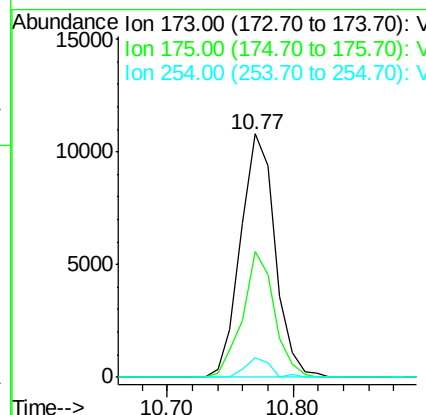
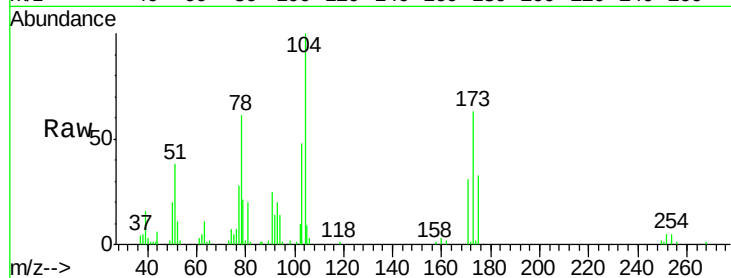
#71
Bromoform
Concen: 21.141 ug/l
RT: 10.77 min Scan# 1028
Delta R.T. 0.01 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

Instrument :
MSVOA_F
ClientSampleId :
VF0208SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	51.6	24.1	72.4
254	8.3	0.0	0.0#

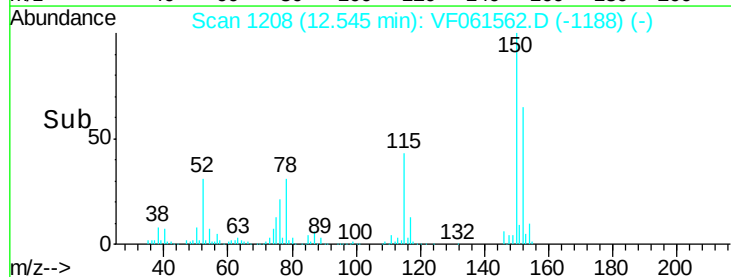
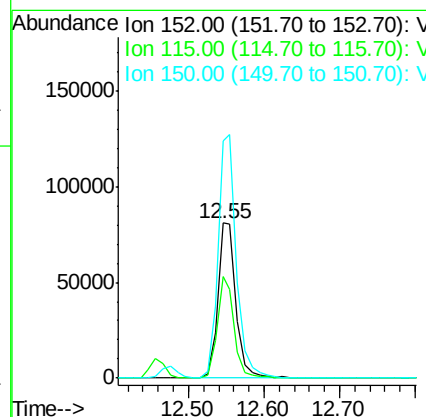
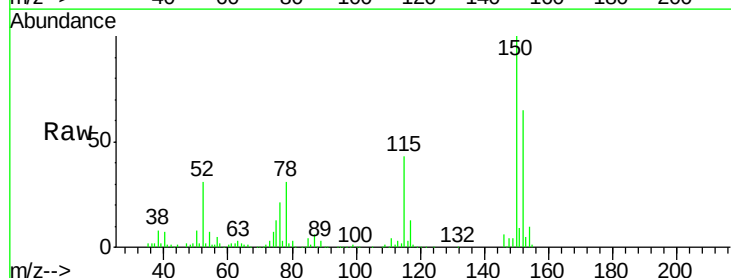
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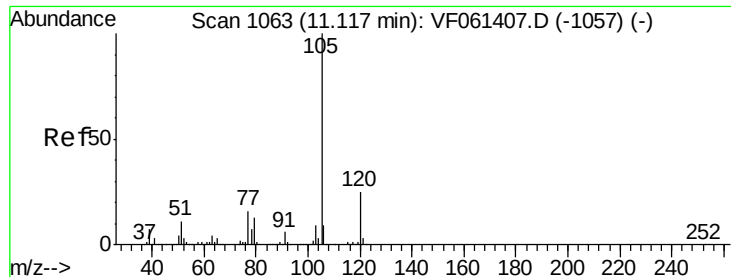
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1208
Delta R.T. -0.00 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

Tgt Ion	Ratio	Lower	Upper
152	100		
115	65.6	30.0	90.0
150	152.8	0.0	321.4





#73

Isopropylbenzene

Concen: 21.666 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBSD01

Tot Ion:105 Resp: 241556

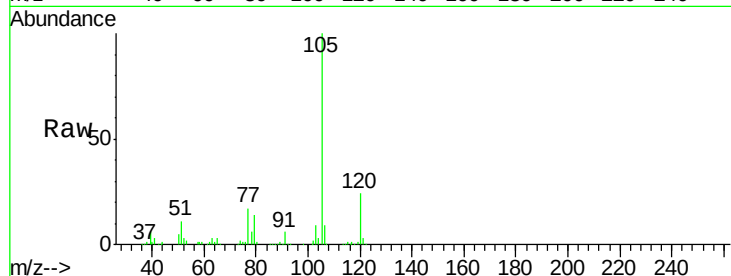
Ion Ratio Lower Upper

105 100

120 24.2 12.6 37.8

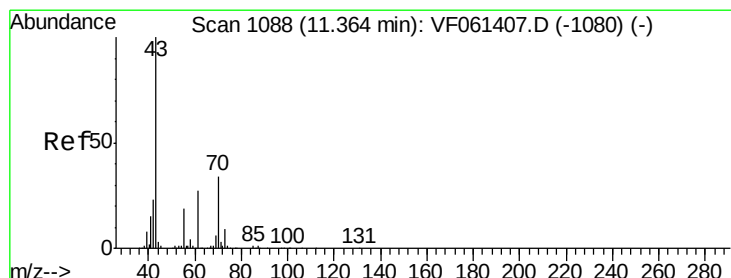
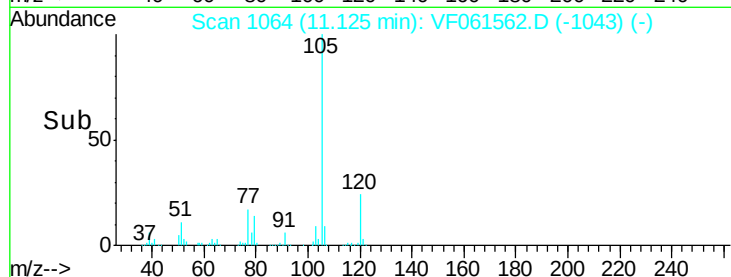
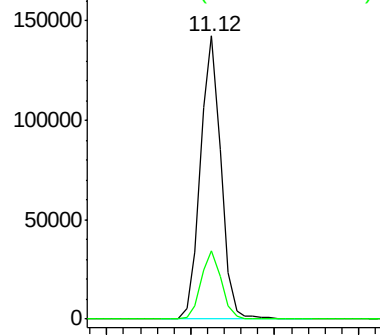
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 22.143 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Tgt Ion: 43 Resp: 58376

Ion Ratio Lower Upper

43 100

70 38.9 27.6 41.4

55 21.5 15.4 23.2

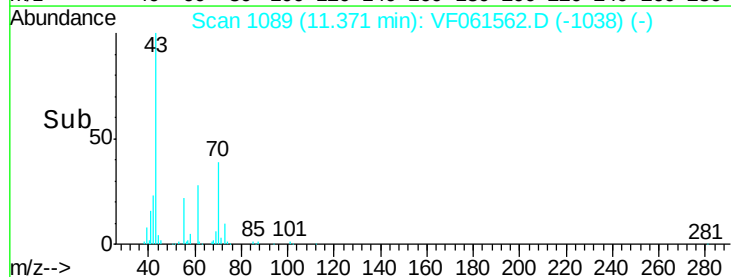
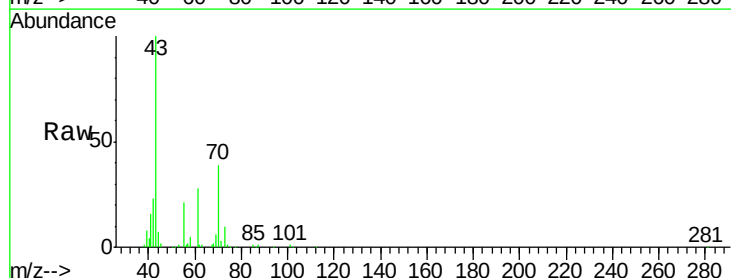
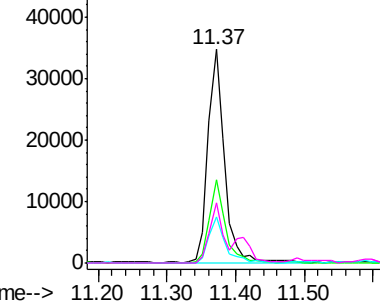
61 28.3 21.8 32.6

