

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF021819\
 Data File : VF061672.D
 Acq On : 18 Feb 2019 12:10
 Operator : VA/AP
 Sample : VF0218SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0218SBS01

Manual Integrations
 APPROVED

MMDadoda
 2/19/2019 12:29:13 PM

Quant Time: Feb 19 02:42:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	359367	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	511080	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	455689	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	248657	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.85	65	125591	47.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.32%	
35) Dibromofluoromethane	4.12	113	185391	48.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.70%	
50) Toluene-d8	7.56	98	531924	48.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.50%	
62) 4-Bromofluorobenzene	11.42	95	216023	48.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.86%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	95956	23.251	ug/l	99
3) Chloromethane	1.10	50	90587	20.920	ug/l	94
4) Vinyl Chloride	1.14	62	87740	21.797	ug/l	99
5) Bromomethane	1.33	94	54240	19.578	ug/l	86
6) Chloroethane	1.40	64	37321	18.814	ug/l	93
7) Trichlorofluoromethane	1.49	101	97683	20.120	ug/l	99
8) Diethyl Ether	1.63	74	21341	17.442	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	1.84	101	72010	20.560	ug/l	96
10) Methyl Iodide	1.91	142	129528m	19.360	ug/l	
11) Tert butyl alcohol	2.58	59	13460	88.254	ug/l	99
12) 1,1-Dichloroethene	1.79	96	59996	19.483	ug/l	94
13) Acrolein	2.01	56	17309	90.300	ug/l #	82
14) Allyl chloride	2.10	41	72126	19.087	ug/l	97
15) Acrylonitrile	2.95	53	42725	78.978	ug/l	98
16) Acetone	2.25	43	51384	90.878	ug/l	94
17) Carbon Disulfide	1.82	76	188714m	19.496	ug/l	
18) Methyl Acetate	2.35	43	16738m	13.141	ug/l	
19) Methyl tert-butyl Ether	2.43	73	96521	18.340	ug/l	95
20) Methylene Chloride	2.19	84	62729m	19.149	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	64599	19.297	ug/l	99
22) Diisopropyl ether	2.81	45	172458	19.013	ug/l	97
23) Vinyl Acetate	3.19	43	381819	86.182	ug/l	96
24) 1,1-Dichloroethane	2.88	63	106771	19.451	ug/l	99
25) 2-Butanone	4.34	43	108879	88.158	ug/l	94
26) 2,2-Dichloropropane	3.60	77	48816	20.995	ug/l	98
27) cis-1,2-Dichloroethene	3.48	96	87414	19.894	ug/l	98
28) Bromochloromethane	3.72	49	45397	17.236	ug/l	95
29) Tetrahydrofuran	4.09	42	45395	80.869	ug/l	99
30) Chloroform	3.86	83	126001	20.184	ug/l	99
31) Cyclohexane	3.70	56	115700m	19.470	ug/l	
32) 1,1,1-Trichloroethane	4.10	97	81883	20.024	ug/l	99
36) 1,1-Dichloropropene	4.29	75	100336	19.818	ug/l	93
37) Ethyl Acetate	4.12	43	44758	19.033	ug/l #	80
38) Carbon Tetrachloride	4.00	117	74222	21.231	ug/l	92

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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	5.46	83	123594	20.641	ug/l	95
40) Benzene	4.64	78	268978	20.311	ug/l	100
41) Methacrylonitrile	4.75	41	21731	18.070	ug/l	93
42) 1,2-Dichloroethane	4.95	62	62381	19.693	ug/l	96
43) Isopropyl Acetate	6.97	43	49610	17.823	ug/l	95
44) Trichloroethene	5.51	130	87752	20.491	ug/l	94
45) 1,2-Dichloropropane	6.24	63	68020	21.250	ug/l	99
46) Dibromomethane	6.09	93	38369	19.468	ug/l	90
47) Bromodichloromethane	6.39	83	88256	20.449	ug/l	92
48) Methyl methacrylate	6.72	41	32201	19.223	ug/l	98
49) 1,4-Dioxane	6.71	88	5574	353.977	ug/l #	92
51) 4-Methyl-2-Pentanone	8.27	43	181807	91.410	ug/l	97
52) Toluene	7.63	92	165216	20.571	ug/l	100
53) t-1,3-Dichloropropene	8.28	75	75738	21.085	ug/l	100
54) cis-1,3-Dichloropropene	7.31	75	101314	21.175	ug/l	99
55) 1,1,2-Trichloroethane	8.50	97	43773	18.550	ug/l	97
56) Ethyl methacrylate	8.63	69	50824	19.345	ug/l	98
57) 1,3-Dichloropropane	8.86	76	78377	19.899	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.30	63	39824	87.855	ug/l	99
59) 2-Hexanone	9.50	43	130425	93.549	ug/l	99
60) Dibromochloromethane	8.72	129	63545	19.347	ug/l	96
61) 1,2-Dibromoethane	8.99	107	50645	19.787	ug/l	98
64) Tetrachloroethene	8.16	164	83053	22.298	ug/l	97
65) Chlorobenzene	9.81	112	189738	20.519	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.94	131	75062	20.716	ug/l	96
67) Ethyl Benzene	9.91	91	332346	21.612	ug/l	99
68) m/p-Xylenes	10.13	106	256596	43.600	ug/l	97
69) o-Xylene	10.72	106	133408	21.244	ug/l	95
70) Styrene	10.79	104	191014	21.501	ug/l	99
71) Bromoform	10.78	173	35841	18.216	ug/l	95
73) Isopropylbenzene	11.13	105	381714	21.561	ug/l	100
74) N-amyl acetate	11.38	43	78431	18.457	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.70	83	57315	18.071	ug/l	96
76) 1,2,3-Trichloropropane	11.80	75	39949	18.526	ug/l	98
77) Bromobenzene	11.49	156	88049	20.132	ug/l	90
78) n-propylbenzene	11.59	91	455127	22.403	ug/l	96
79) 2-Chlorotoluene	11.72	91	232868	20.467	ug/l	95
80) 1,3,5-Trimethylbenzene	11.83	105	296595	20.961	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.87	75	20172m	19.512	ug/l	
82) 4-Chlorotoluene	11.90	91	248092	21.008	ug/l	93
83) tert-Butylbenzene	12.14	119	336765	21.488	ug/l	99
84) 1,2,4-Trimethylbenzene	12.20	105	313066	22.270	ug/l	97
85) sec-Butylbenzene	12.31	105	448746	22.142	ug/l	99
86) p-Isopropyltoluene	12.46	119	385580	22.670	ug/l	98
87) 1,3-Dichlorobenzene	12.48	146	179062	21.001	ug/l	98
88) 1,4-Dichlorobenzene	12.57	146	171266	20.886	ug/l	98
89) n-Butylbenzene	12.85	91	365030	22.728	ug/l	97
90) Hexachloroethane	12.92	117	85367	21.580	ug/l	90
91) 1,2-Dichlorobenzene	12.94	146	165020	20.348	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.64	75	8525	16.953	ug/l	93

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ClientSampleId :
VF0218SBS01

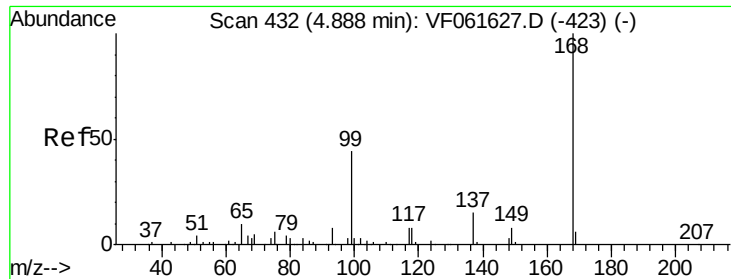
Manual Integrations
APPROVED

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Quant Title : SW846 8260
QLast Update : Thu Feb 14 03:27:56 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	117217	20.164	ug/l	97
94) Hexachlorobutadiene	14.20	225	77795	21.669	ug/l	99
95) Naphthalene	14.46	128	183714	18.063	ug/l	99
96) 1,2,3-Trichlorobenzene	14.61	180	106543	19.969	ug/l	97

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



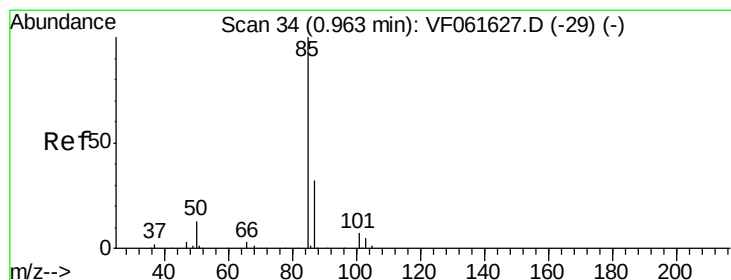
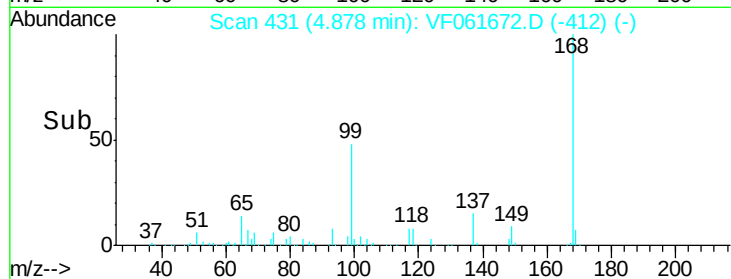
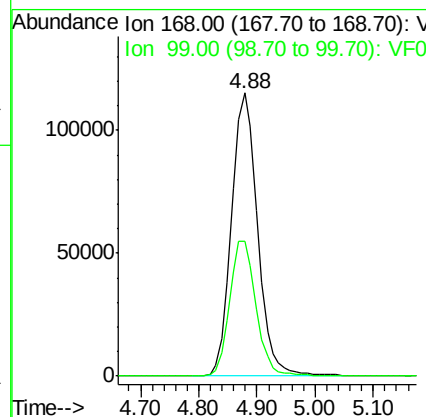
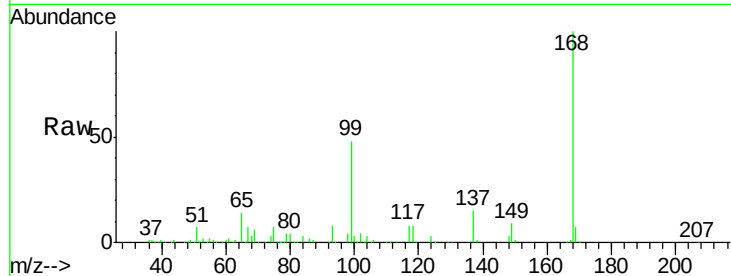
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.88 min Scan# 431
Delta R.T. -0.01 min
Lab File: VF061672.D
Acq: 18 Feb 2019 12:10

Instrument :
MSVOA_F
ClientSampleId :
VF0218SBS01

Tot Ion	Ratio	Lower	Upper
168	100		
99	47.6	34.9	52.3

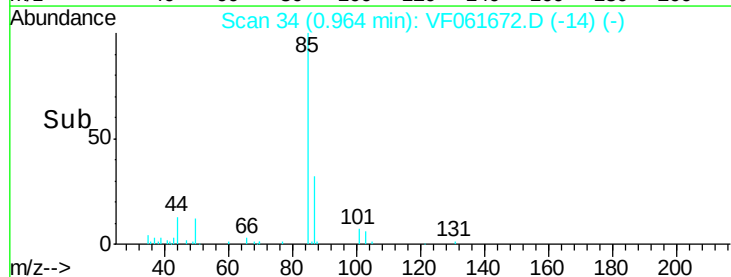
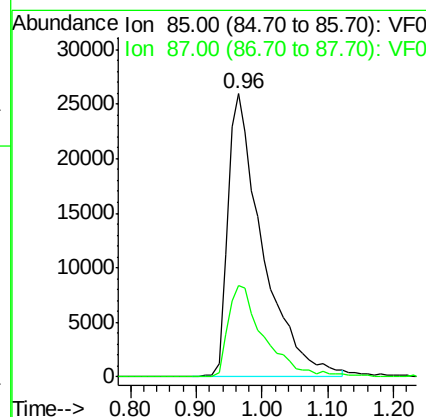
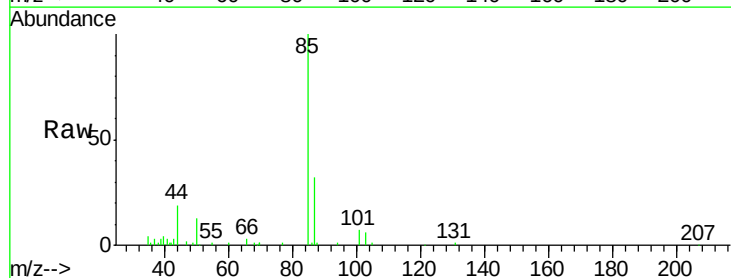
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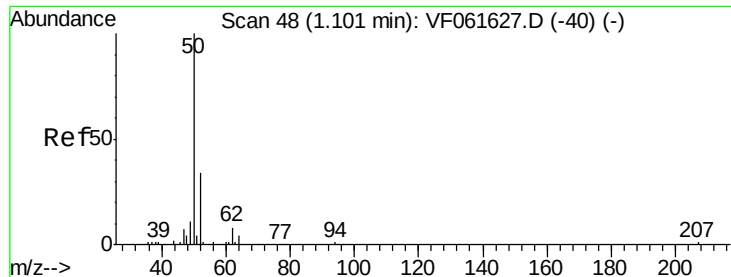
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2/19/2019 12:29:13 PM



#2
Dichlorodifluoromethane
Concen: 23.251 ug/l
RT: 0.96 min Scan# 34
Delta R.T. 0.00 min
Lab File: VF061672.D
Acq: 18 Feb 2019 12:10

Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.5	16.1	48.2





#3

Chloromethane

Concen: 20.920 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Instrument :

MSVOA_F

ClientSampleId :

VF0218SBS01

Tot Ion: 50 Resp: 90587

Ion Ratio Lower Upper

50 100

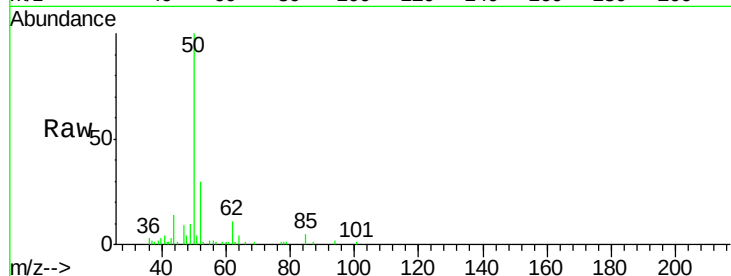
52 29.5 26.2 39.4

Manual Integrations

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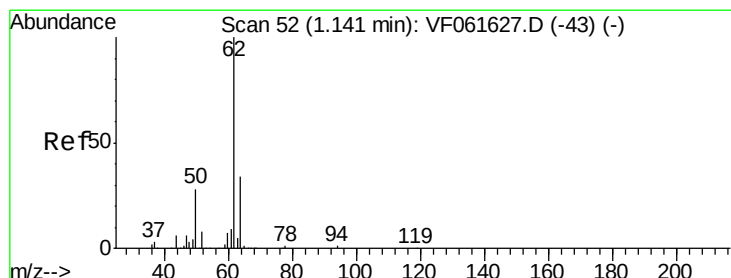
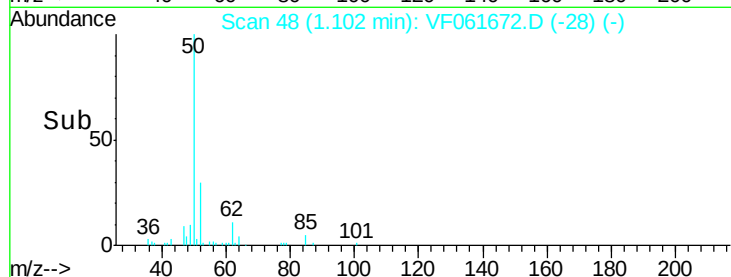
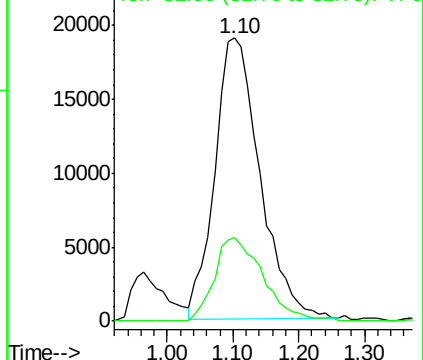
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Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 21.797 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.00 min

Lab File: VF061672.D

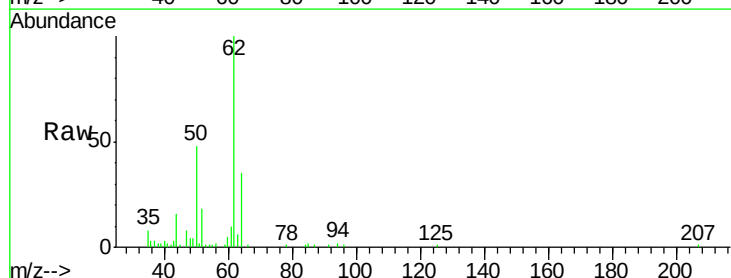
Acq: 18 Feb 2019 12:10

Tgt Ion: 62 Resp: 87740

Ion Ratio Lower Upper

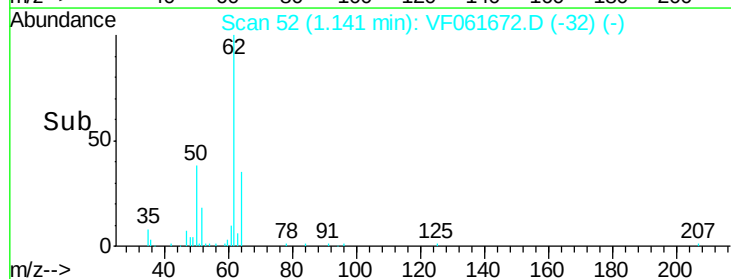
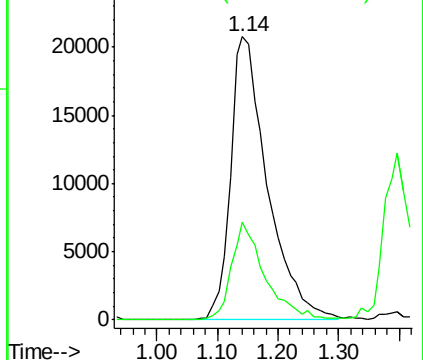
62 100

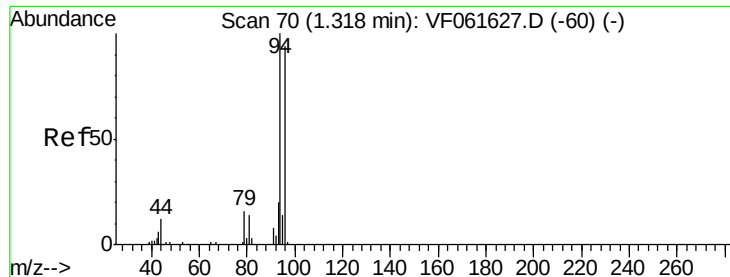
64 34.7 27.5 41.3



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 19.578 ug/l

RT: 1.33 min Scan# 71

Delta R.T. 0.01 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Instrument :

MSVOA_F

ClientSampleId :

VF0218SBS01

Tot Ion: 94 Resp: 54240

Ion Ratio Lower Upper

94 100

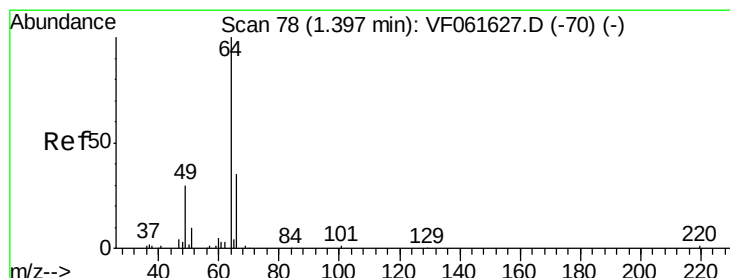
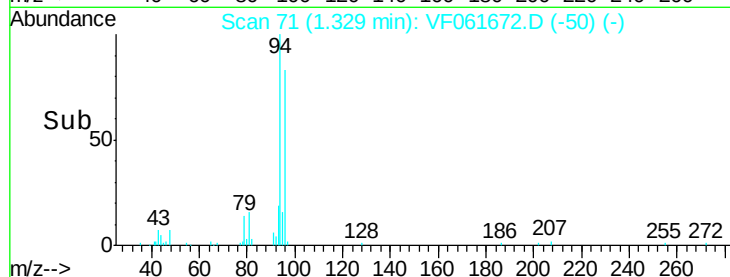
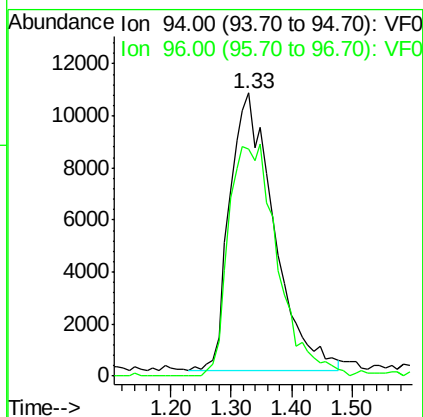
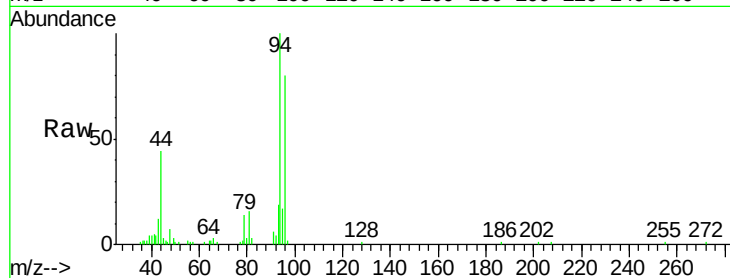
96 80.3 74.6 112.0

Manual Integrations

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#6

Chloroethane

Concen: 18.814 ug/l

RT: 1.40 min Scan# 78

Delta R.T. 0.00 min

Lab File: VF061672.D

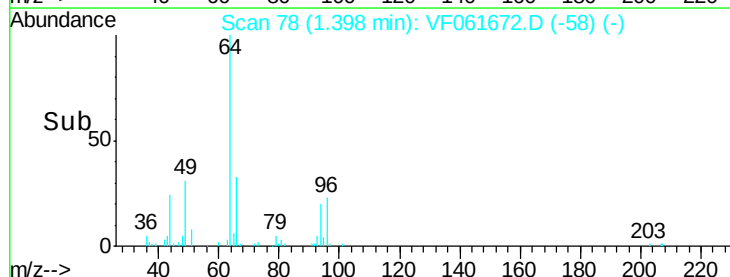
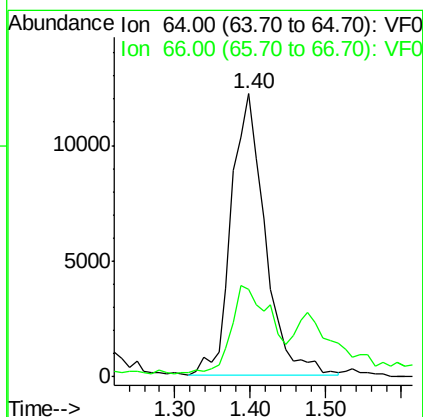
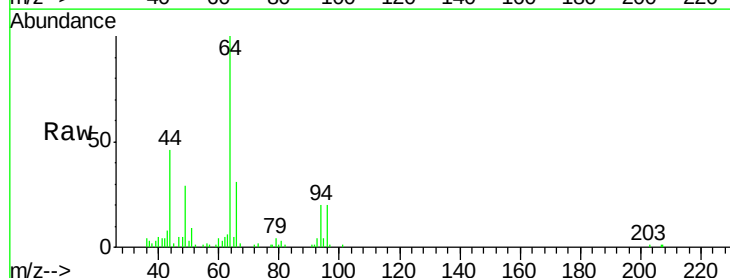
Acq: 18 Feb 2019 12:10

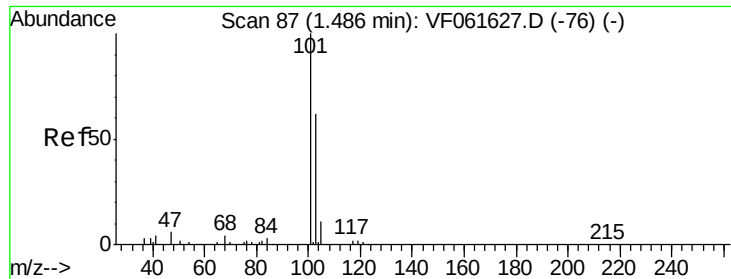
Tgt Ion: 64 Resp: 37321

Ion Ratio Lower Upper

64 100

66 31.0 27.9 41.9





#7

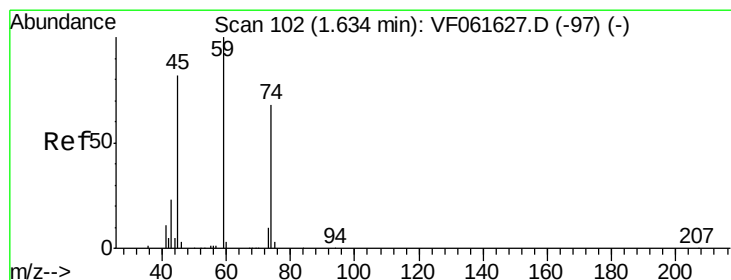
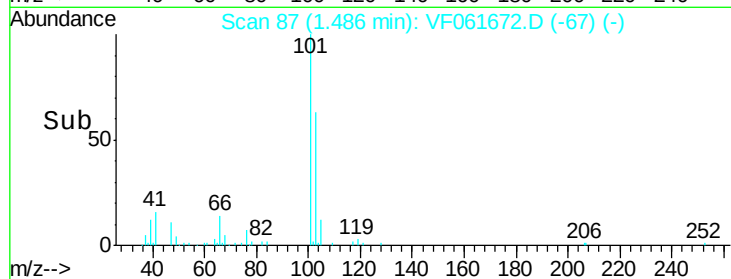
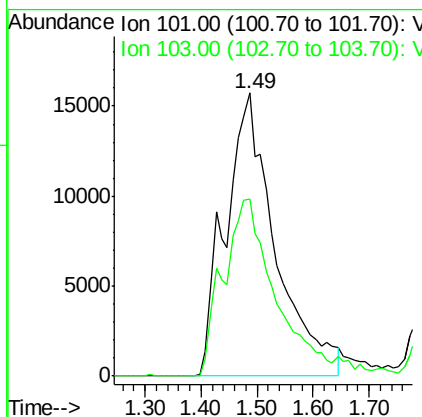
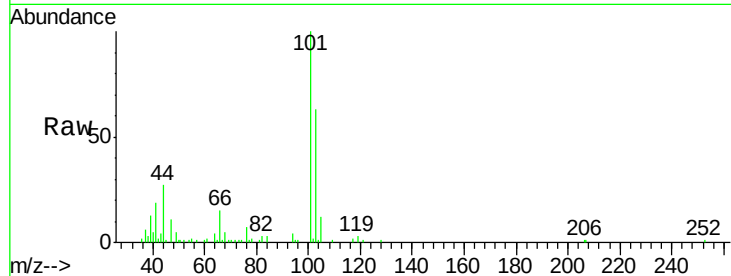
Trichlorofluoromethane
Concen: 20.120 ug/l
RT: 1.49 min Scan# 87
Delta R.T. 0.00 min
Lab File: VF061672.D
Acq: 18 Feb 2019 12:10

Instrument :
MSVOA_F
ClientSampleId :
VF0218SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	62.5	49.3	73.9

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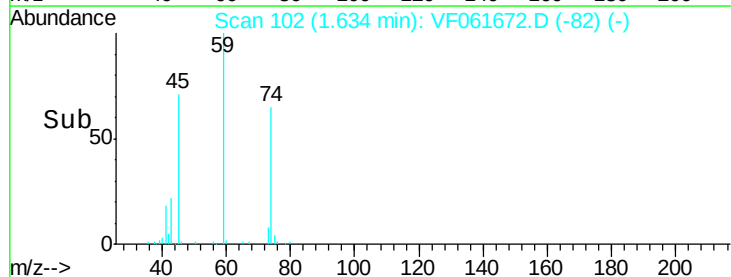
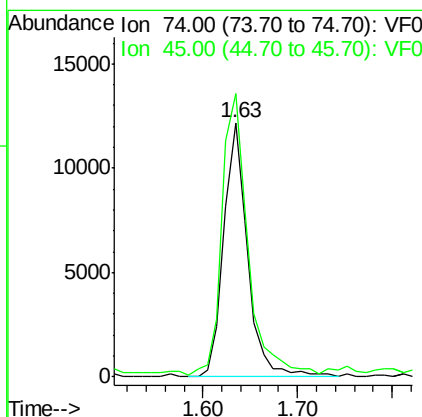
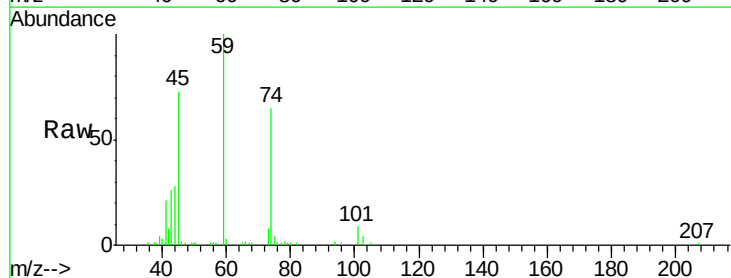
MMDadoda
2/19/2019 12:29:13 PM

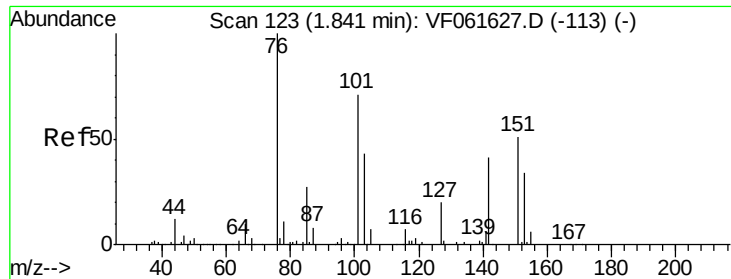


#8

Diethyl Ether
Concen: 17.442 ug/l
RT: 1.63 min Scan# 102
Delta R.T. 0.00 min
Lab File: VF061672.D
Acq: 18 Feb 2019 12:10

Tgt Ion	Ratio	Lower	Upper
74	100		
45	111.4	60.8	182.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.560 ug/l

RT: 1.84 min Scan# 123

Delta R.T. 0.00 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Instrument :

MSVOA_F

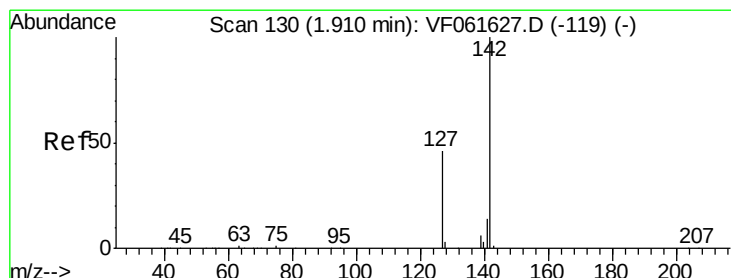
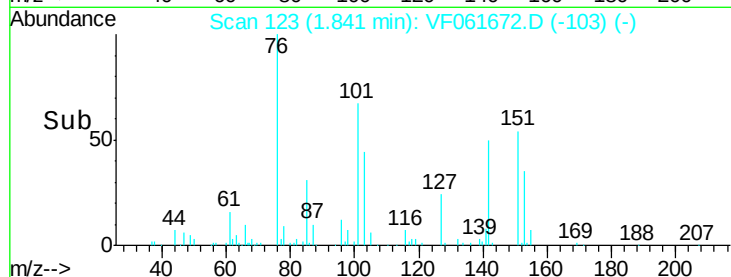
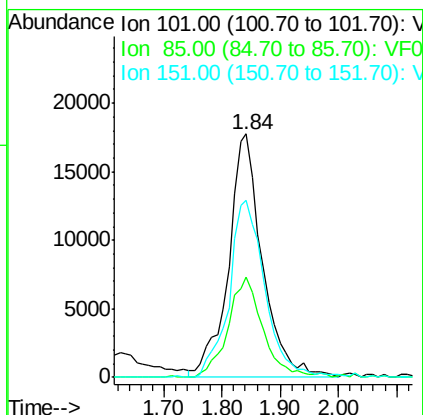
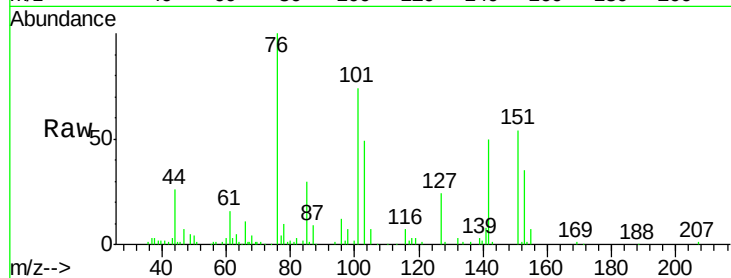
ClientSampleId :

VF0218SBS01

Tot Ion:	101	Resp:	72010
Ion Ratio	Lower	Upper	
101	100		
85	41.3	29.8	44.6
151	72.9	56.3	84.5

Manual Integrations
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2/19/2019 12:29:13 PM



#10

Methyl Iodide

Concen: 19.360 ug/l m

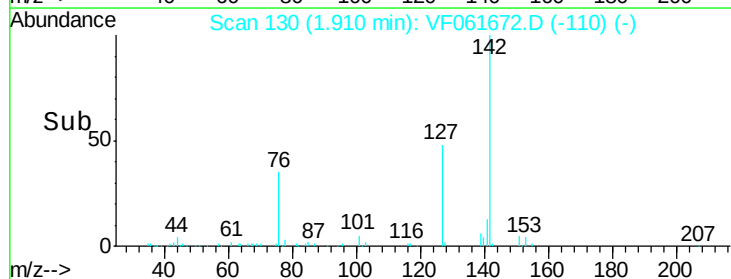
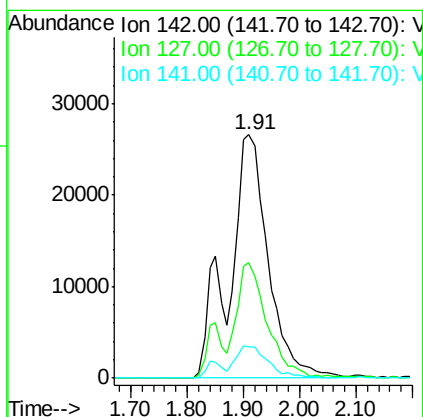
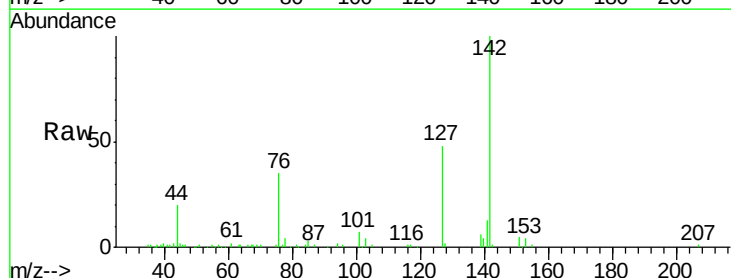
RT: 1.91 min Scan# 130

