

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF021219\
 Data File : VF061605.D
 Acq On : 12 Feb 2019 13:27
 Operator : VA/AP
 Sample : VF0212SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0212SBS01

Quant Time: Feb 13 03:00:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	186448	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.58	114	302740	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.76	117	285948	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.54	152	153504	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.82	65	111177	48.30	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	96.60%	
35) Dibromofluoromethane	4.09	113	119980	50.22	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	100.44%	
50) Toluene-d8	7.53	98	304427	46.51	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	93.02%	
62) 4-Bromofluorobenzene	11.40	95	146022	47.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.50%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.96	85	59008	16.107	ug/l	94
3) Chloromethane	1.10	50	42473	15.812	ug/l	91
4) Vinyl Chloride	1.14	62	39595	16.571	ug/l	96
5) Bromomethane	1.31	94	29780	19.112	ug/l	89
6) Chloroethane	1.39	64	20355	19.225	ug/l	94
7) Trichlorofluoromethane	1.49	101	78995	17.006	ug/l	86
8) Diethyl Ether	1.62	74	10701	17.978	ug/l	60
9) 1,1,2-Trichlorotrifluoroet	1.83	101	40351	18.078	ug/l	96
10) Methyl Iodide	1.90	142	64865m	18.746	ug/l	
11) Tert butyl alcohol	2.57	59	9504	97.540	ug/l	94
12) 1,1-Dichloroethene	1.78	96	31321	18.888	ug/l	95
13) Acrolein	1.99	56	4682	63.817	ug/l	95
14) Allyl chloride	2.09	41	49316	25.481	ug/l	94
15) Acrylonitrile	2.93	53	23863	95.611	ug/l	98
16) Acetone	2.23	43	61416	132.994	ug/l	96
17) Carbon Disulfide	1.81	76	88271	17.072	ug/l	97
18) Methyl Acetate	2.33	43	19561	21.359	ug/l	98
19) Methyl tert-butyl Ether	2.42	73	72087	19.392	ug/l	93
20) Methylene Chloride	2.17	84	36998m	22.640	ug/l	
21) trans-1,2-Dichloroethene	2.29	96	36033	19.750	ug/l	98
22) Diisopropyl ether	2.79	45	115168	19.516	ug/l	99
23) Vinyl Acetate	3.17	43	261886	102.800	ug/l	99
24) 1,1-Dichloroethane	2.86	63	69690	18.816	ug/l	96
25) 2-Butanone	4.32	43	83728	109.028	ug/l	93
26) 2,2-Dichloropropane	3.58	77	41020	18.026	ug/l	99
27) cis-1,2-Dichloroethene	3.46	96	47849	17.767	ug/l	89
28) Bromochloromethane	3.71	49	34796	20.900	ug/l #	95
29) Tetrahydrofuran	4.06	42	30309	91.659	ug/l	94
30) Chloroform	3.84	83	101907	20.388	ug/l	96
31) Cyclohexane	3.68	56	62881m	16.996	ug/l	
32) 1,1,1-Trichloroethane	4.08	97	57309	15.637	ug/l	94
36) 1,1-Dichloropropene	4.26	75	70577	20.107	ug/l	94
37) Ethyl Acetate	4.10	43	30118	21.465	ug/l #	84
38) Carbon Tetrachloride	3.97	117	57392	18.703	ug/l	94

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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	5.43	83	61717	16.224	ug/l #	83
40) Benzene	4.61	78	150778	19.304	ug/l	97
41) Methacrylonitrile	4.73	41	14325	19.187	ug/l	97
42) 1,2-Dichloroethane	4.92	62	54637	19.631	ug/l	94
43) Isopropyl Acetate	6.94	43	34093	19.360	ug/l #	93
44) Trichloroethene	5.49	130	50046	20.887	ug/l	89
45) 1,2-Dichloropropane	6.22	63	41532	20.260	ug/l	96
46) Dibromomethane	6.06	93	26528	19.462	ug/l	91
47) Bromodichloromethane	6.37	83	69719	20.673	ug/l	99
48) Methyl methacrylate	6.69	41	20569	17.394	ug/l	93
49) 1,4-Dioxane	6.68	88	3269	350.981	ug/l #	71
51) 4-Methyl-2-Pentanone	8.24	43	139250	107.561	ug/l	96
52) Toluene	7.61	92	94587	18.389	ug/l	99
53) t-1,3-Dichloropropene	8.26	75	56577	21.127	ug/l	100
54) cis-1,3-Dichloropropene	7.29	75	69364	20.722	ug/l	95
55) 1,1,2-Trichloroethane	8.48	97	31018	21.236	ug/l	96
56) Ethyl methacrylate	8.60	69	32774	19.286	ug/l	95
57) 1,3-Dichloropropane	8.83	76	53960	19.710	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.28	63	22970	142.232	ug/l #	89
59) 2-Hexanone	9.48	43	103620	114.781	ug/l	98
60) Dibromochloromethane	8.70	129	42147	19.738	ug/l	98
61) 1,2-Dibromoethane	8.97	107	32261	19.294	ug/l	92
64) Tetrachloroethene	8.13	164	40316	18.748	ug/l	90
65) Chlorobenzene	9.78	112	113653	19.545	ug/l	96
66) 1,1,1,2-Tetrachloroethane	9.91	131	46763	20.187	ug/l	98
67) Ethyl Benzene	9.88	91	202728	19.082	ug/l	99
68) m/p-Xylenes	10.12	106	145141	37.983	ug/l	95
69) o-Xylene	10.70	106	82644	19.955	ug/l	93
70) Styrene	10.78	104	109444	19.306	ug/l	99
71) Bromoform	10.76	173	22259	21.386	ug/l	95
73) Isopropylbenzene	11.11	105	245932	19.699	ug/l	98
74) N-amyl acetate	11.36	43	61503	20.833	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.69	83	43092	19.375	ug/l	98
76) 1,2,3-Trichloropropane	11.78	75	31554	19.744	ug/l	97
77) Bromobenzene	11.48	156	52430	19.885	ug/l	86
78) n-propylbenzene	11.59	91	293923	18.005	ug/l	98
79) 2-Chlorotoluene	11.71	91	167855	19.377	ug/l	99
80) 1,3,5-Trimethylbenzene	11.81	105	207292	20.574	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.86	75	14543m	20.933	ug/l	
82) 4-Chlorotoluene	11.88	91	173929	19.898	ug/l	96
83) tert-Butylbenzene	12.12	119	206690	19.820	ug/l	99
84) 1,2,4-Trimethylbenzene	12.20	105	198328	19.110	ug/l	96
85) sec-Butylbenzene	12.30	105	291363	20.574	ug/l	97
86) p-Isopropyltoluene	12.44	119	242497	20.859	ug/l	95
87) 1,3-Dichlorobenzene	12.46	146	106128	19.139	ug/l	97
88) 1,4-Dichlorobenzene	12.55	146	98438	19.757	ug/l	98
89) n-Butylbenzene	12.83	91	249330	20.796	ug/l	92
90) Hexachloroethane	12.91	117	56394	20.579	ug/l	97
91) 1,2-Dichlorobenzene	12.93	146	94741	19.208	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.63	75	7418	18.804	ug/l	72

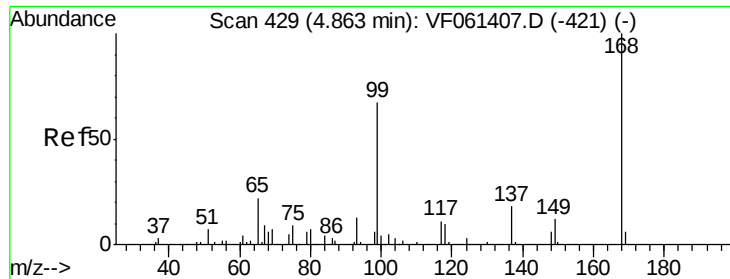
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF021219\
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Quant Title : SW846 8260
QLast Update : Wed Jan 16 04:51:59 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	68213	19.742	ug/l	98
94) Hexachlorobutadiene	14.18	225	40101	18.703	ug/l	98
95) Naphthalene	14.45	128	118775	18.093	ug/l	98
96) 1,2,3-Trichlorobenzene	14.60	180	59038	18.458	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.01 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Instrument :

MSVOA_F

ClientSampleId :

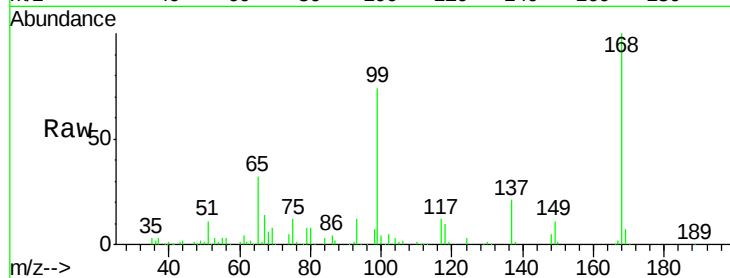
VF0212SBS01

Tot Ion:168 Resp: 186448

Ion Ratio Lower Upper

168 100

99 73.9 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

60000

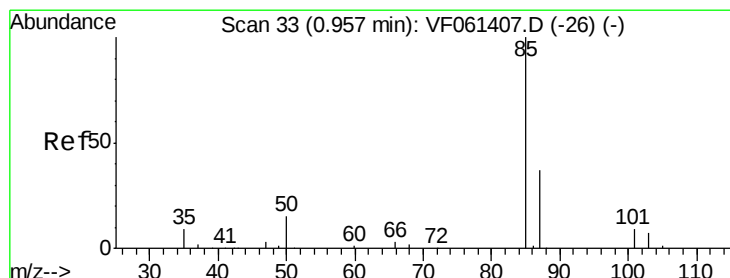
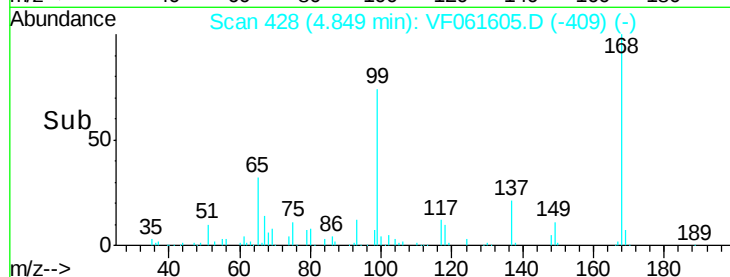
40000