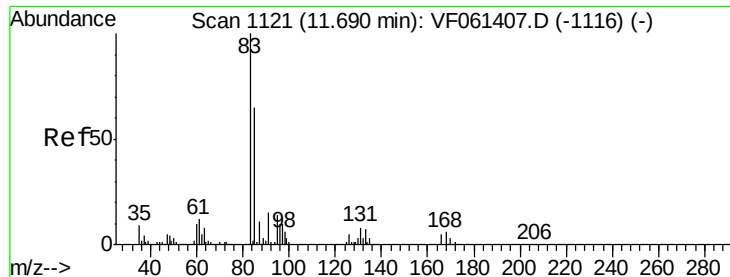
Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 19.866 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

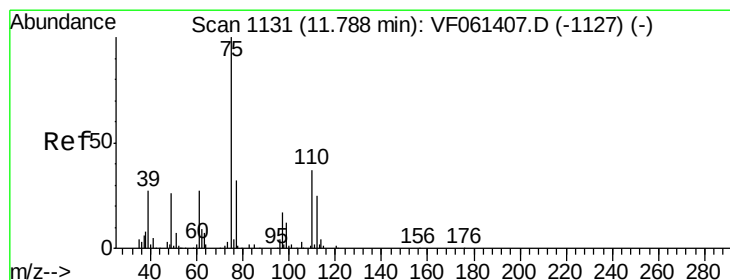
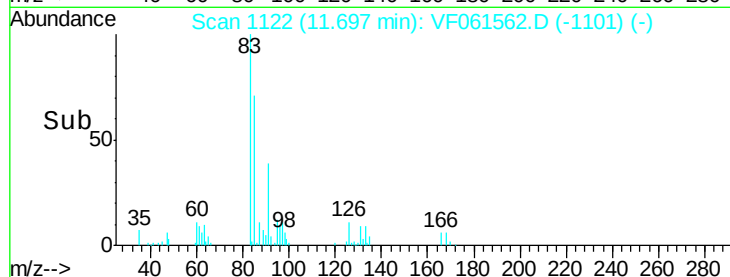
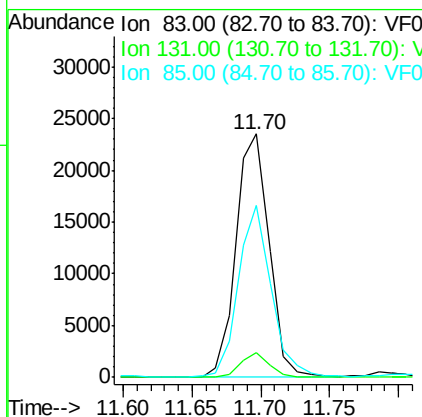
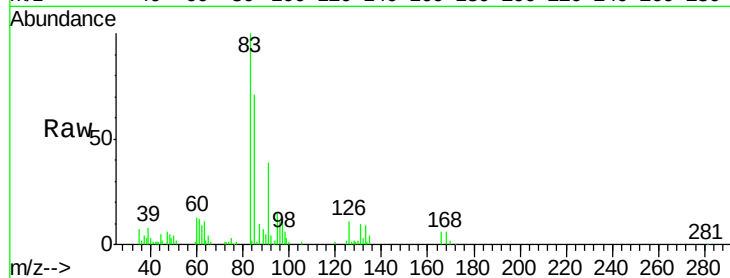
ClientSampleId :

VF0208SBSD01

Tot Ion:	83	Resp:	39458
Ion Ratio	Lower	Upper	
83	100		
131	9.9	4.0	12.2
85	70.8	32.7	98.1

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#76

1,2,3-Trichloropropane

Concen: 20.392 ug/l

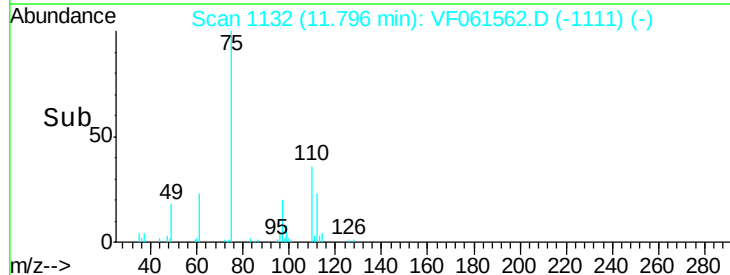
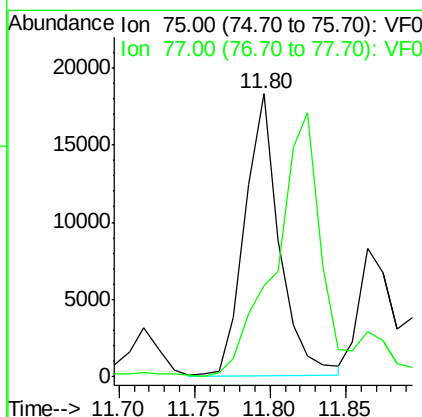
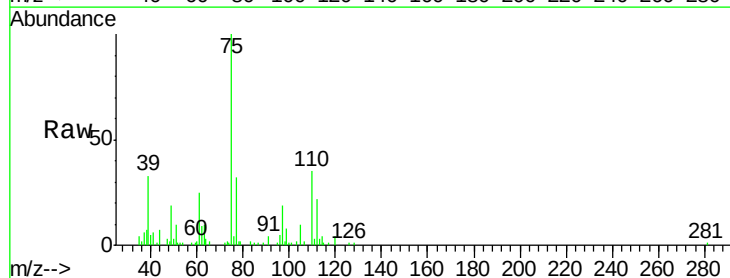
RT: 11.80 min Scan# 1132

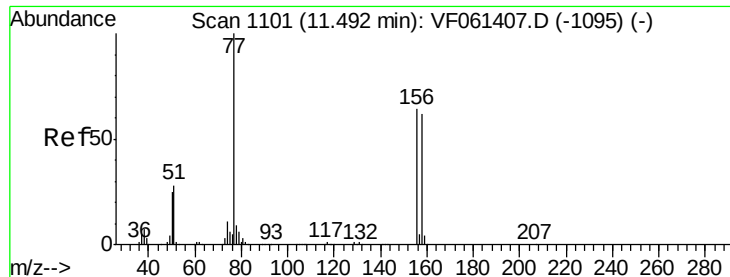
Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Tgt Ion:	75	Resp:	29103
Ion Ratio	Lower	Upper	
75	100		
77	32.3	16.1	48.3





#77

Bromobenzene

Concen: 21.114 ug/l

RT: 11.49 min Scan# 1101

Delta R.T. -0.00 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

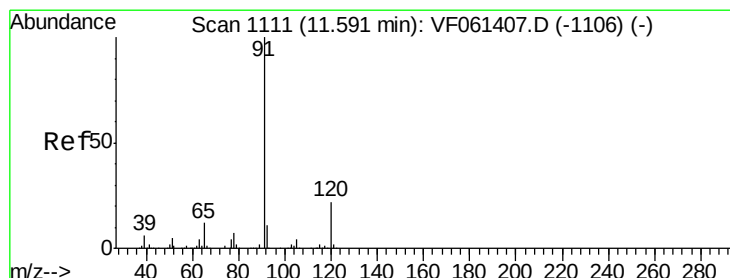
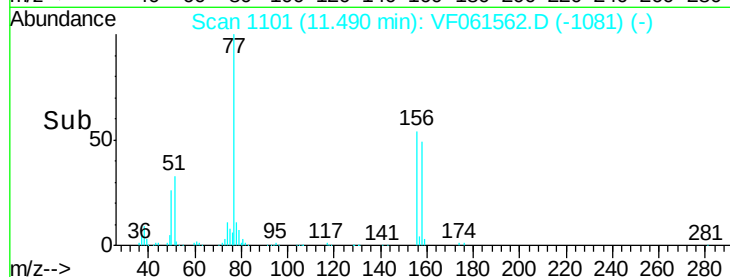
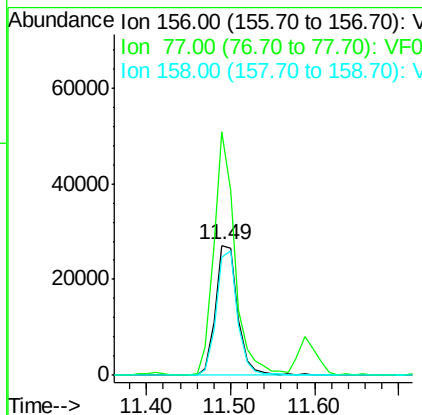
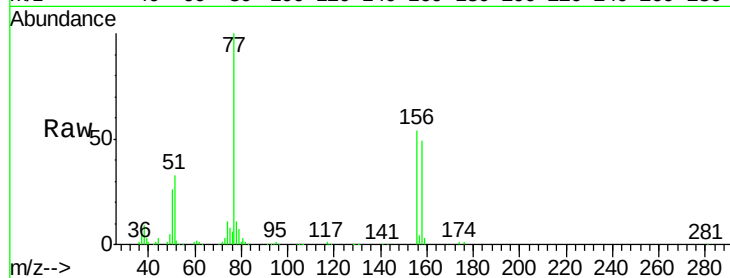
ClientSampleId :