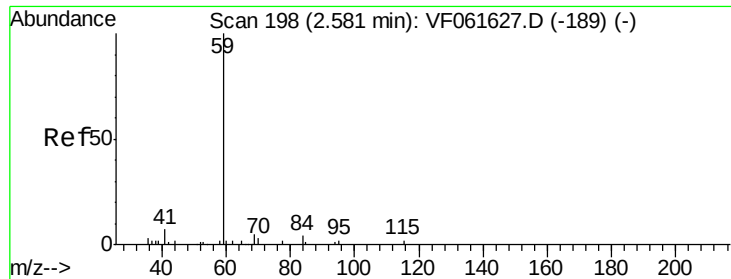
Delta R.T. 0.00 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Tgt Ion:	142	Resp:	129528
Ion Ratio	Lower	Upper	
142	100		
127	47.7	36.6	55.0
141	12.9	11.0	16.6





#11

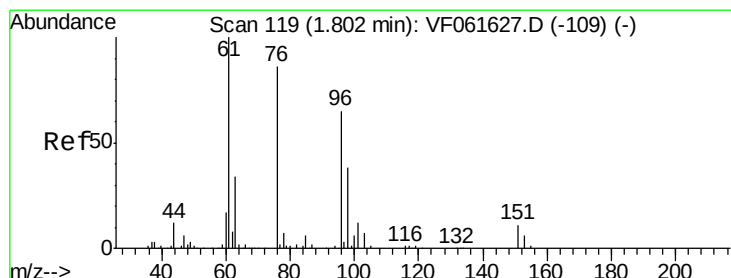
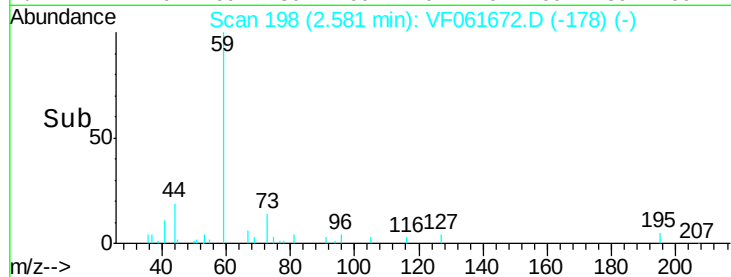
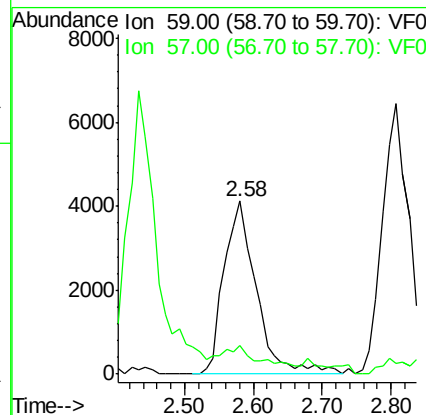
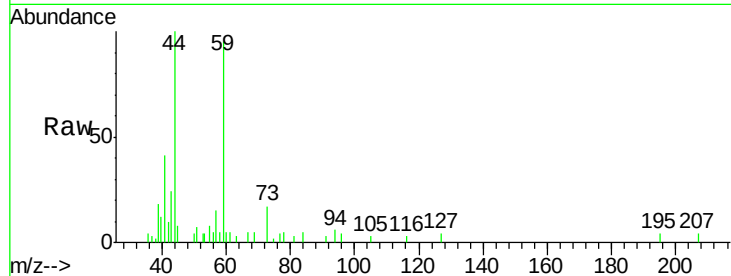
Tert butyl alcohol
Concen: 88.254 ug/l
RT: 2.58 min Scan# 198
Delta R.T. 0.00 min
Lab File: VF061672.D
Acq: 18 Feb 2019 12:10

Instrument :
MSVOA_F
ClientSampleId :
VF0218SBS01

Tot Ion	59	Resp	13460
Ion Ratio	100	Lower	Upper
57	16.2	12.5	18.7

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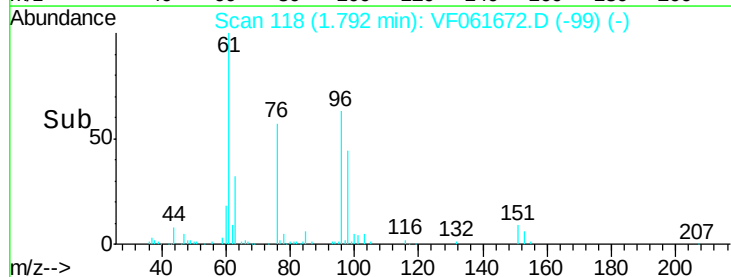
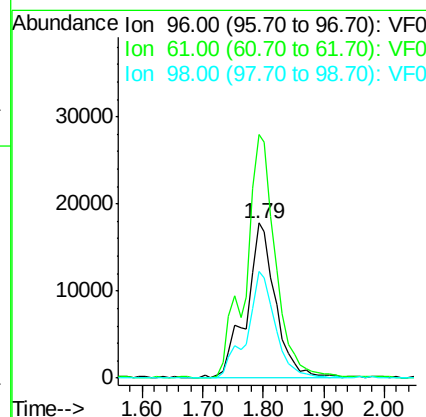
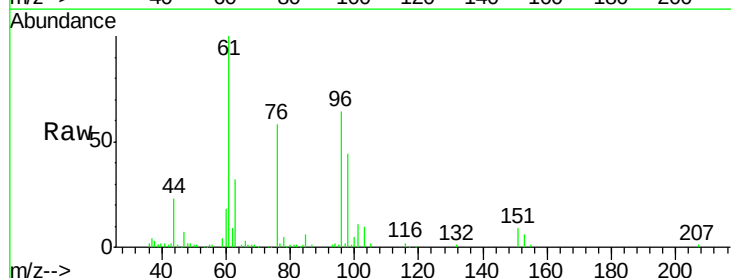
MMDadoda
2/19/2019 12:29:13 PM

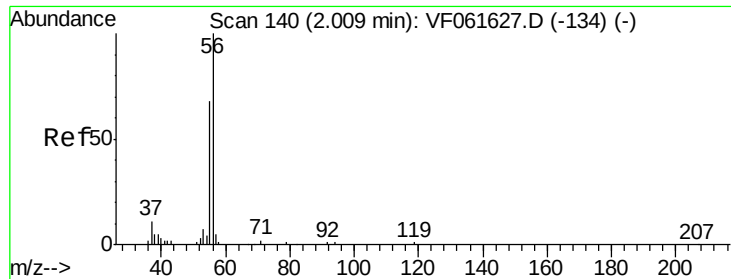


#12

1,1-Dichloroethene
Concen: 19.483 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.01 min
Lab File: VF061672.D
Acq: 18 Feb 2019 12:10

Tgt Ion	96	Resp	59996
Ion Ratio	100	Lower	Upper
61	157.1	122.6	184.0
98	68.6	47.2	70.8





#13

Acrolein

Concen: 90.300 ug/l

RT: 2.01 min Scan# 140

Delta R.T. 0.00 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Instrument :

MSVOA_F

ClientSampleId :

VF0218SBS01

Tot Ion: 56 Resp: 17309

Ion Ratio Lower Upper

56 100

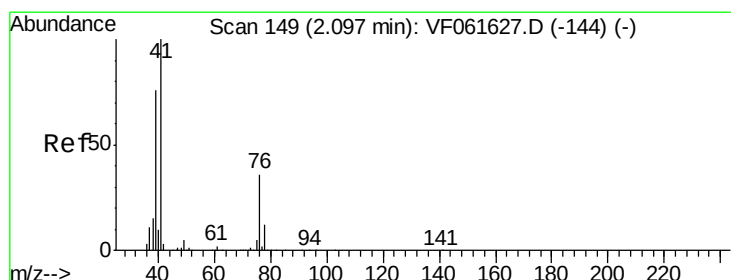
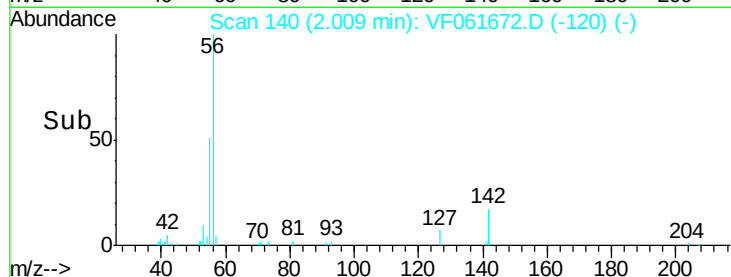
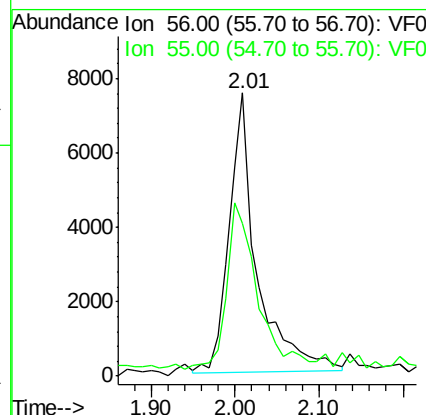
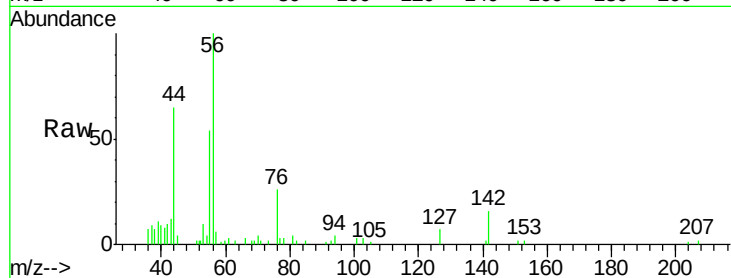
55 54.0 55.0 82.6#

Manual Integrations

APPROVED

MMDadoda

2/19/2019 12:29:13 PM



#14

Allyl chloride

Concen: 19.087 ug/l

RT: 2.10 min Scan# 149

Delta R.T. 0.00 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

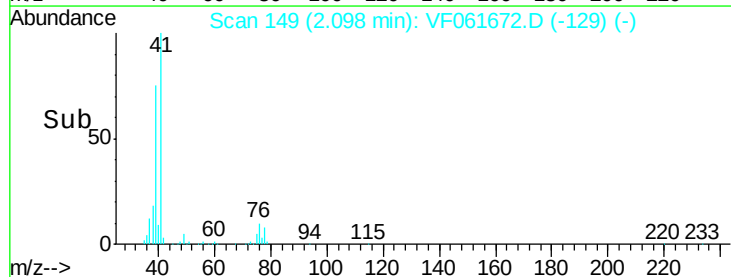
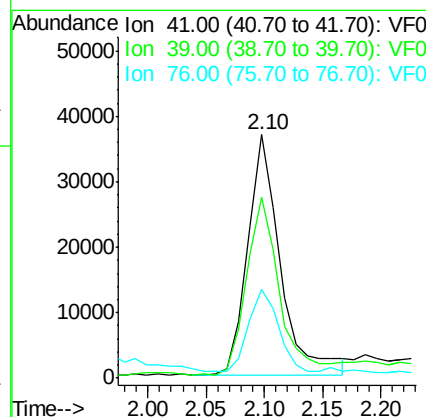
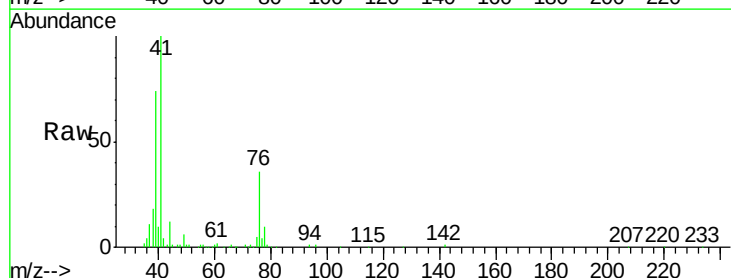
Tgt Ion: 41 Resp: 72126

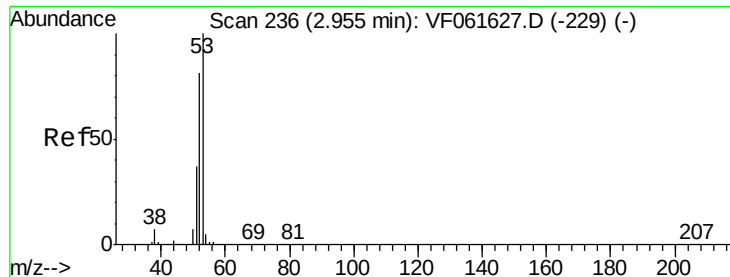
Ion Ratio Lower Upper

41 100

39 74.2 61.6 92.4

76 36.4 30.3 45.5





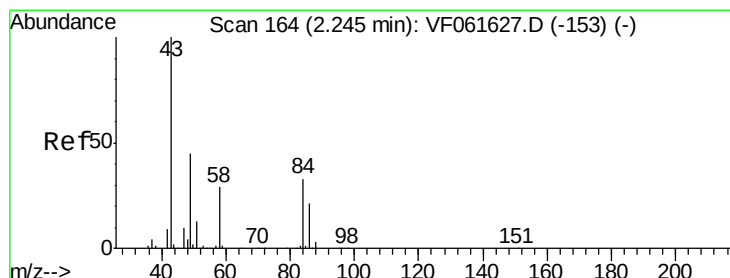
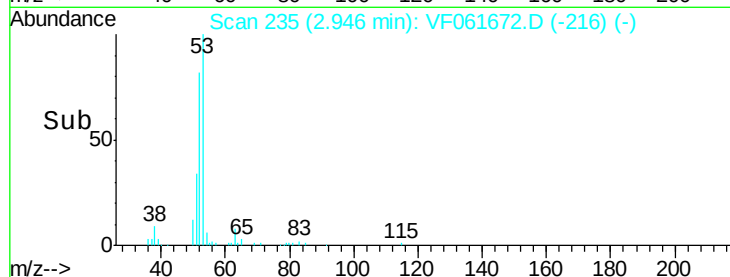
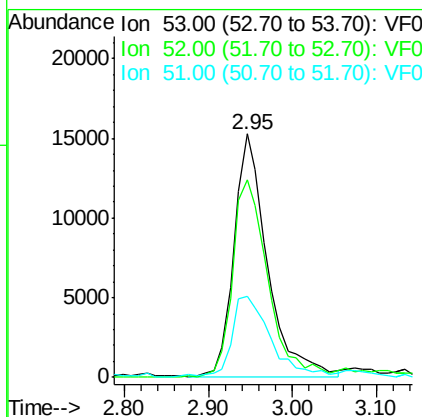
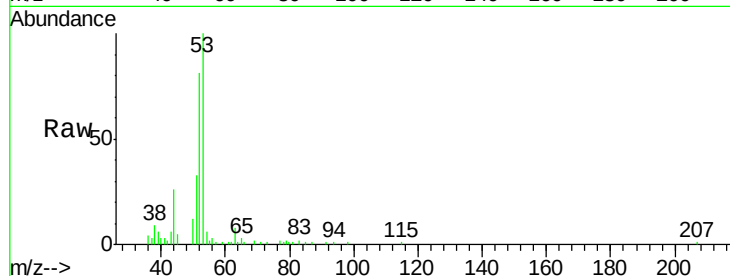
#15
Acrylonitrile
Concen: 78.978 ug/l
RT: 2.95 min Scan# 235
Delta R.T. -0.01 min
Lab File: VF061672.D
Acq: 18 Feb 2019 12:10

Instrument :
MSVOA_F
ClientSampleId :
VF0218SBS01

Tot Ion	Ratio	Lower	Upper
53	100		
52	81.2	64.6	97.0
51	33.3	29.8	44.8

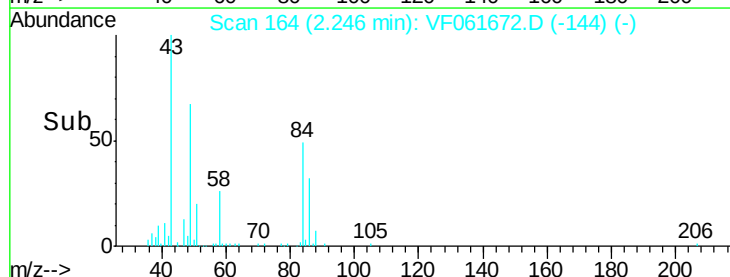
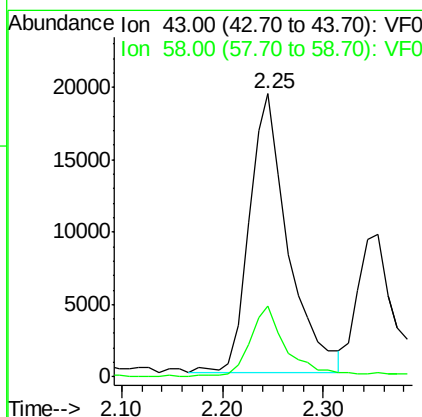
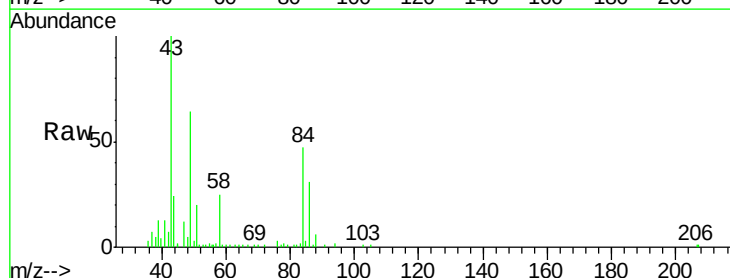
Manual Integrations
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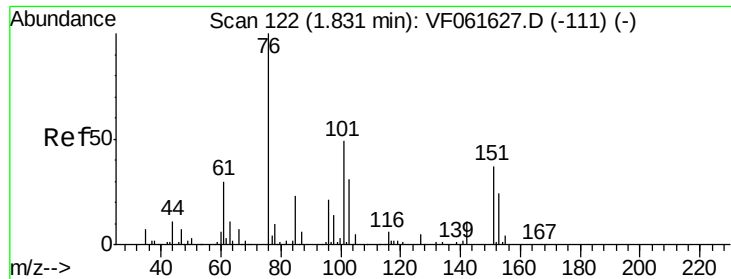
MMDadoda
2/19/2019 12:29:13 PM



#16
Acetone
Concen: 90.878 ug/l
RT: 2.25 min Scan# 164
Delta R.T. 0.00 min
Lab File: VF061672.D
Acq: 18 Feb 2019 12:10

Tgt Ion	Ratio	Lower	Upper
43	100		
58	25.3	22.9	34.3





#17

Carbon Disulfide

Concen: 19.496 ug/l m

RT: 1.82 min Scan# 121

Delta R.T. -0.01 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Instrument :

MSVOA_F

ClientSampleId :

VF0218SBS01

Tot Ion: 76 Resp: 188714

Ion Ratio Lower Upper

76 100

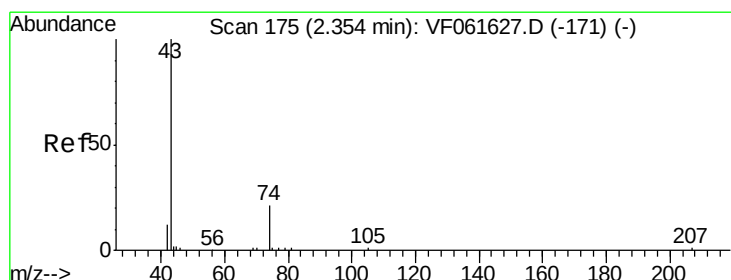
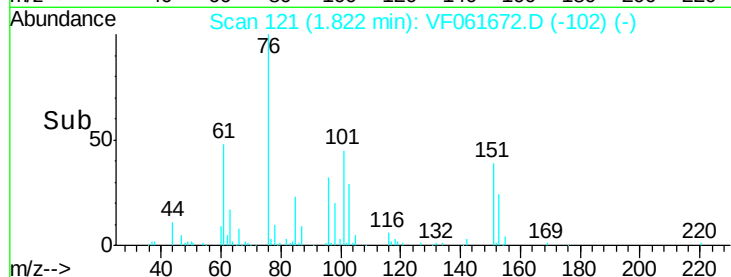
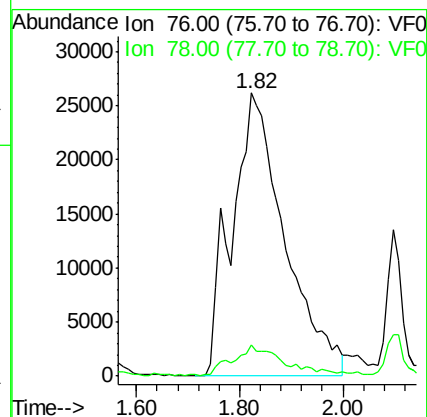
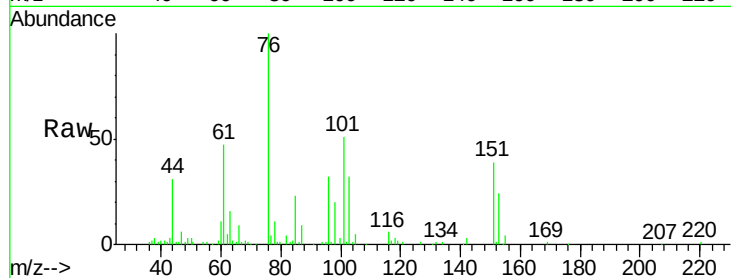
78 10.9 7.9 11.9

Manual Integrations

APPROVED

MMDadoda

2/19/2019 12:29:13 PM



#18

Methyl Acetate

Concen: 13.141 ug/l m

RT: 2.35 min Scan# 175

Delta R.T. 0.00 min

Lab File: VF061672.D

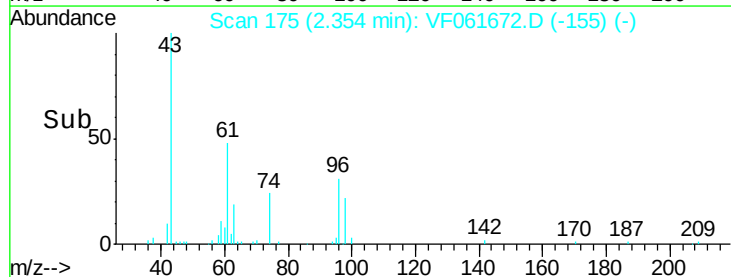
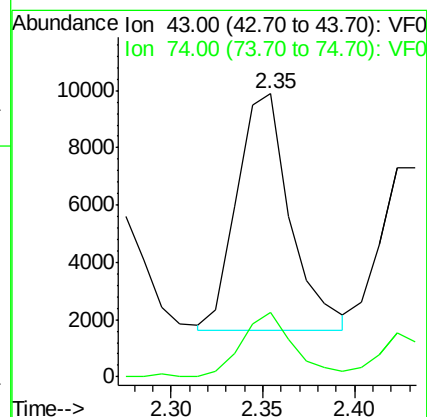
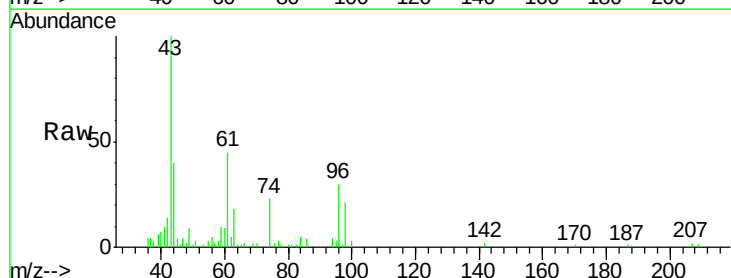
Acq: 18 Feb 2019 12:10

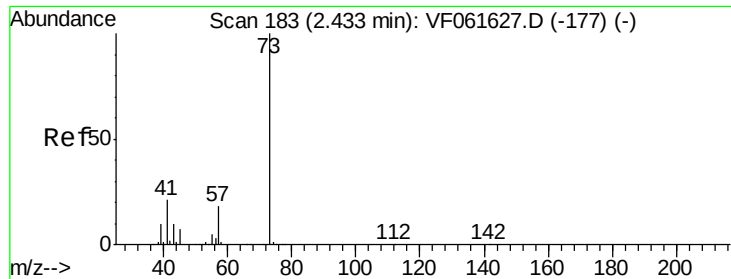
Tgt Ion: 43 Resp: 16738

Ion Ratio Lower Upper

43 100

74 22.9 14.6 21.8#





#19

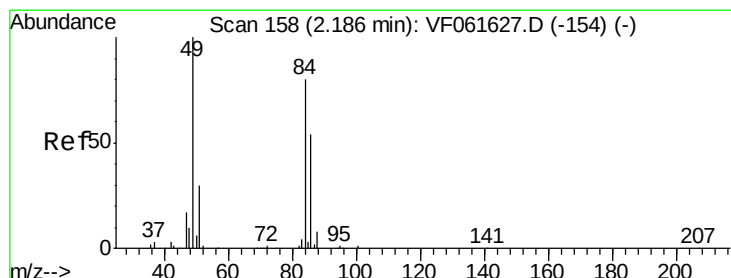
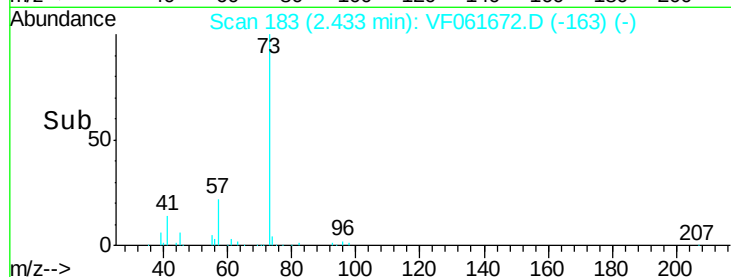
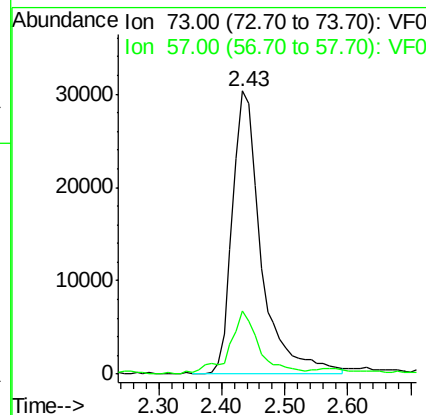
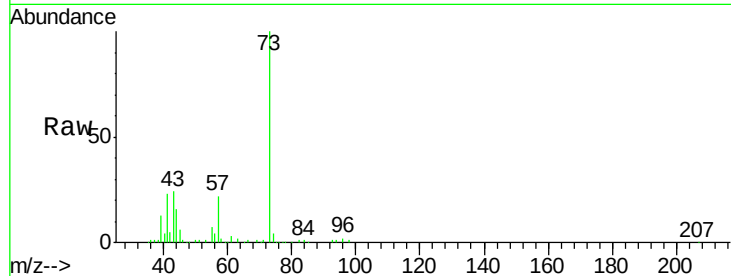
Methyl tert-butyl Ether
 Concen: 18.340 ug/l
 RT: 2.43 min Scan# 183
 Delta R.T. 0.00 min
 Lab File: VF061672.D
 Acq: 18 Feb 2019 12:10

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0218SBS01

Tot Ion	73	Resp	96521
Ion Ratio	Lower	Upper	
73	100		
57	22.2	15.8	23.8

Manual Integrations
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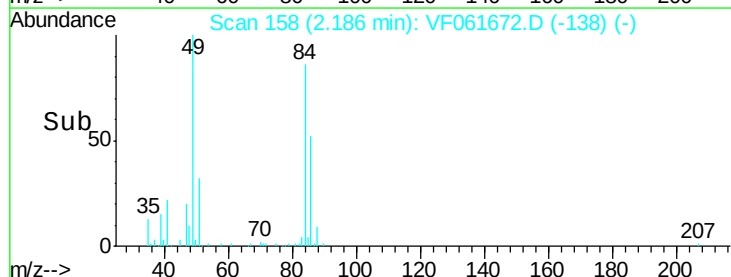
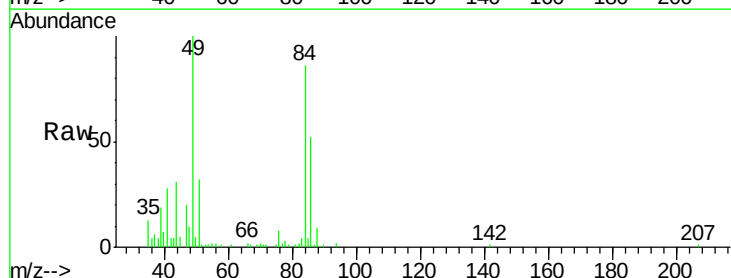
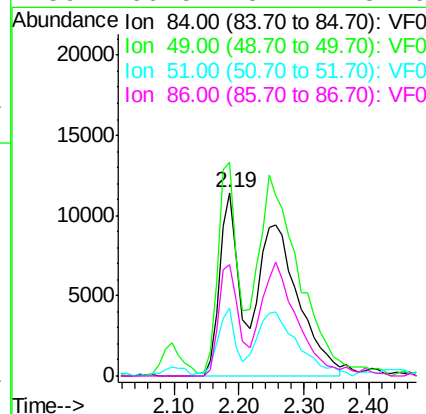
MMDadoda
 2/19/2019 12:29:13 PM

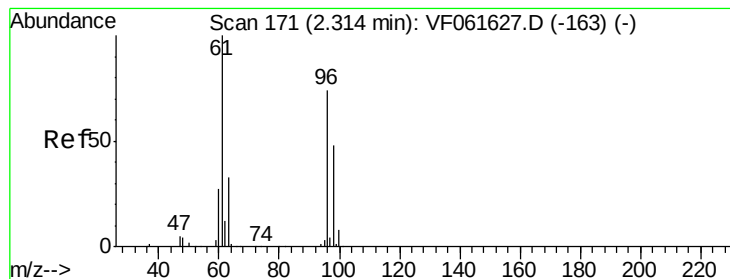


#20

Methylene Chloride
 Concen: 19.149 ug/l m
 RT: 2.19 min Scan# 158
 Delta R.T. 0.00 min
 Lab File: VF061672.D
 Acq: 18 Feb 2019 12:10

Tgt Ion	84	Resp	62729
Ion Ratio	Lower	Upper	
84	100		
49	116.6	101.8	152.8
51	36.9	31.1	46.7
86	60.5	54.4	81.6





#21

trans-1,2-Dichloroethene

Concen: 19.297 ug/l

RT: 2.31 min Scan# 171

Delta R.T. 0.00 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Instrument :

MSVOA_F

ClientSampleId :

VF0218SBS01

Tot Ion: 96 Resp: 64599

Ion Ratio Lower Upper

96 100

61 136.5 108.2 162.4

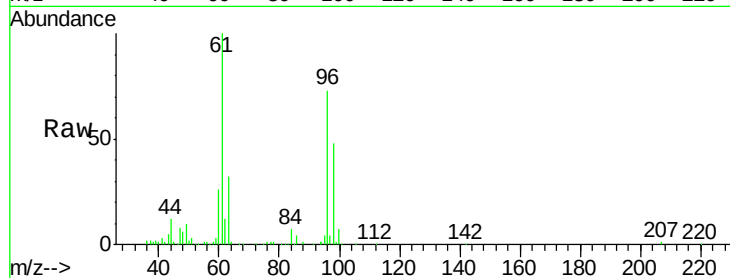
98 66.2 52.2 78.2

Manual Integrations

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MMDadoda

2/19/2019 12:29:13 PM

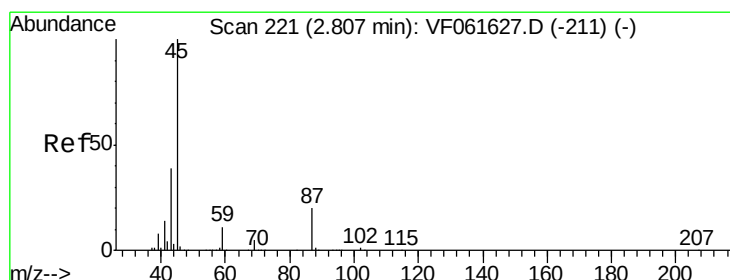
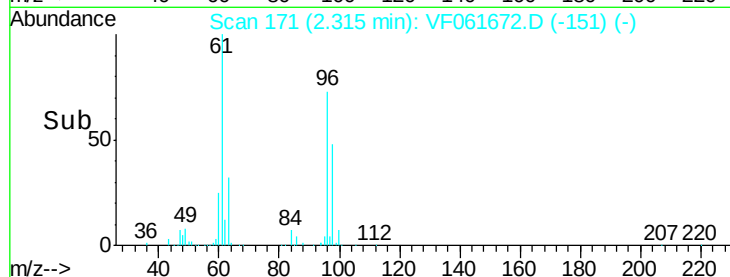
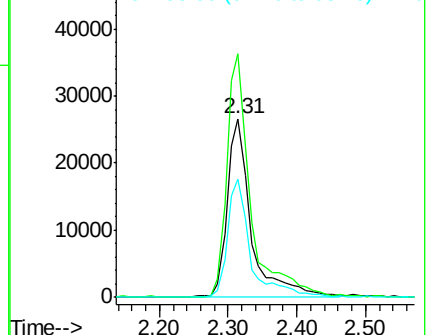


Abundance

Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 19.013 ug/l

RT: 2.81 min Scan# 221

Delta R.T. 0.00 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Tgt Ion: 45 Resp: 172458

Ion Ratio Lower Upper

45 100

43 42.3 31.4 47.2

87 20.1 16.3 24.5

59 11.0 8.7 13.1

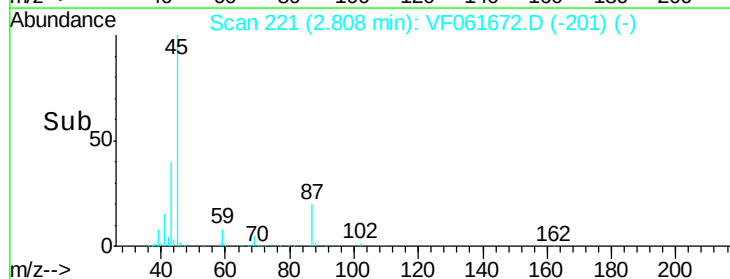
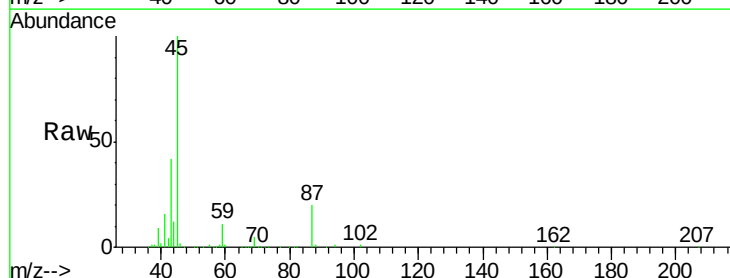
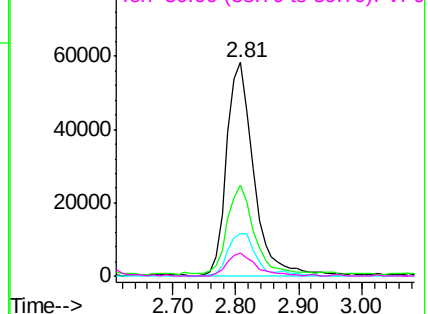
Abundance