20000

0

Time-->

4.70 4.80 4.90 5.00



#2

Dichlorodifluoromethane

Concen: 16.107 ug/l

RT: 0.96 min Scan# 34

Delta R.T. 0.01 min

Lab File: VF061605.D

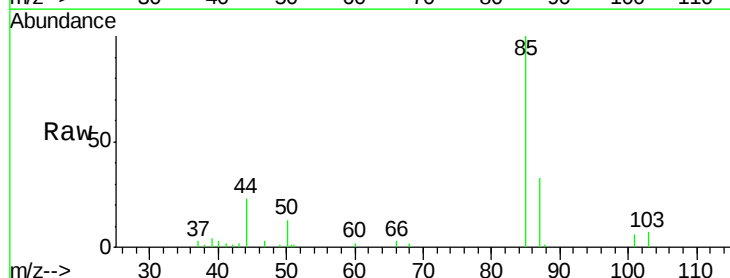
Acq: 12 Feb 2019 13:27

Tgt Ion: 85 Resp: 59008

Ion Ratio Lower Upper

85 100

87 32.9 18.4 55.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

15000

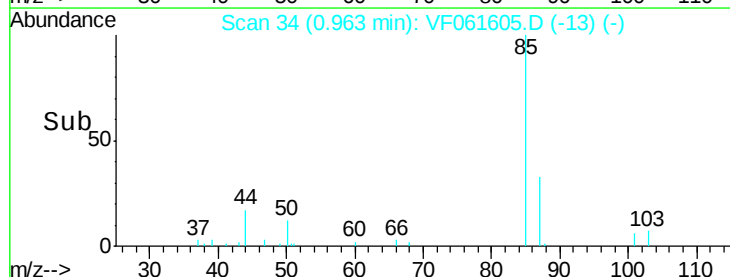
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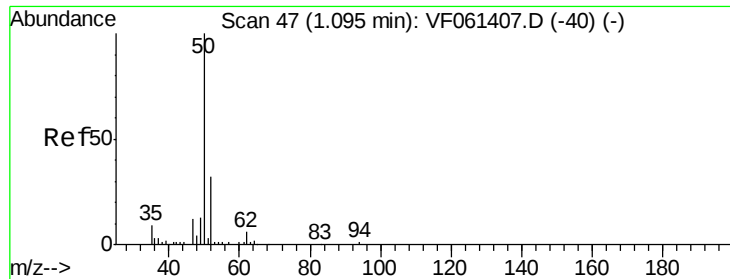
5000

0

Time-->

0.90 1.00 1.10





#3

Chloromethane

Concen: 15.812 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.01 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Instrument :

MSVOA_F

ClientSampleId :

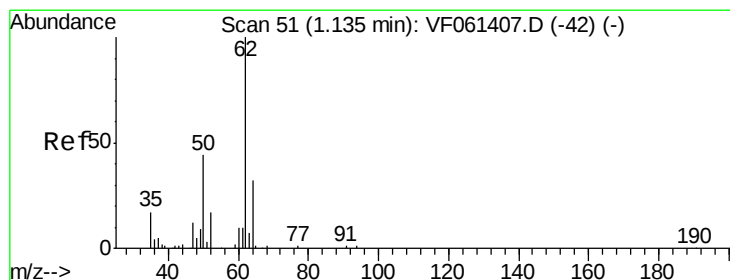
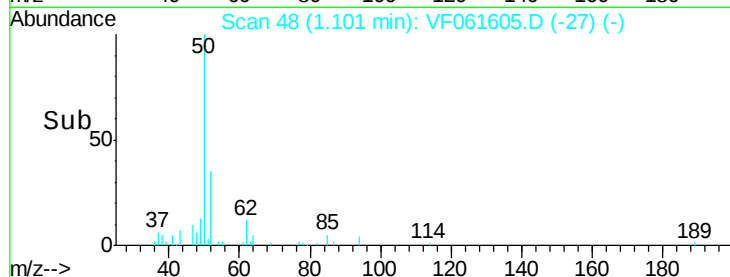
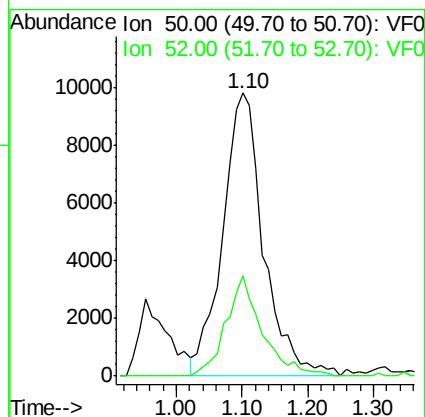
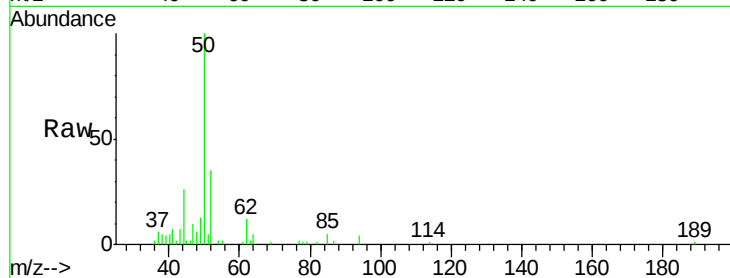
VF0212SBS01

Tot Ion: 50 Resp: 42473

Ion Ratio Lower Upper

50 100

52 35.4 24.6 36.8



#4

Vinyl Chloride

Concen: 16.571 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.01 min

Lab File: VF061605.D

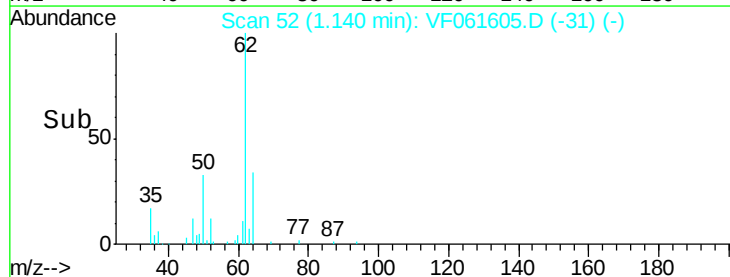
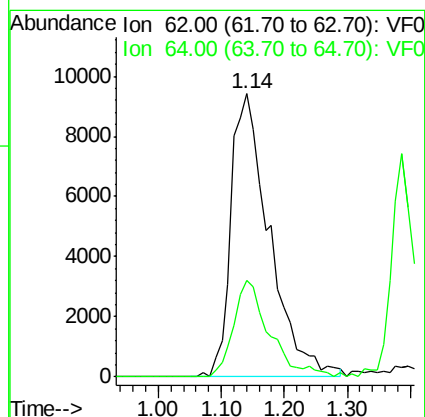
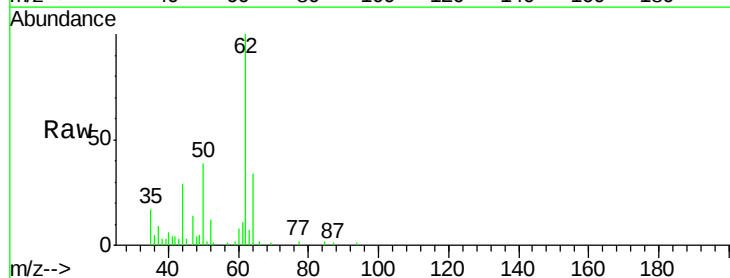
Acq: 12 Feb 2019 13:27

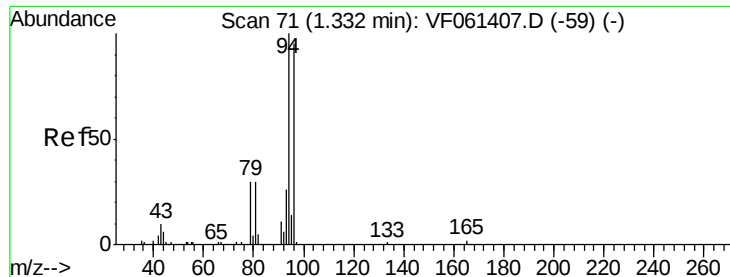
Tgt Ion: 62 Resp: 39595

Ion Ratio Lower Upper

62 100

64 34.1 25.6 38.4





#5

Bromomethane

Concen: 19.112 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.02 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Instrument :

MSVOA_F

ClientSampleId :

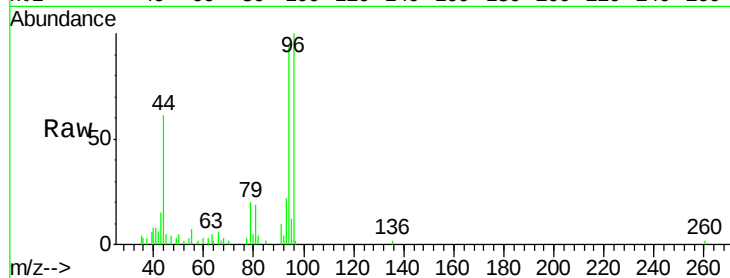
VF0212SBS01

Tot Ion: 94 Resp: 29780

Ion Ratio Lower Upper

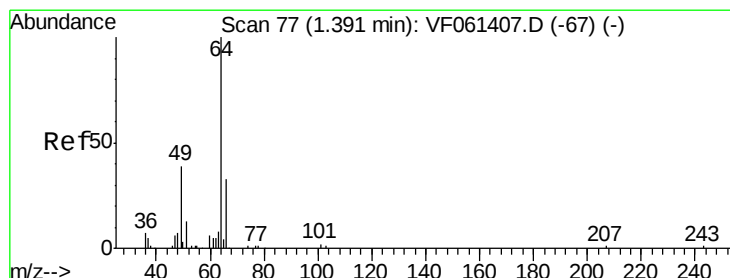
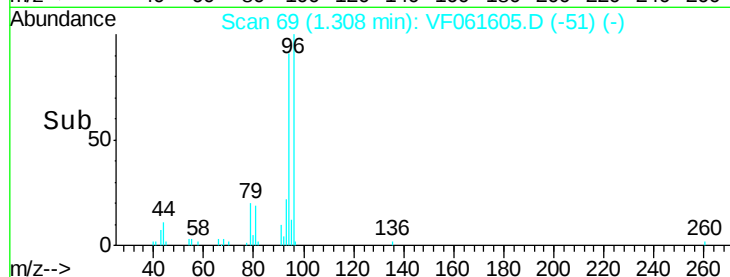
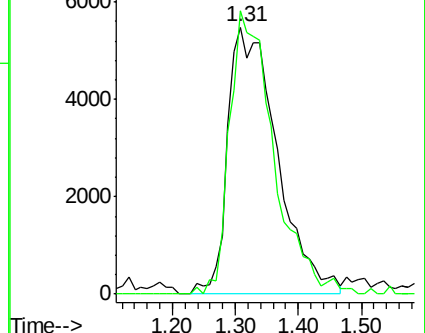
94 100