VF0208SBSD01

Tot Ion:	156	Resp:	49715
Ion	Ratio	Lower	Upper
156	100		
77	186.9	78.3	234.9
158	90.9	48.9	146.7

Manual Integrations
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#78

n-propylbenzene

Concen: 19.526 ug/l

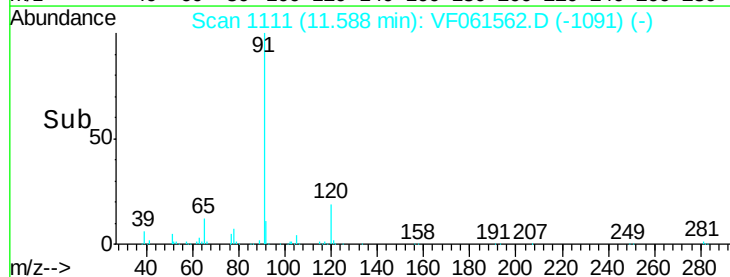
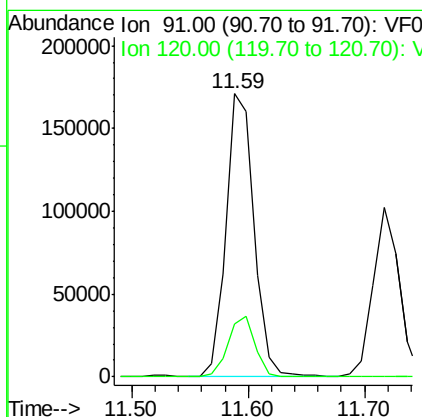
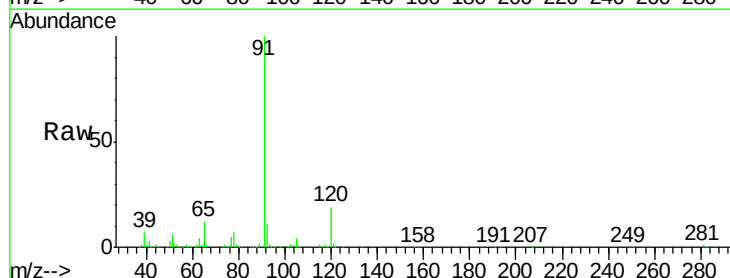
RT: 11.59 min Scan# 1111

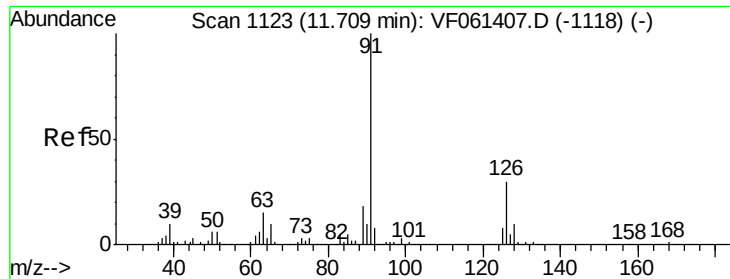
Delta R.T. -0.00 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Tgt Ion:	91	Resp:	283901
Ion	Ratio	Lower	Upper
91	100		
120	18.5	10.9	32.6





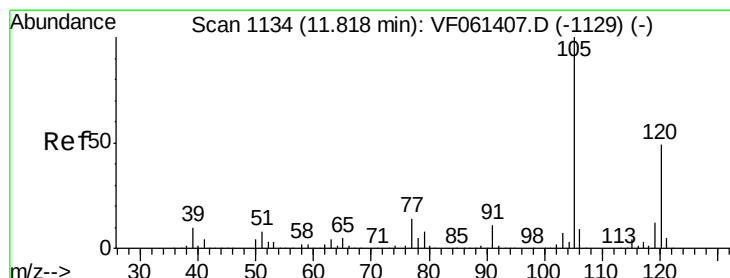
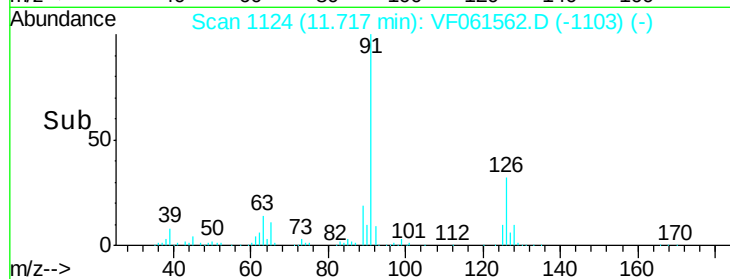
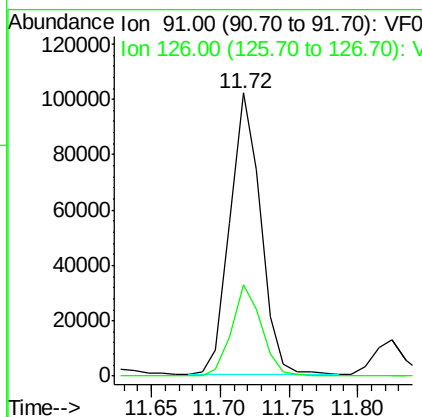
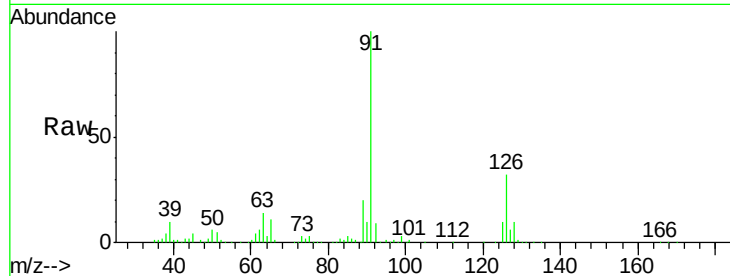
#79
 2-Chlorotoluene
 Concen: 20.530 ug/l
 RT: 11.72 min Scan# 1124
 Delta R.T. 0.01 min
 Lab File: VF061562.D
 Acq: 8 Feb 2019 17:19

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0208SBSD01

Tot Ion: 91 Resp: 158809
 Ion Ratio Lower Upper
 91 100
 126 32.2 15.0 45.1

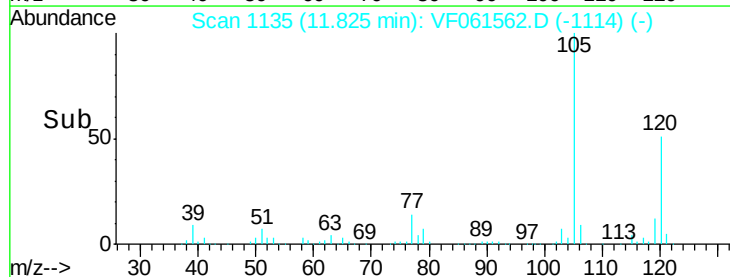
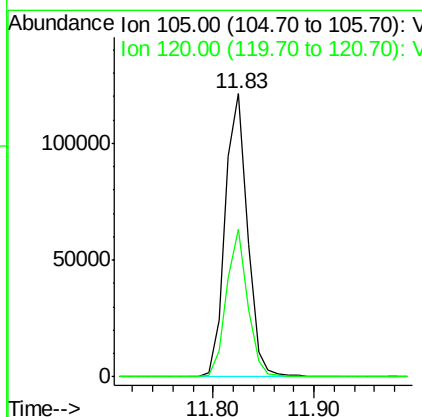
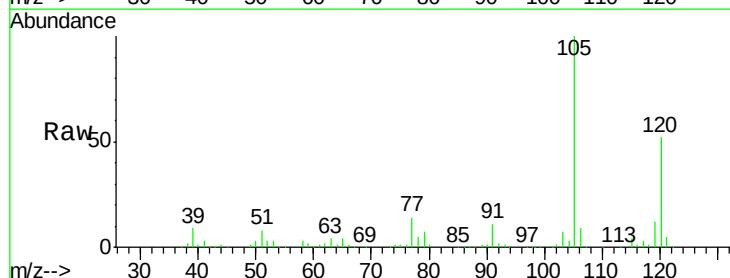
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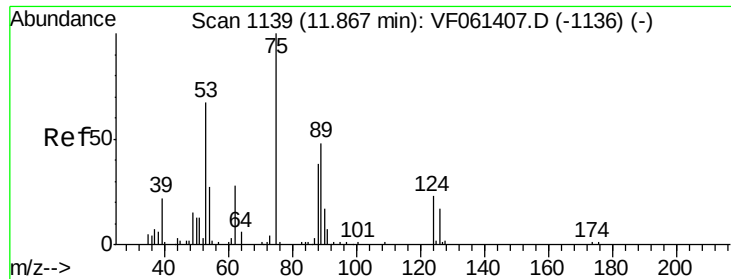
MMDadoda
 2/12/2019 2:32:07 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 20.759 ug/l
 RT: 11.83 min Scan# 1135
 Delta R.T. 0.01 min
 Lab File: VF061562.D
 Acq: 8 Feb 2019 17:19