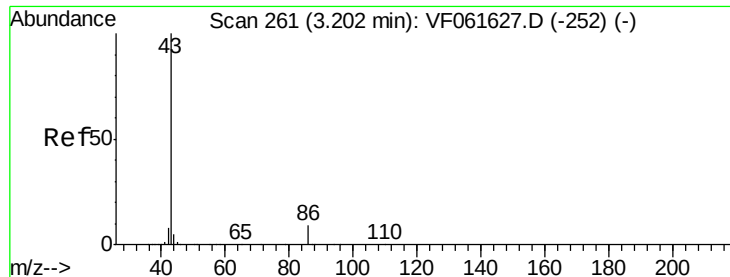
Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 86.182 ug/l

RT: 3.19 min Scan# 260

Delta R.T. -0.01 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Instrument :

MSVOA_F

ClientSampleId :

VF0218SBS01

Tot Ion: 43 Resp: 381819

Ion Ratio Lower Upper

43 100

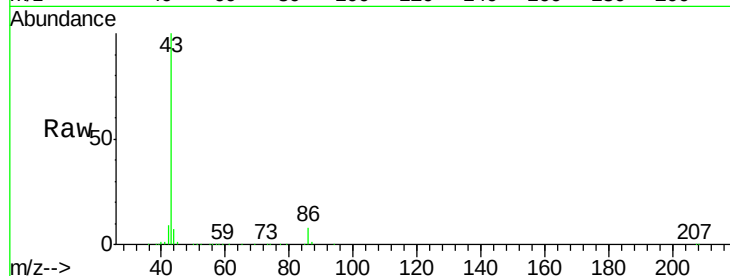
86 7.9 7.5 11.3

Manual Integrations

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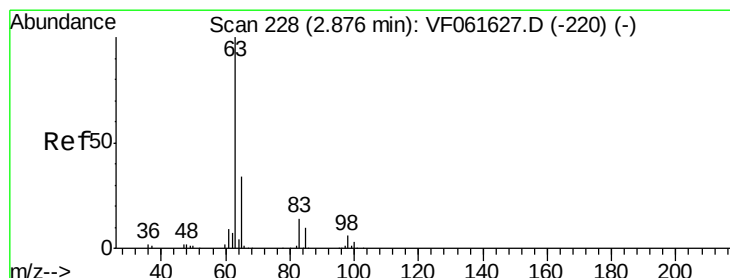
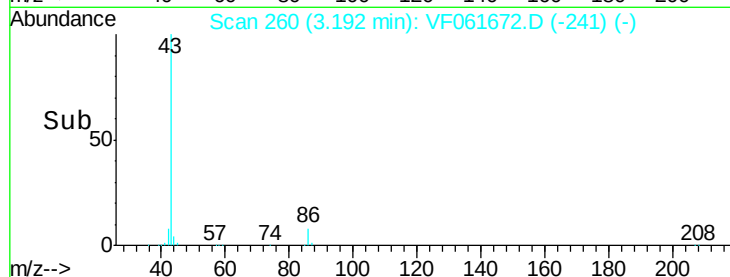
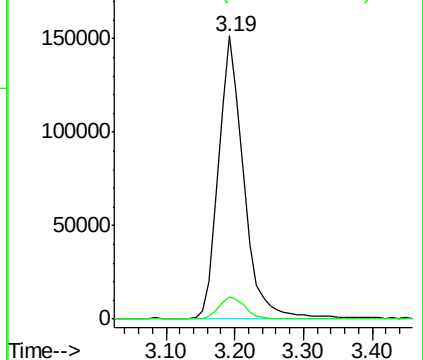
MMDadoda

2/19/2019 12:29:13 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 19.451 ug/l

RT: 2.88 min Scan# 228

Delta R.T. 0.00 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

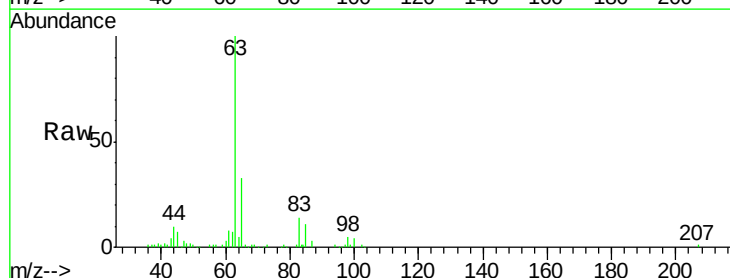
Tgt Ion: 63 Resp: 106771

Ion Ratio Lower Upper

63 100

98 5.1 2.8 8.3

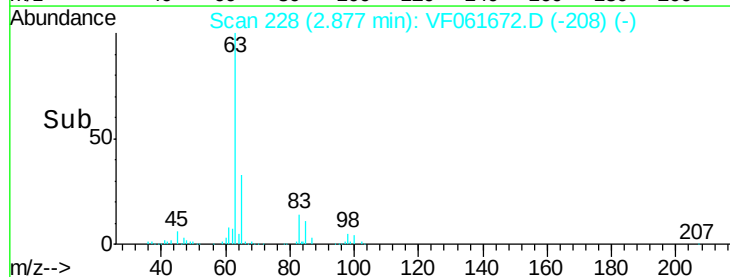
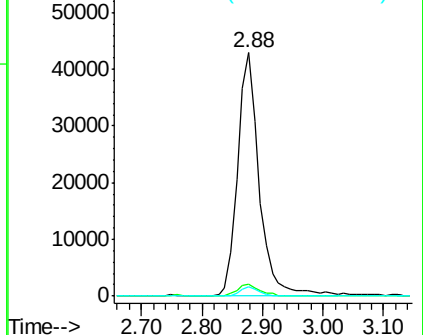
100 3.8 1.8 5.4

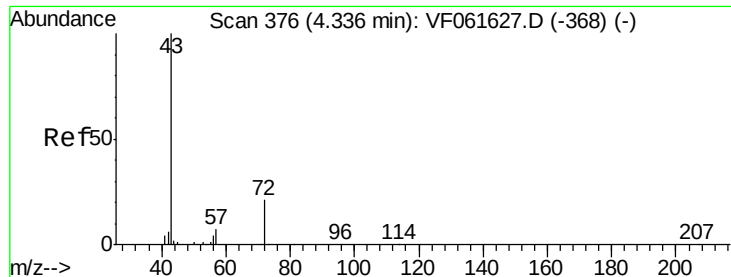


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 88.158 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.00 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Instrument :

MSVOA_F

ClientSampleId :

VF0218SBS01

Tot Ion: 43 Resp: 108879

Ion Ratio Lower Upper

43 100

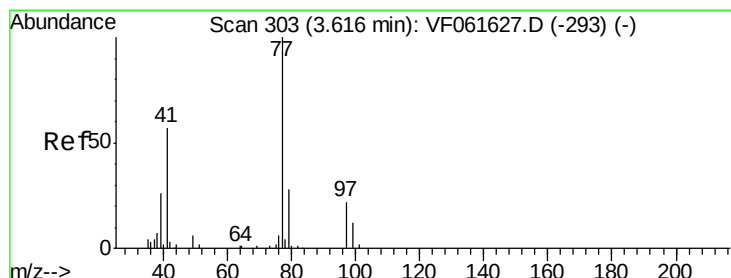
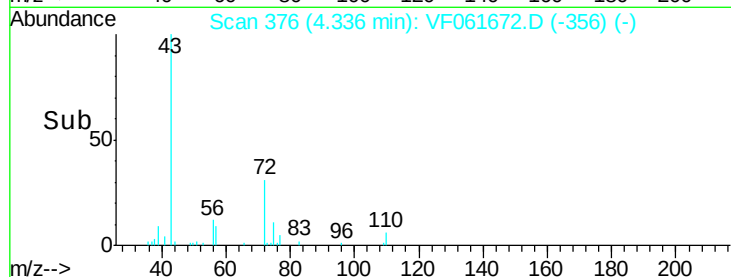
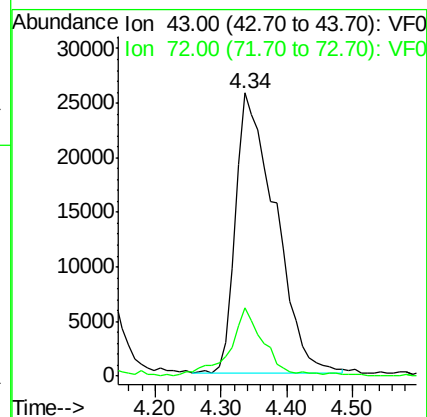
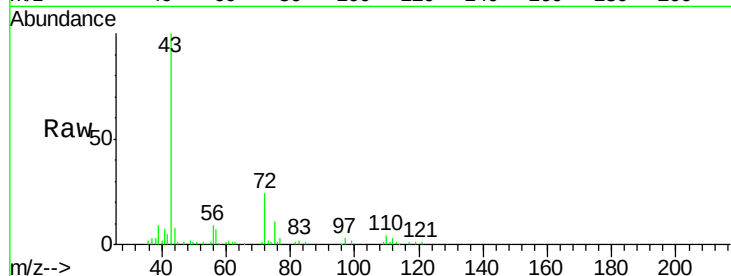
72 24.4 17.1 25.7

Manual Integrations

APPROVED

MMDadoda

2/19/2019 12:29:13 PM



#26

2,2-Dichloropropane

Concen: 20.995 ug/l

RT: 3.60 min Scan# 301

Delta R.T. -0.02 min

Lab File: VF061672.D

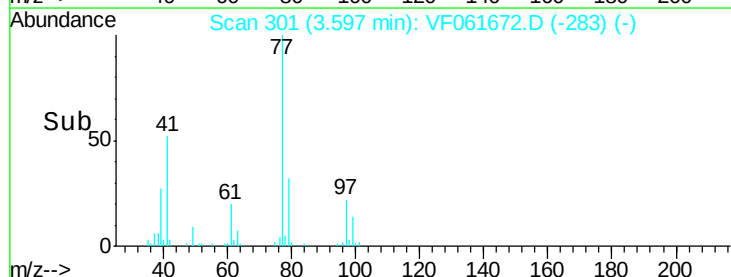
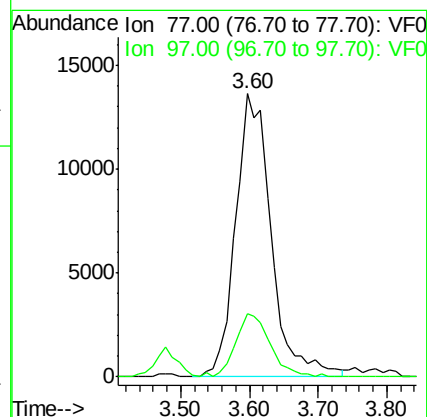
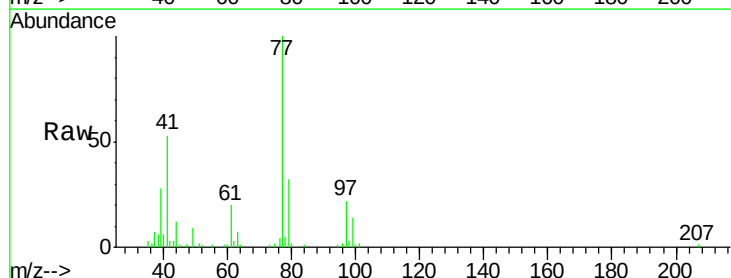
Acq: 18 Feb 2019 12:10

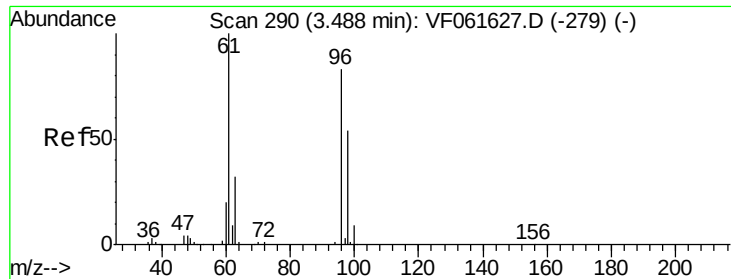
Tgt Ion: 77 Resp: 48816

Ion Ratio Lower Upper

77 100

97 22.4 11.7 35.0





#27

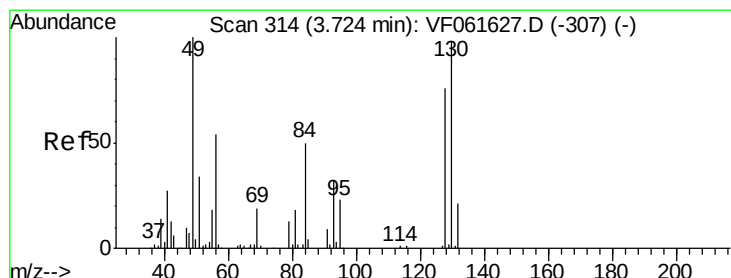
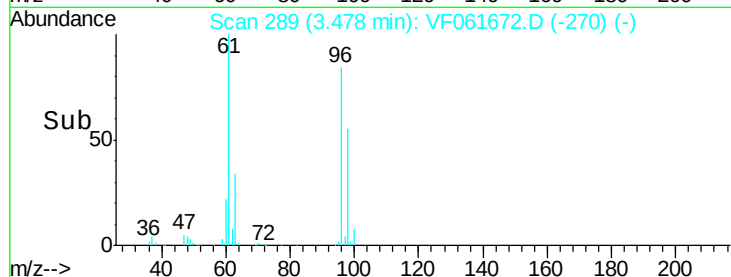
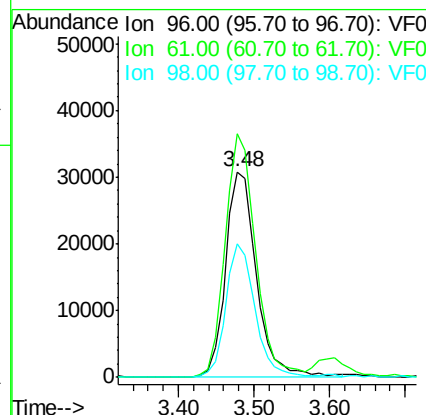
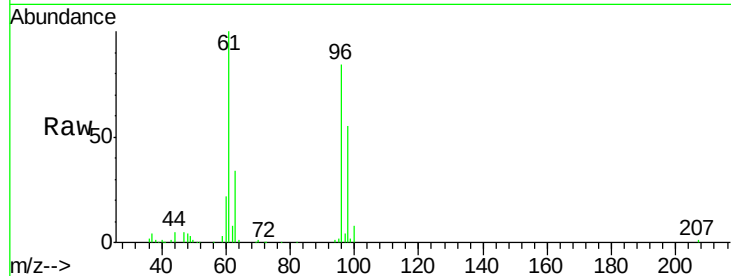
cis-1,2-Dichloroethene
Concen: 19.894 ug/l
RT: 3.48 min Scan# 289
Delta R.T. -0.01 min
Lab File: VF061672.D
Acq: 18 Feb 2019 12:10

Instrument :
MSVOA_F
ClientSampleId :
VF0218SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	118.5	0.0	241.6
98	64.7	0.0	130.2

Manual Integrations
APPROVED

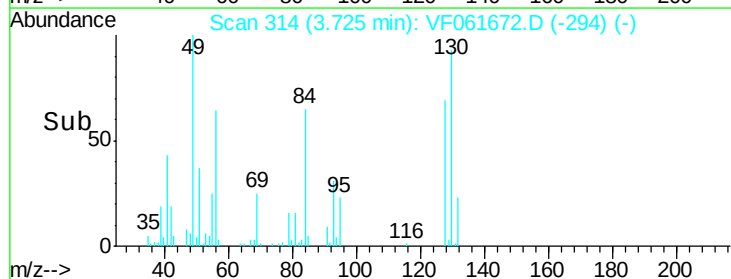
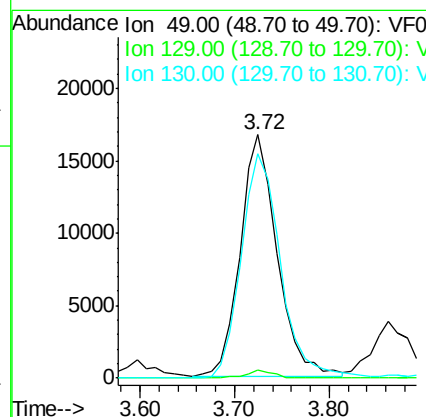
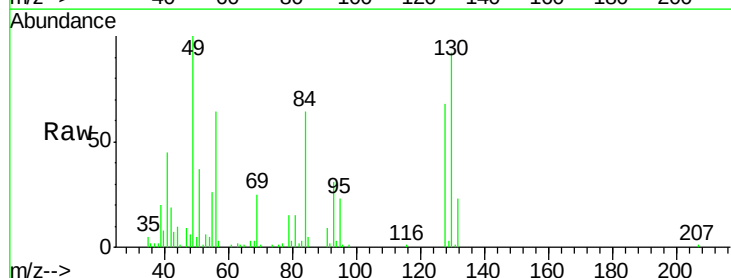
MMDadoda
2/19/2019 12:29:13 PM

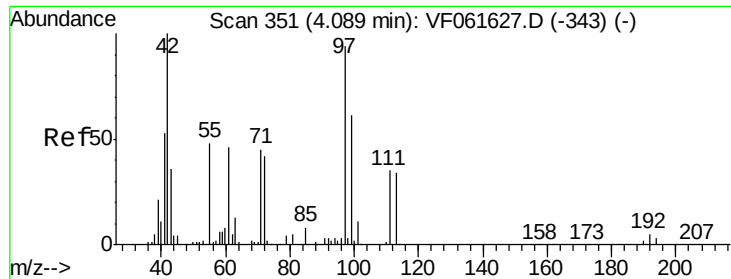


#28

Bromochloromethane
Concen: 17.236 ug/l
RT: 3.72 min Scan# 314
Delta R.T. 0.00 min
Lab File: VF061672.D
Acq: 18 Feb 2019 12:10

Tgt Ion	Ratio	Lower	Upper
49	100		
129	3.2	0.0	3.4
130	92.4	77.7	116.5





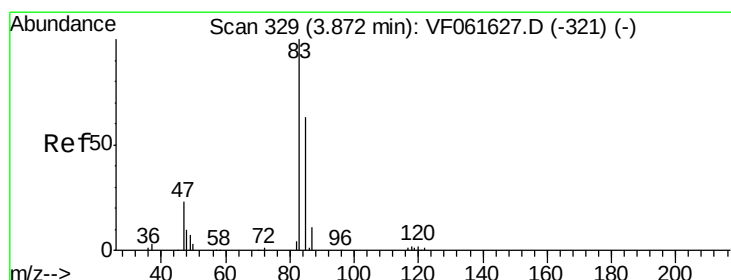
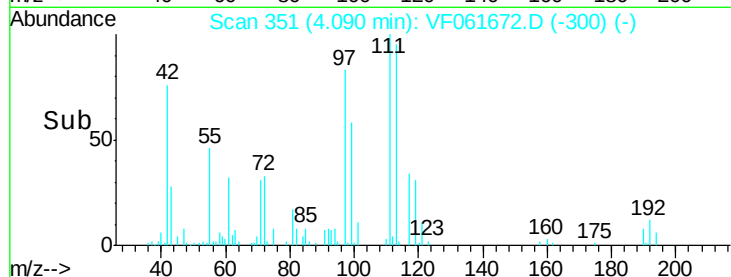
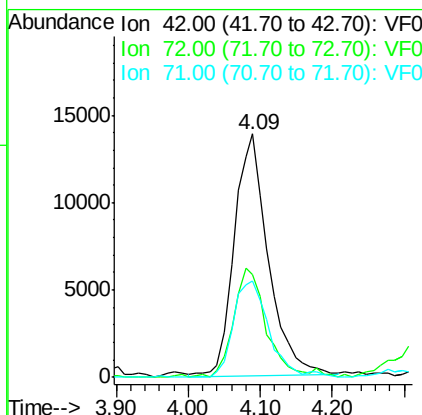
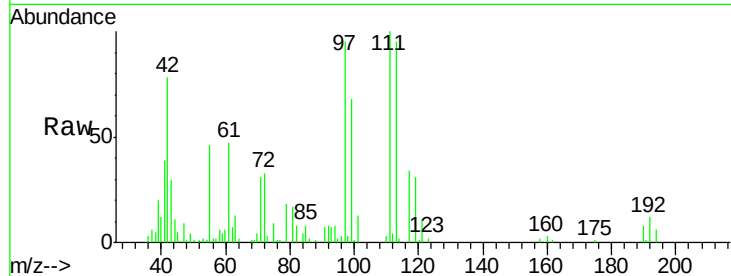
#29
Tetrahydrofuran
Concen: 80.869 ug/l
RT: 4.09 min Scan# 351
Delta R.T. 0.00 min
Lab File: VF061672.D
Acq: 18 Feb 2019 12:10

Instrument :
MSVOA_F
ClientSampleId :
VF0218SBS01

Tot Ion	Ratio	Resp	Lower	Upper
42	100	45395		
72	43.2		35.2	52.8
71	42.3		32.9	49.3

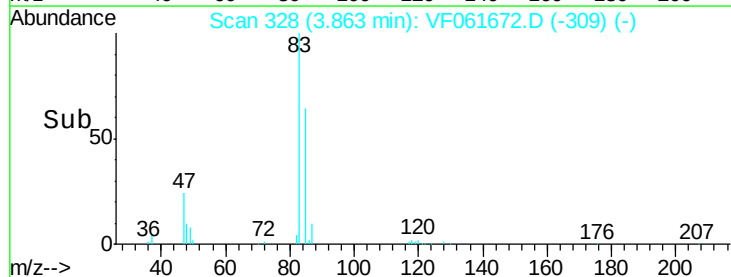
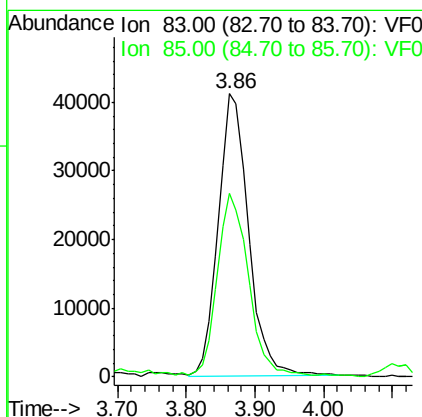
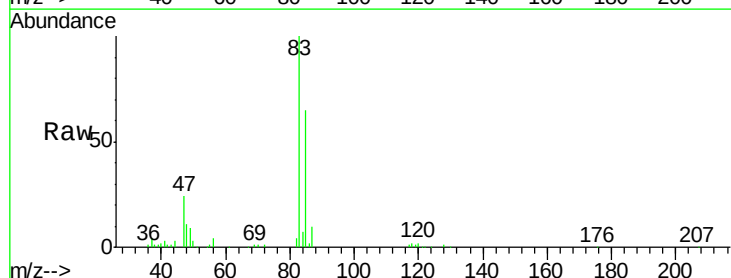
Manual Integrations
APPROVED

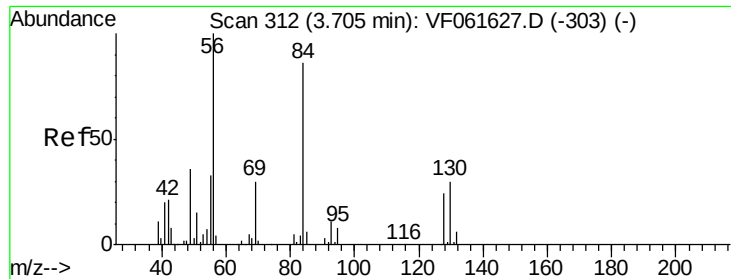
MMDadoda
2/19/2019 12:29:13 PM



#30
Chloroform
Concen: 20.184 ug/l
RT: 3.86 min Scan# 328
Delta R.T. -0.01 min
Lab File: VF061672.D
Acq: 18 Feb 2019 12:10

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	126001		
85	65.0		51.1	76.7





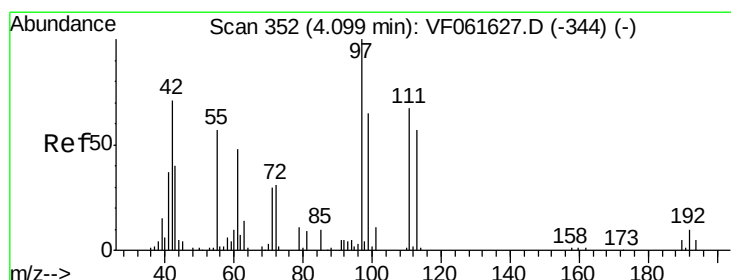
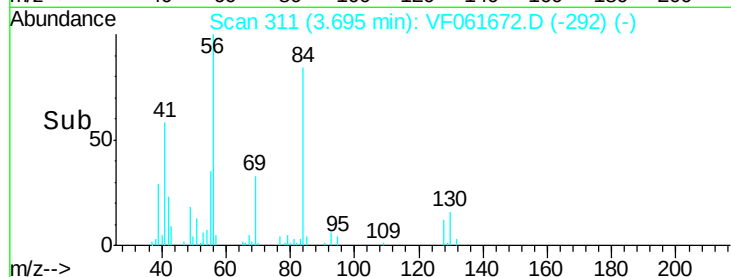
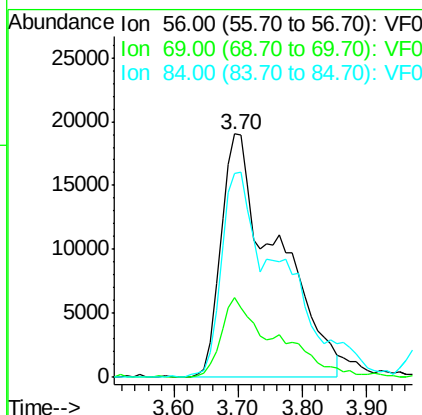
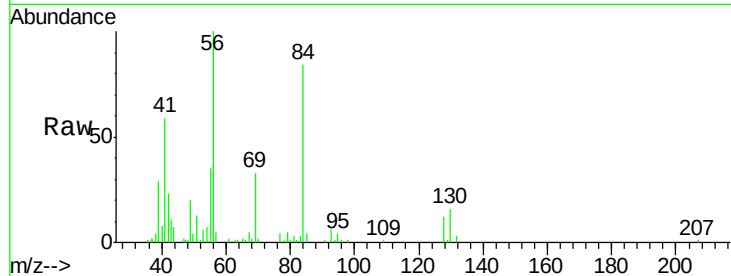
#31
Cyclohexane
Concen: 19.470 ug/l m
RT: 3.70 min Scan# 311
Delta R.T. -0.01 min
Lab File: VF061672.D
Acq: 18 Feb 2019 12:10

Instrument :
MSVOA_F
ClientSampleId :
VF0218SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.5	23.8	35.8
84	83.9	68.6	103.0

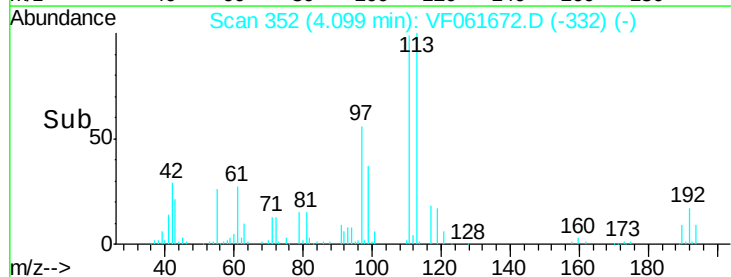
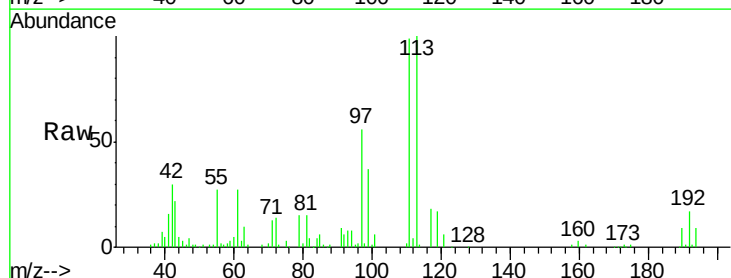
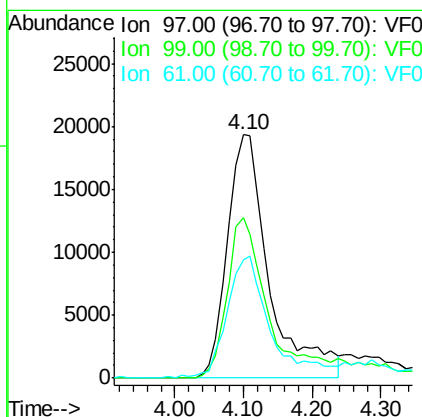
Manual Integrations
APPROVED

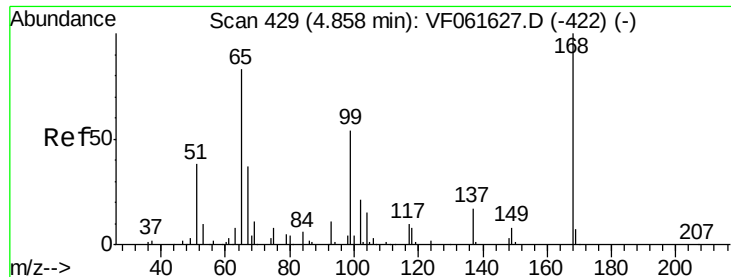
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 20.024 ug/l
RT: 4.10 min Scan# 352
Delta R.T. 0.00 min
Lab File: VF061672.D
Acq: 18 Feb 2019 12:10

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.0	52.2	78.2
61	48.6	39.2	58.8





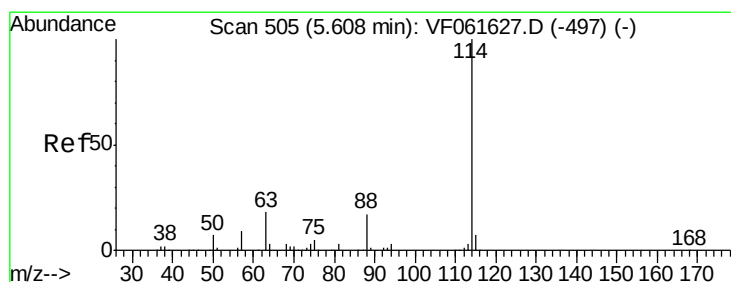
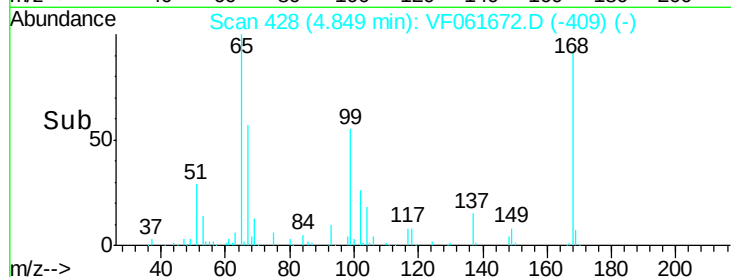
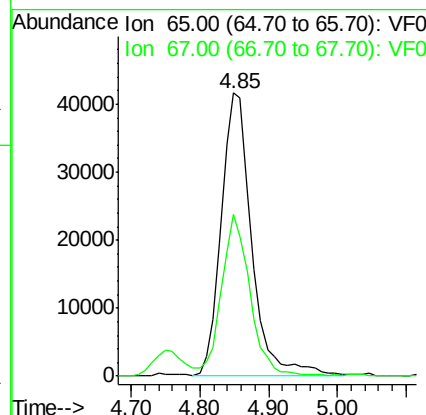
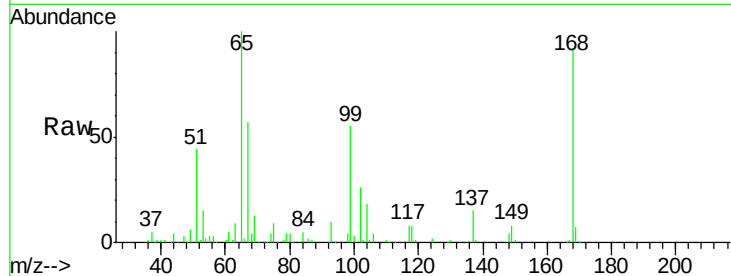
#33
 1,2-Dichloroethane-d4
 Concen: 47.657 ug/l
 RT: 4.85 min Scan# 428
 Delta R.T. -0.01 min
 Lab File: VF061672.D
 Acq: 18 Feb 2019 12:10

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0218SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	125591		
67	57.3	0.0	104.0	

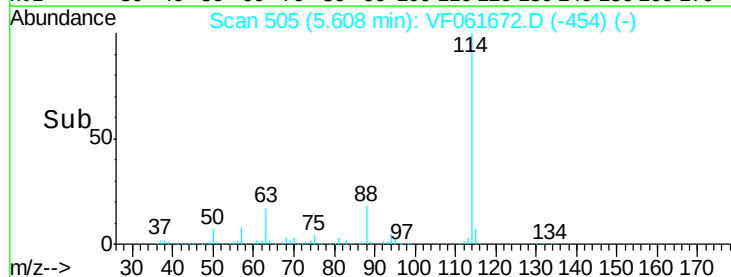
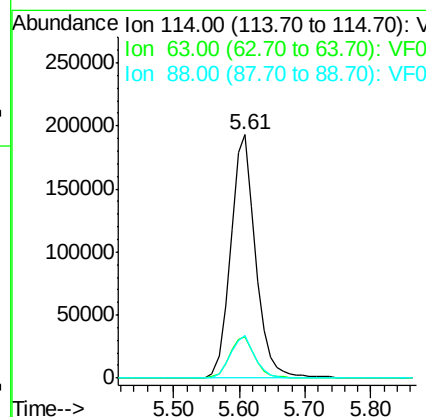
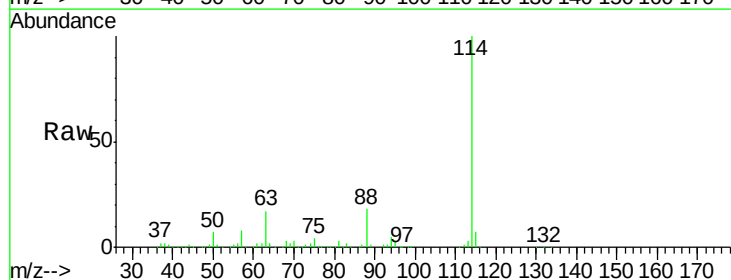
Manual Integrations
 APPROVED