96 105.9 76.0 114.0



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 19.225 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.00 min

Lab File: VF061605.D

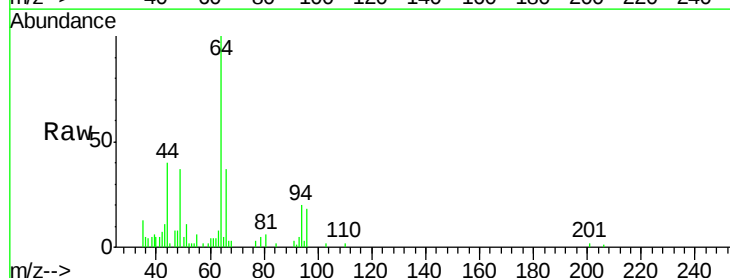
Acq: 12 Feb 2019 13:27

Tgt Ion: 64 Resp: 20355

Ion Ratio Lower Upper

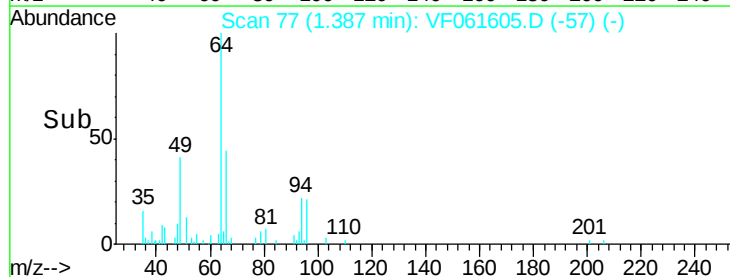
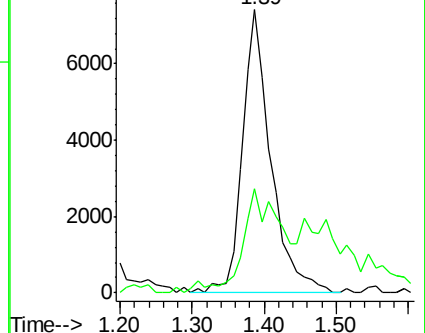
64 100

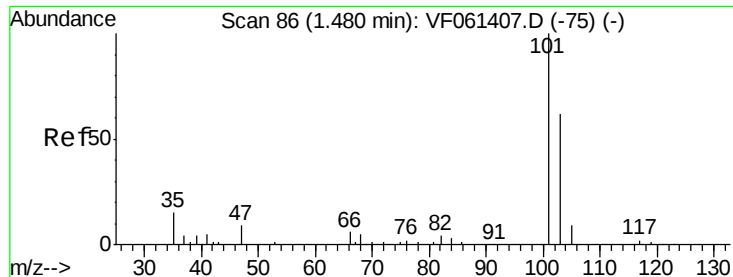
66 36.9 26.6 40.0



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



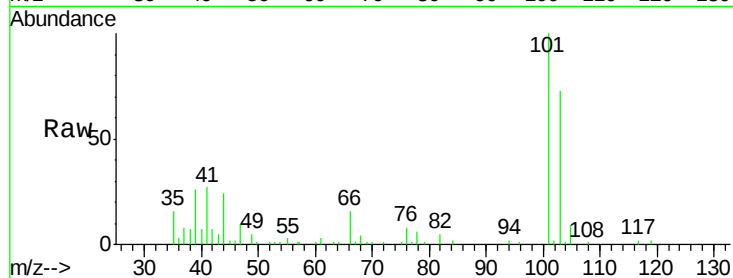


#7

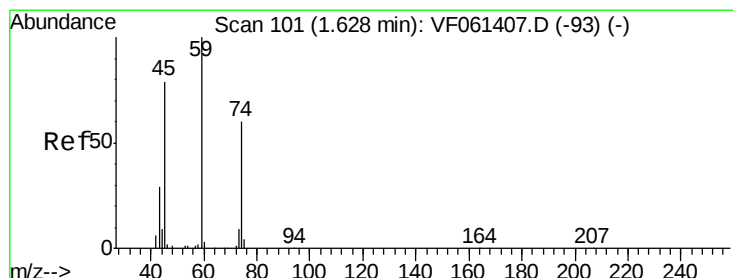
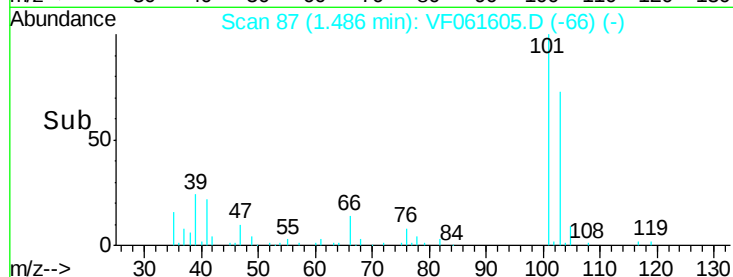
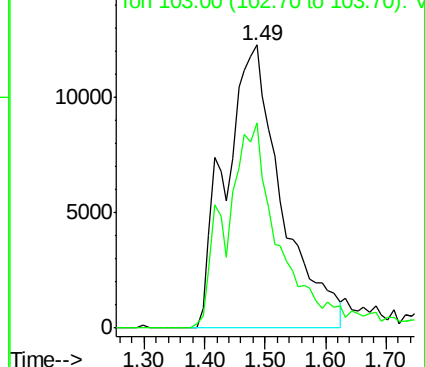
Trichlorofluoromethane
Concen: 17.006 ug/l
RT: 1.49 min Scan# 87
Delta R.T. 0.01 min
Lab File: VF061605.D
Acq: 12 Feb 2019 13:27

Instrument :
MSVOA_F
ClientSampleId :
VF0212SBS01

Tot Ion:101 Resp: 78995
Ion Ratio Lower Upper
101 100
103 72.7 49.7 74.5



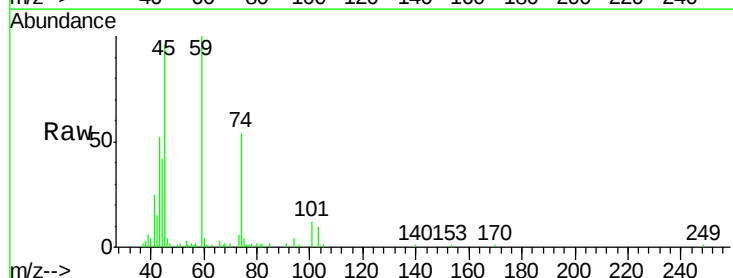
Abundance Ion 101.00 (100.70 to 101.70): V
Ion 103.00 (102.70 to 103.70): V



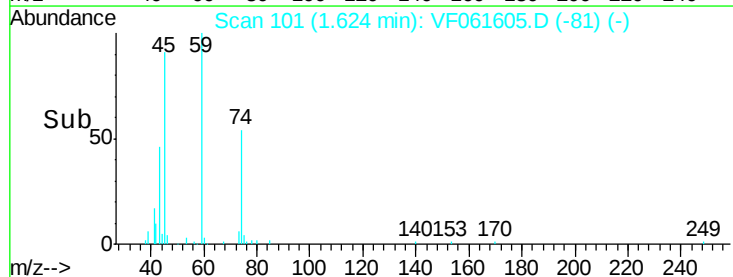
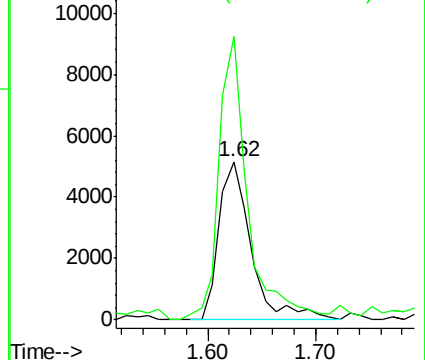
#8

Diethyl Ether
Concen: 17.978 ug/l
RT: 1.62 min Scan# 101
Delta R.T. -0.00 min
Lab File: VF061605.D
Acq: 12 Feb 2019 13:27

Tgt Ion: 74 Resp: 10701
Ion Ratio Lower Upper
74 100
45 178.6 65.8 197.5



Abundance Ion 74.00 (73.70 to 74.70): VF0
Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.078 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.00 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBS01