Tgt Ion: 105 Resp: 186777
 Ion Ratio Lower Upper
 105 100
 120 52.2 24.7 74.1





#81

trans-1,4-Dichloro-2-butene

Concen: 19.437 ug/l m

RT: 11.86 min Scan# 1139

Delta R.T. -0.00 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

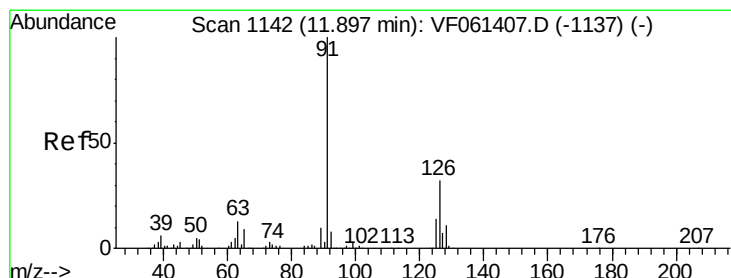
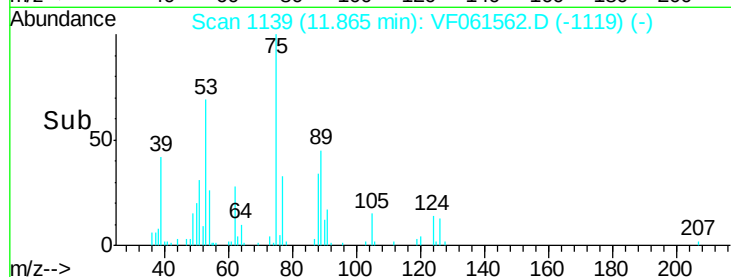
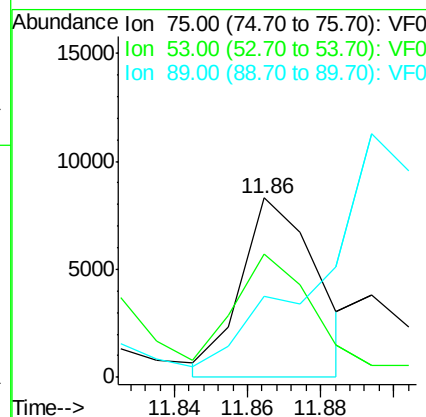
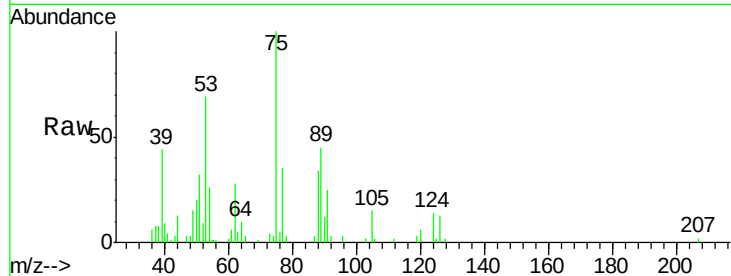
ClientSampleId :

VF0208SBSD01

Tot Ion:	75	Resp:	12059
Ion	Ratio	Lower	Upper
75	100		
53	68.9	57.8	86.6
89	45.0	40.7	61.1

Manual Integrations
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#82

4-Chlorotoluene

Concen: 21.221 ug/l

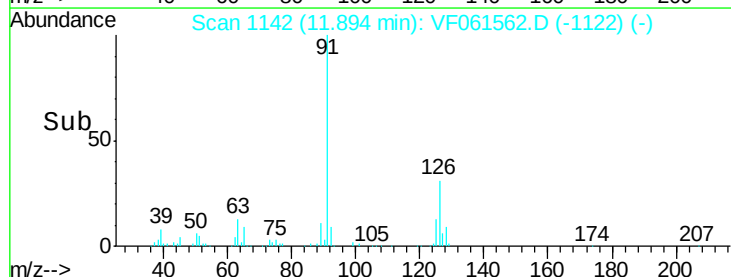
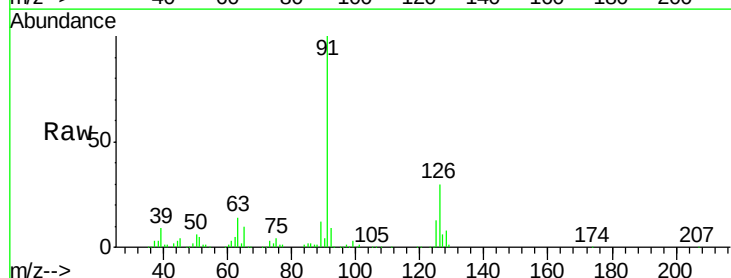
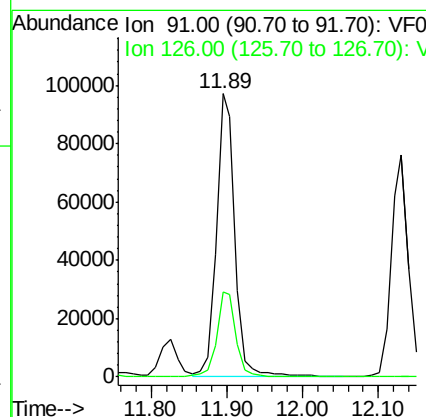
RT: 11.89 min Scan# 1142

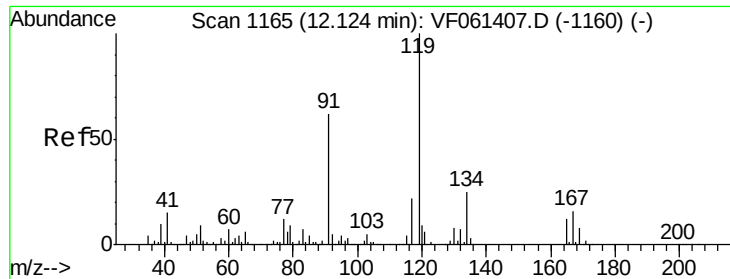
Delta R.T. -0.00 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Tgt Ion:	91	Resp:	165648
Ion	Ratio	Lower	Upper
91	100		
126	30.2	16.0	47.9





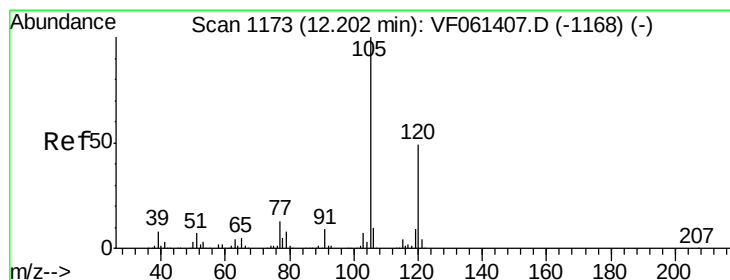
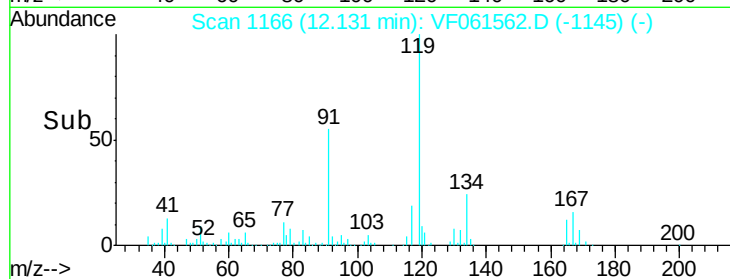
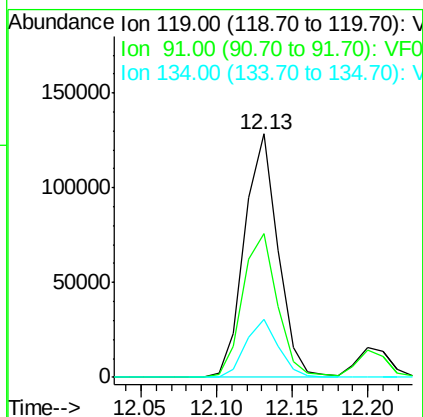
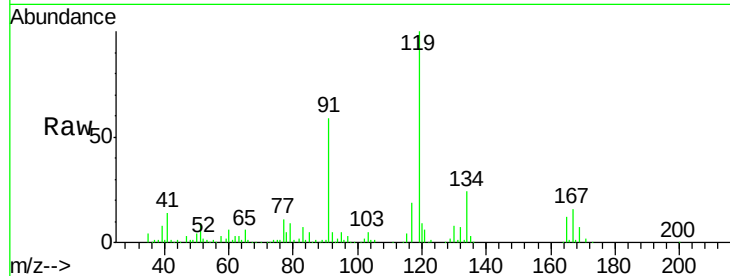
#83
 tert-Butylbenzene
 Concen: 21.355 ug/l
 RT: 12.13 min Scan# 1166
 Delta R.T. 0.01 min
 Lab File: VF061562.D
 Acq: 8 Feb 2019 17:19

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0208SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	198870		
91	59.2	31.3	93.8	
134	24.1	12.4	37.0	