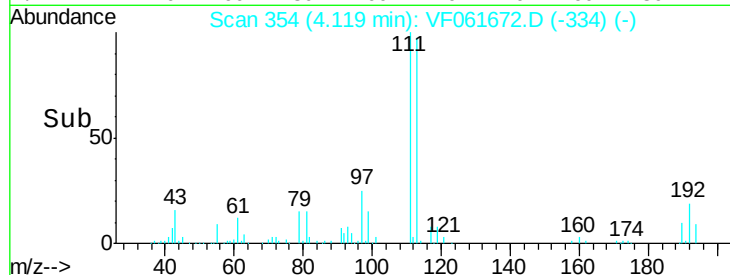
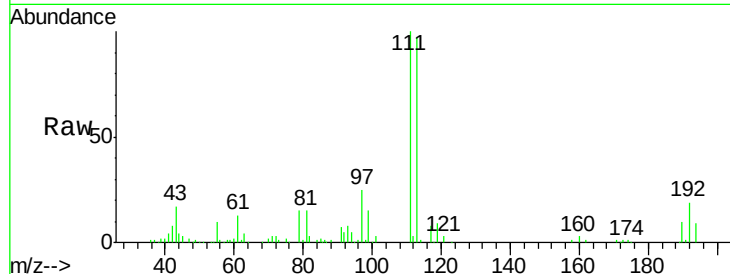
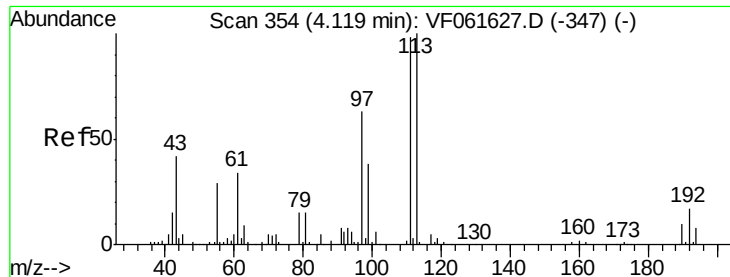
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.61 min Scan# 505
 Delta R.T. 0.00 min
 Lab File: VF061672.D
 Acq: 18 Feb 2019 12:10

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	511080		
63	16.7	0.0	36.6	
88	17.6	0.0	34.4	





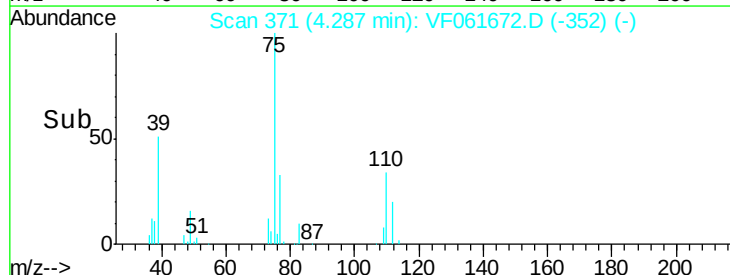
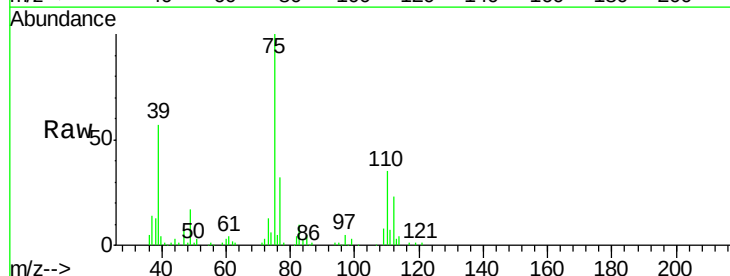
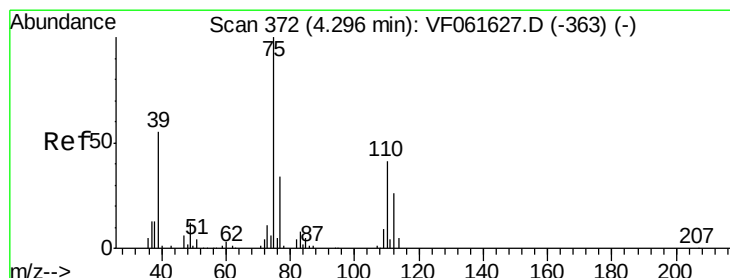
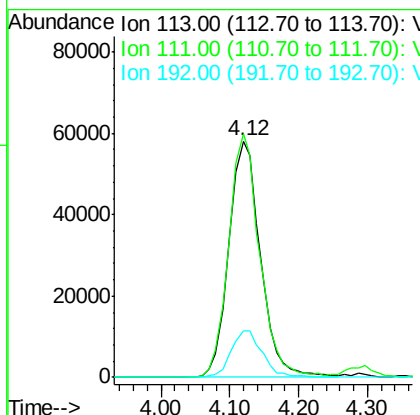
#35
Dibromofluoromethane
Concen: 48.847 ug/l
RT: 4.12 min Scan# 354
Delta R.T. 0.00 min
Lab File: VF061672.D
Acq: 18 Feb 2019 12:10

Tot Ion	Ratio	Resp	Lower	Upper
113	100	185391		
111	103.0	78.8	118.2	
192	19.5	13.4	20.0	

Instrument :
MSVOA_F
ClientSampleId :
VF0218SBS01

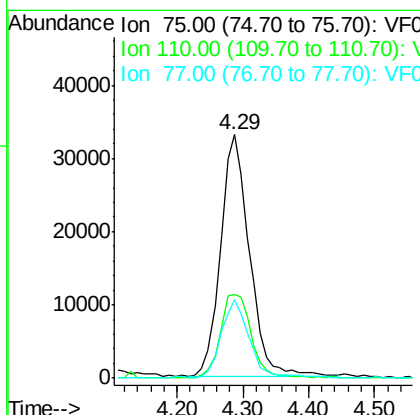
Manual Integrations
APPROVED

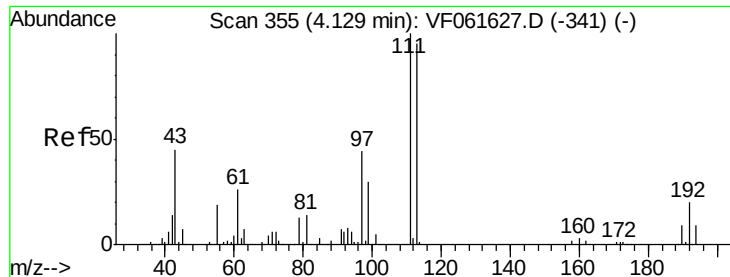
MMDadoda
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#36
1,1-Dichloropropene
Concen: 19.818 ug/l
RT: 4.29 min Scan# 371
Delta R.T. -0.01 min
Lab File: VF061672.D
Acq: 18 Feb 2019 12:10

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	100336		
110	34.5	20.5	61.6	
77	32.1	27.0	40.4	





#37

Ethyl Acetate

Concen: 19.033 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.01 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Instrument :

MSVOA_F

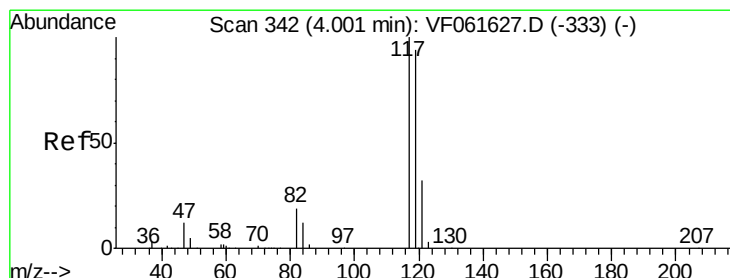
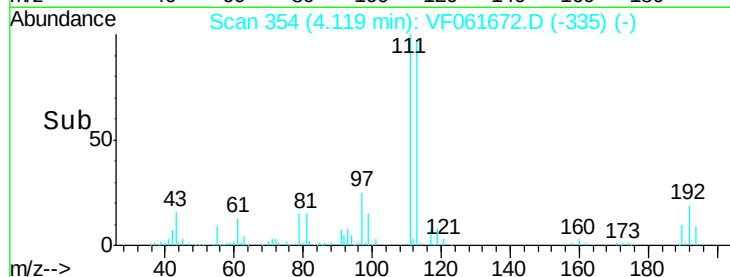
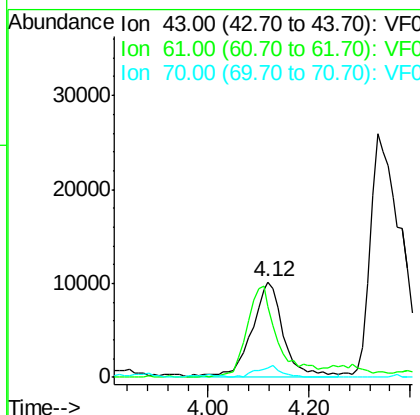
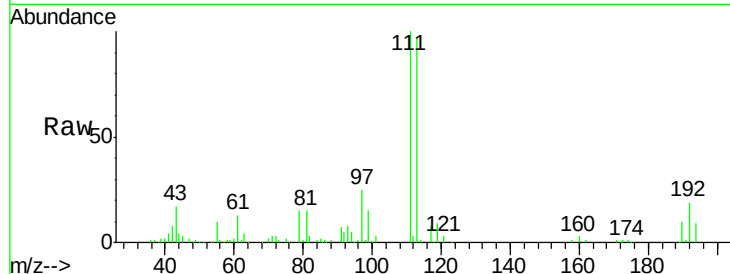
ClientSampleId :

VF0218SBS01

Tot Ion:	43	Resp:	44758
Ion	Ratio	Lower	Upper
43	100		
61	74.5	45.7	68.5#
70	9.8	8.5	12.7

Manual Integrations
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#38

Carbon Tetrachloride

Concen: 21.231 ug/l

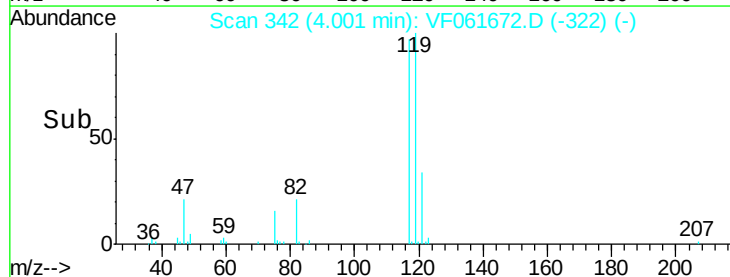
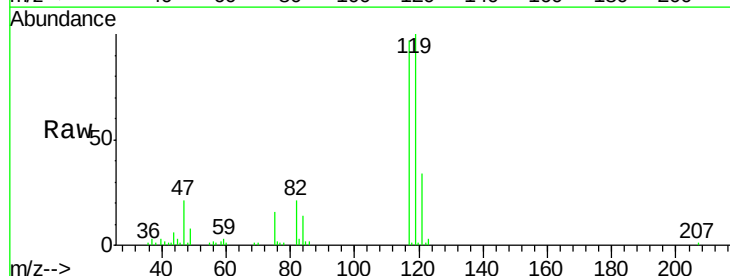
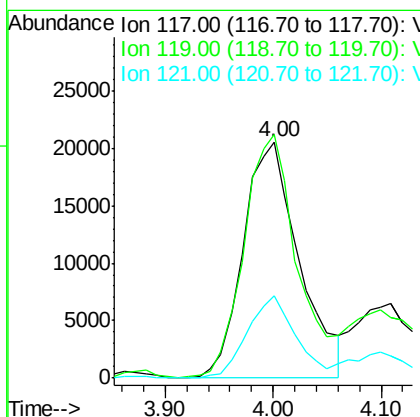
RT: 4.00 min Scan# 342

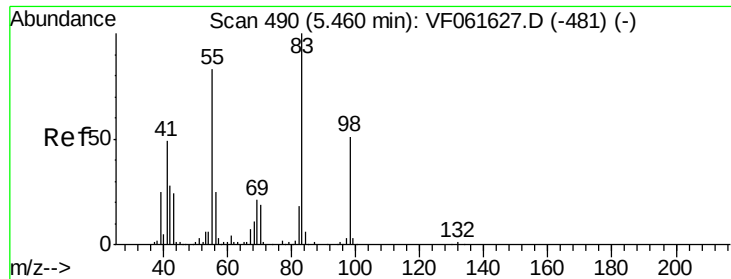
Delta R.T. 0.00 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Tgt Ion:	117	Resp:	74222
Ion	Ratio	Lower	Upper
117	100		
119	103.1	75.6	113.4
121	34.6	25.2	37.8





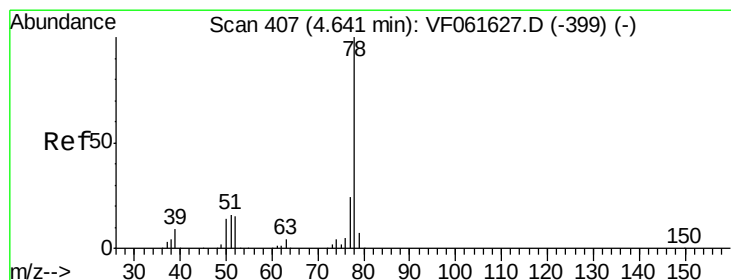
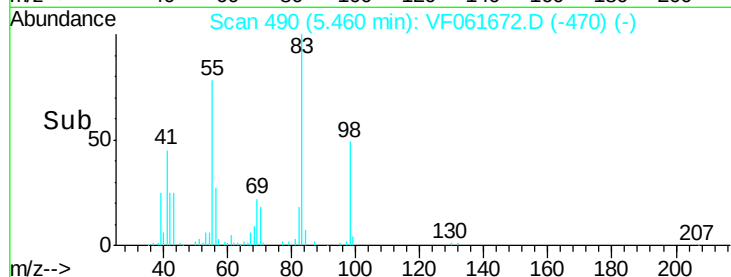
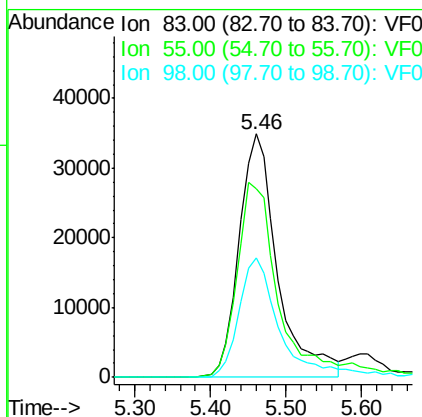
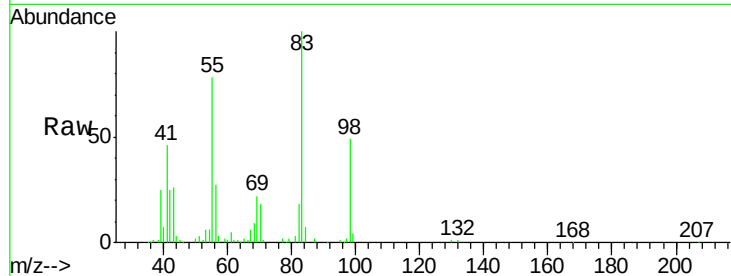
#39
Methylvlcyclohexane
Concen: 20.641 ug/l
RT: 5.46 min Scan# 490
Delta R.T. 0.00 min
Lab File: VF061672.D
Acq: 18 Feb 2019 12:10

Instrument :
MSVOA_F
ClientSampleId :
VF0218SBS01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	123594		
55	77.6	66.6	99.8	
98	49.2	40.4	60.6	

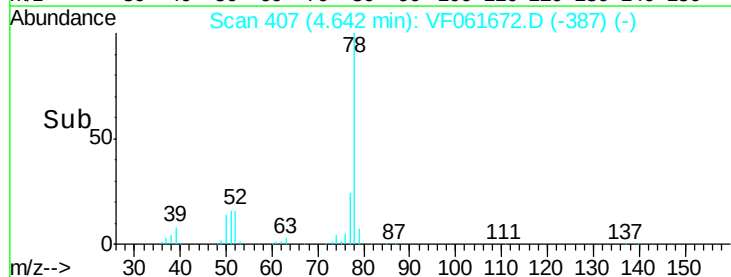
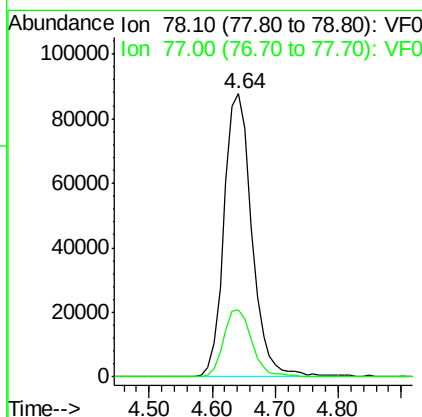
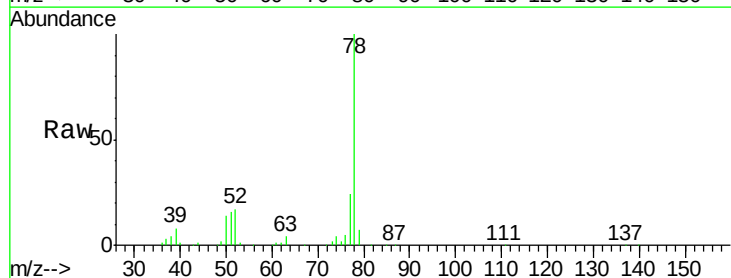
Manual Integrations
APPROVED

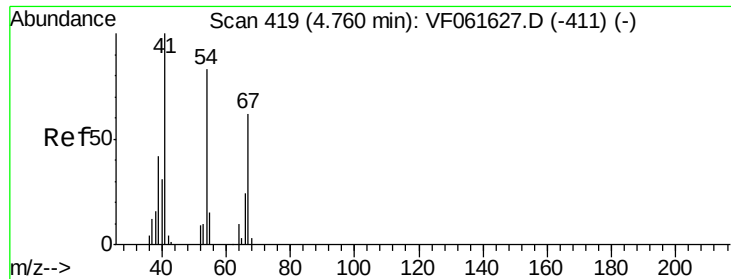
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#40
Benzene
Concen: 20.311 ug/l
RT: 4.64 min Scan# 407
Delta R.T. 0.00 min
Lab File: VF061672.D
Acq: 18 Feb 2019 12:10

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	268978		
77	23.6	19.0	28.6	





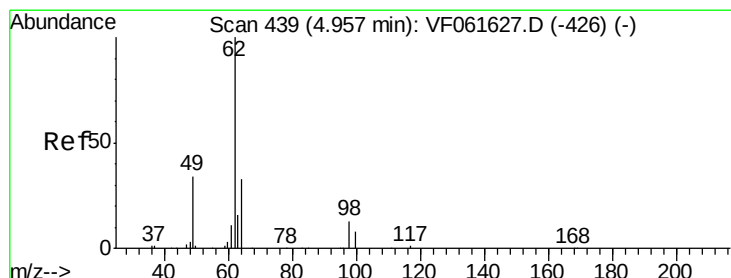
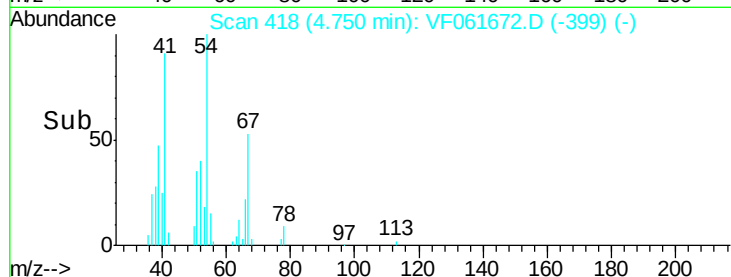
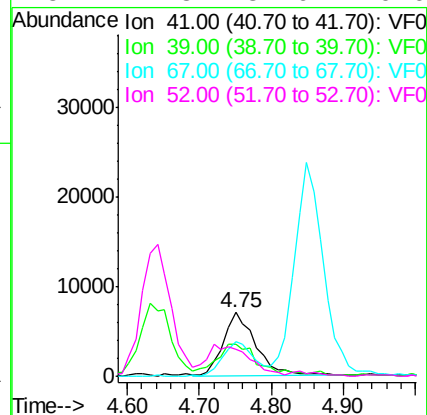
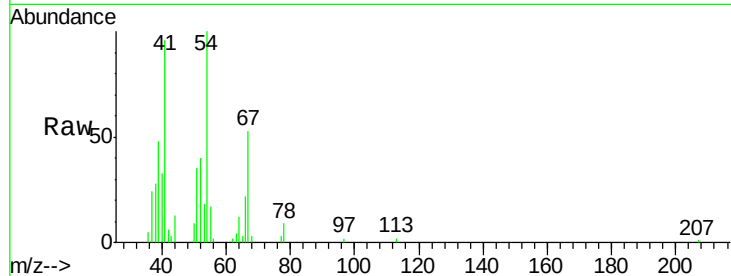
#41
Methacrylonitrile
Concen: 18.070 ug/l
RT: 4.75 min Scan# 418
Delta R.T. -0.01 min
Lab File: VF061672.D
Acq: 18 Feb 2019 12:10

Instrument :
MSVOA_F
ClientSampleId :
VF0218SBS01

Tot Ion	41	Resp	21731
Ion Ratio	Lower	Upper	
41	100		
39	49.7	45.3	67.9
67	55.4	49.3	73.9
52	41.8	32.6	49.0

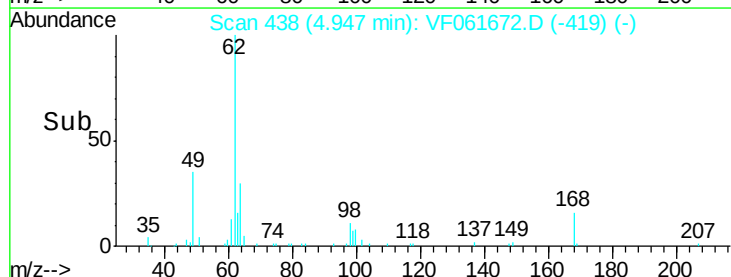
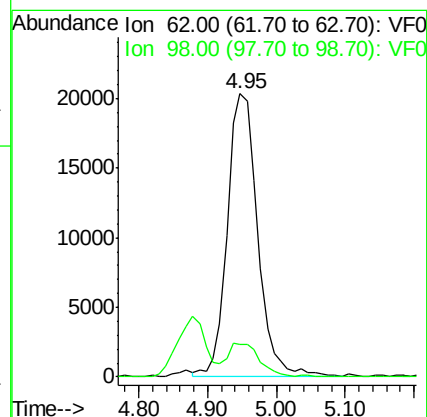
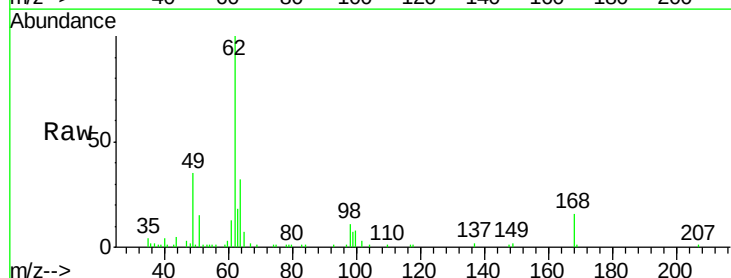
Manual Integrations
APPROVED

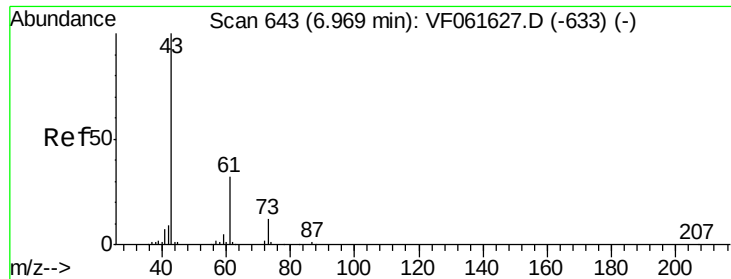
MMDadoda
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#42
1,2-Dichloroethane
Concen: 19.693 ug/l
RT: 4.95 min Scan# 438
Delta R.T. -0.01 min
Lab File: VF061672.D
Acq: 18 Feb 2019 12:10

Tgt Ion	62	Resp	62381
Ion Ratio	Lower	Upper	
62	100		
98	11.3	0.0	26.0





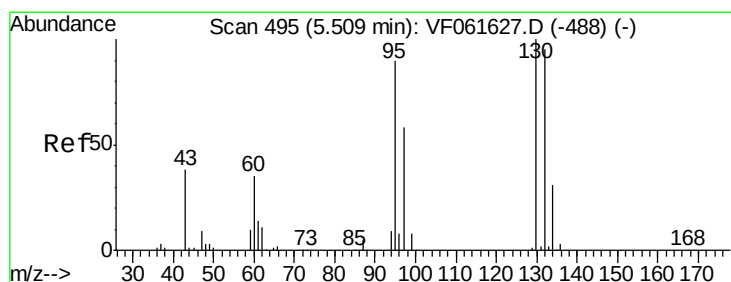
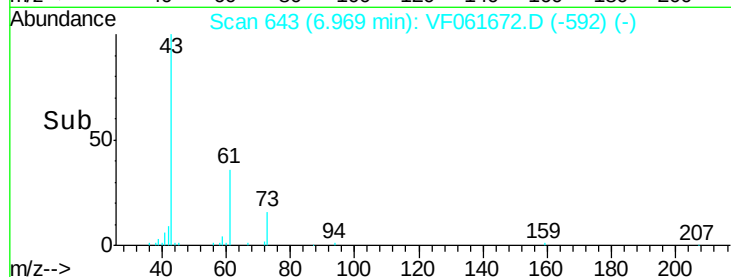
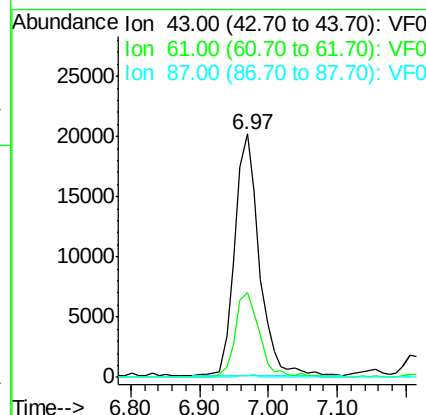
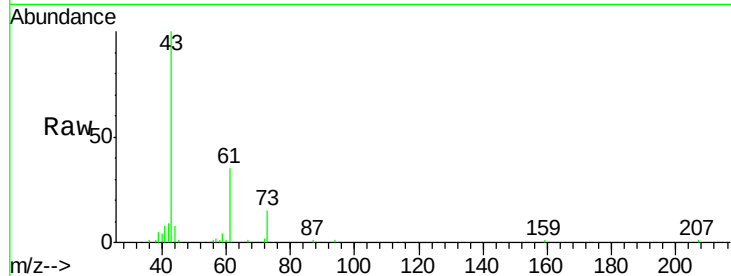
#43
Isopropyl Acetate
Concen: 17.823 ug/l
RT: 6.97 min Scan# 643
Delta R.T. 0.00 min
Lab File: VF061672.D
Acq: 18 Feb 2019 12:10

Instrument :
MSVOA_F
ClientSampleId :
VF0218SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	34.9	25.8	38.6
87	0.6	0.4	0.6

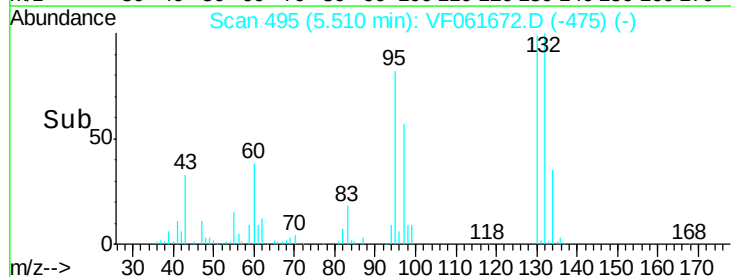
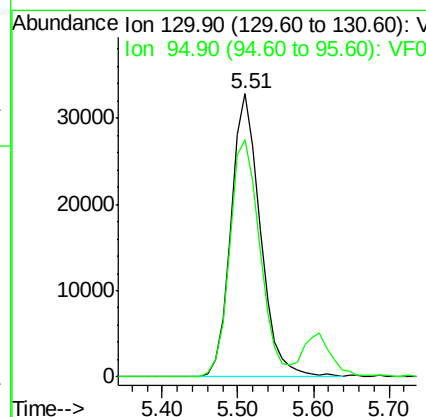
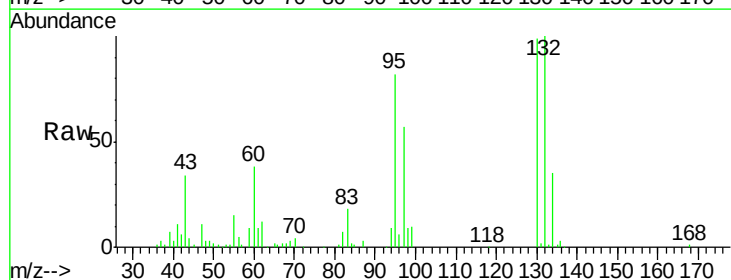
Manual Integrations
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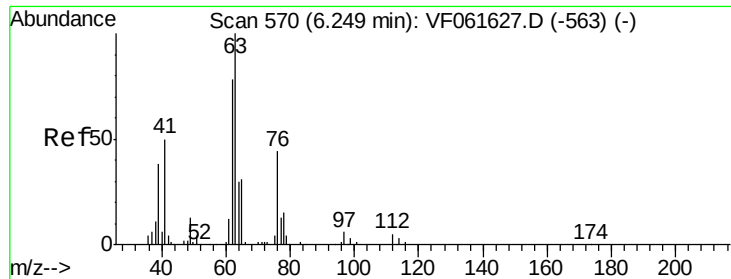
MMDadoda
2/19/2019 12:29:13 PM



#44
Trichloroethene
Concen: 20.491 ug/l
RT: 5.51 min Scan# 495
Delta R.T. 0.00 min
Lab File: VF061672.D
Acq: 18 Feb 2019 12:10

Tgt Ion	Ratio	Lower	Upper
130	100		
95	83.7	0.0	179.4





#45

1,2-Dichloropropane

Concen: 21.250 ug/l

RT: 6.24 min Scan# 569

Delta R.T. -0.01 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Instrument :

MSVOA_F

ClientSampleId :

VF0218SBS01

Tot Ion: 63 Resp: 68020

Ion Ratio Lower Upper

63 100

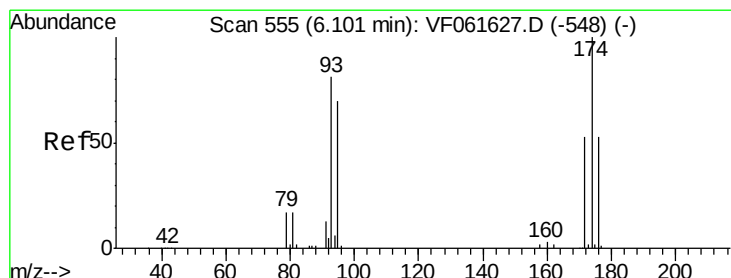
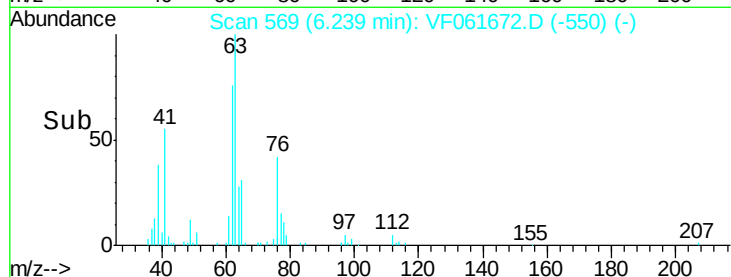
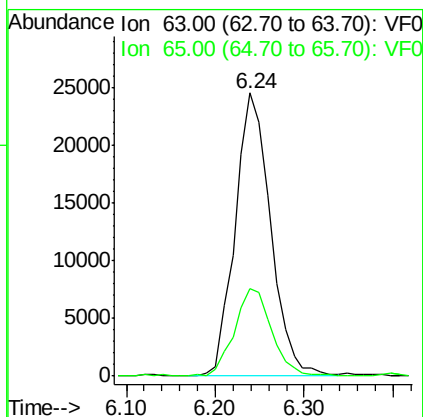
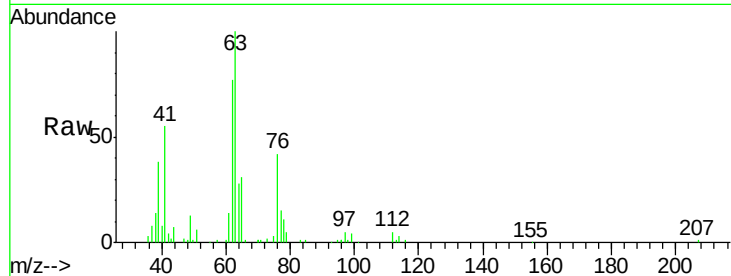
65 30.8 24.9 37.3

Manual Integrations

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#46

Dibromomethane

Concen: 19.468 ug/l

RT: 6.09 min Scan# 554

Delta R.T. -0.01 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

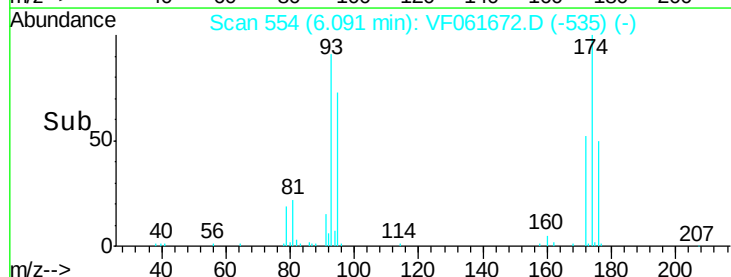
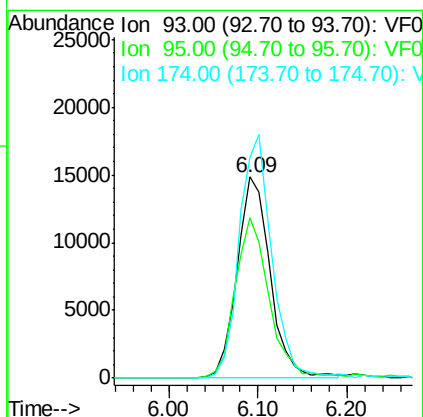
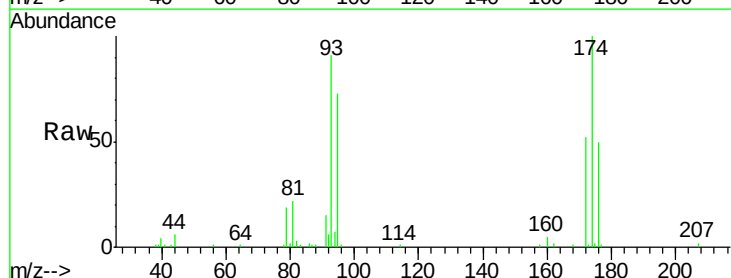
Tgt Ion: 93 Resp: 38369