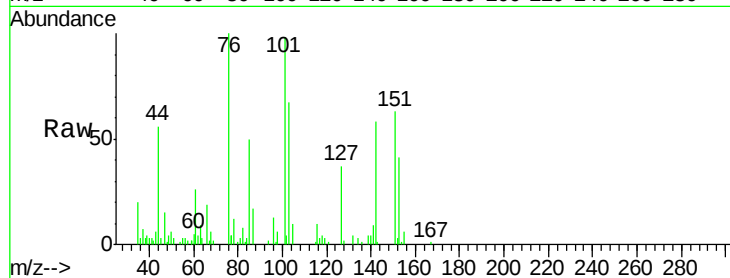
Tot Ion:101 Resp: 40351

Ion Ratio Lower Upper

101 100

85 50.9 41.9 62.9

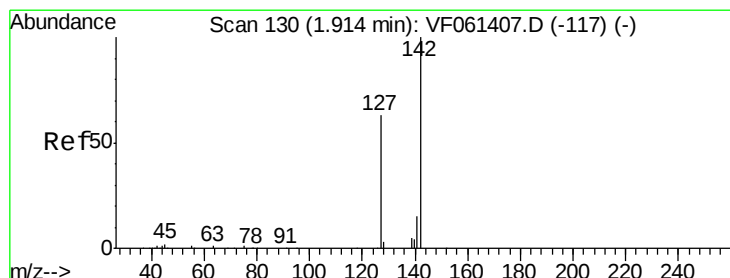
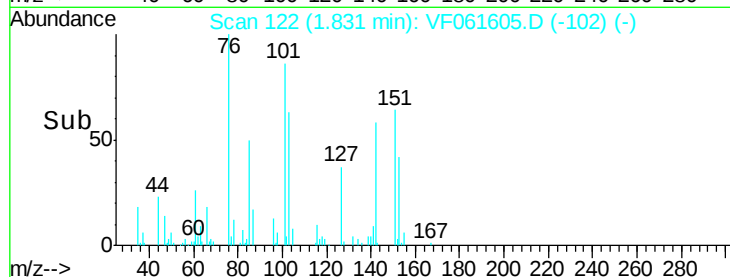
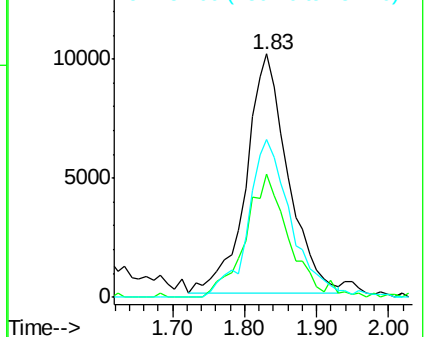
151 64.6 55.1 82.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 18.746 ug/l m

RT: 1.90 min Scan# 129

Delta R.T. -0.01 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

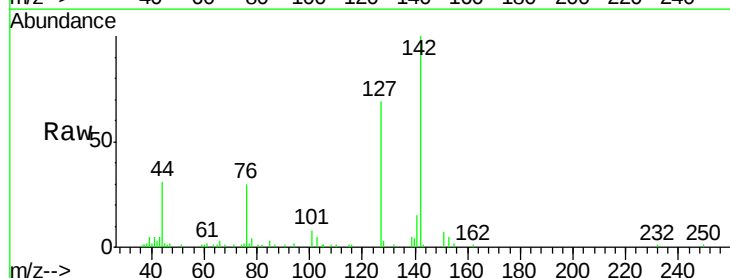
Tgt Ion:142 Resp: 64865

Ion Ratio Lower Upper

142 100

127 69.0 50.7 76.1

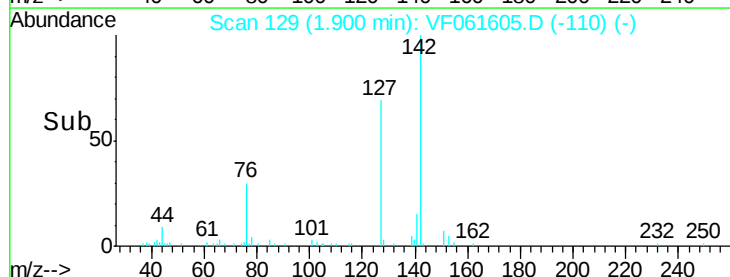
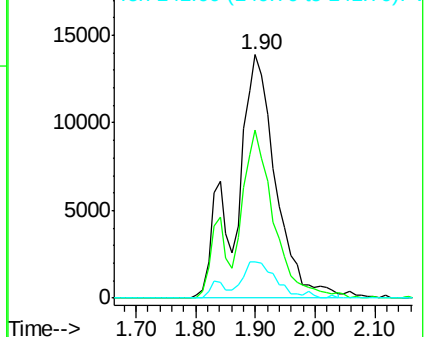
141 14.7 11.8 17.6

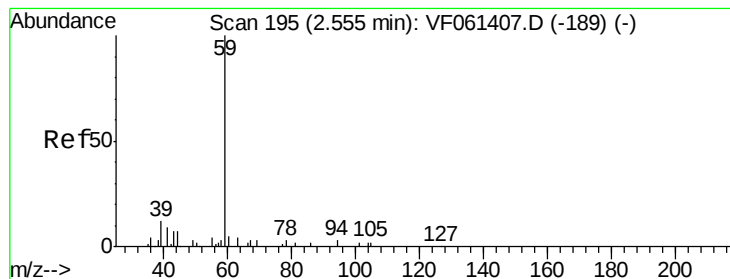


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



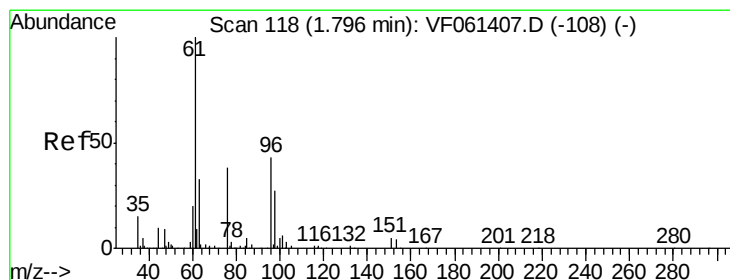
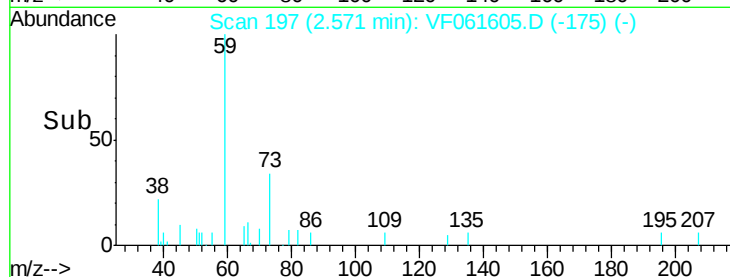
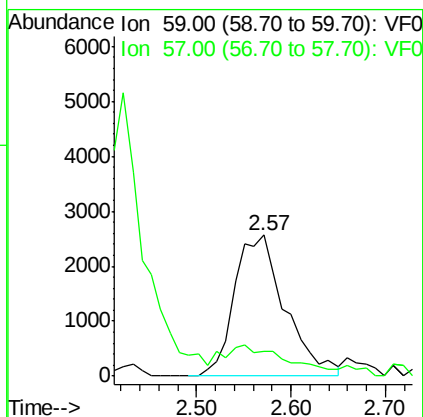
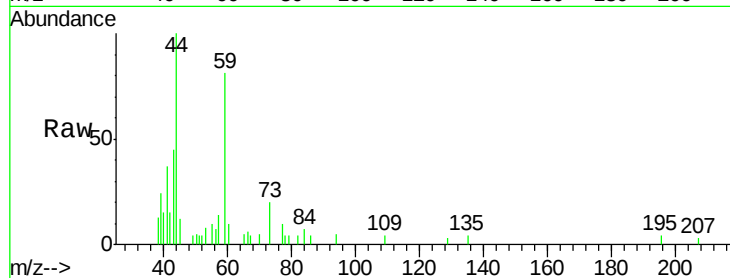


#11

Tert butyl alcohol
Concen: 97.540 ug/l
RT: 2.57 min Scan# 197
Delta R.T. 0.02 min
Lab File: VF061605.D
Acq: 12 Feb 2019 13:27

Instrument :
MSVOA_F
ClientSampleId :
VF0212SBS01

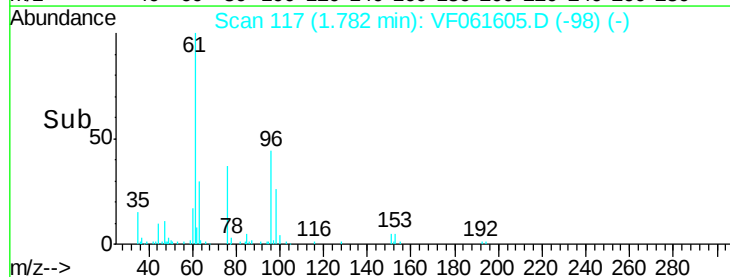
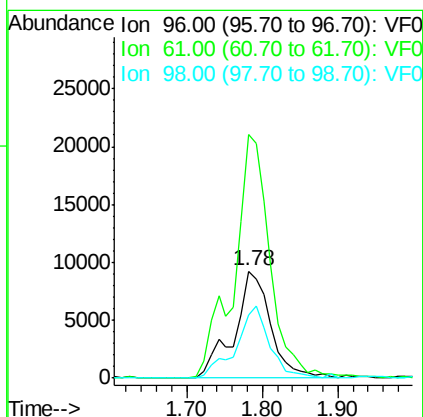
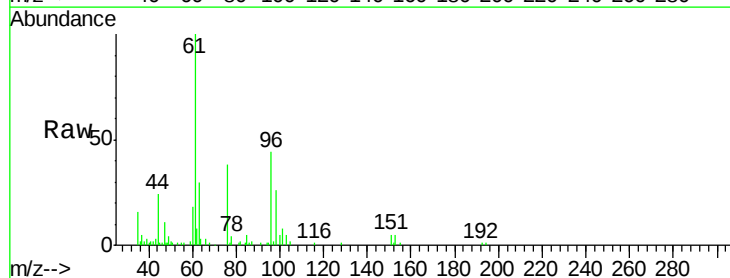
Tot Ion: 59 Resp: 9504
Ion Ratio Lower Upper
59 100
57 17.6 11.9 17.9

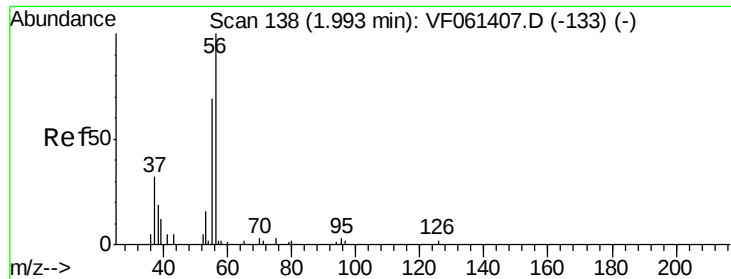


#12

1,1-Dichloroethene
Concen: 18.888 ug/l
RT: 1.78 min Scan# 117
Delta R.T. -0.01 min
Lab File: VF061605.D
Acq: 12 Feb 2019 13:27