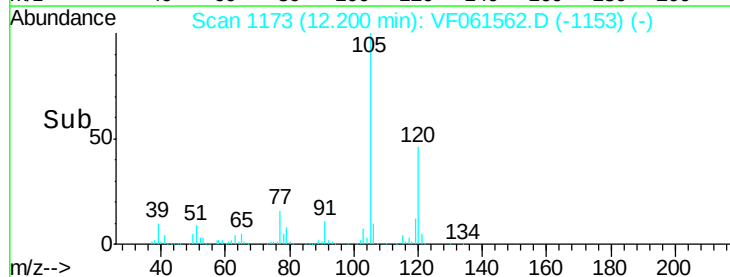
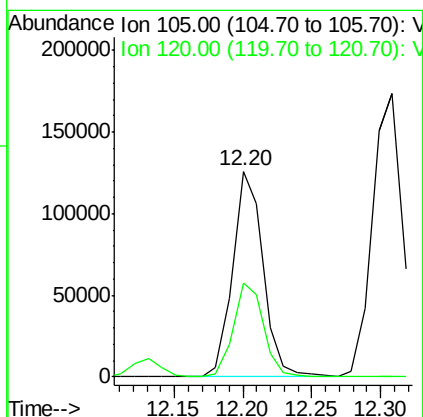
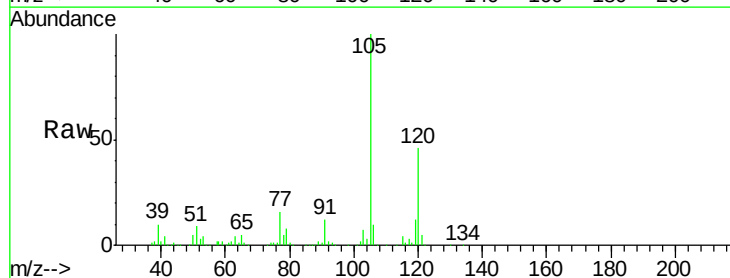
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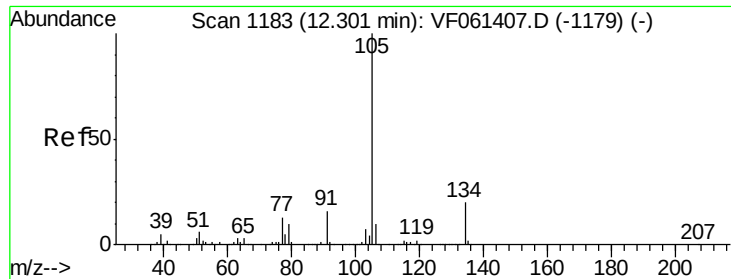
MMDadoda
 2/12/2019 2:32:07 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 20.847 ug/l
 RT: 12.20 min Scan# 1173
 Delta R.T. -0.00 min
 Lab File: VF061562.D
 Acq: 8 Feb 2019 17:19

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	193211		
120	45.7	24.9	74.6	





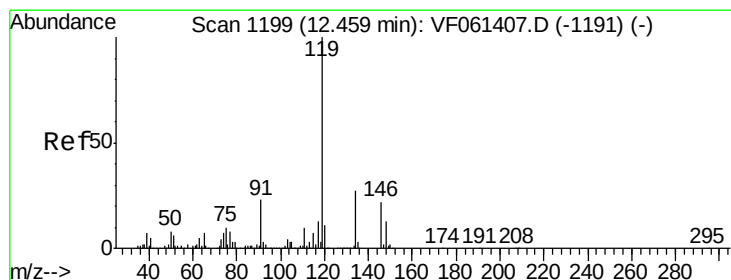
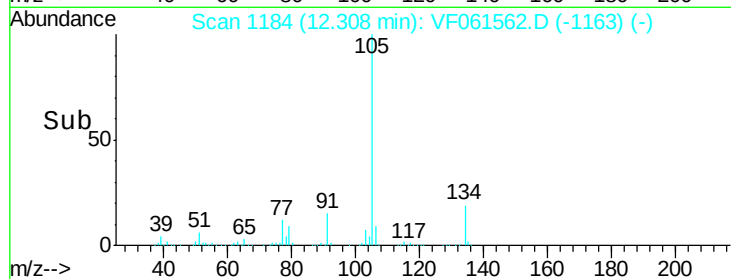
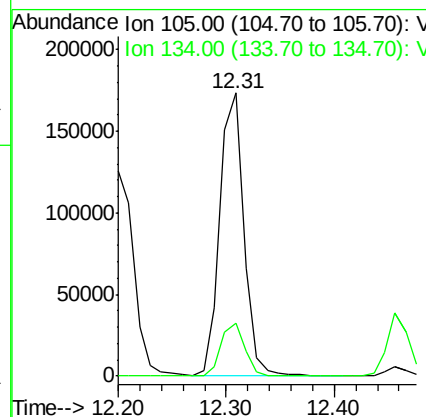
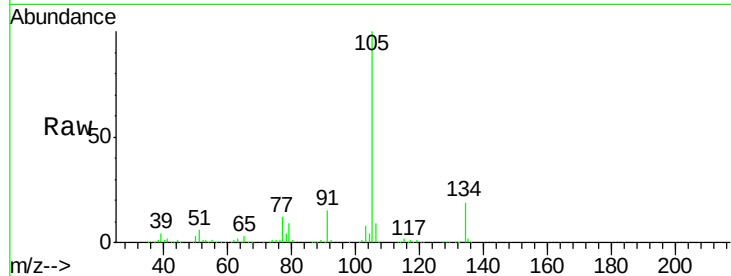
#85
 sec-Butylbenzene
 Concen: 21.125 ug/l
 RT: 12.31 min Scan# 1184
 Delta R.T. 0.01 min
 Lab File: VF061562.D
 Acq: 8 Feb 2019 17:19

Instrument :
 MSVOA_F
 ClientSampleID :
 VF0208SBSD01

Tot Ion	Ratio	Lower	Upper
105	100		
134	18.7	10.0	30.0

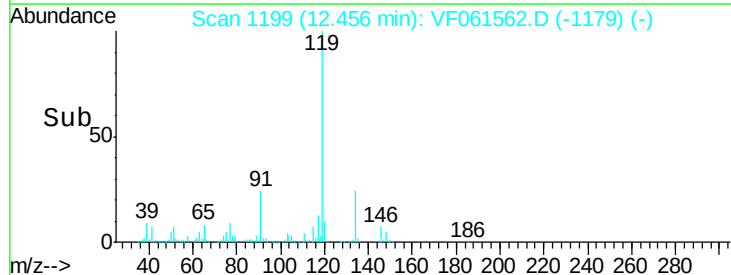
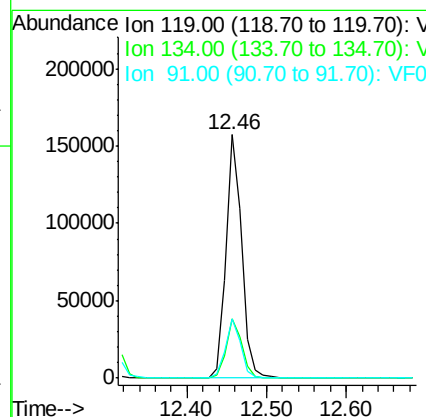
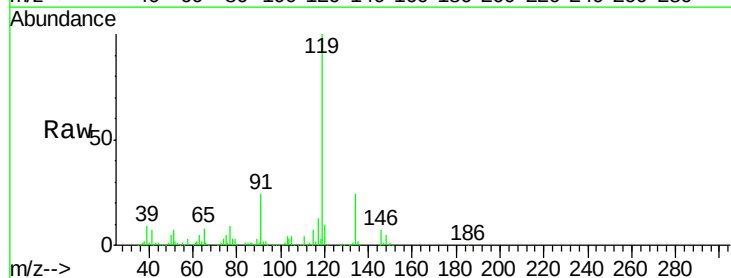
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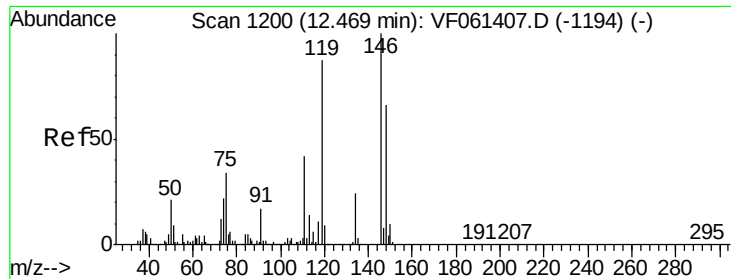
MMDadoda
 2/12/2019 2:32:07 AM



#86
 p-Isopropyltoluene
 Concen: 21.271 ug/l
 RT: 12.46 min Scan# 1199
 Delta R.T. -0.00 min
 Lab File: VF061562.D
 Acq: 8 Feb 2019 17:19

Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.4	13.4	40.2
91	24.3	11.4	34.2