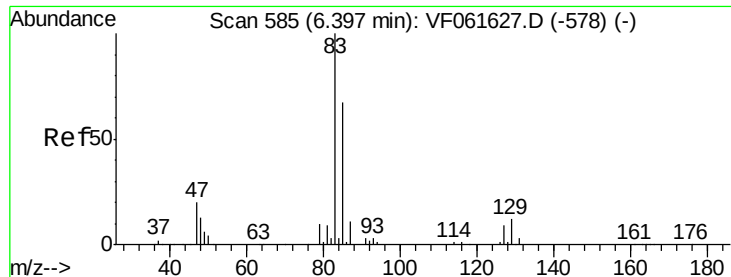
Ion Ratio Lower Upper

93 100

95 79.9 69.0 103.6

174 109.4 99.3 148.9





#47

Bromodichloromethane

Concen: 20.449 ug/l

RT: 6.39 min Scan# 584

Delta R.T. -0.01 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Instrument :

MSVOA_F

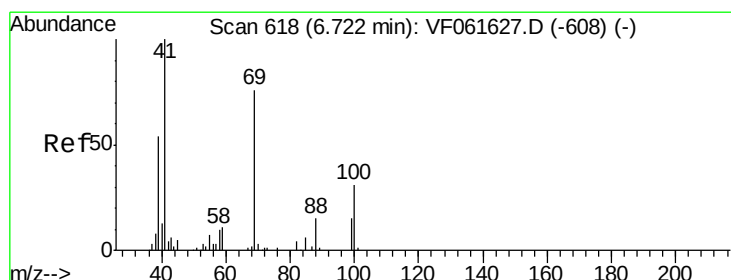
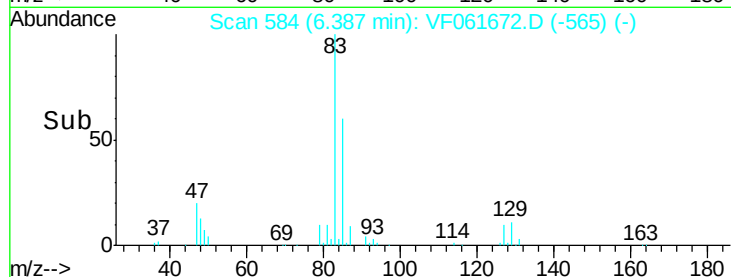
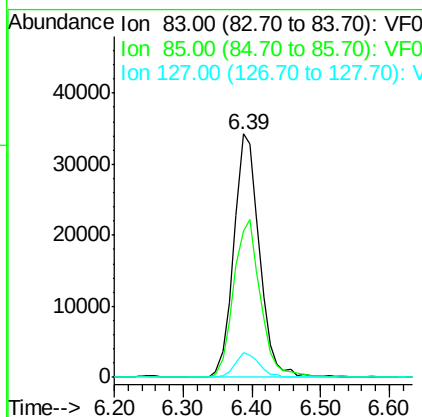
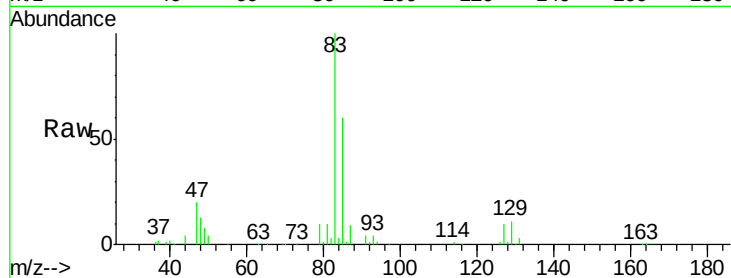
ClientSampleId :

VF0218SBS01

Tot Ion:	83	Resp:	88256
Ion	Ratio	Lower	Upper
83	100		
85	60.0	53.4	80.2
127	10.3	7.5	11.3

Manual Integrations
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#48

Methyl methacrylate

Concen: 19.223 ug/l

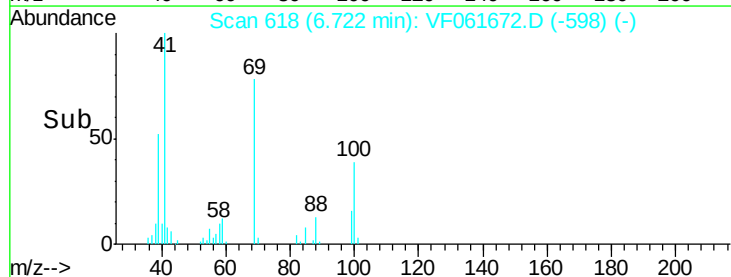
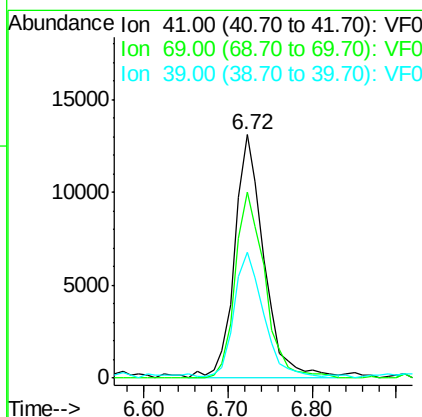
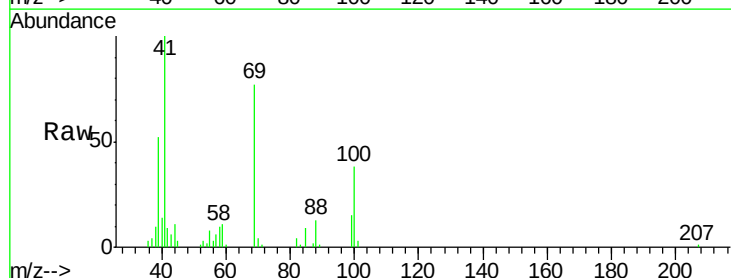
RT: 6.72 min Scan# 618

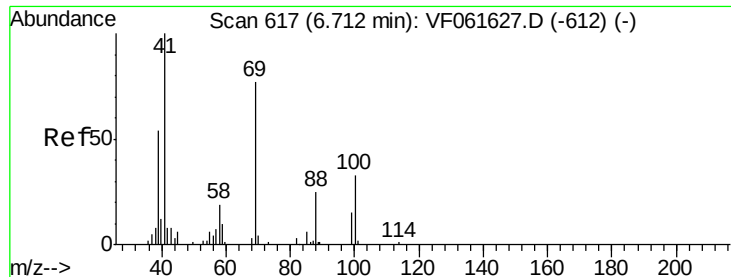
Delta R.T. 0.00 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Tgt Ion:	41	Resp:	32201
Ion	Ratio	Lower	Upper
41	100		
69	76.6	60.4	90.6
39	51.9	43.7	65.5





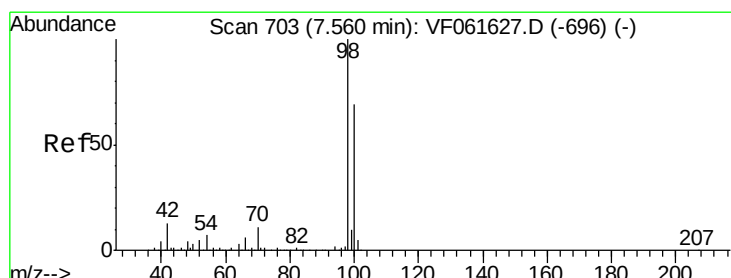
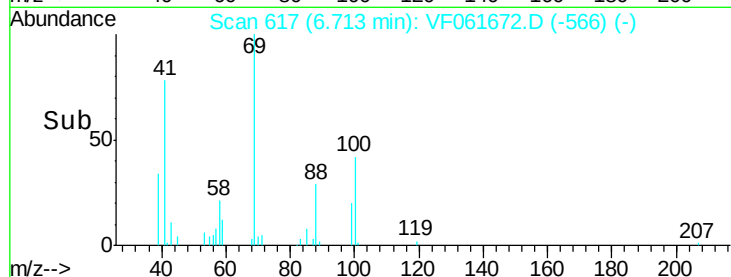
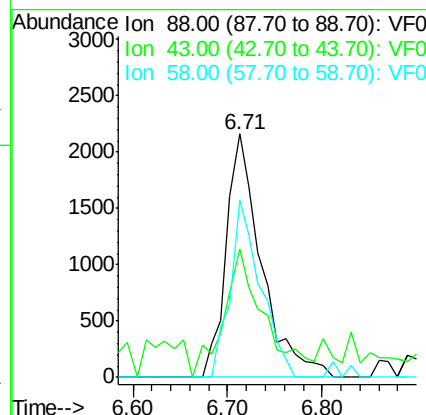
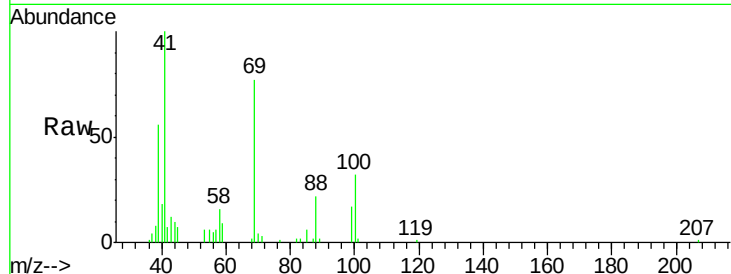
#49
1,4-Dioxane
Concen: 353.977 ug/l
RT: 6.71 min Scan# 617
Delta R.T. 0.00 min
Lab File: VF061672.D
Acq: 18 Feb 2019 12:10

Instrument :
MSVOA_F
ClientSampleId :
VF0218SBS01

Tot Ion	Ratio	Resp	Lower	Upper
88	100	5574		
43	52.6	32.3	48.5#	
58	72.7	59.4	89.2	

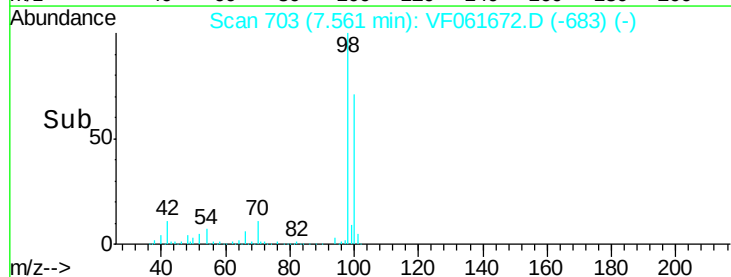
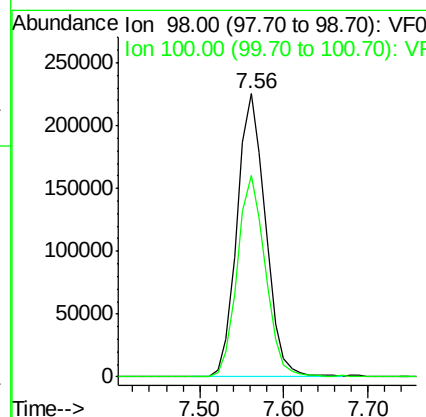
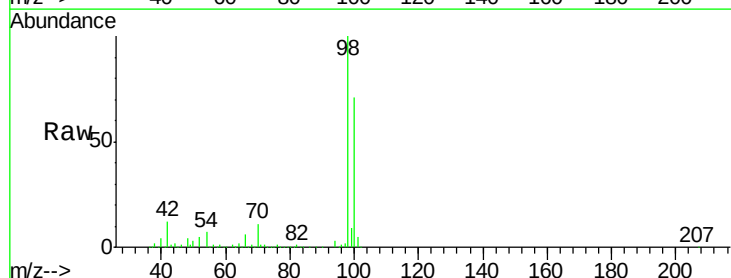
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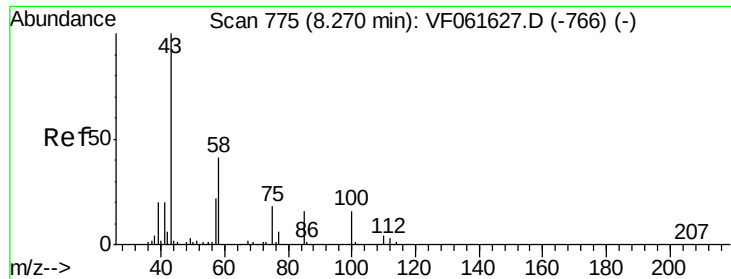
MMDadoda
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#50
Toluene-d8
Concen: 48.754 ug/l
RT: 7.56 min Scan# 703
Delta R.T. 0.00 min
Lab File: VF061672.D
Acq: 18 Feb 2019 12:10

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	531924		
100	71.1	55.4	83.2	





#51

4-Methyl-2-Pentanone

Concen: 91.410 ug/l

RT: 8.27 min Scan# 775

Delta R.T. 0.00 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Instrument :

MSVOA_F

ClientSampleId :

VF0218SBS01

Tot Ion: 43 Resp: 181807

Ion Ratio Lower Upper

43 100

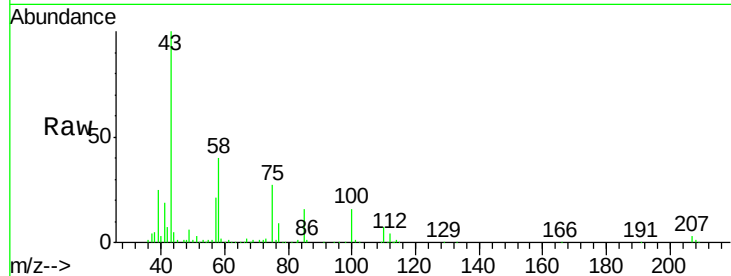
58 39.7 33.1 49.7

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.27

80000

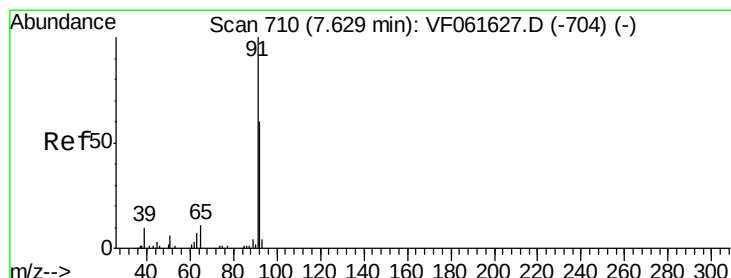
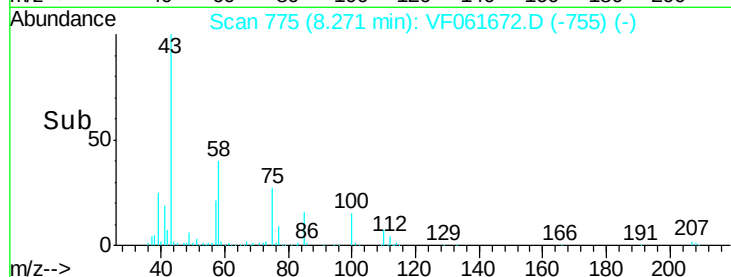
60000

40000

20000

0

Time--> 8.10 8.20 8.30 8.40



#52

Toluene

Concen: 20.571 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.00 min

Lab File: VF061672.D

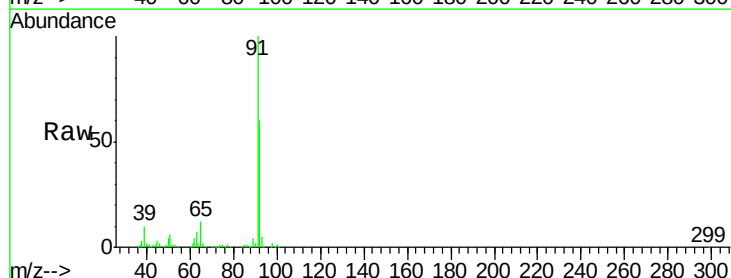
Acq: 18 Feb 2019 12:10

Tgt Ion: 92 Resp: 165216

Ion Ratio Lower Upper

92 100

91 167.0 133.9 200.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

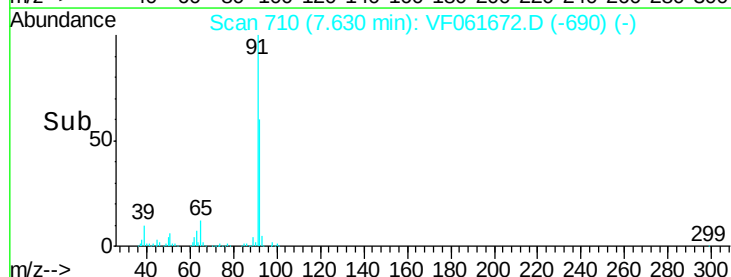
7.63

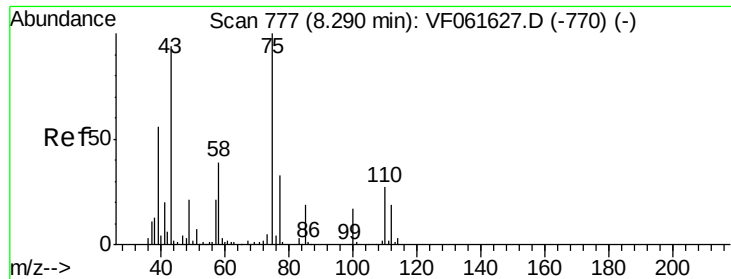
100000

50000

0

Time--> 7.50 7.60 7.70





#53

t-1,3-Dichloropropene

Concen: 21.085 ug/l

RT: 8.28 min Scan# 776

Delta R.T. -0.01 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Tot Ion: 75 Resp: 75738

Ion Ratio Lower Upper

75 100

77 32.8 26.2 39.2

Instrument :

MSVOA_F

ClientSampleId :

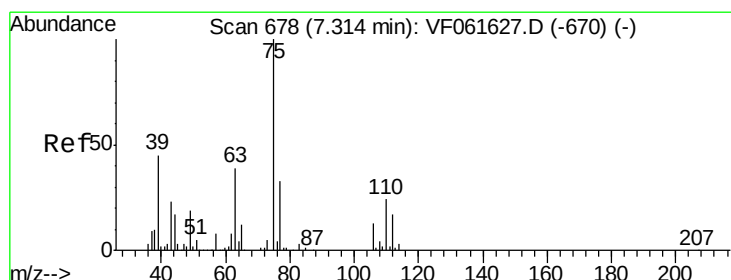
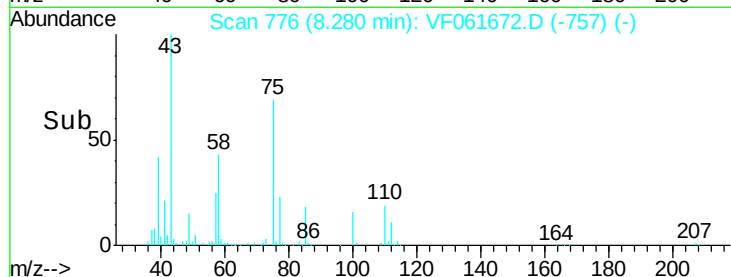
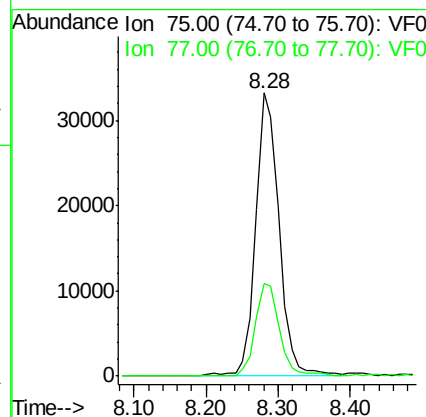
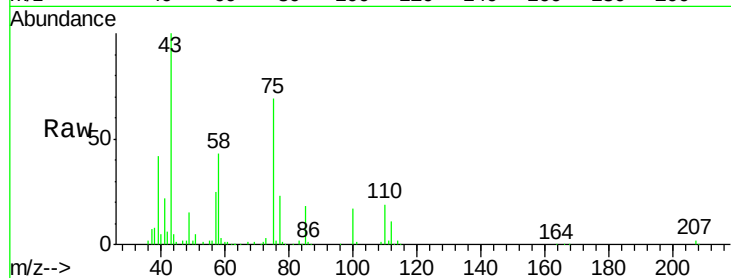
VF0218SBS01

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#54

cis-1,3-Dichloropropene

Concen: 21.175 ug/l

RT: 7.31 min Scan# 678

Delta R.T. 0.00 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

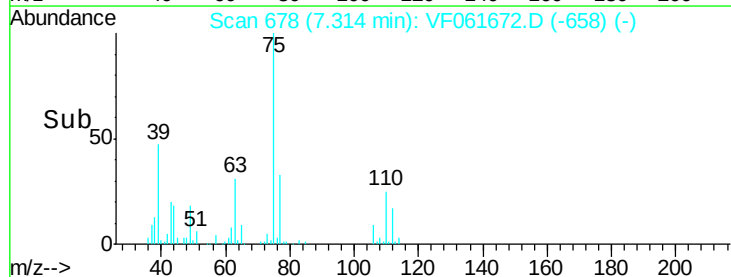
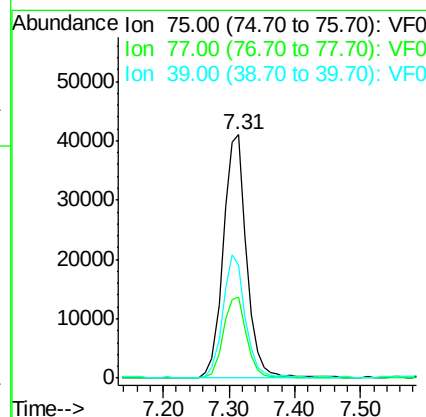
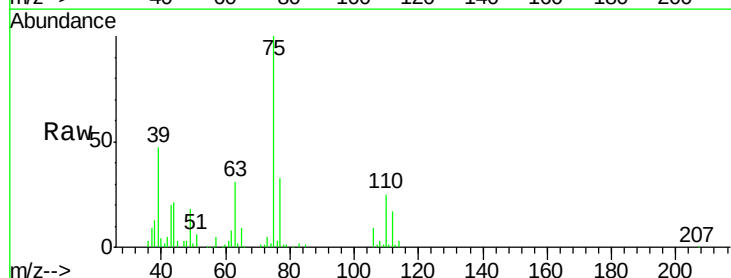
Tgt Ion: 75 Resp: 101314

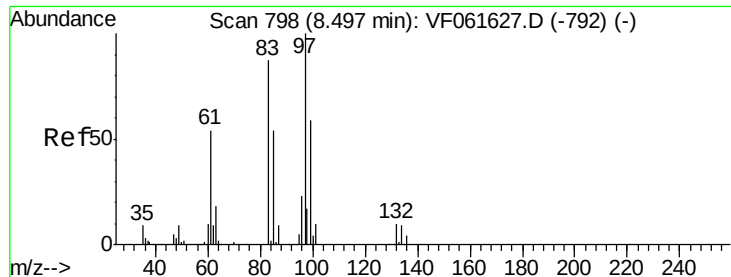
Ion Ratio Lower Upper

75 100

77 33.1 26.4 39.6

39 46.6 36.0 54.0





#55

1,1,2-Trichloroethane

Concen: 18.550 ug/l

RT: 8.50 min Scan# 798

Delta R.T. 0.00 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Instrument :

MSVOA_F

ClientSampleId :

VF0218SBS01

Tot Ion: 97 Resp: 43773

Ion Ratio Lower Upper

97 100

83 82.3 69.2 103.8

85 52.0 43.0 64.4

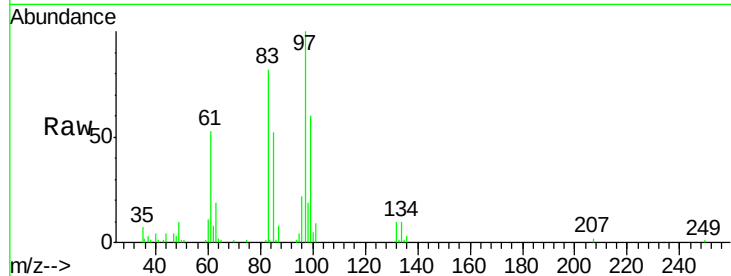
99 60.5 47.2 70.8

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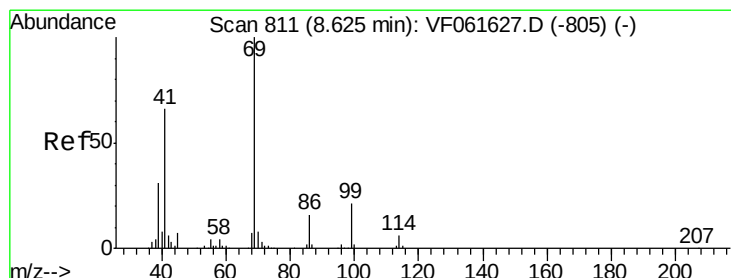
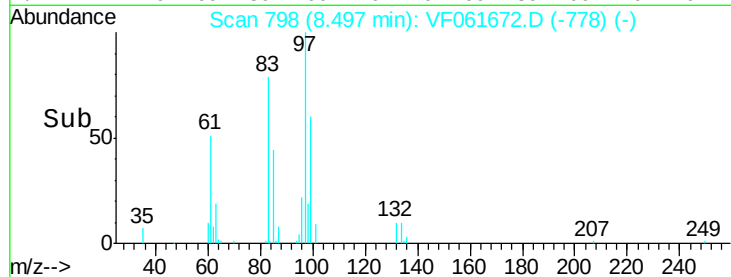
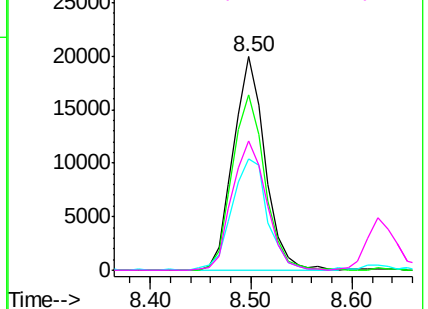


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 19.345 ug/l

RT: 8.63 min Scan# 811

Delta R.T. 0.00 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

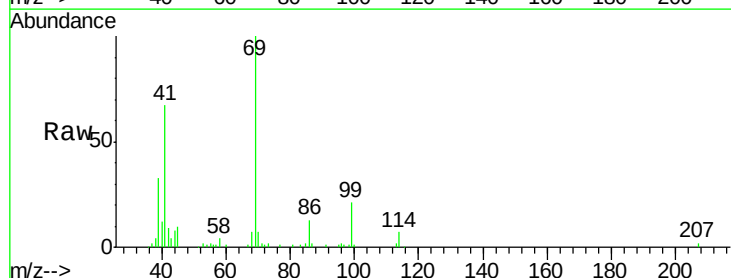
Tgt Ion: 69 Resp: 50824

Ion Ratio Lower Upper

69 100

41 67.5 52.9 79.3

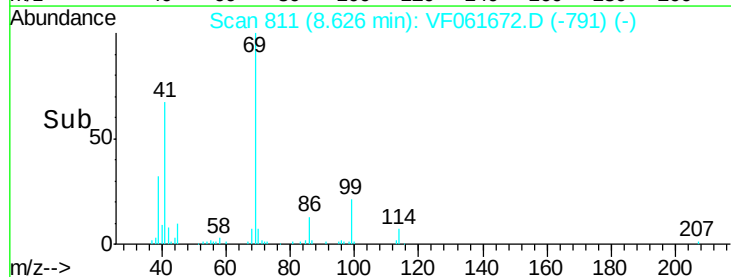
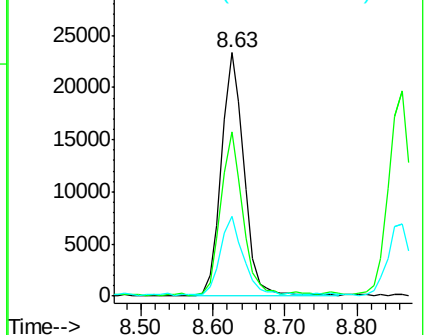
39 32.8 24.5 36.7

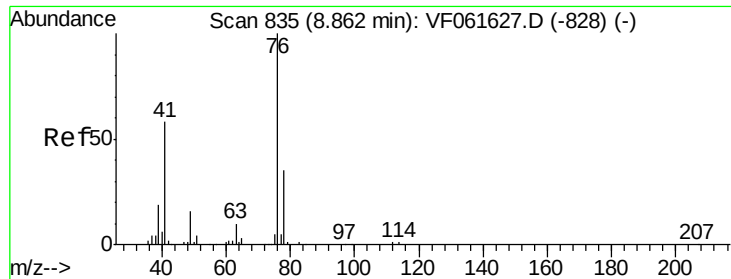


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





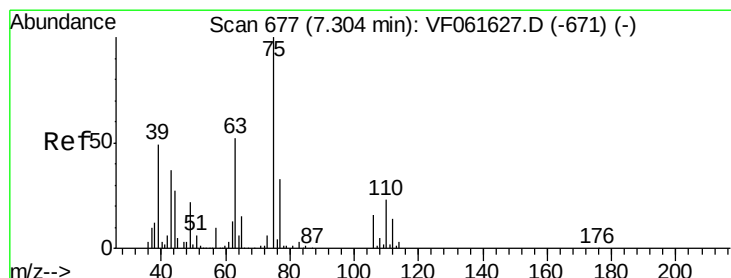
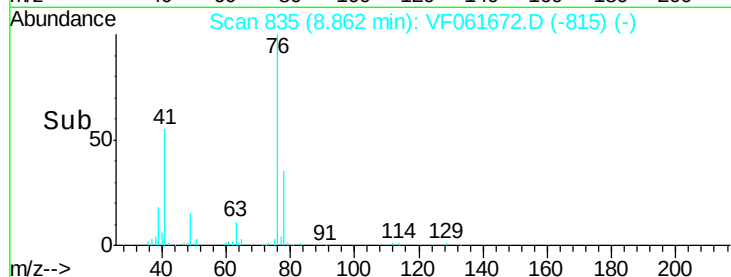
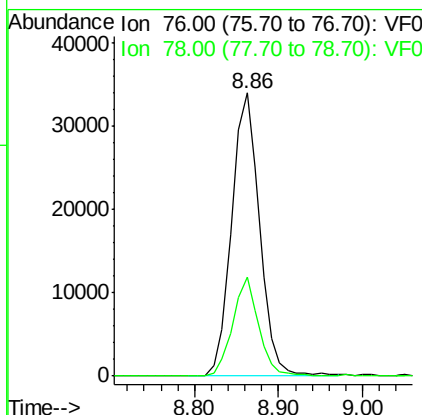
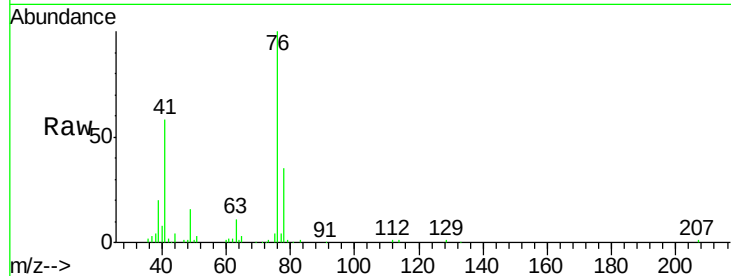
#57
 1,3-Dichloropropane
 Concen: 19.899 ug/l
 RT: 8.86 min Scan# 835
 Delta R.T. 0.00 min
 Lab File: VF061672.D
 Acq: 18 Feb 2019 12:10

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0218SBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	35.2	27.8	41.6

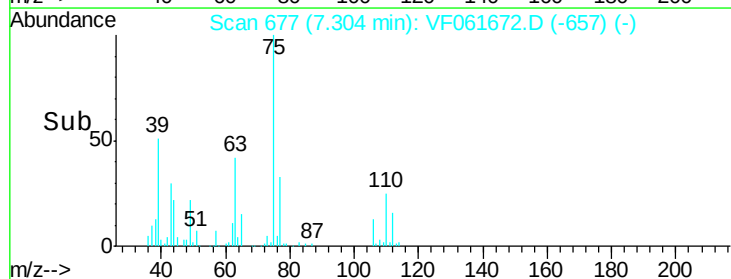
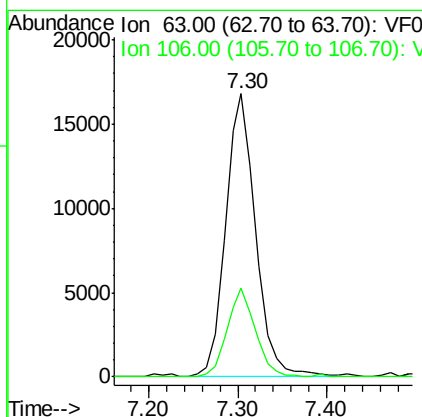
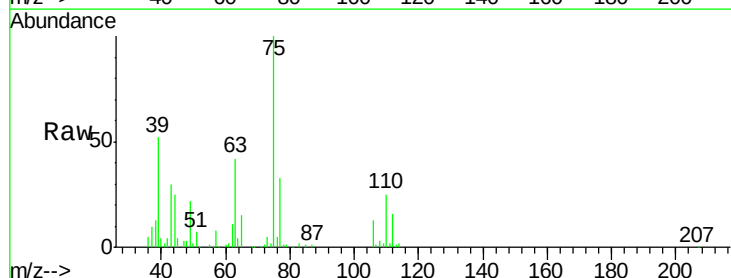
Manual Integrations
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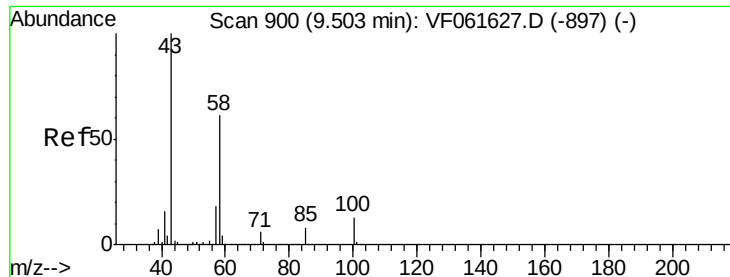
MMDadoda
 2/19/2019 12:29:13 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 87.855 ug/l
 RT: 7.30 min Scan# 677
 Delta R.T. 0.00 min
 Lab File: VF061672.D
 Acq: 18 Feb 2019 12:10