Tgt Ion: 96 Resp: 31321
Ion Ratio Lower Upper
96 100
61 227.3 186.9 280.3
98 59.3 53.0 79.4

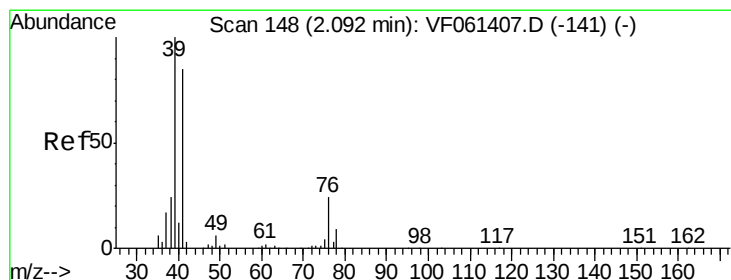
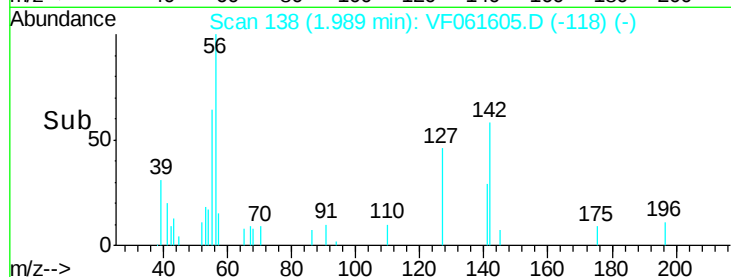
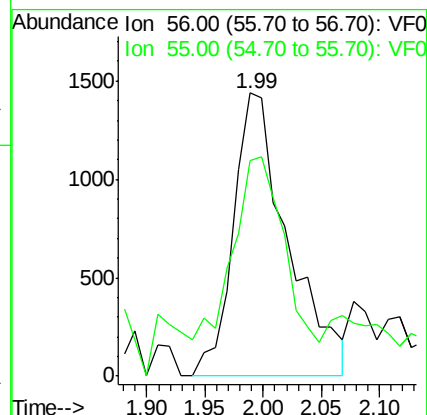
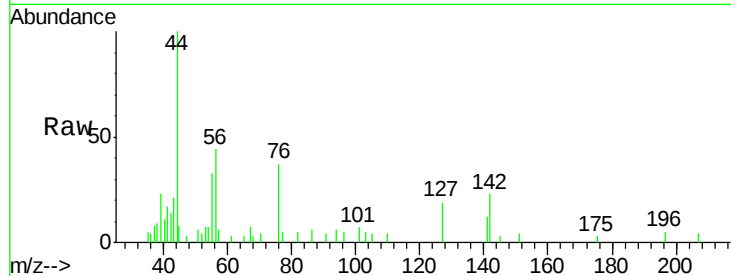




#13
Acrolein
Concen: 63.817 ug/l
RT: 1.99 min Scan# 138
Delta R.T. -0.00 min
Lab File: VF061605.D
Acq: 12 Feb 2019 13:27

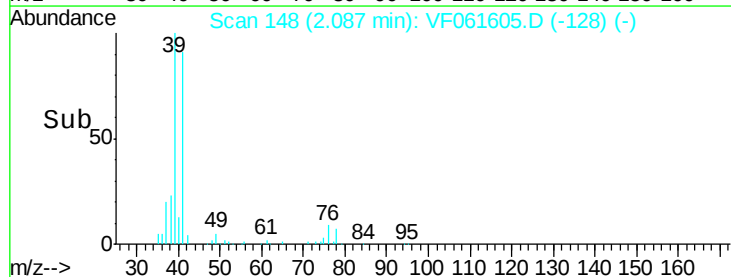
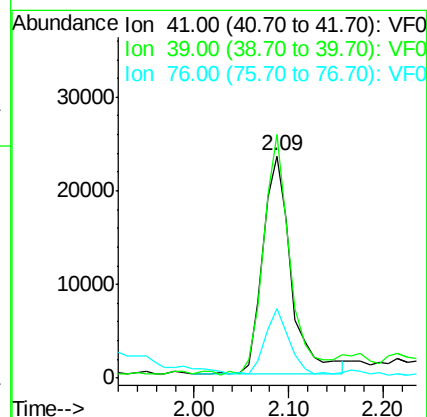
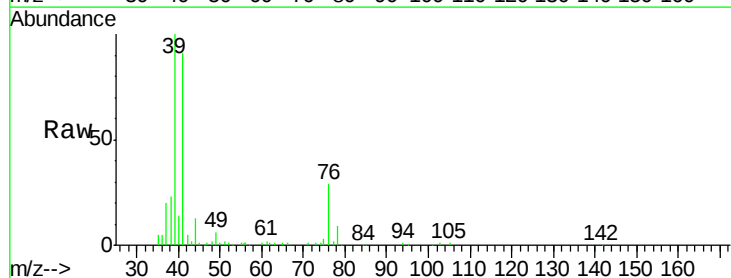
Instrument :
MSVOA_F
ClientSampleId :
VF0212SBS01

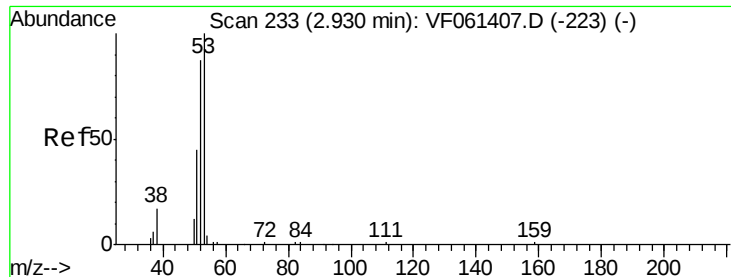
Tot Ion: 56 Resp: 4682
Ion Ratio Lower Upper
56 100
55 76.0 57.5 86.3



#14
Allyl chloride
Concen: 25.481 ug/l
RT: 2.09 min Scan# 148
Delta R.T. -0.00 min
Lab File: VF061605.D
Acq: 12 Feb 2019 13:27

Tgt Ion: 41 Resp: 49316
Ion Ratio Lower Upper
41 100
39 109.8 94.6 141.8
76 31.4 25.9 38.9





#15

Acrylonitrile

Concen: 95.611 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.00 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBS01

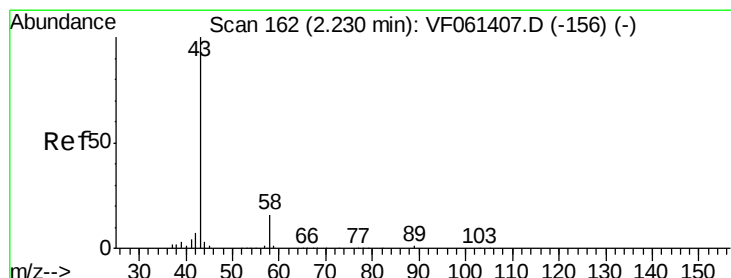
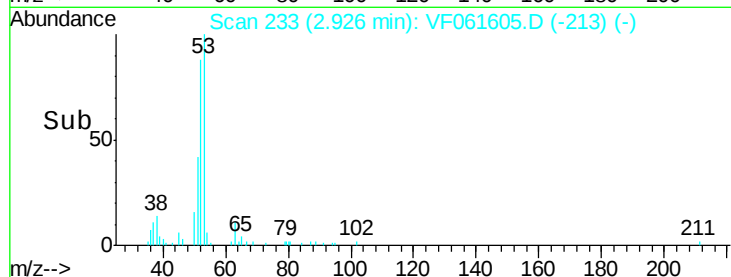
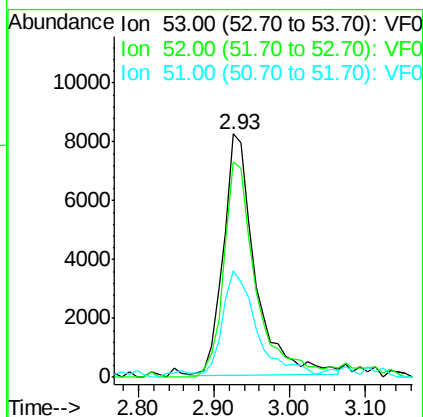
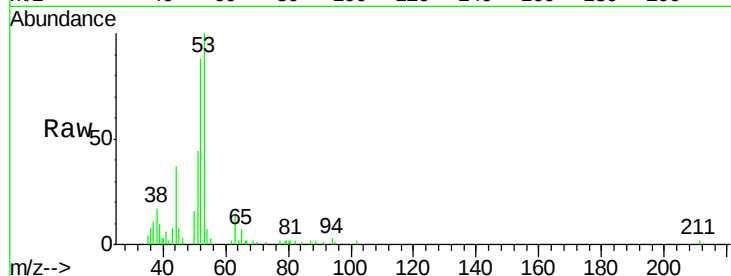
Tot Ion: 53 Resp: 23863