#87

1,3-Dichlorobenzene

Concen: 18.670 ug/l

RT: 12.48 min Scan# 1201

Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

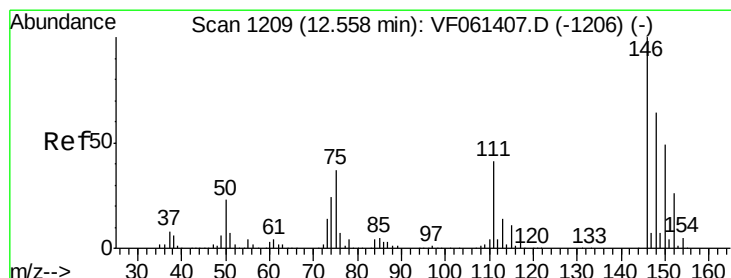
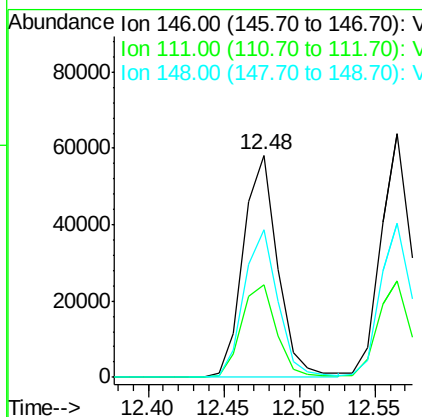
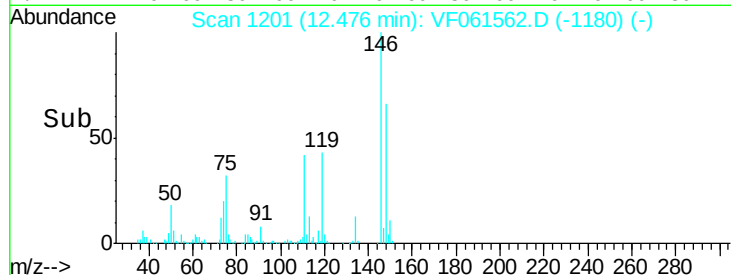
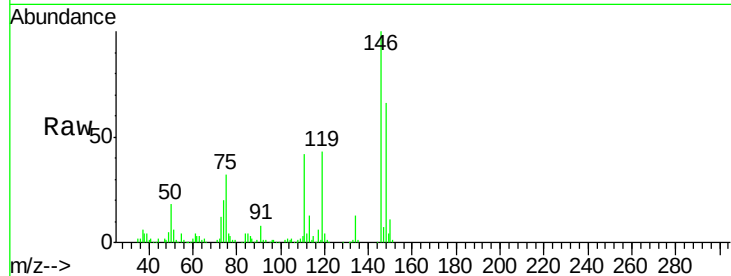
ClientSampleId :

VF0208SBSD01

Tot Ion:	146	Resp:	92497
Ion Ratio	Lower	Upper	
146	100		
111	41.7	21.1	63.4
148	66.3	32.9	98.6

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#88

1,4-Dichlorobenzene

Concen: 20.873 ug/l

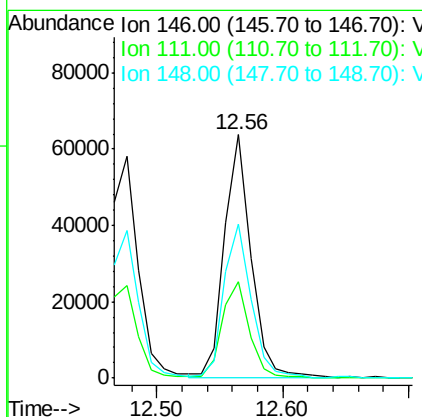
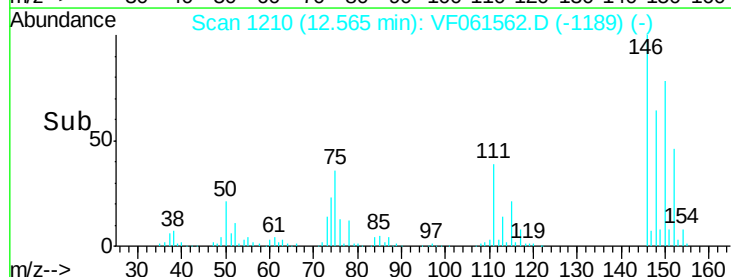
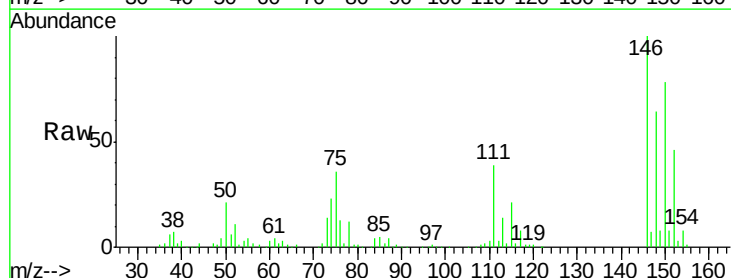
RT: 12.56 min Scan# 1210

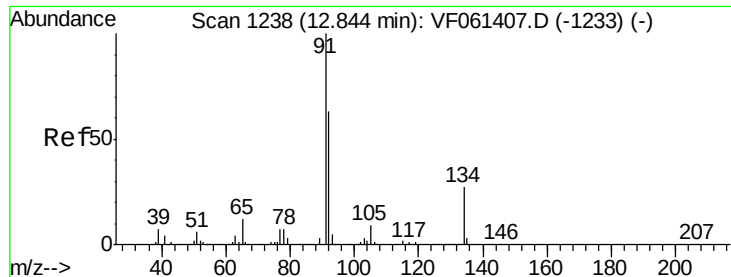
Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Tgt Ion:	146	Resp:	92873
Ion Ratio	Lower	Upper	
146	100		
111	39.4	20.8	62.2
148	63.5	32.1	96.5





#89

n-Butylbenzene

Concen: 21.371 ug/l

RT: 12.84 min Scan# 1238

Delta R.T. -0.00 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Instrument :

MSVOA_F

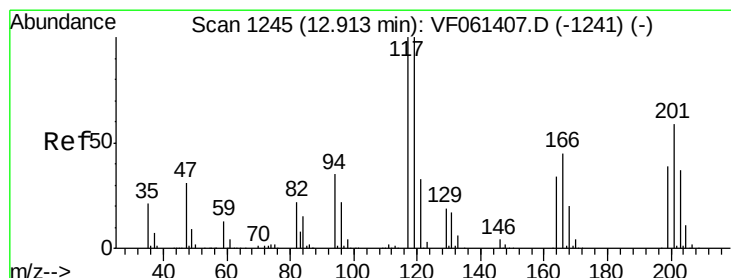
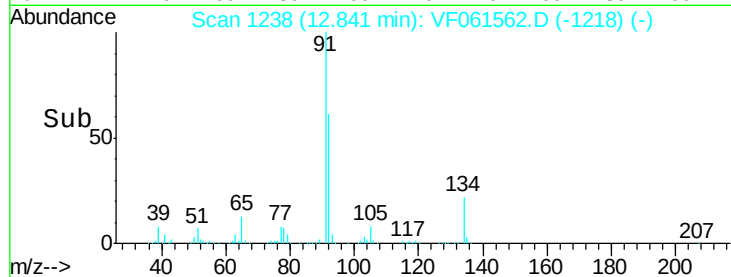
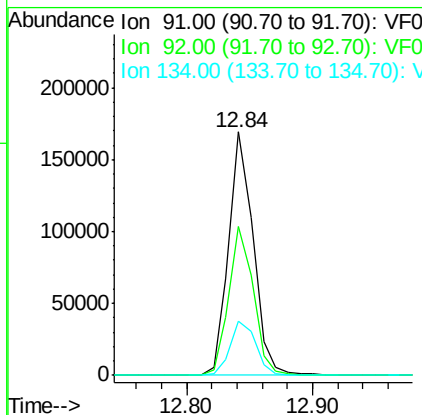
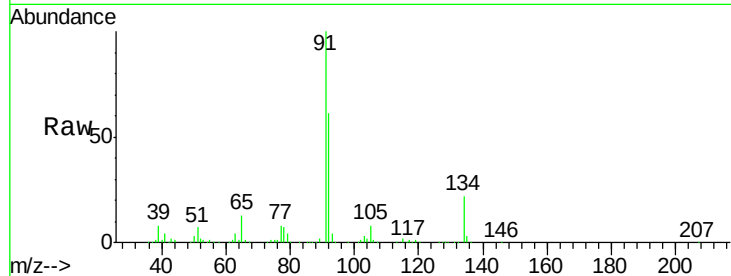
ClientSampleId :

VF0208SBS01

Tot Ion:	91	Resp:	228810
Ion	Ratio	Lower	Upper
91	100		
92	61.1	31.6	94.7
134	22.1	13.6	40.8