Tgt Ion	Ratio	Lower	Upper
63	100		
106	31.2	24.6	36.8





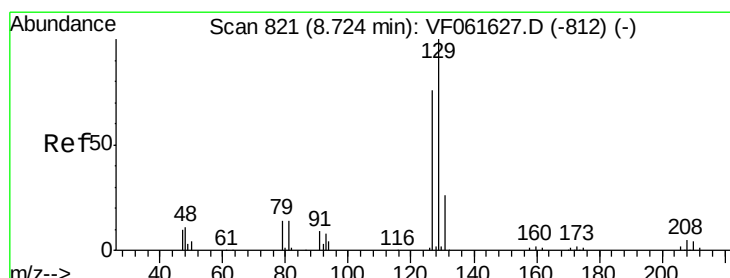
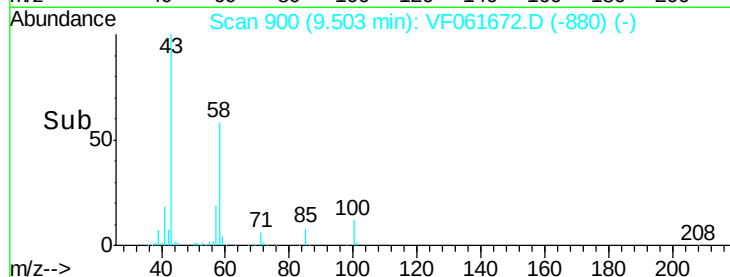
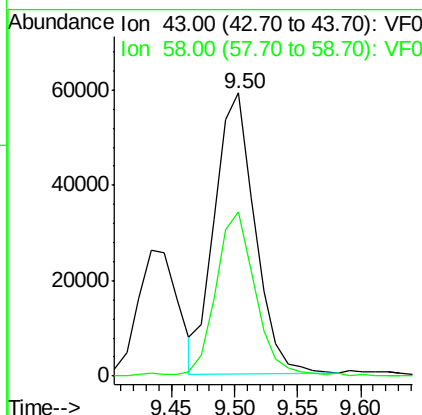
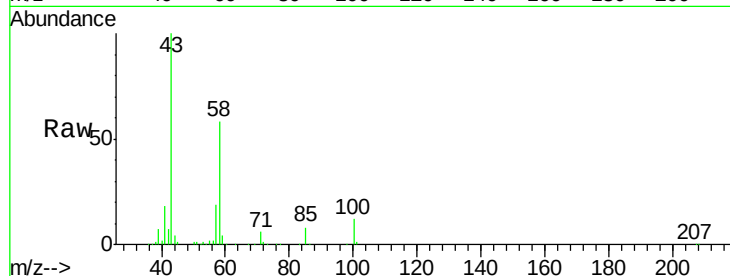
#59
2-Hexanone
Concen: 93.549 ug/l
RT: 9.50 min Scan# 900
Delta R.T. 0.00 min
Lab File: VF061672.D
Acq: 18 Feb 2019 12:10

Instrument :
MSVOA_F
ClientSampleId :
VF0218SBS01

Tot Ion: 43 Resp: 130425
Ion Ratio Lower Upper
43 100
58 57.9 28.5 85.5

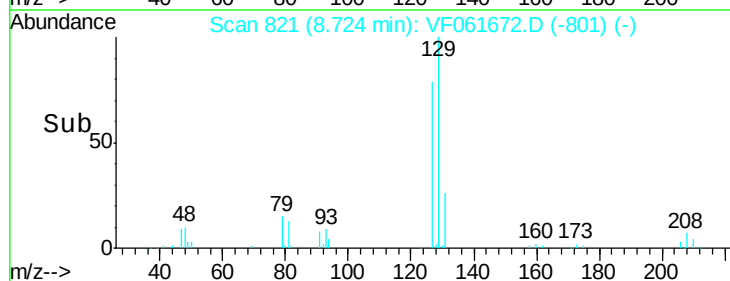
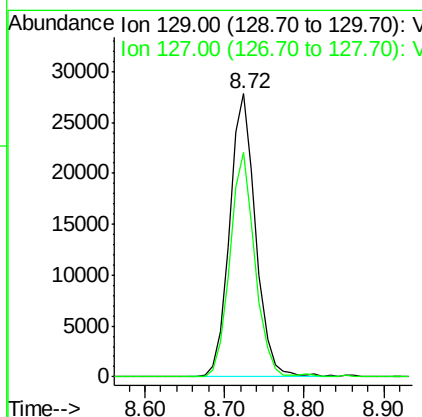
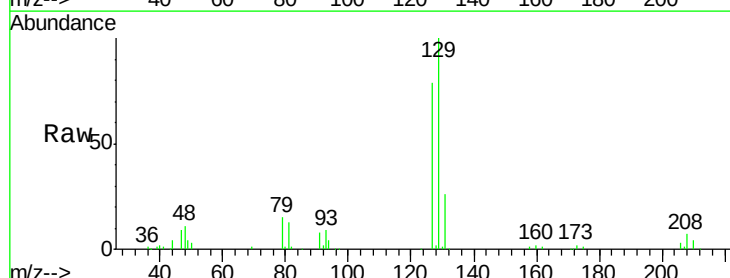
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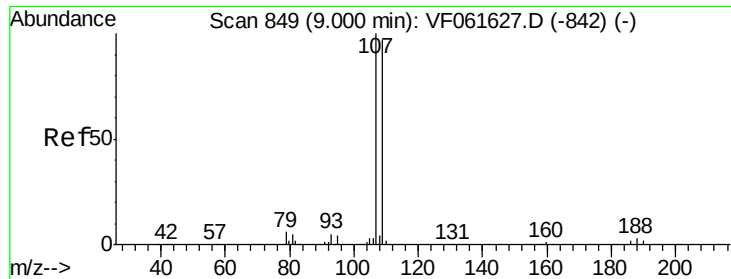
MMDadoda
2/19/2019 12:29:13 PM



#60
Dibromochloromethane
Concen: 19.347 ug/l
RT: 8.72 min Scan# 821
Delta R.T. 0.00 min
Lab File: VF061672.D
Acq: 18 Feb 2019 12:10

Tgt Ion: 129 Resp: 63545
Ion Ratio Lower Upper
129 100
127 79.2 37.8 113.4





#61

1,2-Dibromoethane

Concen: 19.787 ug/l

RT: 8.99 min Scan# 848

Delta R.T. -0.01 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Instrument :

MSVOA_F

ClientSampleId :

VF0218SBS01

Tot Ion:107 Resp: 50645

Ion Ratio Lower Upper

107 100

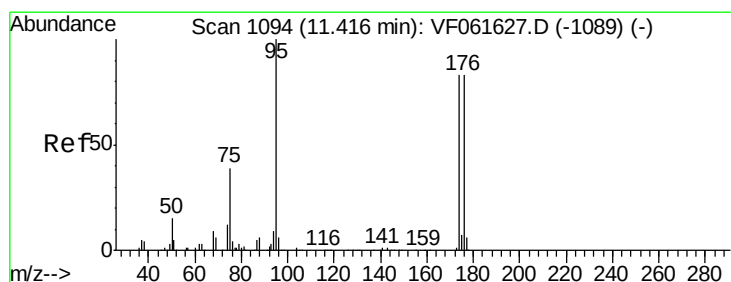
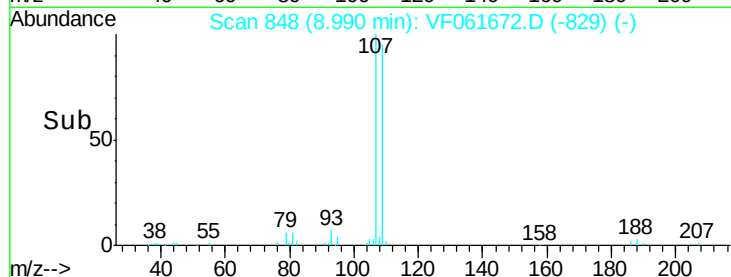
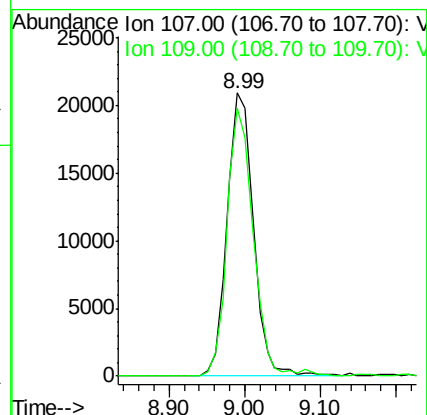
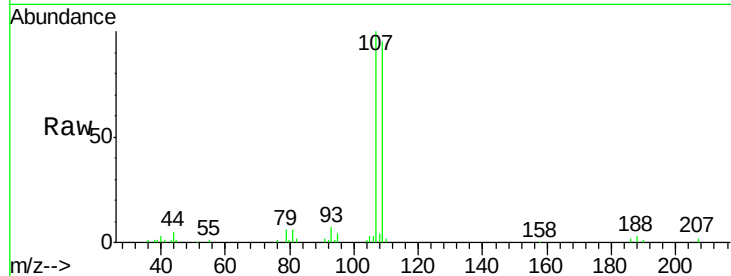
109 94.7 77.4 116.0

Manual Integrations

APPROVED

MMDadoda

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#62

4-Bromofluorobenzene

Concen: 48.934 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.00 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

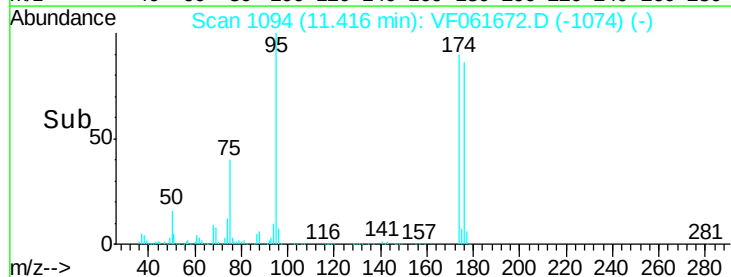
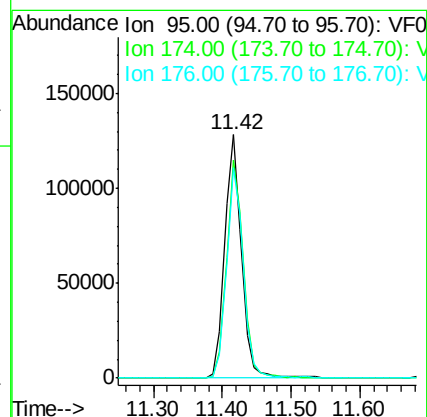
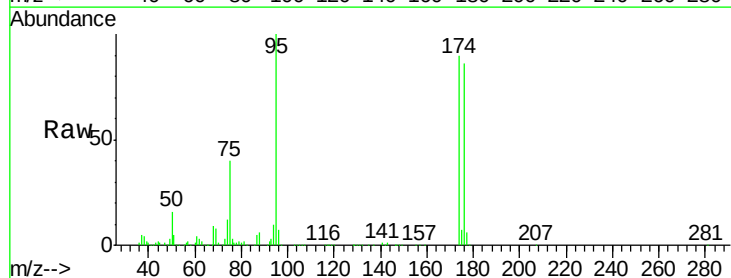
Tgt Ion: 95 Resp: 216023

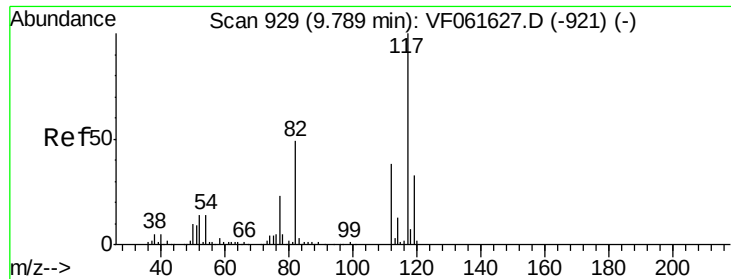
Ion Ratio Lower Upper

95 100

174 89.7 0.0 165.8

176 86.3 0.0 167.0





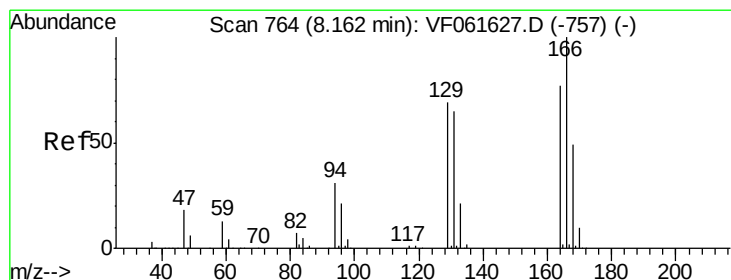
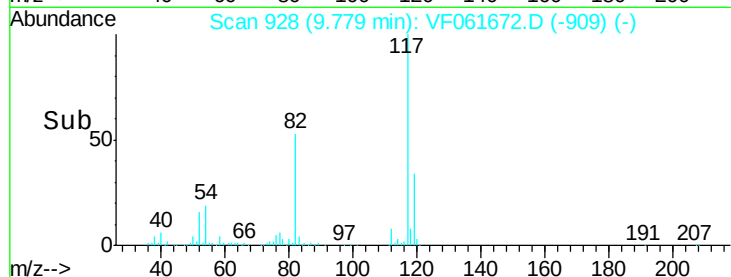
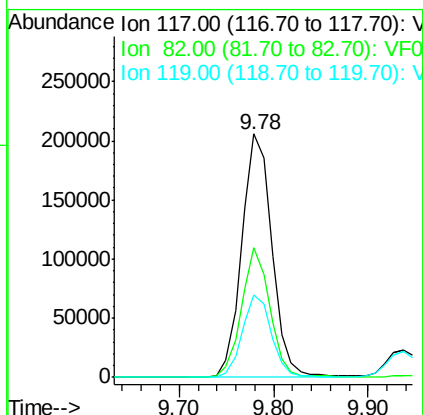
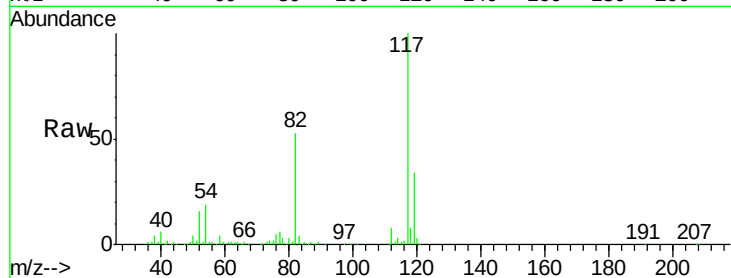
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.01 min
Lab File: VF061672.D
Acq: 18 Feb 2019 12:10

Instrument :
MSVOA_F
ClientSampleId :
VF0218SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	455689		
82	53.3	39.3	58.9	
119	33.8	26.6	40.0	

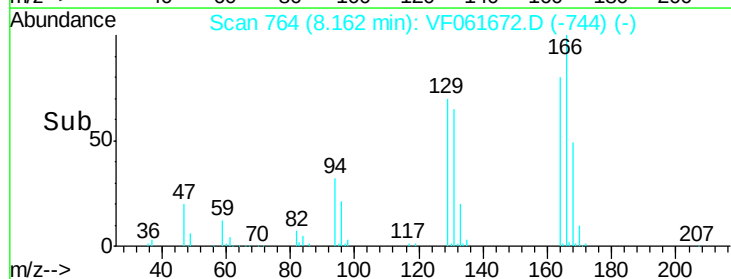
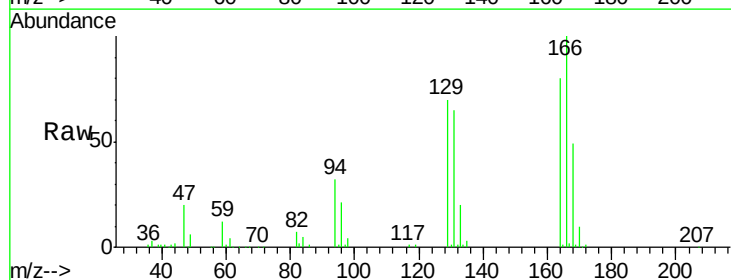
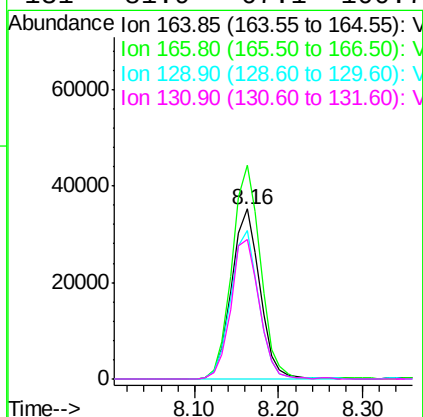
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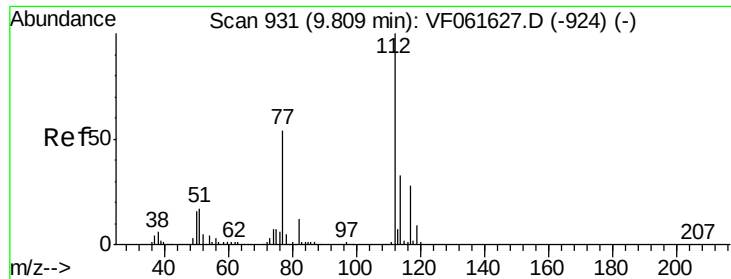
MMDadoda
2/19/2019 12:29:13 PM



#64
Tetrachloroethene
Concen: 22.298 ug/l
RT: 8.16 min Scan# 764
Delta R.T. 0.00 min
Lab File: VF061672.D
Acq: 18 Feb 2019 12:10

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	83053		
166	125.5	103.9	155.9	
129	87.6	71.3	106.9	
131	81.9	67.1	100.7	





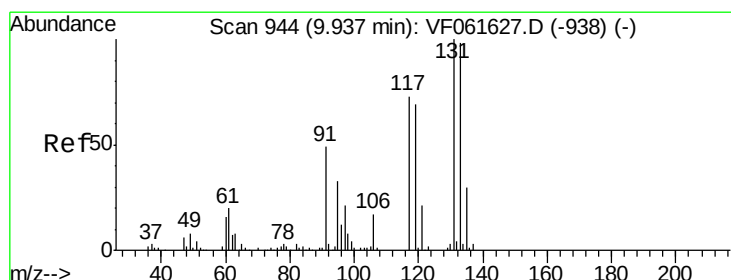
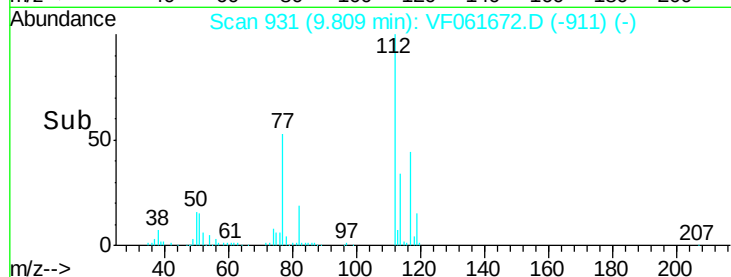
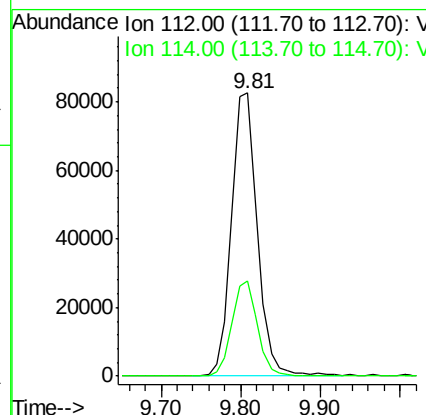
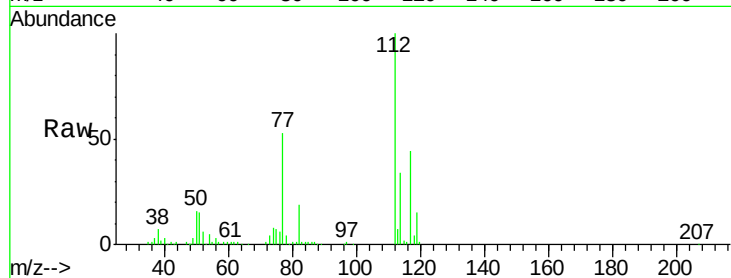
#65
Chlorobenzene
Concen: 20.519 ug/l
RT: 9.81 min Scan# 931
Delta R.T. 0.00 min
Lab File: VF061672.D
Acq: 18 Feb 2019 12:10

Instrument :
MSVOA_F
ClientSampleId :
VF0218SBS01

Tot Ion:112 Resp: 189738
Ion Ratio Lower Upper
112 100
114 33.8 26.2 39.2

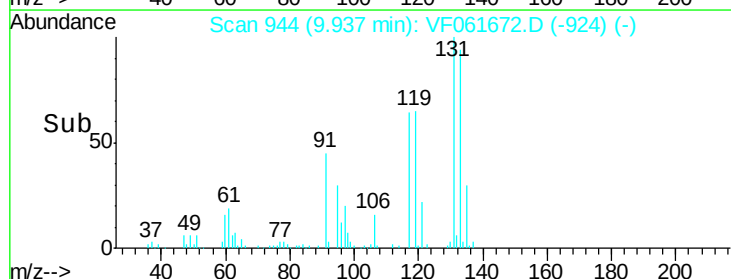
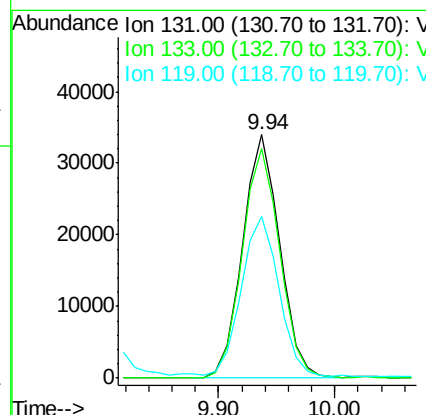
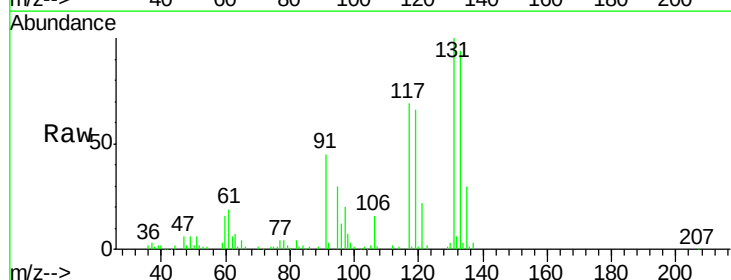
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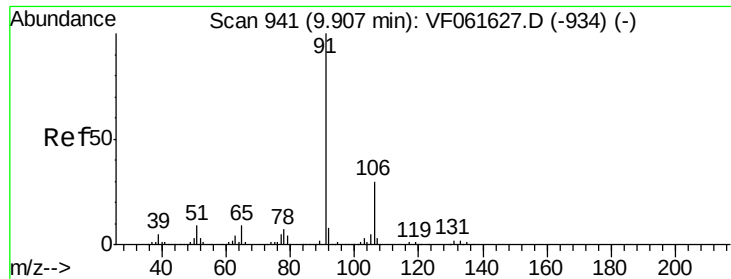
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 20.716 ug/l
RT: 9.94 min Scan# 944
Delta R.T. 0.00 min
Lab File: VF061672.D
Acq: 18 Feb 2019 12:10

Tgt Ion:131 Resp: 75062
Ion Ratio Lower Upper
131 100
133 94.3 48.9 146.6
119 66.2 34.8 104.3





#67

Ethyl Benzene

Concen: 21.612 ug/l

RT: 9.91 min Scan# 941

Delta R.T. 0.00 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Instrument :

MSVOA_F

ClientSampleId :

VF0218SBS01

Tot Ion: 91 Resp: 332346

Ion Ratio Lower Upper

91 100

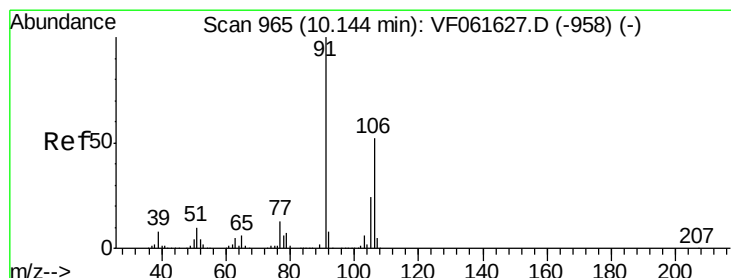
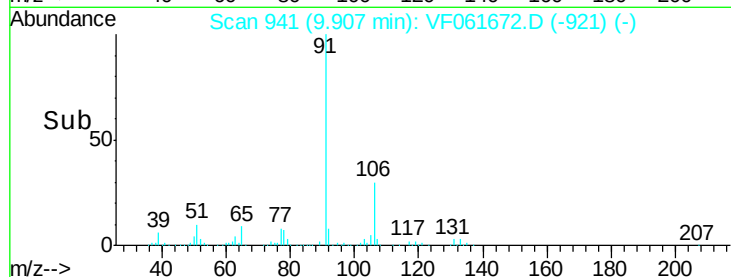
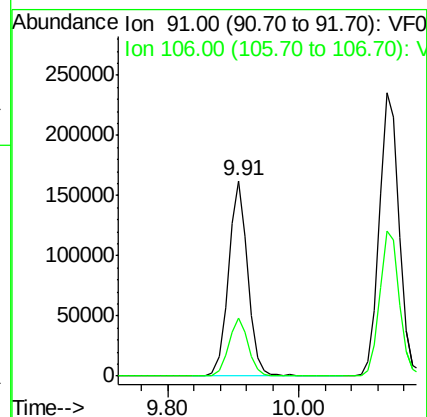
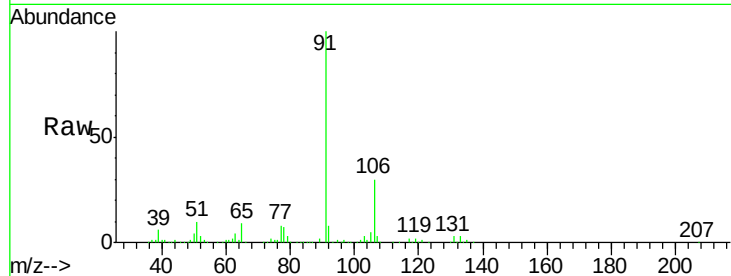
106 29.7 24.1 36.1

Manual Integrations

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MMDadoda

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#68

m/p-Xylenes

Concen: 43.600 ug/l

RT: 10.13 min Scan# 964

Delta R.T. -0.01 min

Lab File: VF061672.D

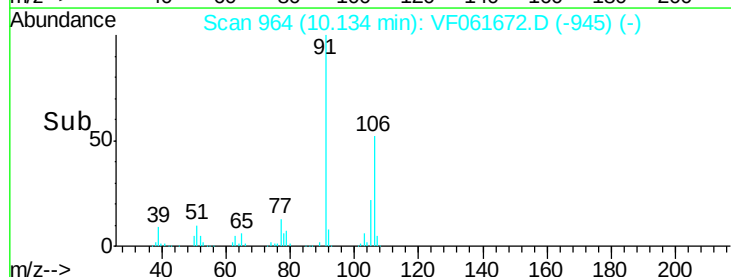
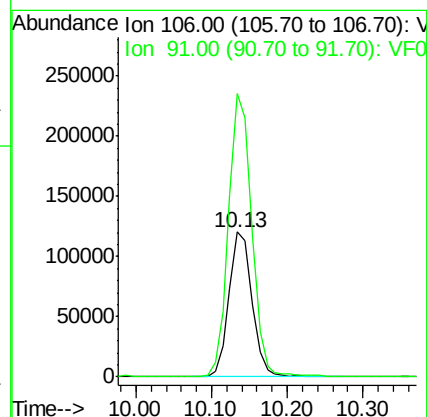
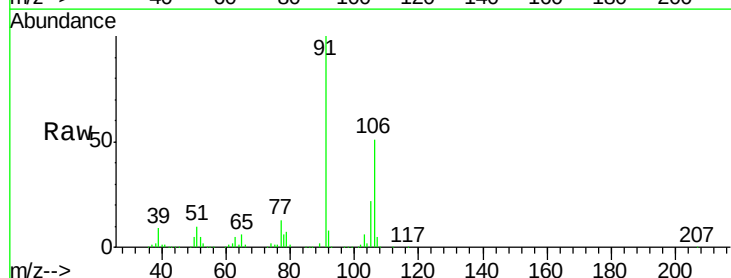
Acq: 18 Feb 2019 12:10

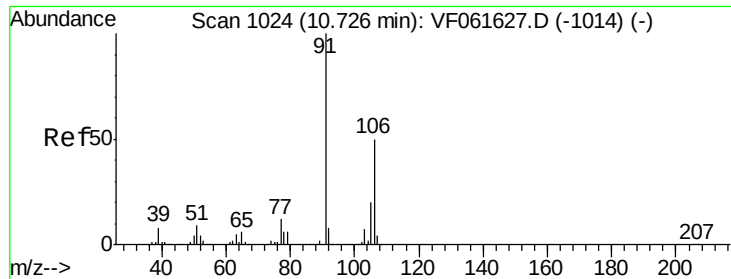
Tgt Ion: 106 Resp: 256596

Ion Ratio Lower Upper

106 100

91 195.8 153.0 229.6





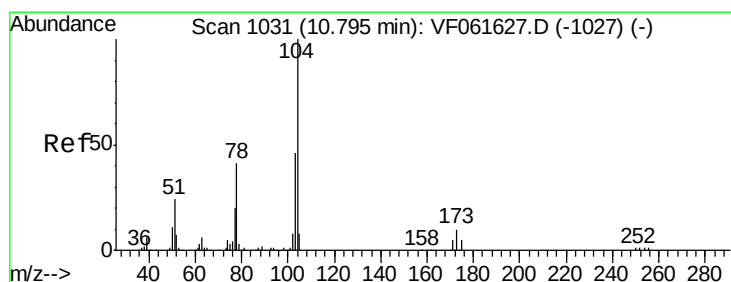
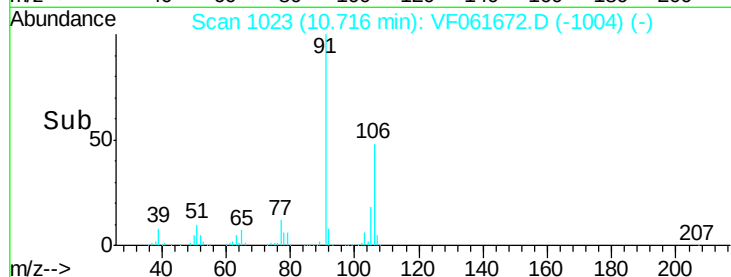
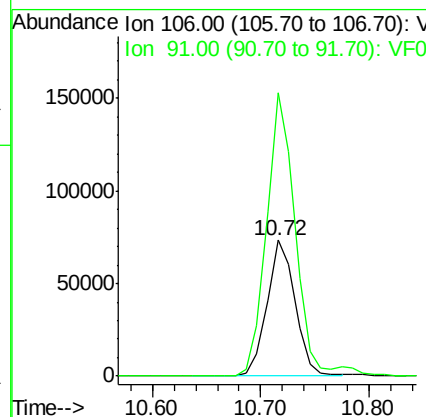
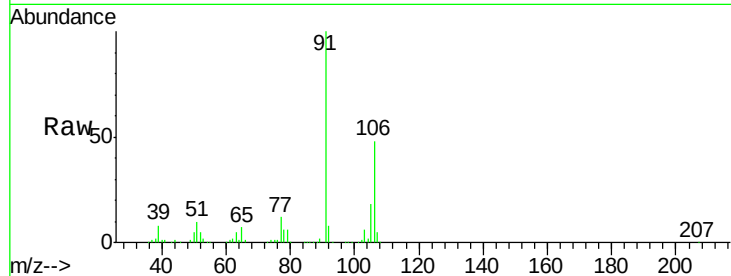
#69
o-Xylene
Concen: 21.244 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. -0.01 min
Lab File: VF061672.D
Acq: 18 Feb 2019 12:10

Instrument :
MSVOA_F
ClientSampleId :
VF0218SBS01

Tot Ion	Ratio	Resp	Lower	Upper
106	100	133408		
91	208.3	100.1	300.1	

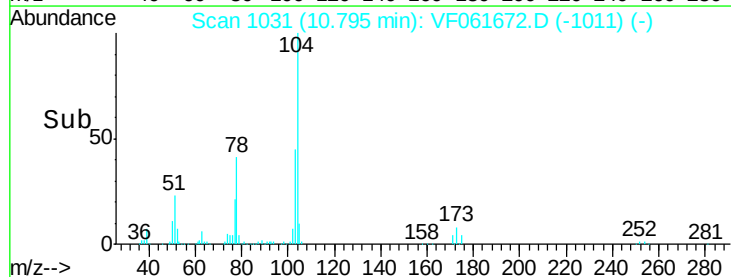
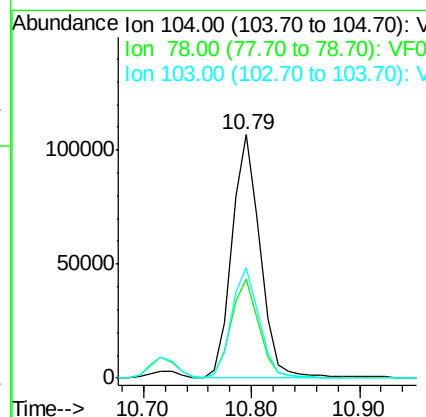
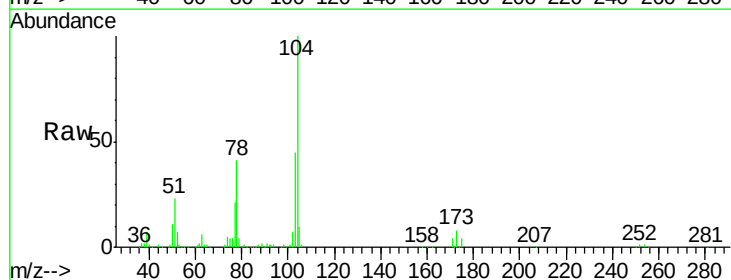
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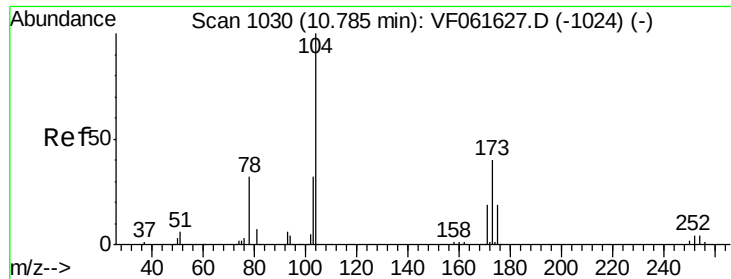
MMDadoda
2/19/2019 12:29:13 PM



#70
Styrene
Concen: 21.501 ug/l
RT: 10.79 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VF061672.D
Acq: 18 Feb 2019 12:10

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	191014		
78	40.6	33.2	49.8	
103	45.4	37.2	55.8	





#71

Bromoform

Concen: 18.216 ug/l

RT: 10.78 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Instrument :

MSVOA_F

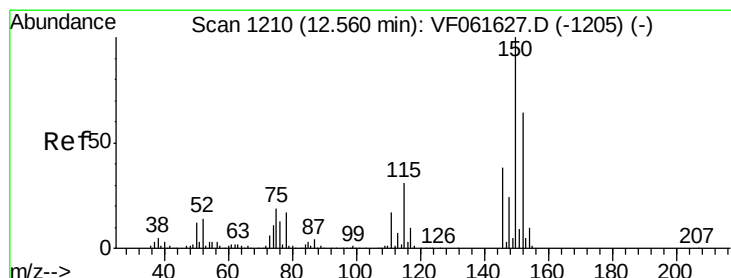
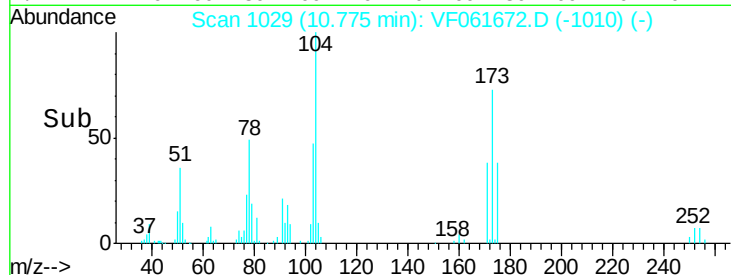
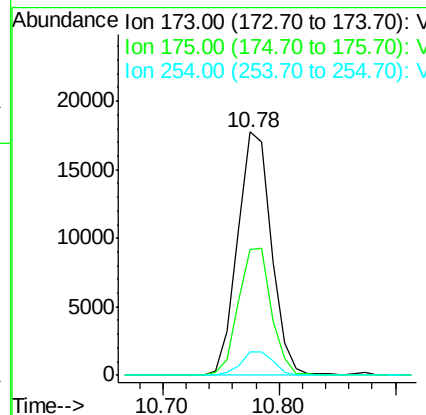
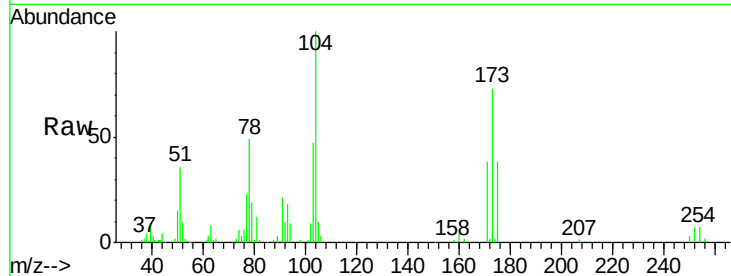
ClientSampleId :