Ion Ratio Lower Upper

53 100

52 88.4 69.6 104.4

51 43.6 36.8 55.2



#16

Acetone

Concen: 132.994 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.00 min

Lab File: VF061605.D

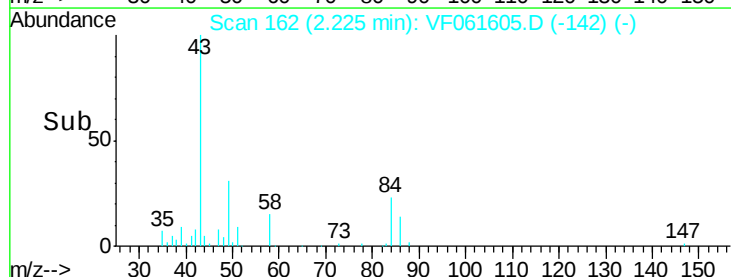
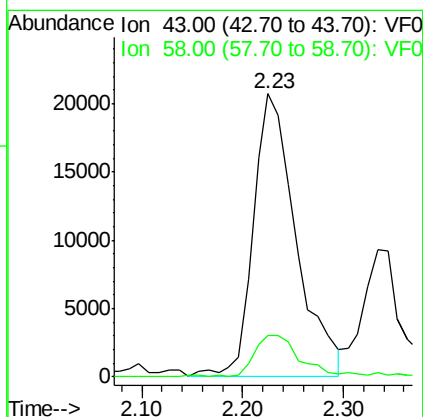
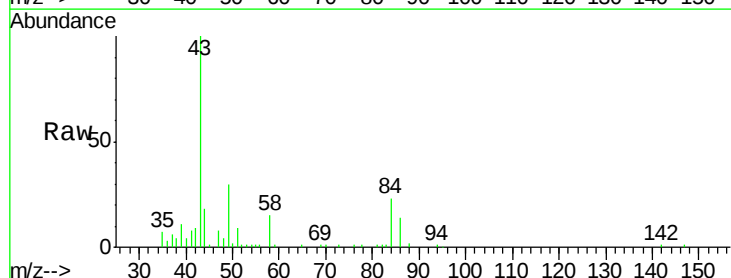
Acq: 12 Feb 2019 13:27

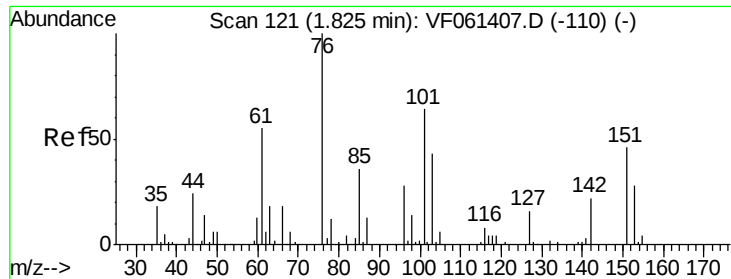
Tgt Ion: 43 Resp: 61416

Ion Ratio Lower Upper

43 100

58 14.7 13.3 19.9

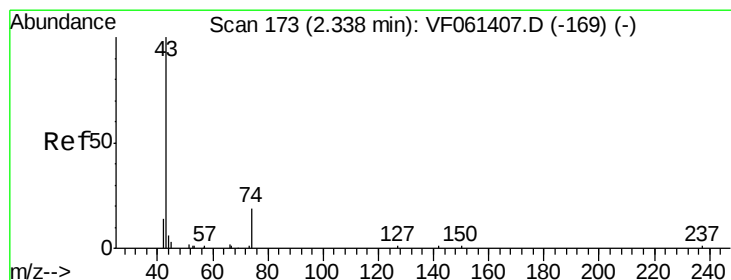
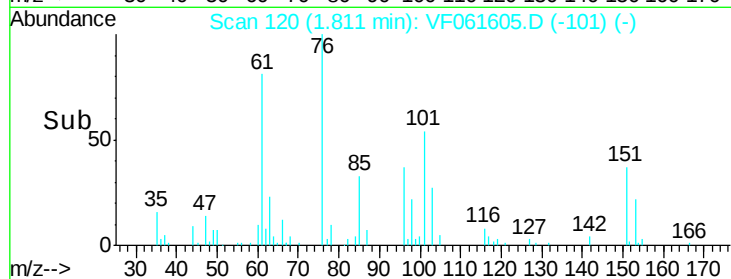
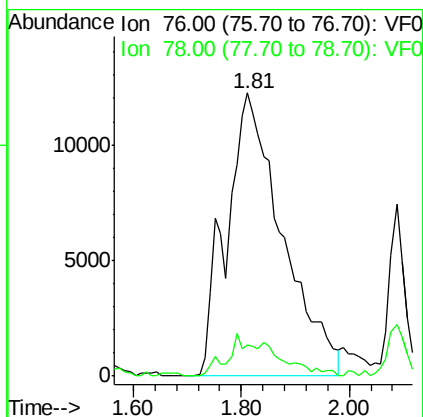
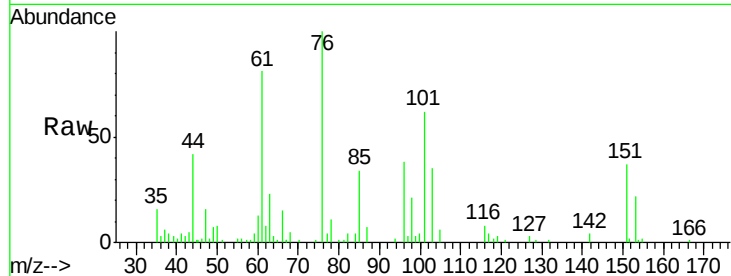




#17
Carbon Disulfide
Concen: 17.072 ug/l
RT: 1.81 min Scan# 120
Delta R.T. -0.01 min
Lab File: VF061605.D
Acq: 12 Feb 2019 13:27

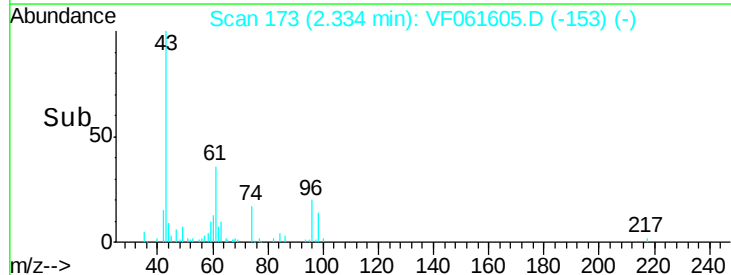
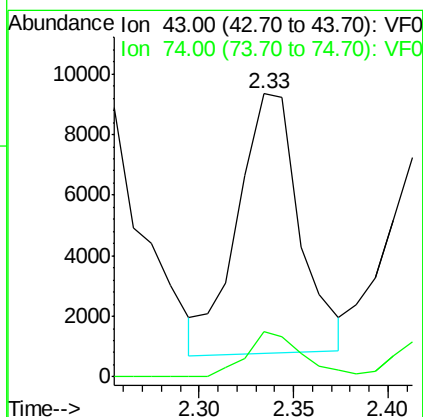
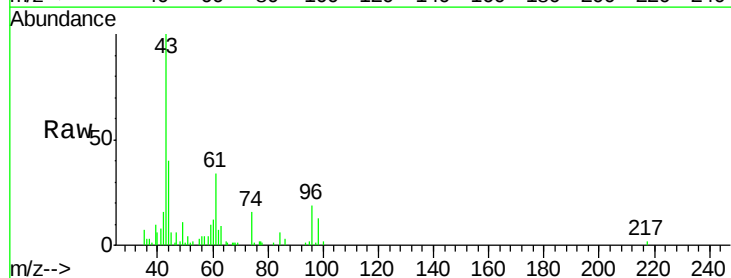
Instrument :
MSVOA_F
ClientSampleId :
VF0212SBS01

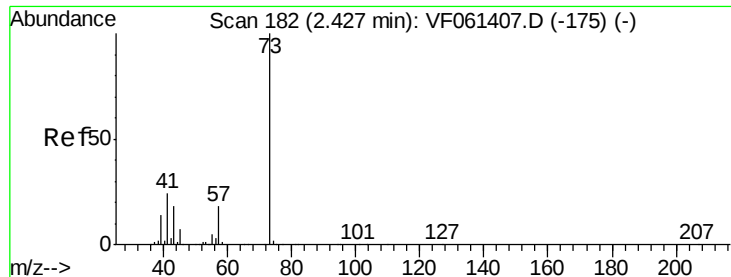
Tot Ion: 76 Resp: 88271
Ion Ratio Lower Upper
76 100
78 10.8 9.6 14.4



#18
Methyl Acetate
Concen: 21.359 ug/l
RT: 2.33 min Scan# 173
Delta R.T. -0.00 min
Lab File: VF061605.D
Acq: 12 Feb 2019 13:27

Tgt Ion: 43 Resp: 19561
Ion Ratio Lower Upper
43 100
74 16.0 13.4 20.0



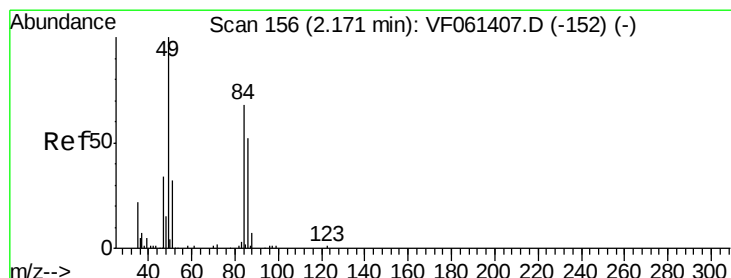
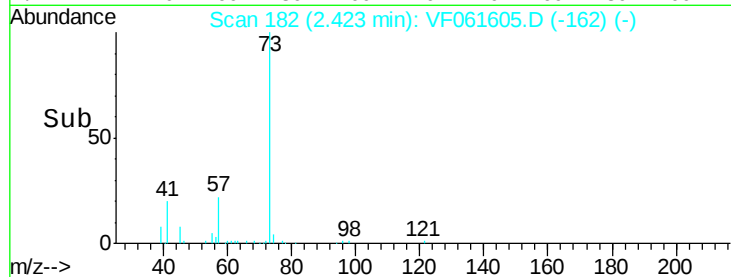
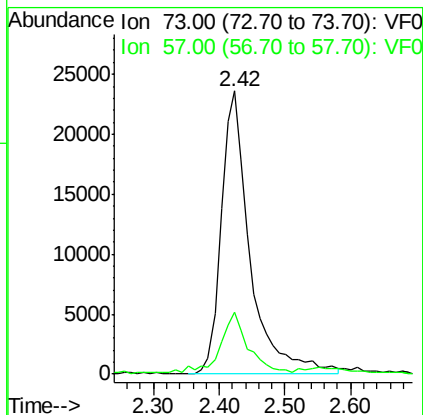
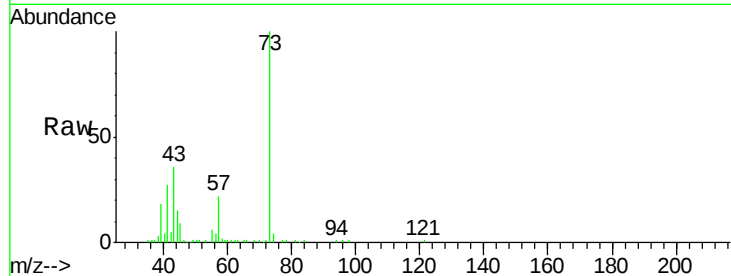