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#90

Hexachloroethane

Concen: 20.760 ug/l

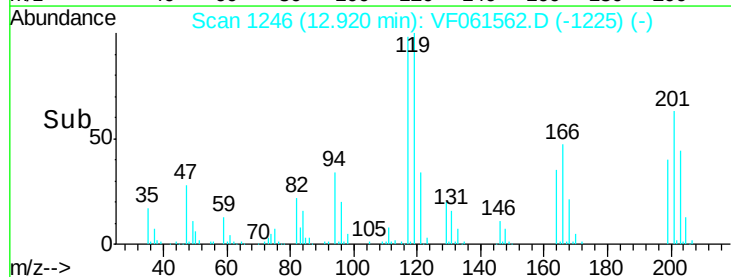
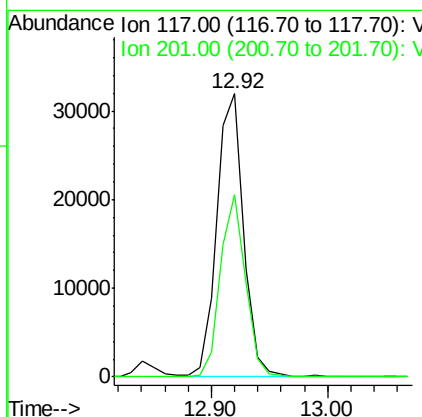
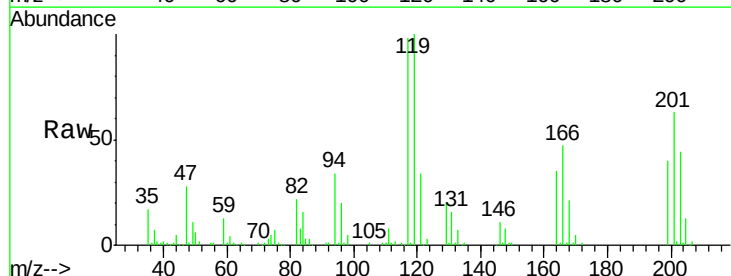
RT: 12.92 min Scan# 1246

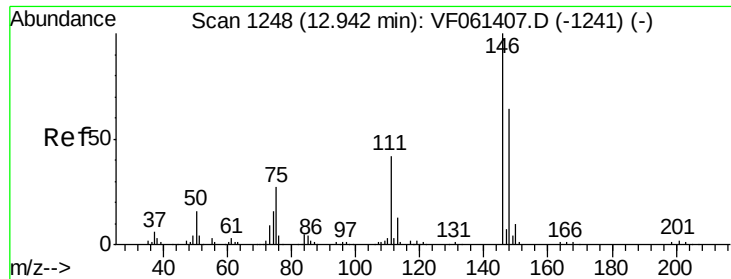
Delta R.T. 0.01 min

Lab File: VF061562.D

Acq: 8 Feb 2019 17:19

Tgt Ion:	117	Resp:	50804
Ion	Ratio	Lower	Upper
117	100		
201	64.2	29.3	87.8





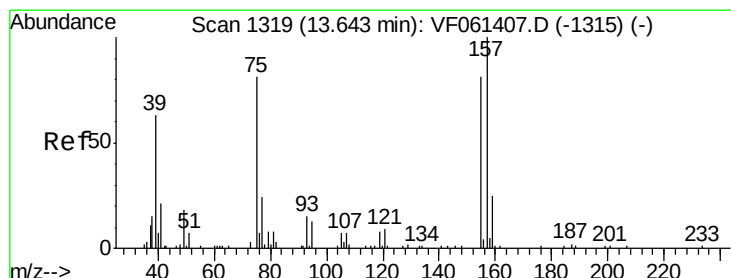
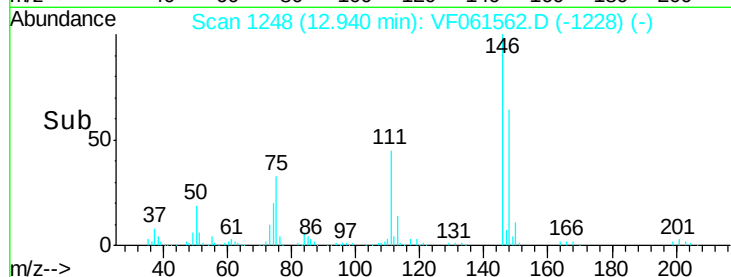
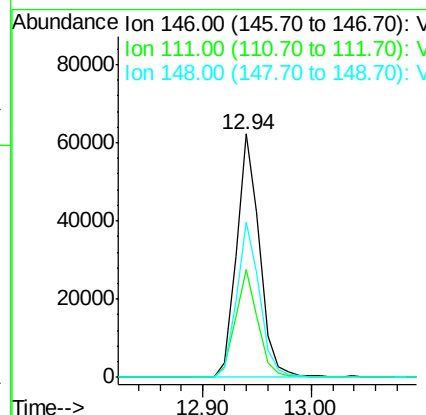
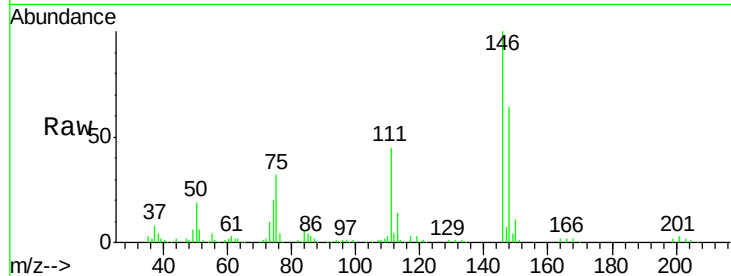
#91
 1,2-Dichlorobenzene
 Concen: 20.902 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VF061562.D
 Acq: 8 Feb 2019 17:19

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0208SBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.5	21.1	63.3
148	64.0	31.9	95.7

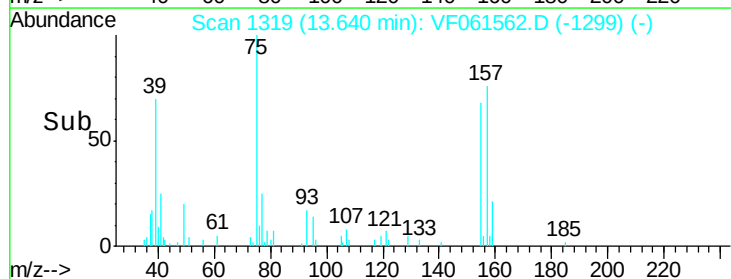
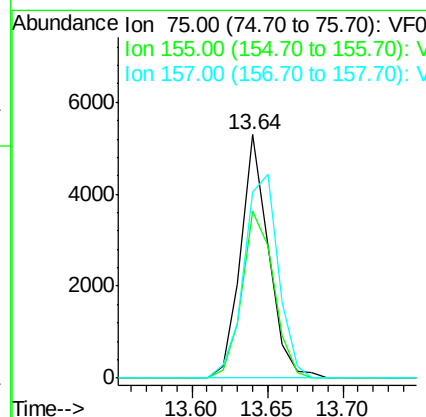
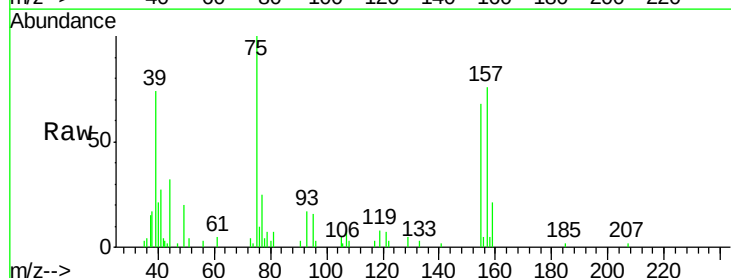
Manual Integrations
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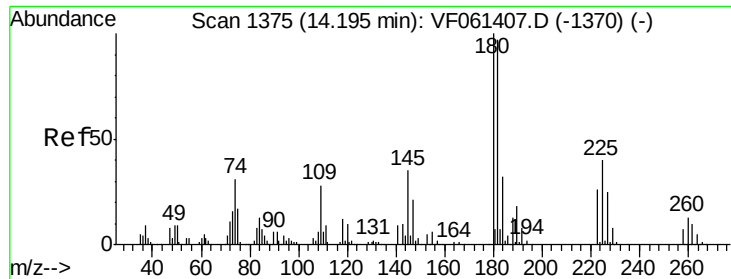
MMDadoda
 2/12/2019 2:32:07 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.320 ug/l
 RT: 13.64 min Scan# 1319
 Delta R.T. -0.00 min
 Lab File: VF061562.D
 Acq: 8 Feb 2019 17:19