VF0218SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	51.8	24.0	72.0
254	9.6	8.2	12.2

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

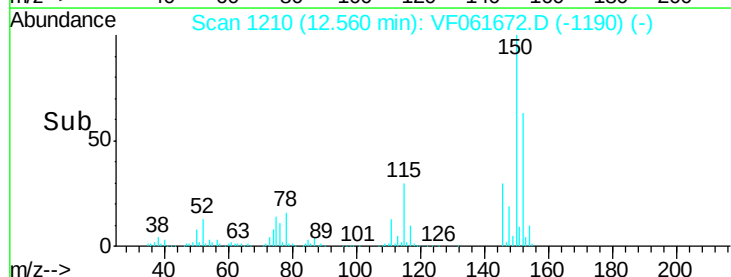
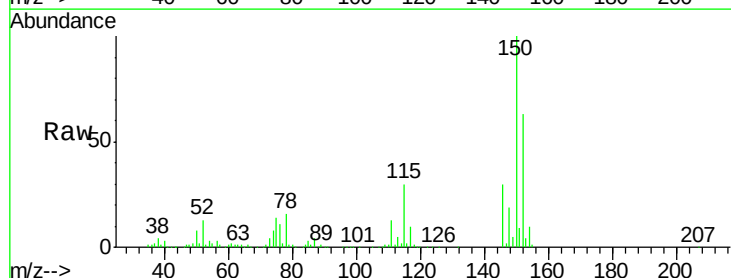
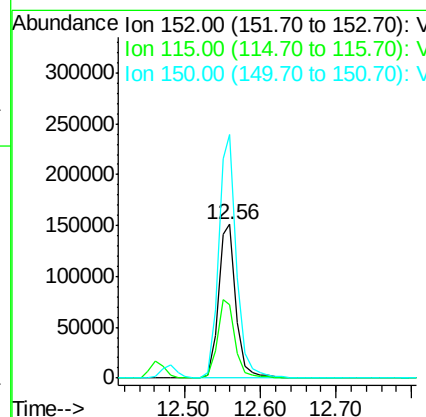
RT: 12.56 min Scan# 1210

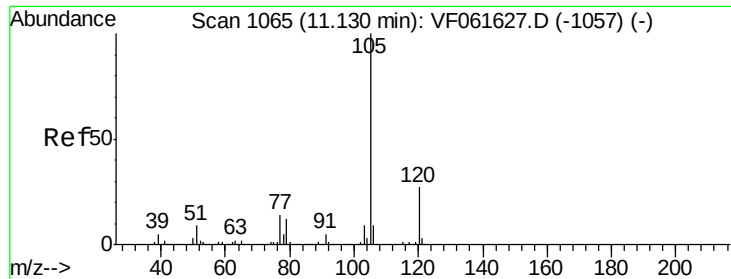
Delta R.T. 0.00 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Tgt Ion	Ratio	Lower	Upper
152	100		
115	47.8	24.3	72.8
150	158.6	0.0	312.0





#73

Isopropylbenzene

Concen: 21.561 ug/l

RT: 11.13 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Instrument :

MSVOA_F

ClientSampleId :

VF0218SBS01

Tot Ion:105 Resp: 381714

Ion Ratio Lower Upper

105 100

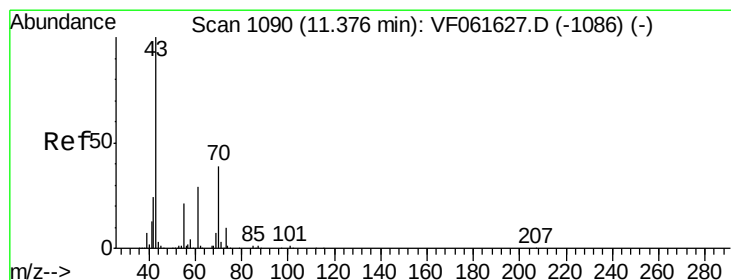
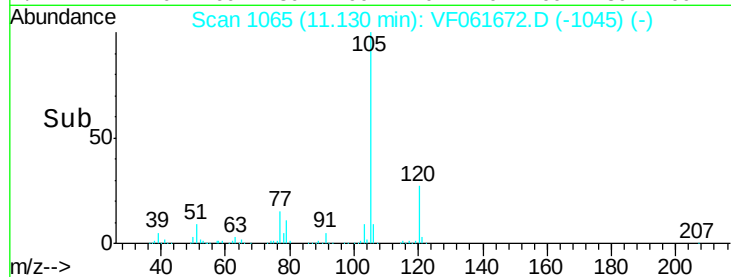
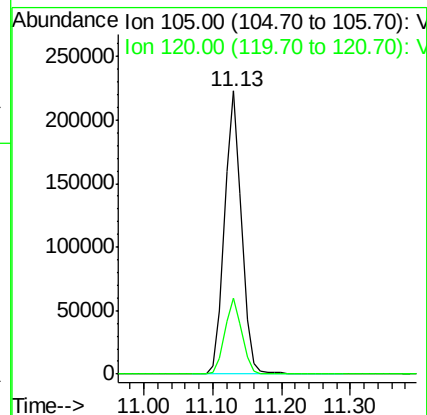
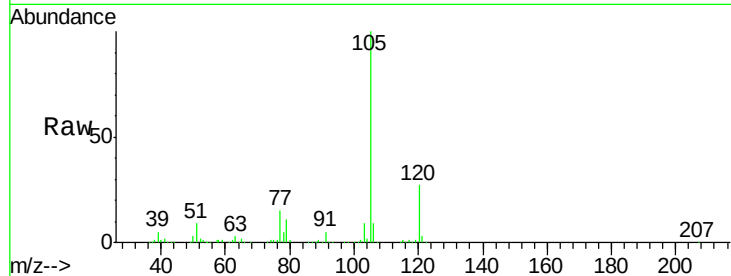
120 26.8 13.4 40.1

Manual Integrations

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#74

N-ethyl acetate

Concen: 18.457 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Tgt Ion: 43 Resp: 78431

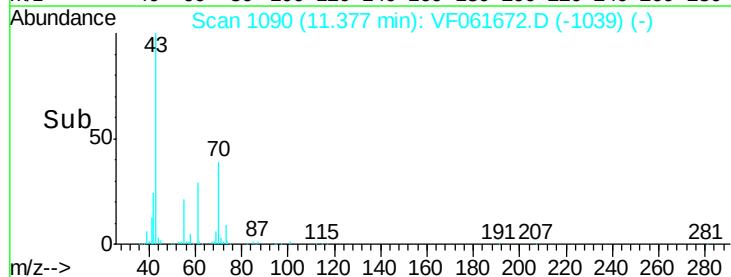
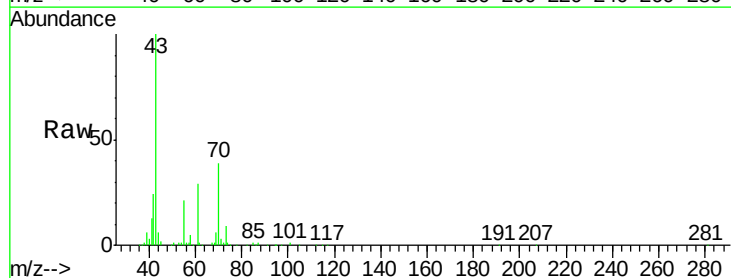
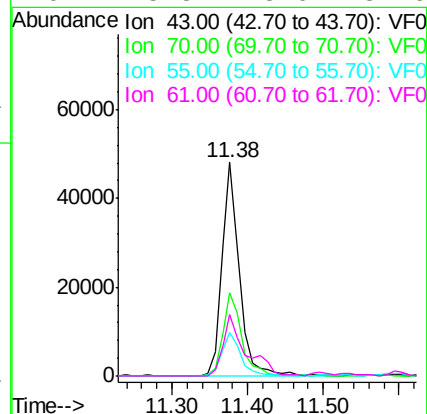
Ion Ratio Lower Upper

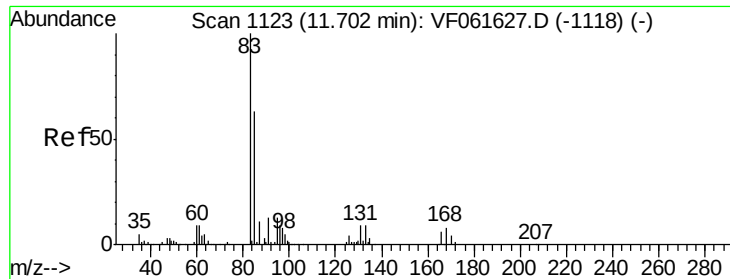
43 100

70 39.2 31.5 47.3

55 20.7 16.7 25.1

61 28.8 23.0 34.6





#75

1,1,2,2-Tetrachloroethane

Concen: 18.071 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Instrument :

MSVOA_F

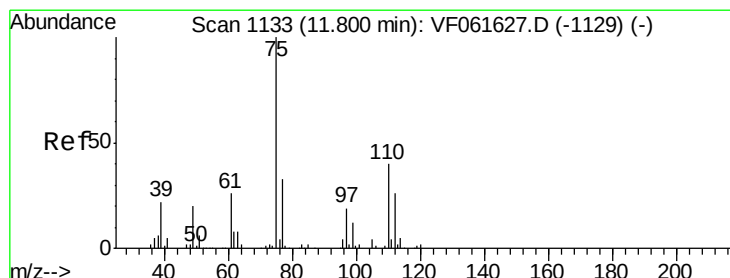
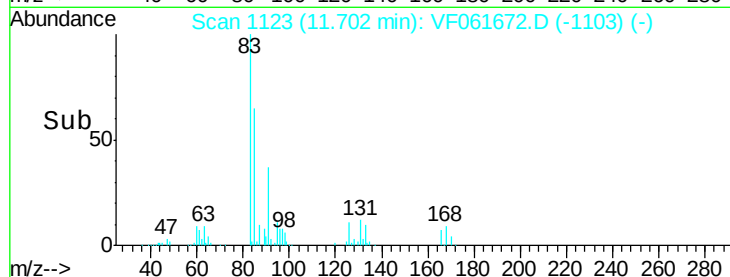
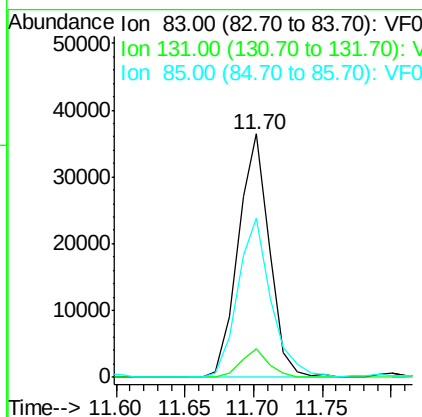
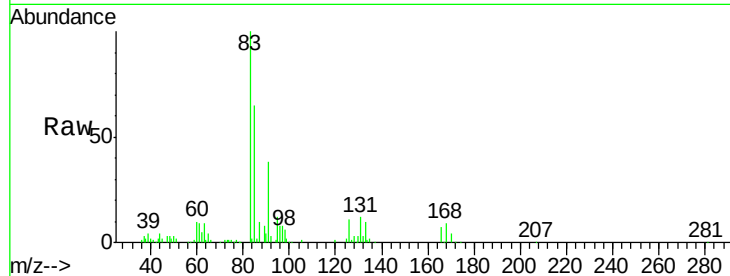
ClientSampleId :

VF0218SBS01

Tot Ion:	83	Resp:	57315
Ion Ratio	Lower	Upper	
83	100		
131	11.9	4.4	13.2
85	65.2	31.5	94.5

Manual Integrations
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2/19/2019 12:29:13 PM



#76

1,2,3-Trichloropropane

Concen: 18.526 ug/l

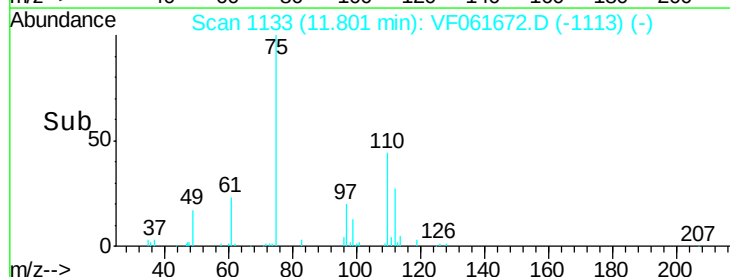
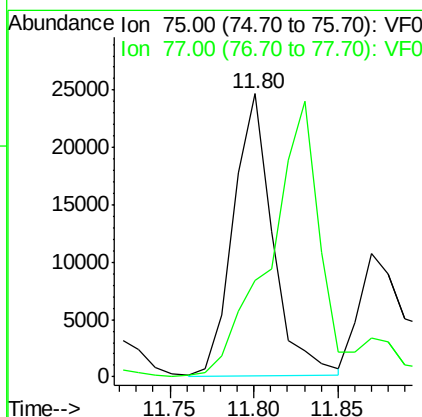
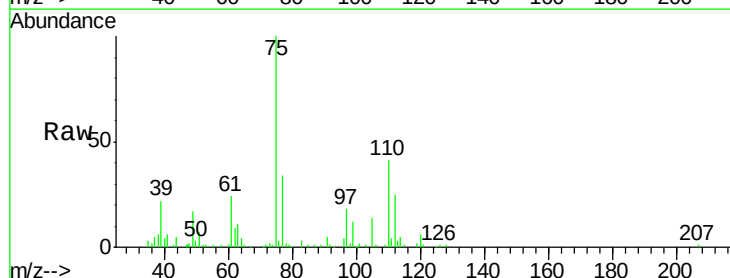
RT: 11.80 min Scan# 1133

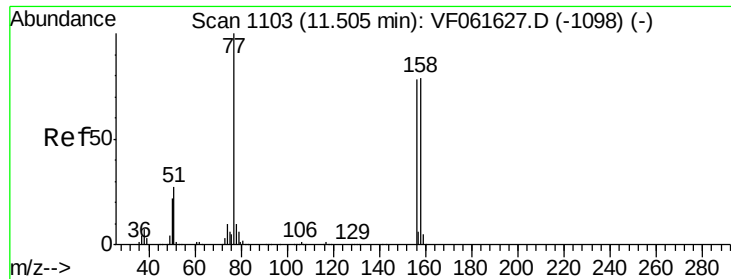
Delta R.T. 0.00 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Tgt Ion:	75	Resp:	39949
Ion Ratio	Lower	Upper	
75	100		
77	34.0	16.6	49.7





#77

Bromobenzene

Concen: 20.132 ug/l

RT: 11.49 min Scan# 1102

Delta R.T. -0.01 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Instrument :

MSVOA_F

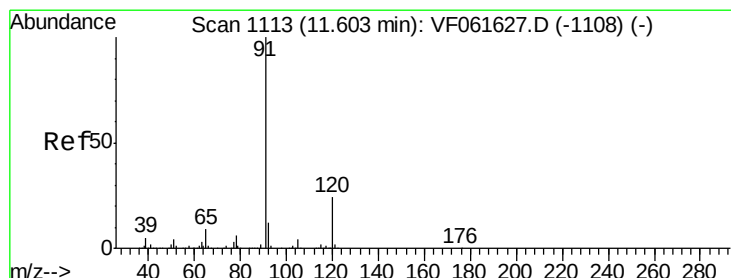
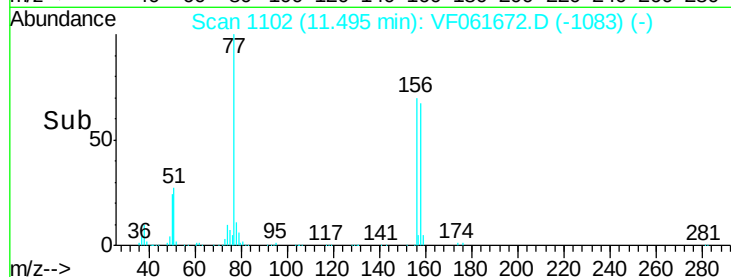
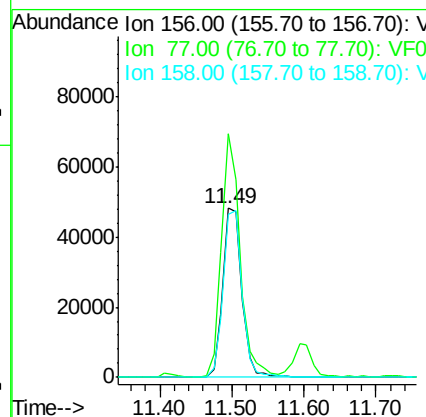
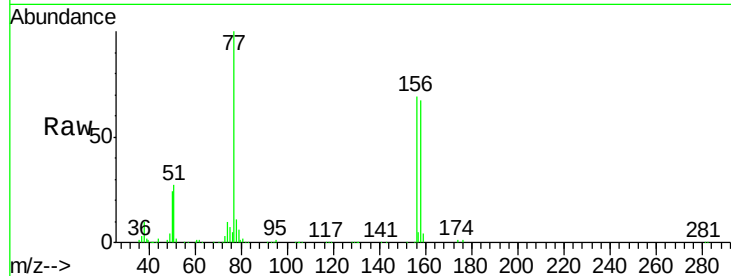
ClientSampleId :

VF0218SBS01

Tot Ion:	156	Resp:	88049
Ion Ratio	Lower	Upper	
156	100		
77	144.1	64.3	192.7
158	96.4	50.9	152.7

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#78

n-propylbenzene

Concen: 22.403 ug/l

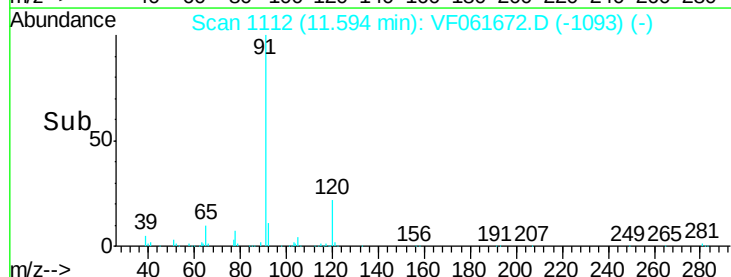
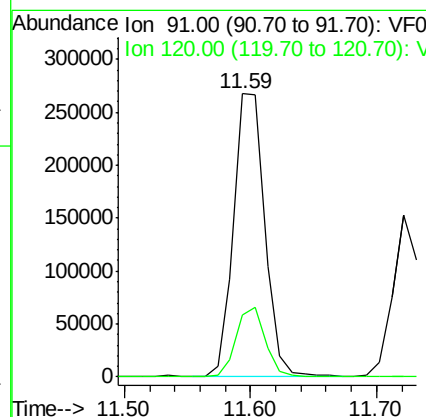
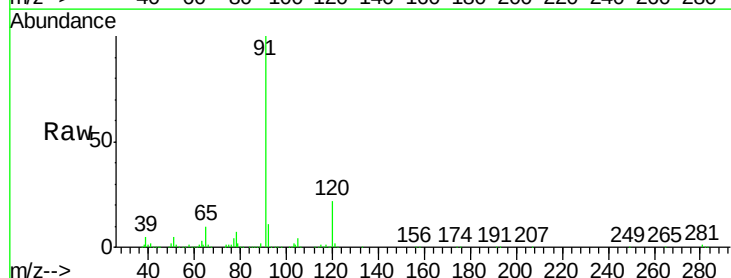
RT: 11.59 min Scan# 1112

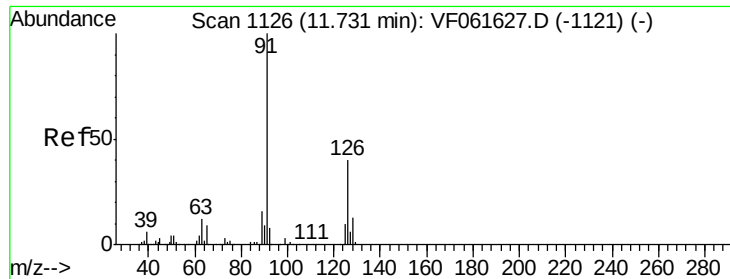
Delta R.T. -0.01 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Tgt Ion:	91	Resp:	455127
Ion Ratio	Lower	Upper	
91	100		
120	22.0	12.1	36.3





#79

2-Chlorotoluene

Concen: 20.467 ug/l

RT: 11.72 min Scan# 1125

Delta R.T. -0.01 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Instrument :

MSVOA_F

ClientSampleId :

VF0218SBS01

Tot Ion: 91 Resp: 232868

Ion Ratio Lower Upper

91 100

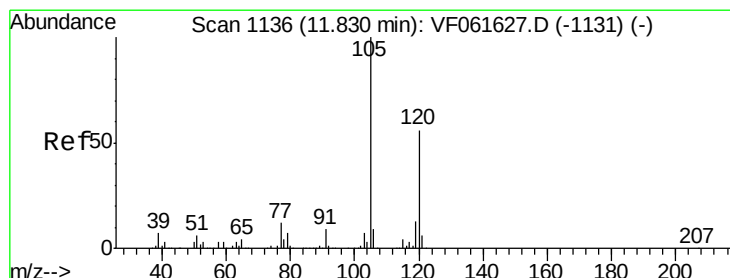
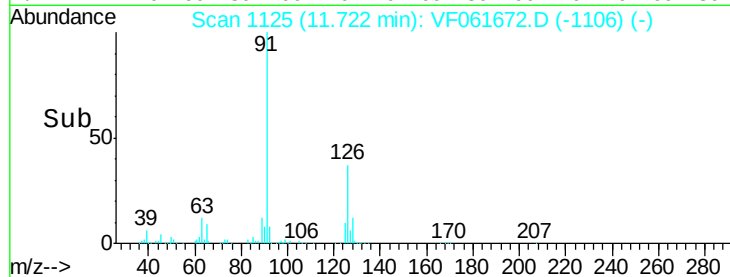
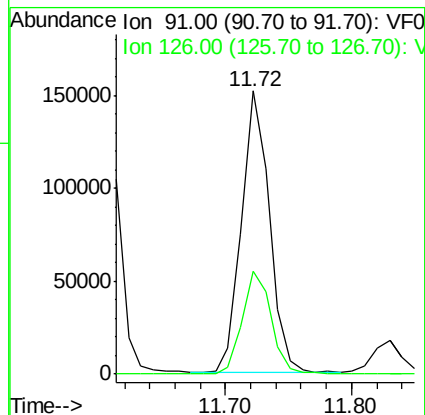
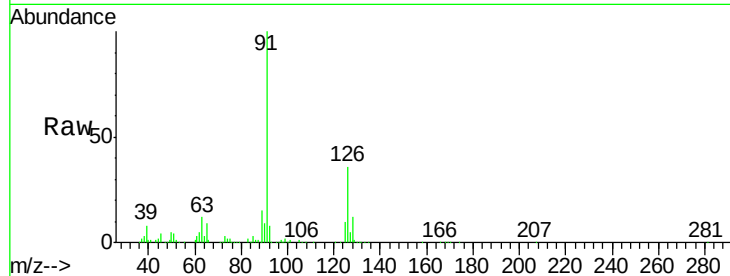
126 36.5 19.8 59.4

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#80

1,3,5-Trimethylbenzene

Concen: 20.961 ug/l

RT: 11.83 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VF061672.D

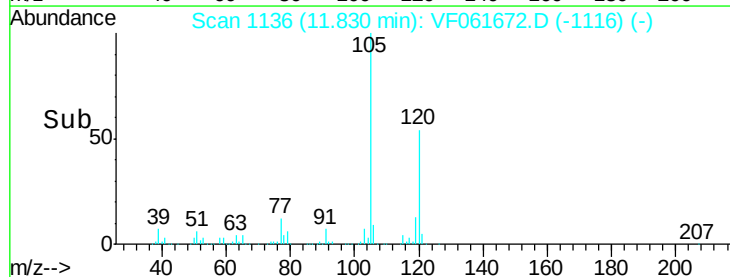
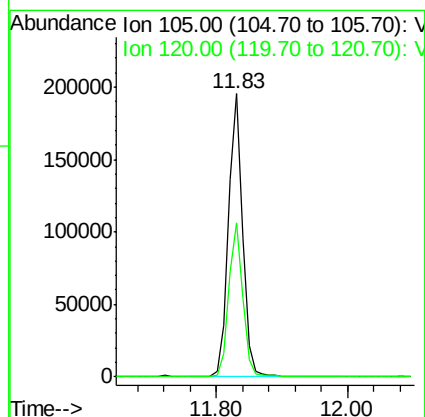
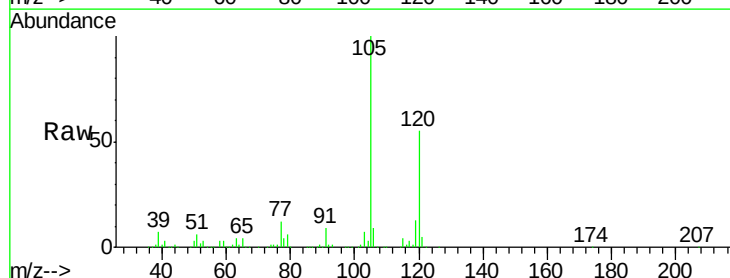
Acq: 18 Feb 2019 12:10

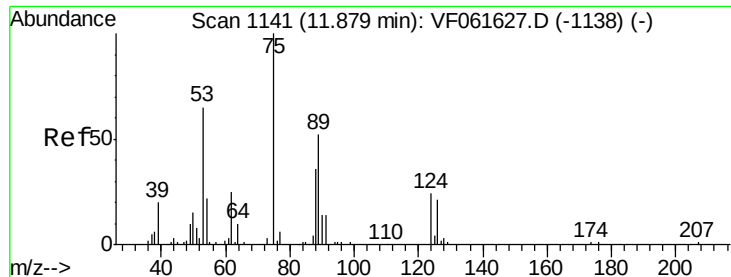
Tgt Ion:105 Resp: 296595

Ion Ratio Lower Upper

105 100

120 54.6 27.9 83.6





#81

trans-1,4-Dichloro-2-butene

Concen: 19.512 ug/l m

RT: 11.87 min Scan# 1140

Delta R.T. -0.01 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Instrument :

MSVOA_F

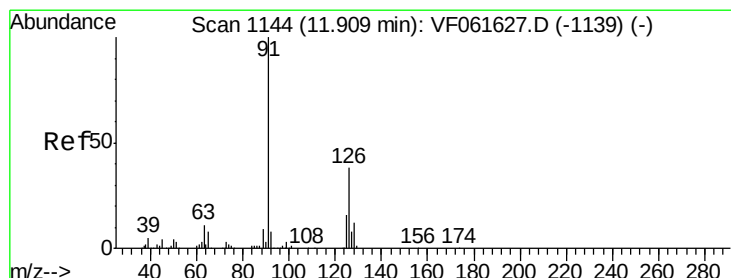
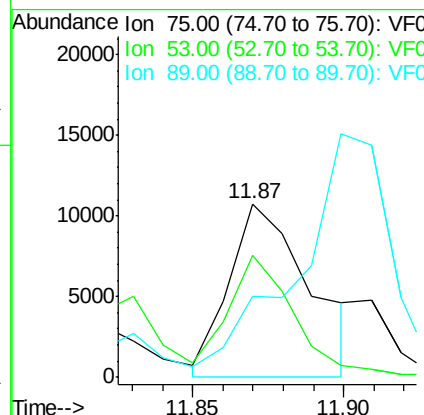
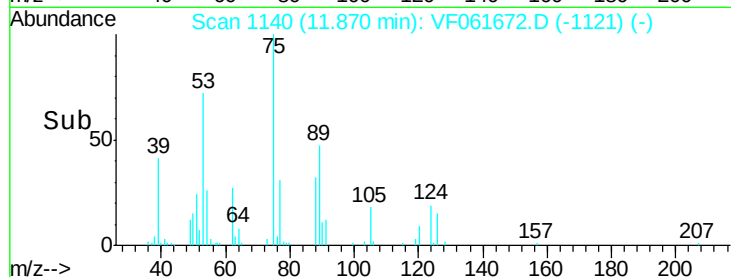
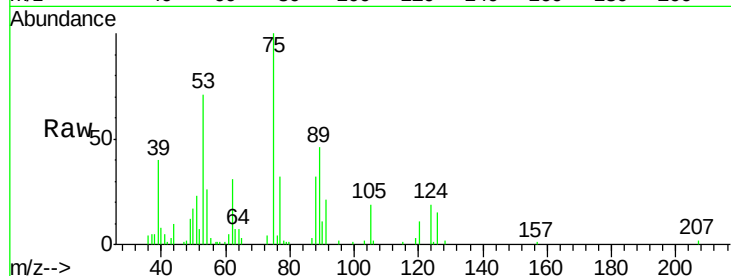
ClientSampleId :

VF0218SBS01

Tot Ion:	75	Resp:	20172
Ion	Ratio	Lower	Upper
75	100		
53	70.5	53.7	80.5
89	46.3	41.6	62.4

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#82

4-Chlorotoluene

Concen: 21.008 ug/l

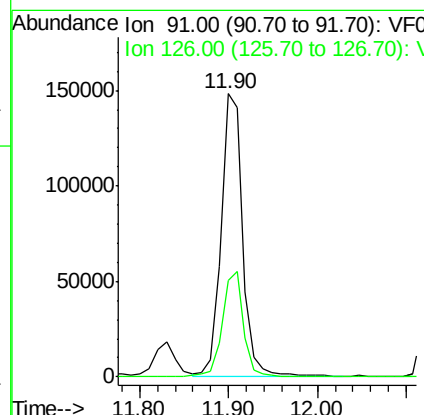
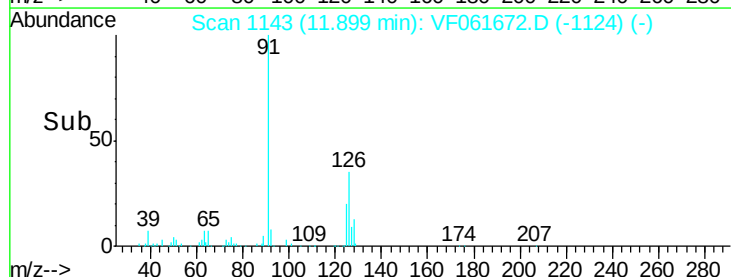
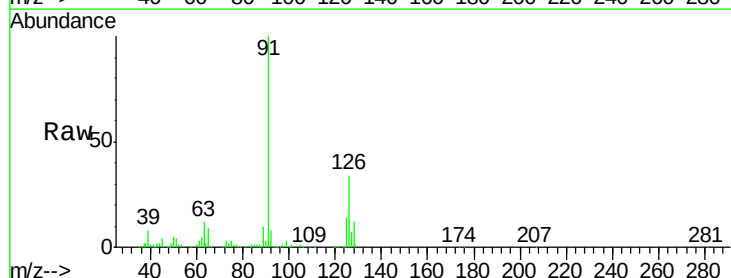
RT: 11.90 min Scan# 1143

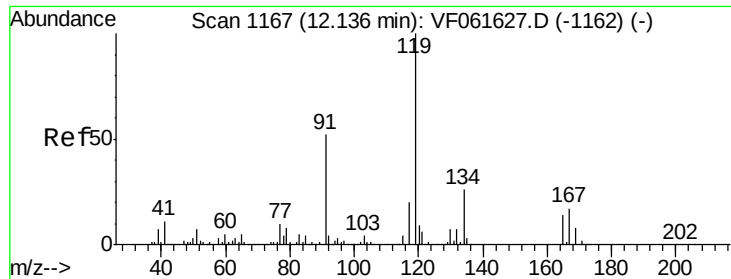
Delta R.T. -0.01 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Tgt Ion:	91	Resp:	248092
Ion	Ratio	Lower	Upper
91	100		
126	34.1	19.1	57.1





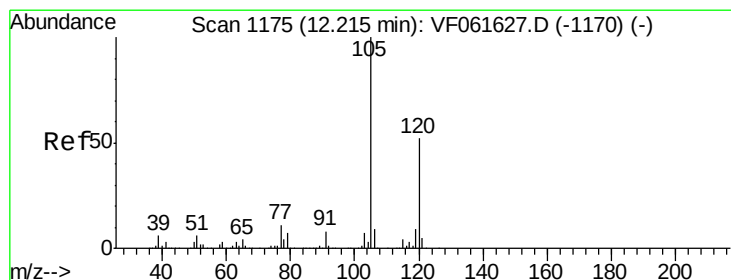
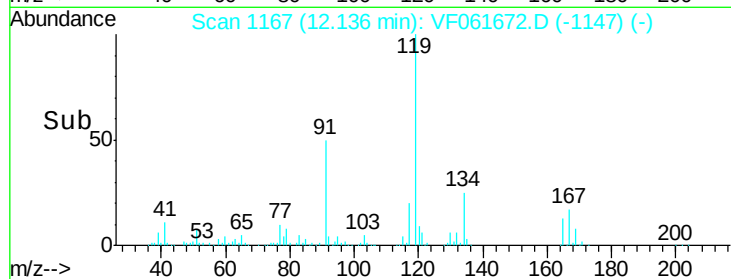
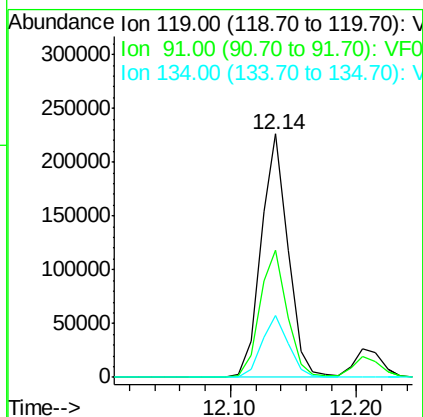
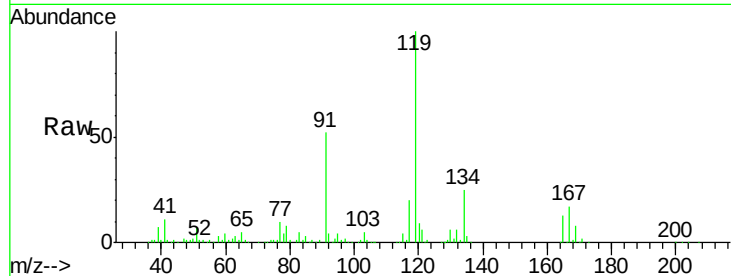
#83
 tert-Butylbenzene
 Concen: 21.488 ug/l
 RT: 12.14 min Scan# 1167
 Delta R.T. 0.00 min
 Lab File: VF061672.D
 Acq: 18 Feb 2019 12:10