#19

Methyl tert-butyl Ether
 Concen: 19.392 ug/l
 RT: 2.42 min Scan# 182
 Delta R.T. -0.00 min
 Lab File: VF061605.D
 Acq: 12 Feb 2019 13:27

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0212SBS01

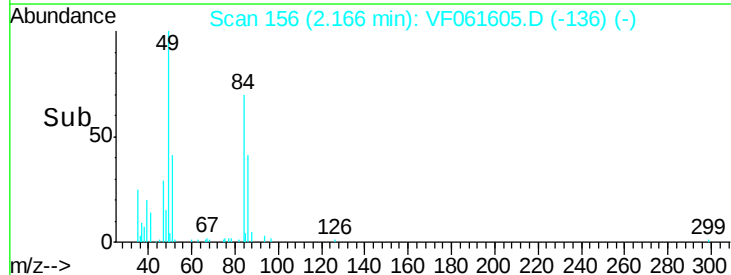
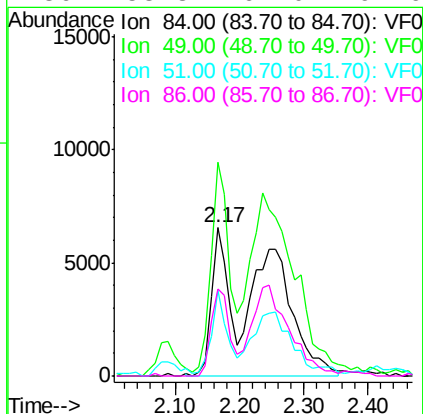
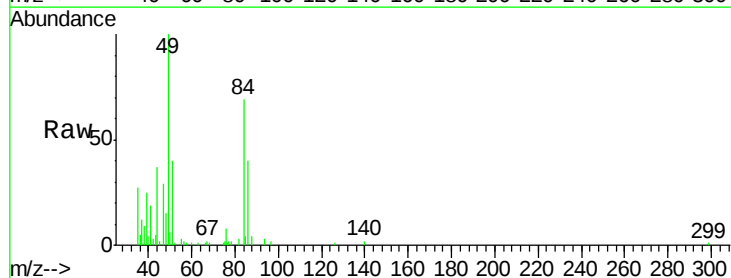
Tot Ion: 73 Resp: 72087
 Ion Ratio Lower Upper
 73 100
 57 21.8 14.8 22.2

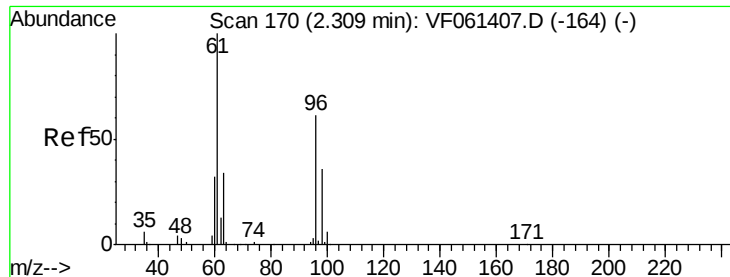


#20

Methylene Chloride
 Concen: 22.640 ug/l m
 RT: 2.17 min Scan# 156
 Delta R.T. -0.00 min
 Lab File: VF061605.D
 Acq: 12 Feb 2019 13:27

Tgt Ion: 84 Resp: 36998
 Ion Ratio Lower Upper
 84 100
 49 144.0 120.0 180.0
 51 57.6 38.6 58.0
 86 58.3 61.0 91.6#





#21

trans-1,2-Dichloroethene

Concen: 19.750 ug/l

RT: 2.29 min Scan# 169

Delta R.T. -0.01 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBS01

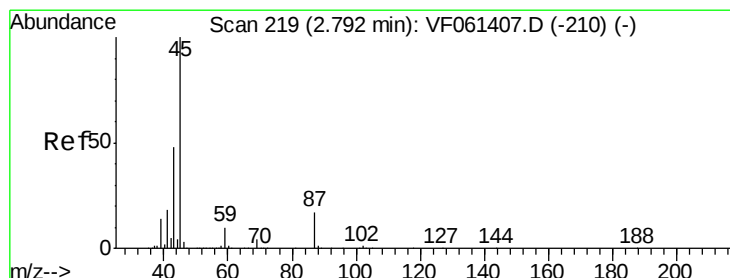
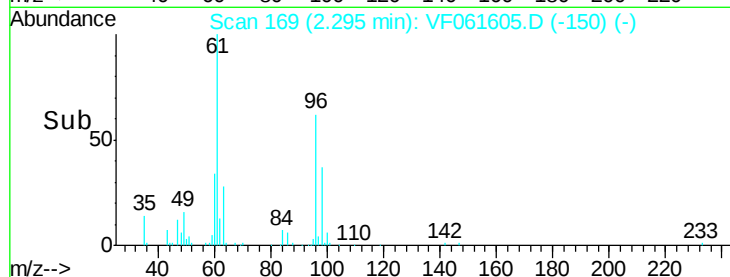
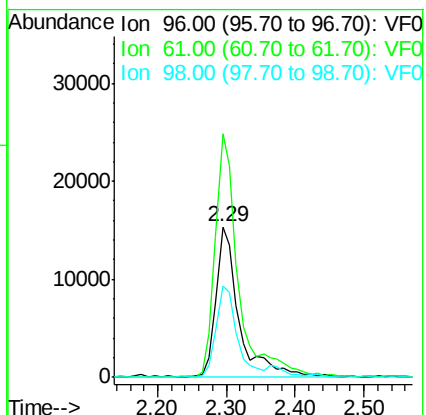
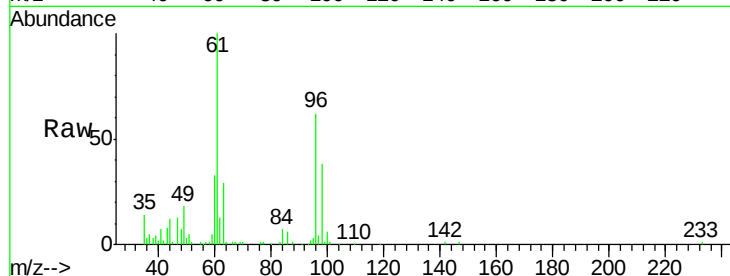
Tot Ion: 96 Resp: 36033

Ion Ratio Lower Upper

96 100

61 162.0 131.8 197.8

98 60.8 47.4 71.0



#22

Diisopropyl ether

Concen: 19.516 ug/l

RT: 2.79 min Scan# 219

Delta R.T. -0.00 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Tgt Ion: 45 Resp: 115168

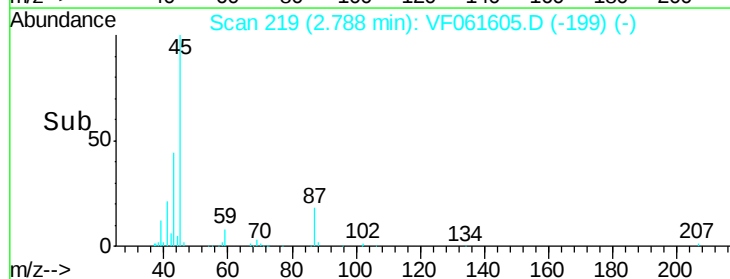
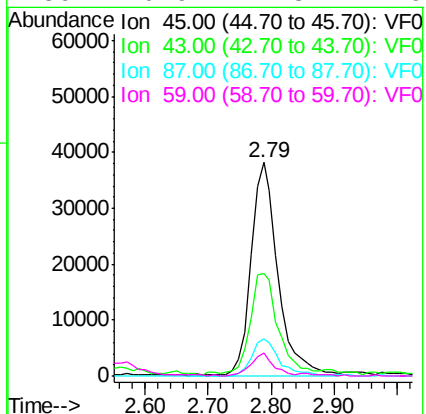
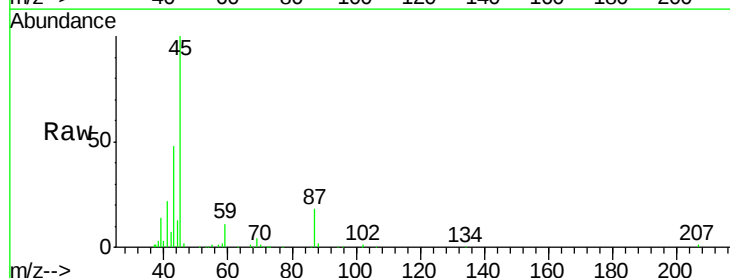
Ion Ratio Lower Upper

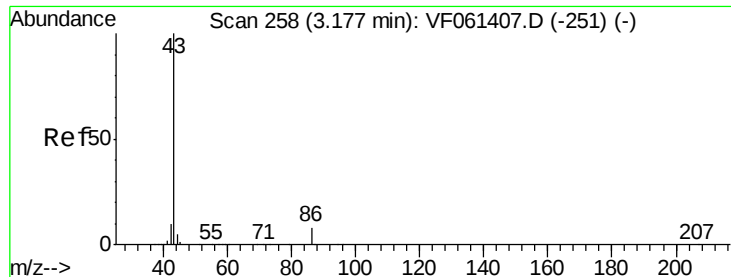
45 100

43 47.9 39.0 58.6

87 17.6 13.9 20.9

59 10.9 7.8 11.6





#23

Vinyl Acetate

Concen: 102.800 ug/l

RT: 3.17 min Scan# 258

Delta R.T. -0.00 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Instrument :

MSVOA_F

ClientSampled :