Tgt Ion	Ratio	Lower	Upper
75	100		
155	68.4	49.7	149.1
157	76.4	61.4	184.1





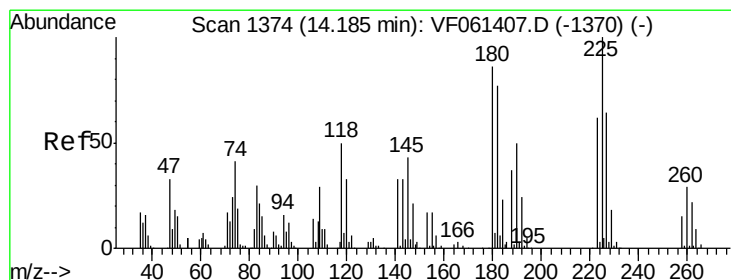
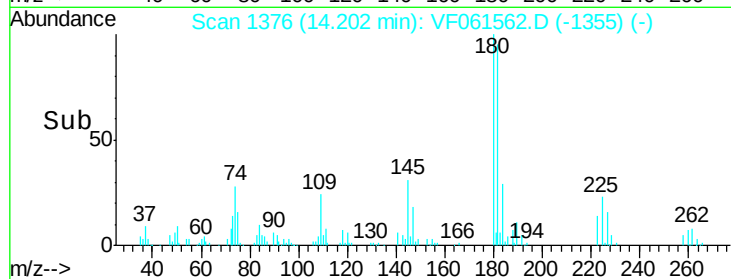
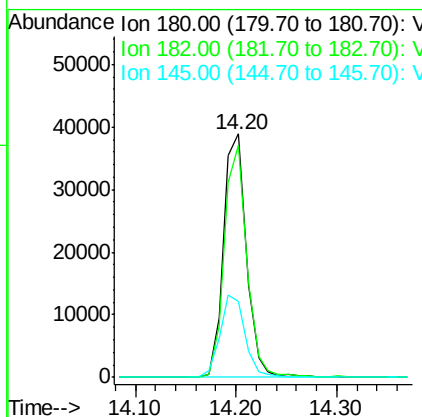
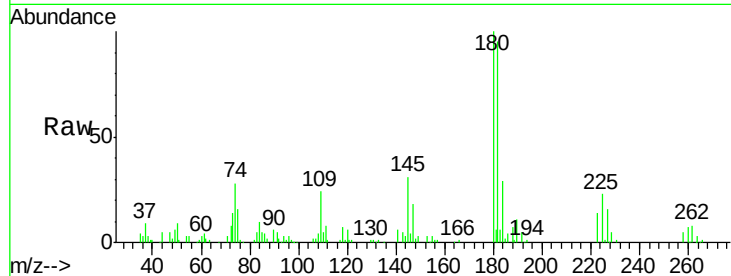
#93
 1,2,4-Trichlorobenzene
 Concen: 20.056 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. 0.01 min
 Lab File: VF061562.D
 Acq: 8 Feb 2019 17:19

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0208SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	61883		
182	95.1	48.5	145.6	
145	31.2	17.5	52.6	

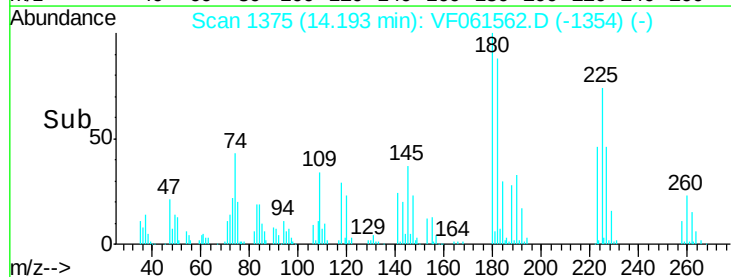
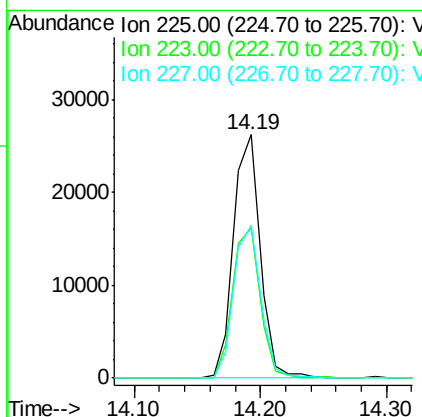
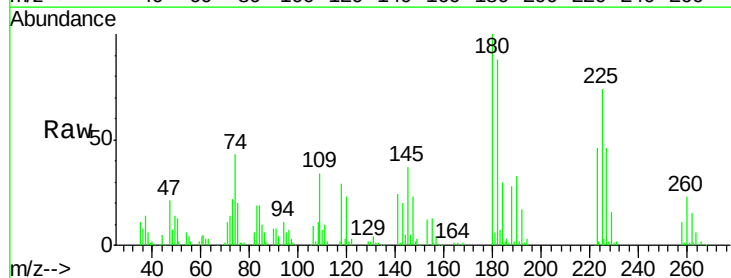
Manual Integrations
 APPROVED

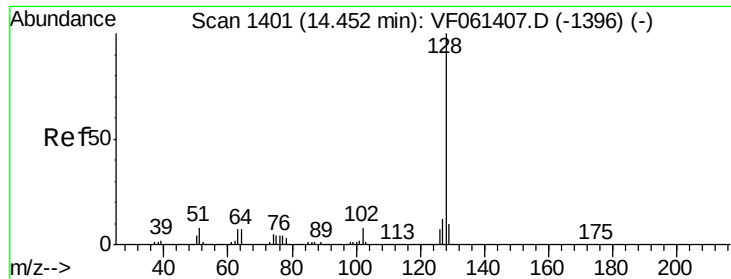
MMDadoda
 2/12/2019 2:32:07 AM



#94
 Hexachlorobutadiene
 Concen: 20.062 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. 0.01 min
 Lab File: VF061562.D
 Acq: 8 Feb 2019 17:19

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	38412		
223	61.7	31.1	93.2	
227	62.5	32.2	96.6	





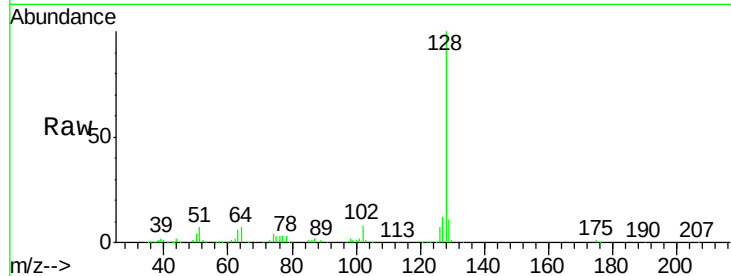
#95
Naphthalene
Concen: 18.912 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. 0.01 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

Instrument :
MSVOA_F
ClientSampleId :
VF0208SBSD01

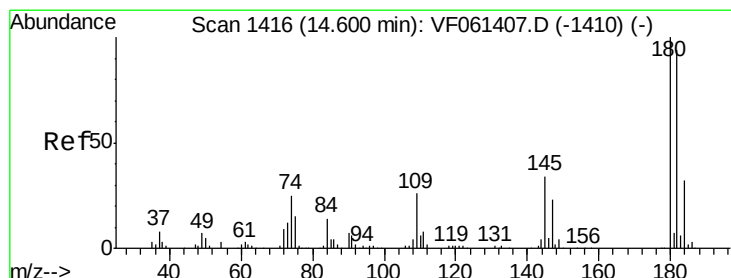
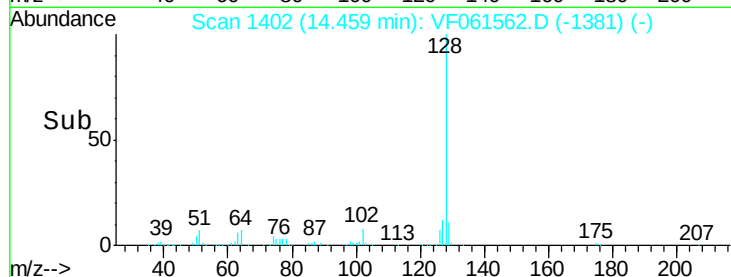
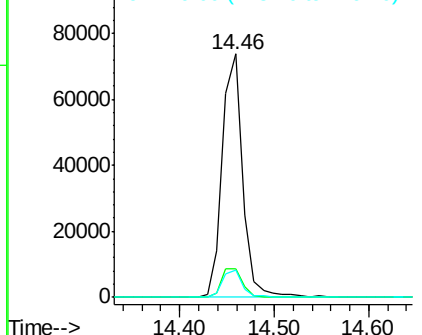
Tot Ion	Ratio	Resp	Lower	Upper
128	100	110870		
127	12.0		9.5	14.3
129	11.1		8.4	12.6

Manual Integrations
APPROVED

MMDadoda
2/12/2019 2:32:07 AM

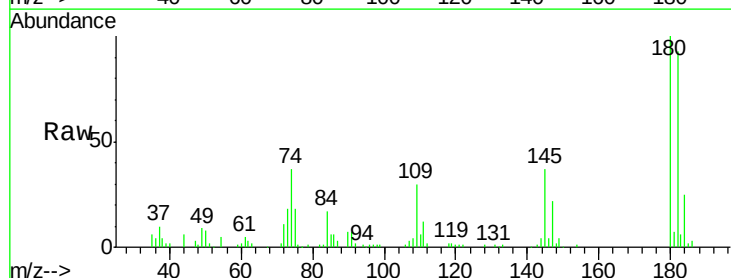


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 19.487 ug/l
RT: 14.60 min Scan# 1416
Delta R.T. -0.00 min
Lab File: VF061562.D
Acq: 8 Feb 2019 17:19

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	55661		
182	92.5		47.0	141.2
145	36.9		17.1	51.2



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