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0218SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	336765		
91	52.2	26.3	78.8	
134	25.4	12.9	38.7	

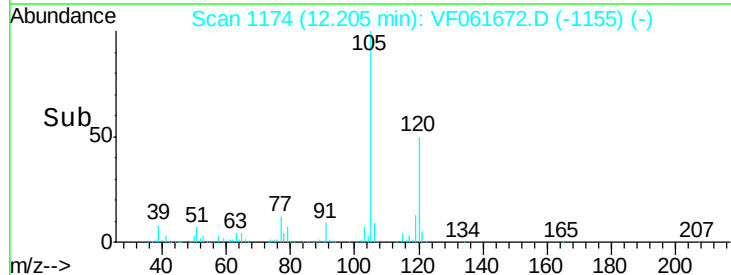
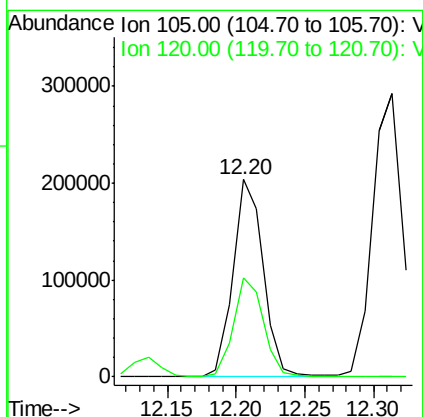
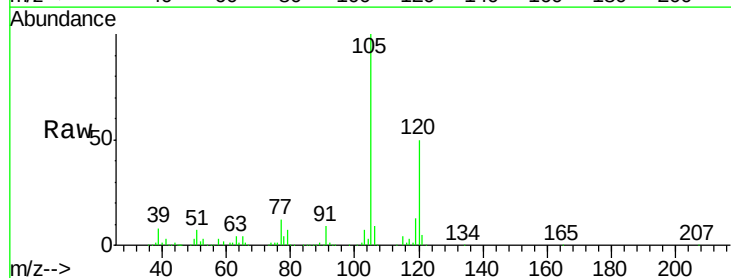
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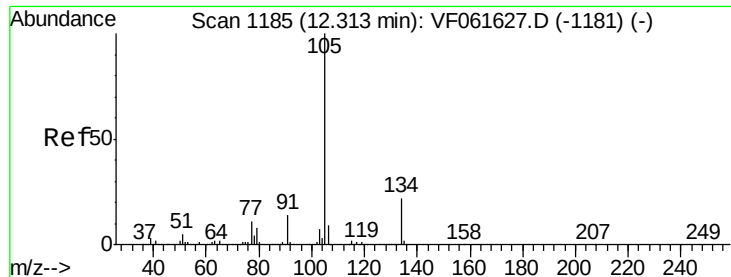
MMDadoda
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#84
 1,2,4-Trimethylbenzene
 Concen: 22.270 ug/l
 RT: 12.20 min Scan# 1174
 Delta R.T. -0.01 min
 Lab File: VF061672.D
 Acq: 18 Feb 2019 12:10

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	313066		
120	50.3	26.1	78.3	





#85

sec-Butylbenzene

Concen: 22.142 ug/l

RT: 12.31 min Scan# 1185

Delta R.T. 0.00 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Instrument :

MSVOA_F

ClientSampleId :

VF0218SBS01

Tot Ion:105 Resp: 448746

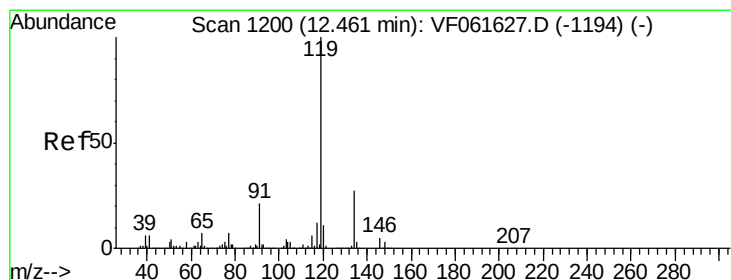
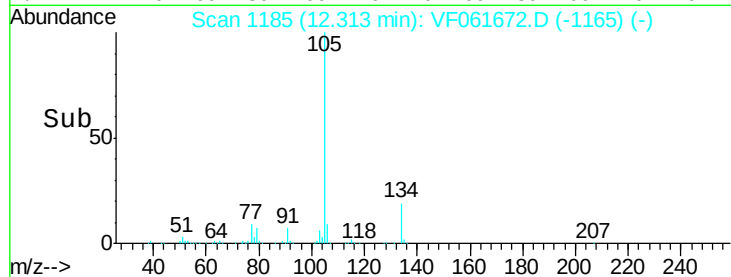
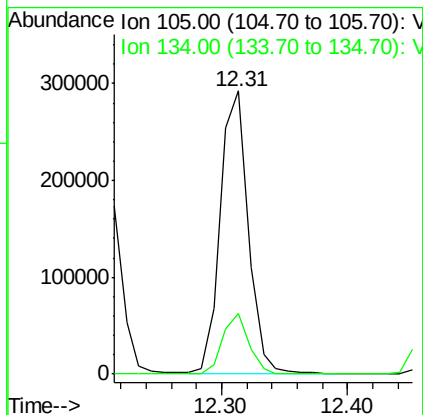
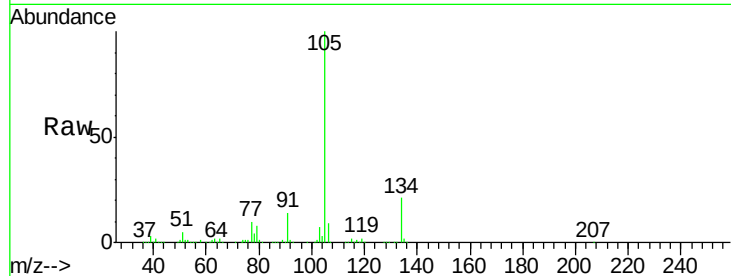
Ion Ratio Lower Upper

105 100

134 21.3 10.8 32.4

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#86

p-Isopropyltoluene

Concen: 22.670 ug/l

RT: 12.46 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

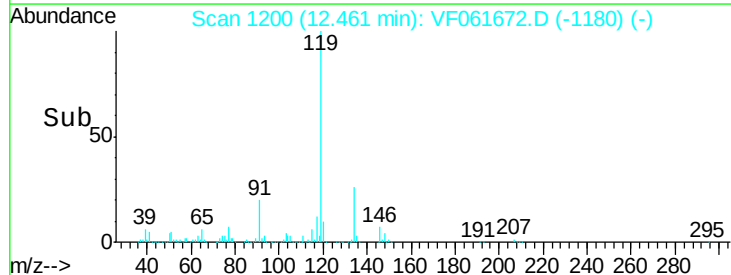
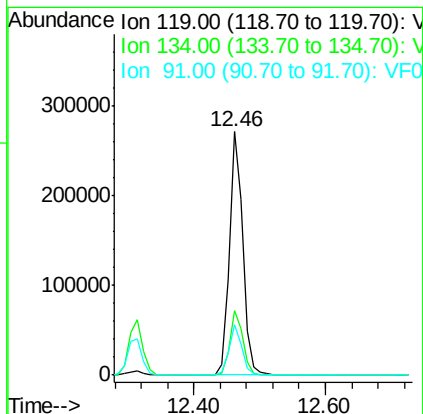
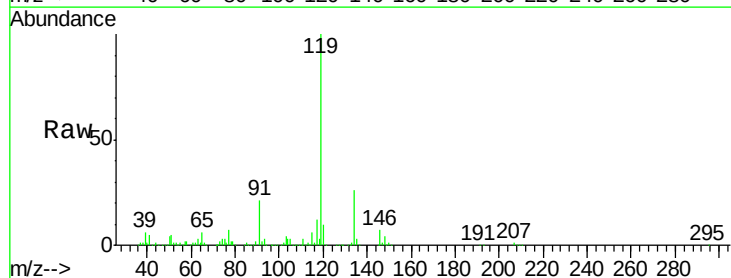
Tgt Ion:119 Resp: 385580

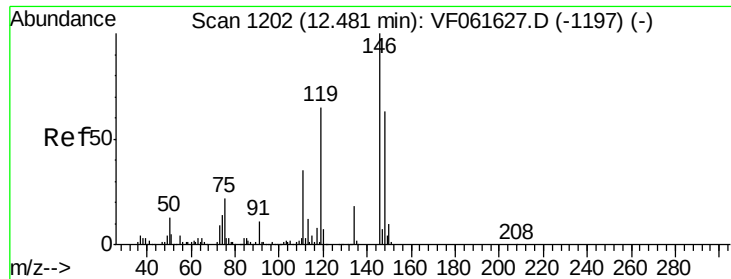
Ion Ratio Lower Upper

119 100

134 26.4 13.7 41.1

91 20.5 10.8 32.4





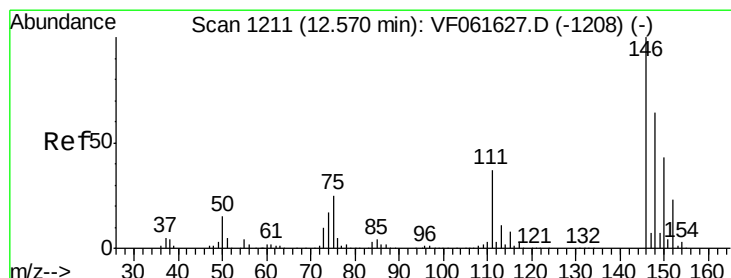
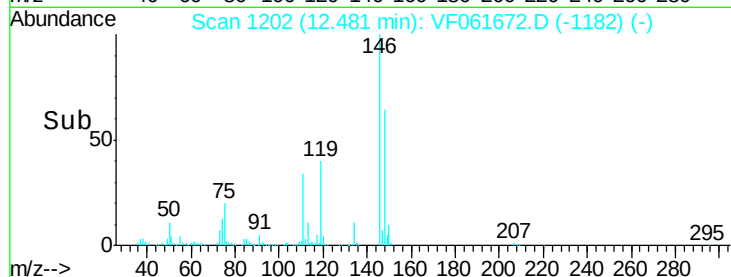
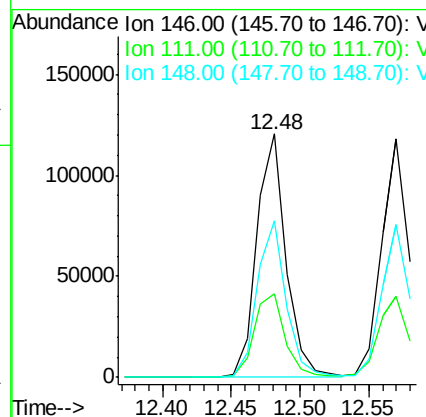
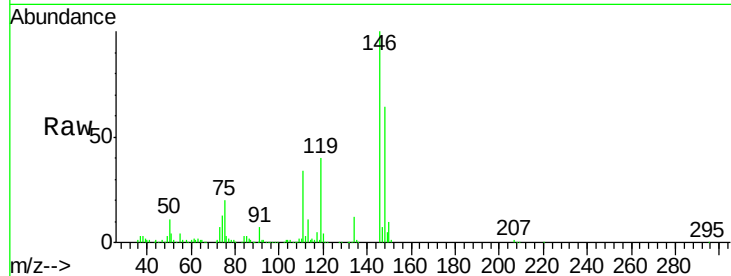
#87
 1,3-Dichlorobenzene
 Concen: 21.001 ug/l
 RT: 12.48 min Scan# 1202
 Delta R.T. 0.00 min
 Lab File: VF061672.D
 Acq: 18 Feb 2019 12:10

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0218SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	34.3	17.5	52.6
148	64.2	31.4	94.3

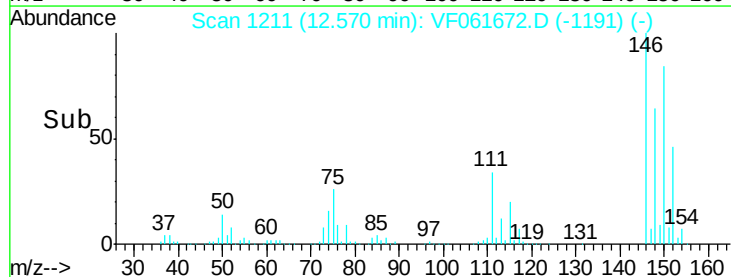
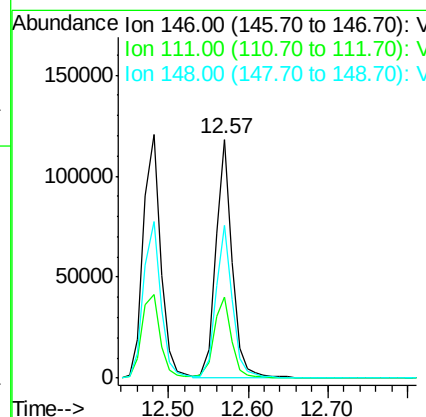
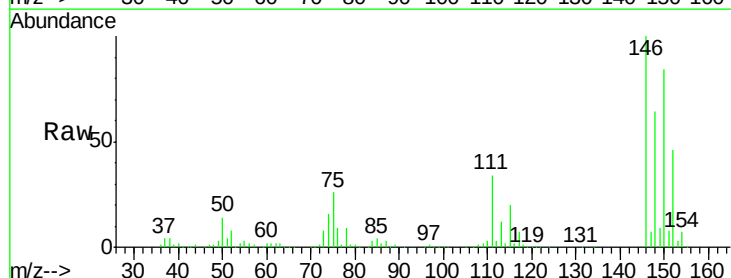
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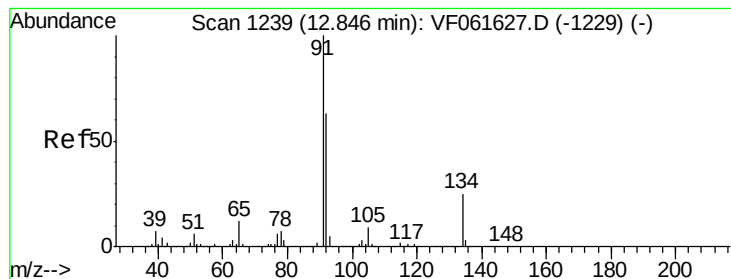
MMDadoda
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#88
 1,4-Dichlorobenzene
 Concen: 20.886 ug/l
 RT: 12.57 min Scan# 1211
 Delta R.T. 0.00 min
 Lab File: VF061672.D
 Acq: 18 Feb 2019 12:10

Tgt Ion	Ratio	Lower	Upper
146	100		
111	33.7	18.4	55.4
148	64.1	32.2	96.6





#89

n-Butylbenzene

Concen: 22.728 ug/l

RT: 12.85 min Scan# 1239

Delta R.T. 0.00 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Instrument :

MSVOA_F

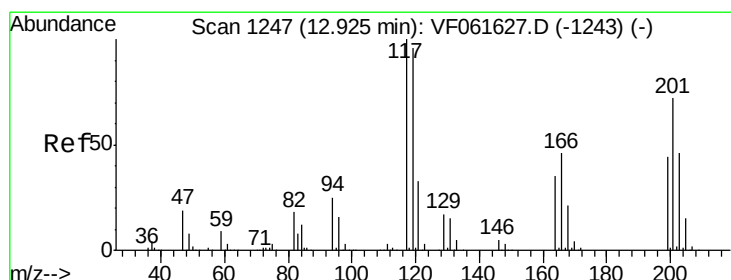
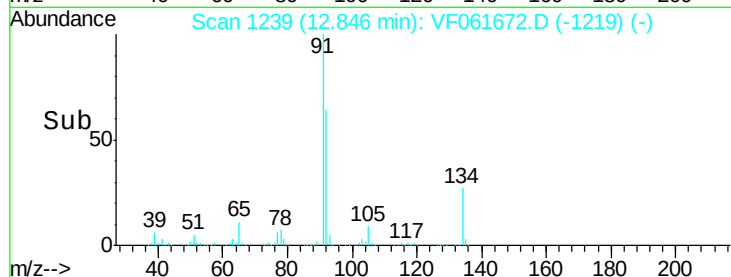
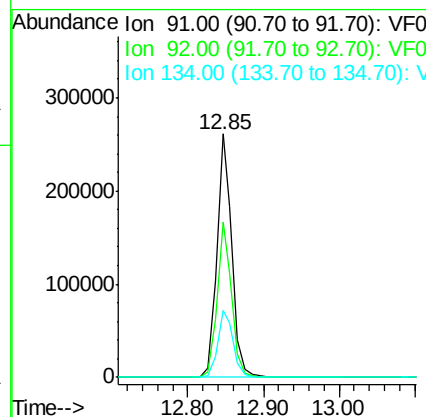
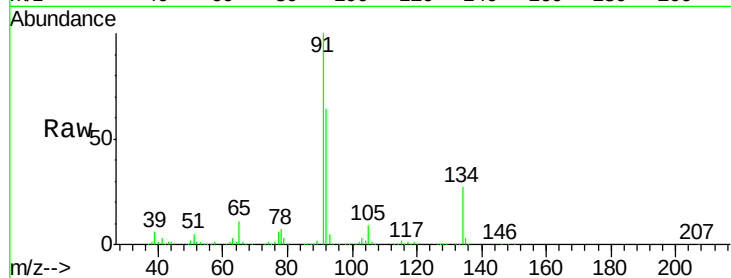
ClientSampleId :

VF0218SBS01

Tot Ion:	91	Resp:	365030
Ion	Ratio	Lower	Upper
91	100		
92	64.0	31.4	94.3
134	27.4	12.3	36.9

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#90

Hexachloroethane

Concen: 21.580 ug/l

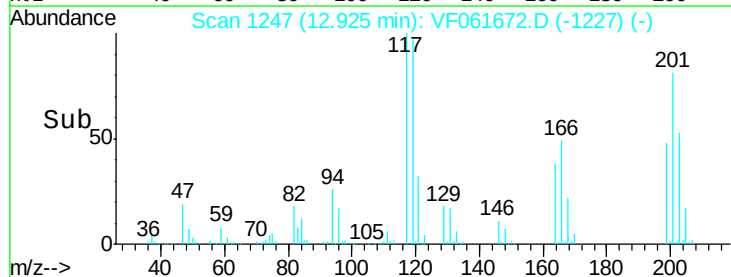
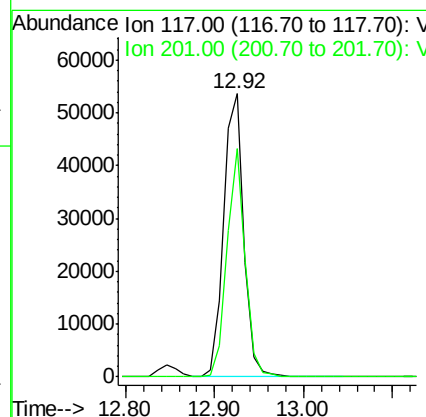
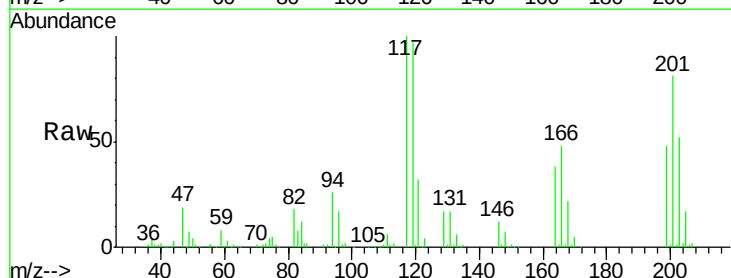
RT: 12.92 min Scan# 1247

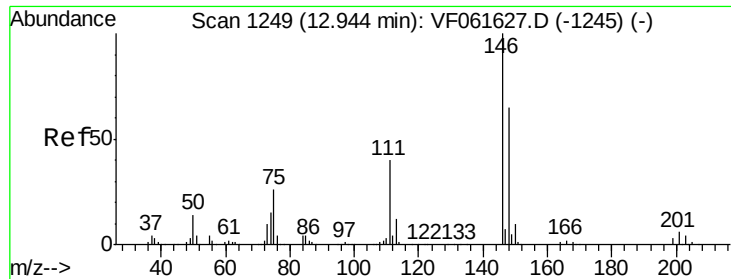
Delta R.T. 0.00 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Tgt Ion:	117	Resp:	85367
Ion	Ratio	Lower	Upper
117	100		
201	80.7	36.2	108.6





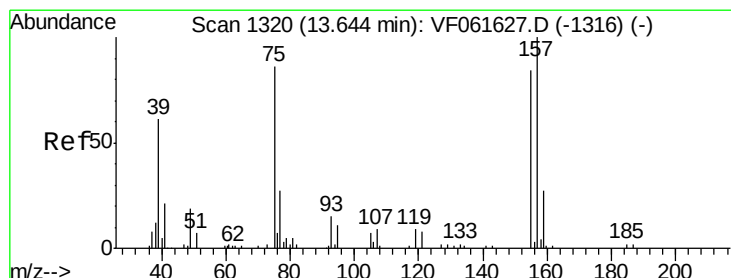
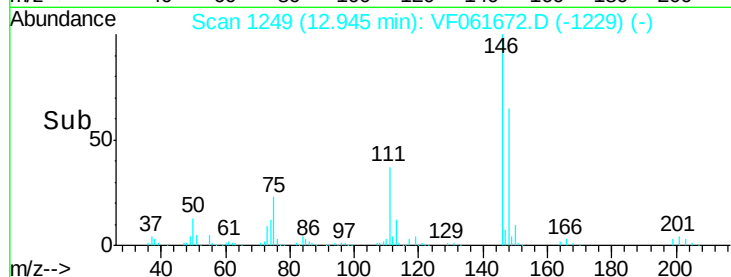
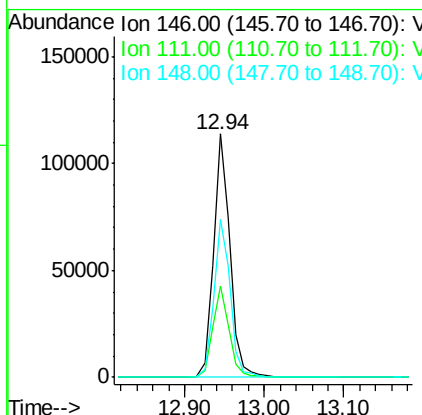
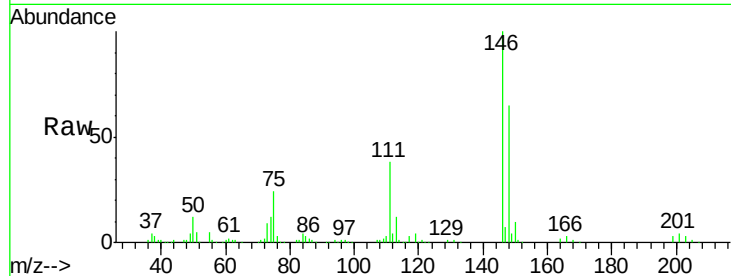
#91
 1,2-Dichlorobenzene
 Concen: 20.348 ug/l
 RT: 12.94 min Scan# 1249
 Delta R.T. 0.00 min
 Lab File: VF061672.D
 Acq: 18 Feb 2019 12:10

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0218SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.5	20.2	60.5
148	65.0	32.3	96.9

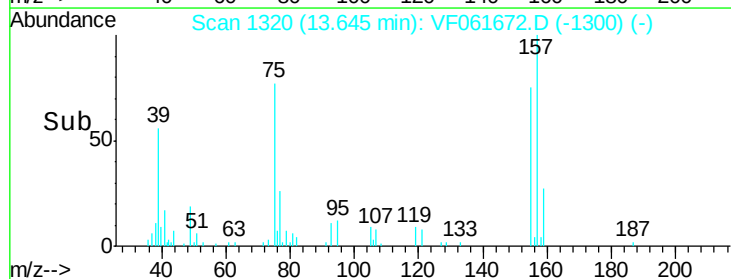
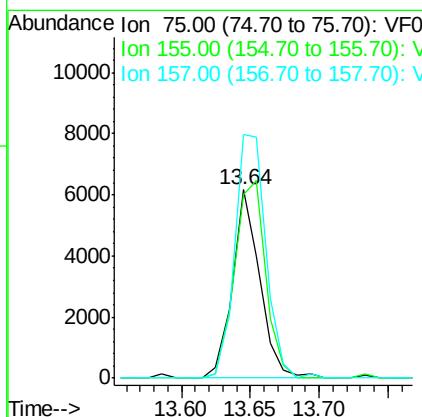
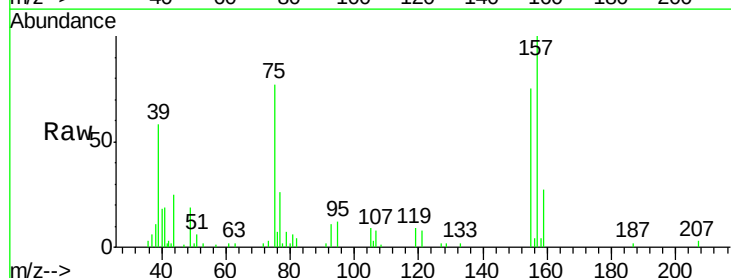
Manual Integrations
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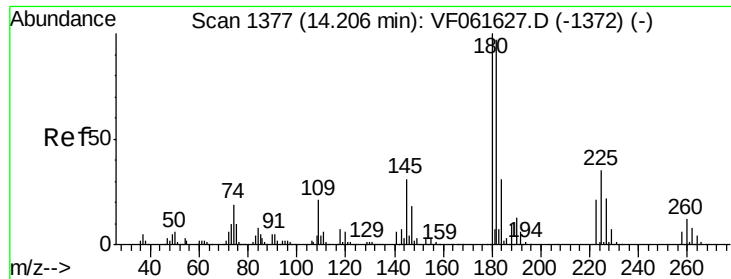
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 16.953 ug/l
 RT: 13.64 min Scan# 1320
 Delta R.T. 0.00 min
 Lab File: VF061672.D
 Acq: 18 Feb 2019 12:10

Tgt Ion	Ratio	Lower	Upper
75	100		
155	97.6	48.9	146.8
157	129.5	58.3	174.8





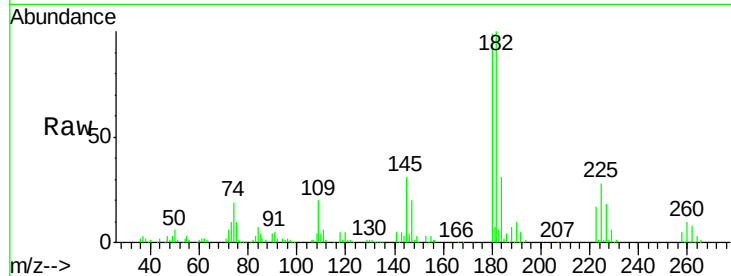
#93
 1,2,4-Trichlorobenzene
 Concen: 20.164 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. 0.00 min
 Lab File: VF061672.D
 Acq: 18 Feb 2019 12:10

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0218SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	117217		
182	100.6	48.6	145.9	
145	31.1	15.3	45.9	

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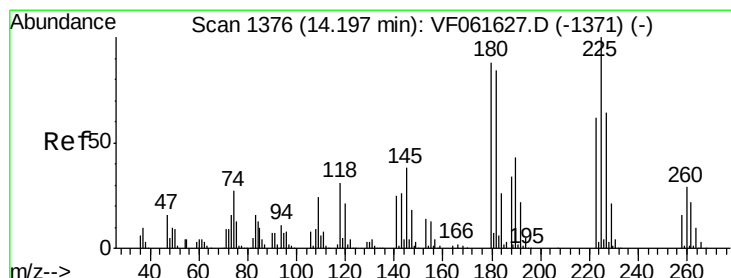
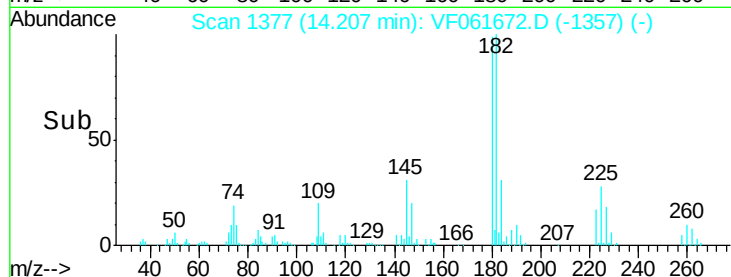
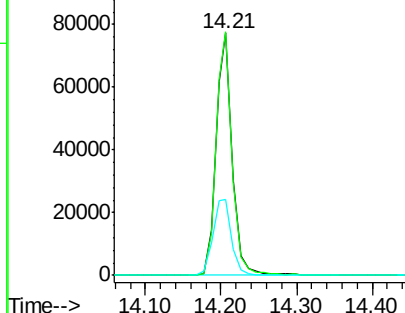


Abundance

Ion 180.00 (179.70 to 180.70): V

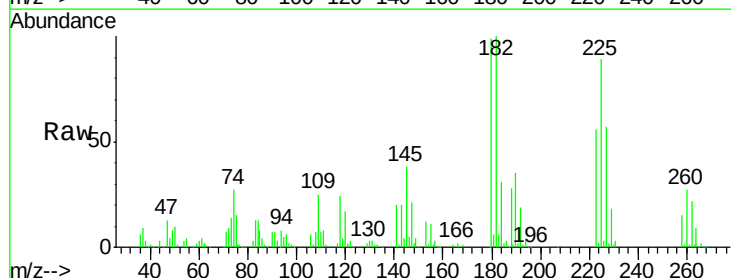
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94
 Hexachlorobutadiene
 Concen: 21.669 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. 0.00 min
 Lab File: VF061672.D
 Acq: 18 Feb 2019 12:10

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	77795		
223	62.9	30.9	92.7	
227	63.7	32.1	96.3	

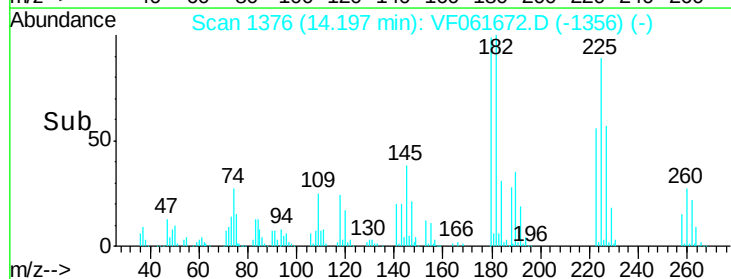
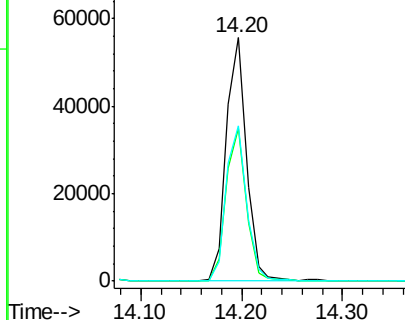


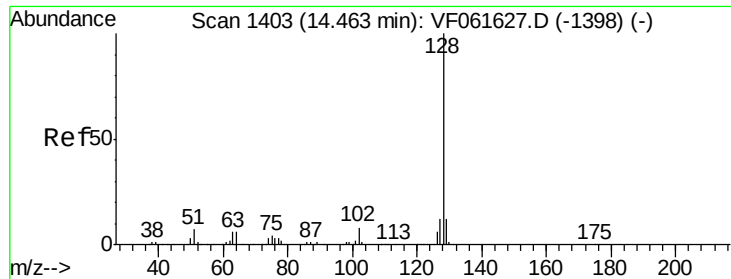
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 18.063 ug/l

RT: 14.46 min Scan# 1403

Delta R.T. 0.00 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Instrument :

MSVOA_F

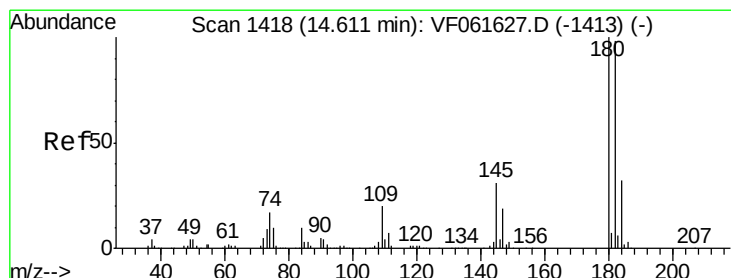
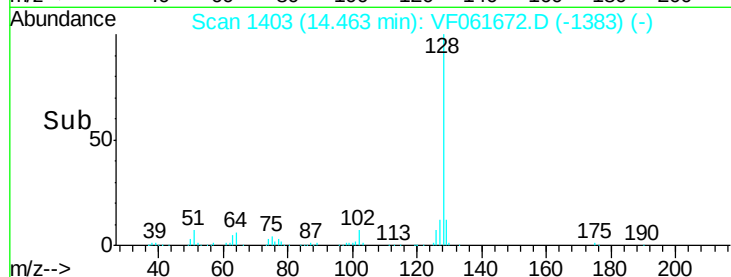
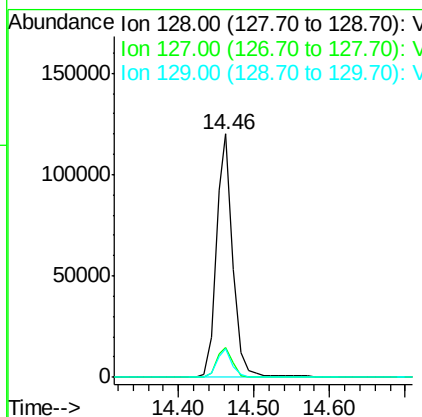
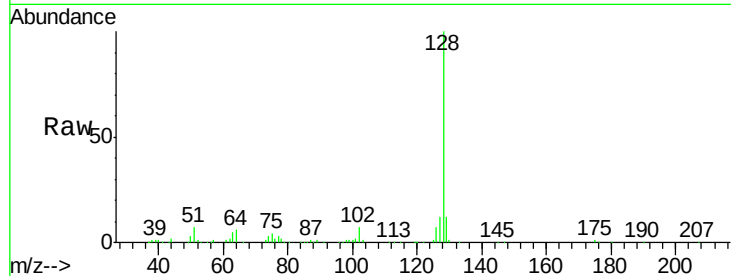
ClientSampleId :

VF0218SBS01

Tot Ion:	128	Resp:	183714
Ion Ratio	Lower	Upper	
128	100		
127	12.4	9.8	14.6
129	11.5	9.4	14.2

Manual Integrations
APPROVED

MMDadoda
2/19/2019 12:29:13 PM



#96

1,2,3-Trichlorobenzene

Concen: 19.969 ug/l

RT: 14.61 min Scan# 1418

Delta R.T. 0.00 min

Lab File: VF061672.D

Acq: 18 Feb 2019 12:10

Tgt Ion:	180	Resp:	106543
Ion Ratio	Lower	Upper	
180	100		
182	95.6	49.0	147.2
145	27.3	15.4	46.1