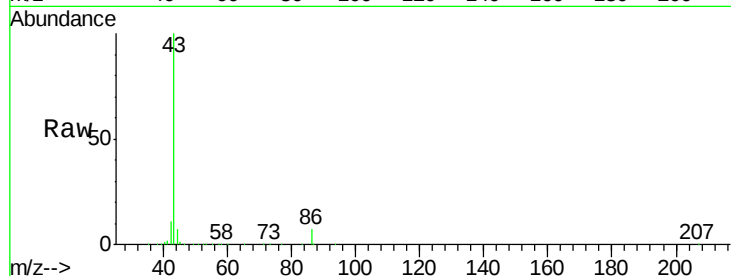
VF0212SBS01

Tot Ion: 43 Resp: 261886

Ion Ratio Lower Upper

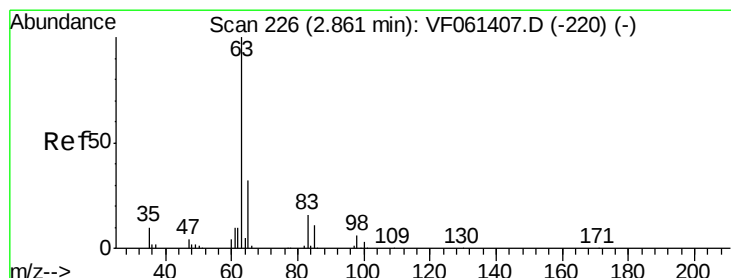
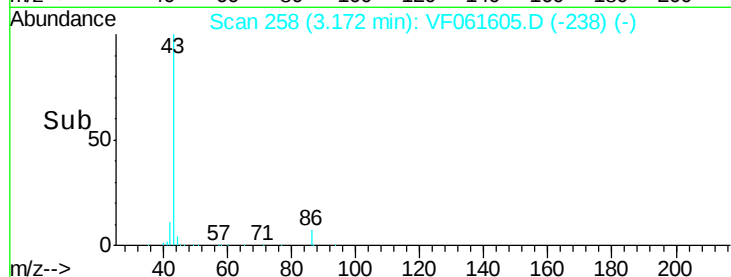
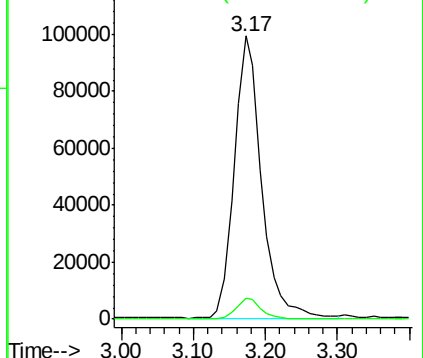
43 100

86 7.4 6.2 9.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 18.816 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.00 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

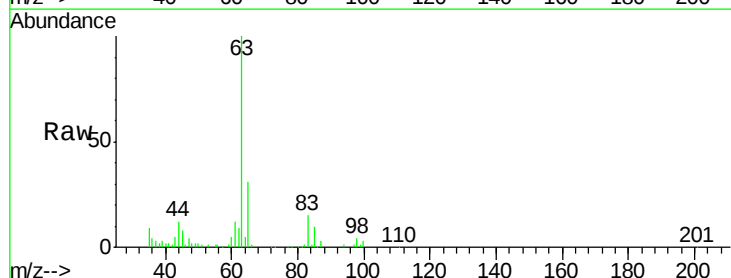
Tgt Ion: 63 Resp: 69690

Ion Ratio Lower Upper

63 100

98 3.9 2.9 8.8

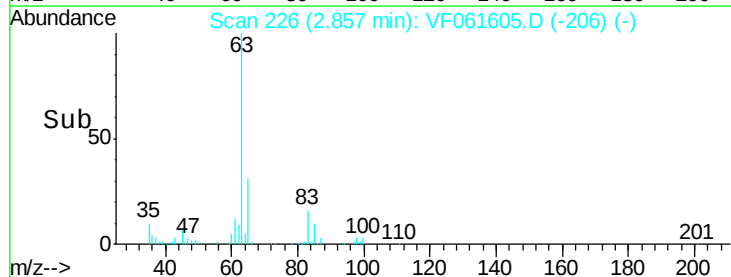
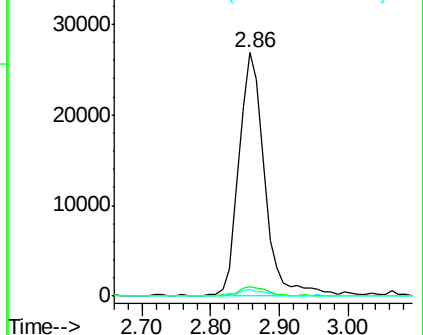
100 2.9 1.6 4.8

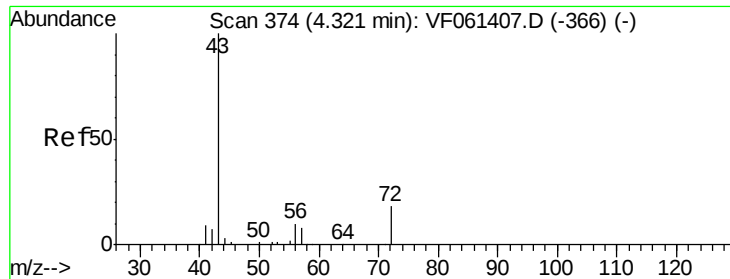


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 109.028 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.00 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Instrument :

MSVOA_F

ClientSampleId :

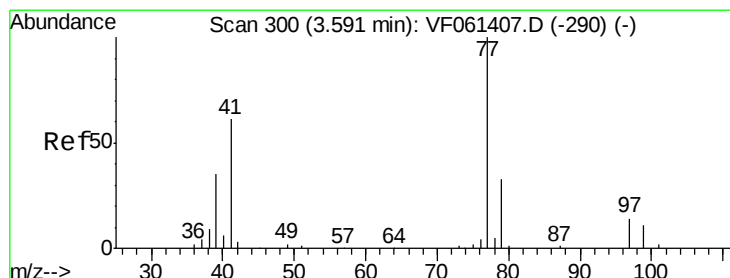
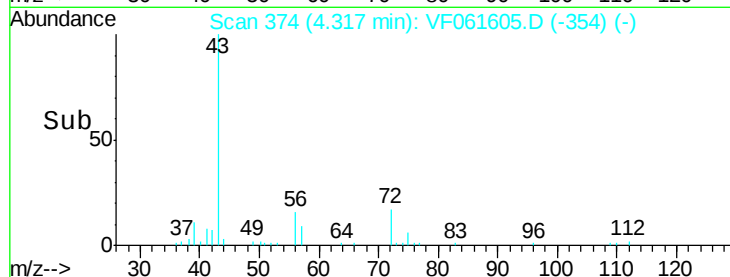
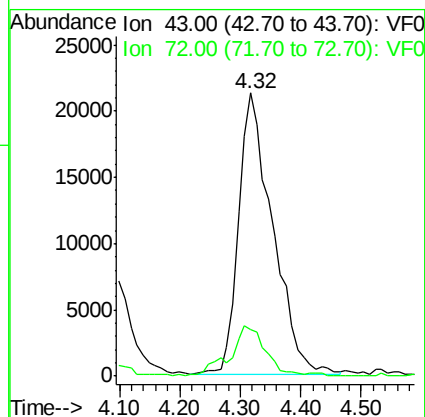
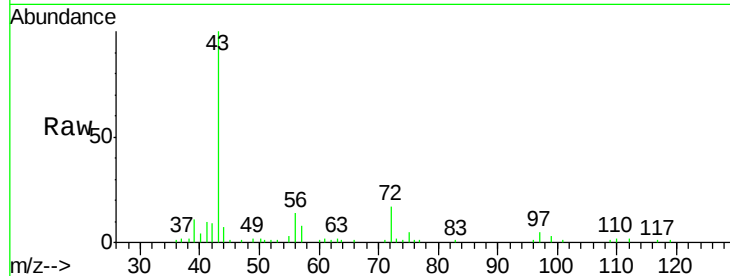
VF0212SBS01

Tot Ion: 43 Resp: 83728

Ion Ratio Lower Upper

43 100

72 16.6 15.8 23.6



#26

2,2-Dichloropropane

Concen: 18.026 ug/l

RT: 3.58 min Scan# 299

Delta R.T. -0.01 min

Lab File: VF061605.D

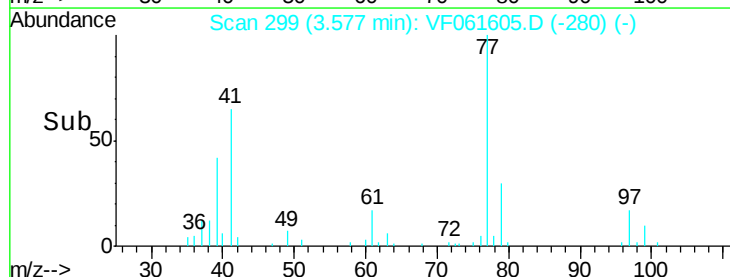
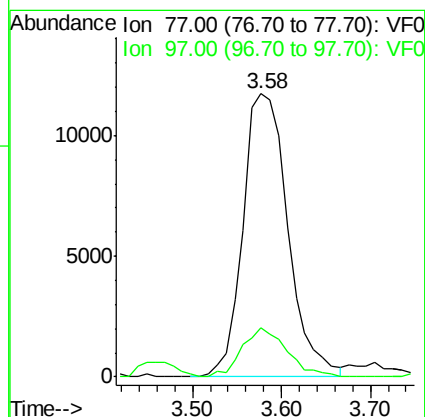
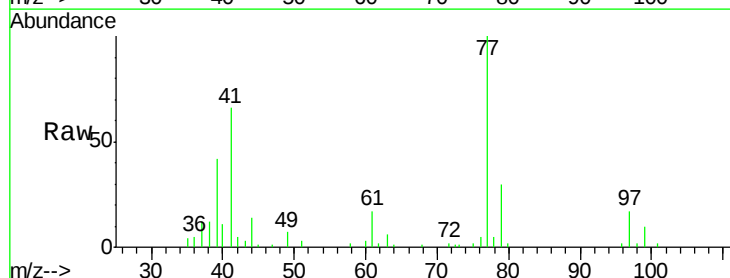
Acq: 12 Feb 2019 13:27

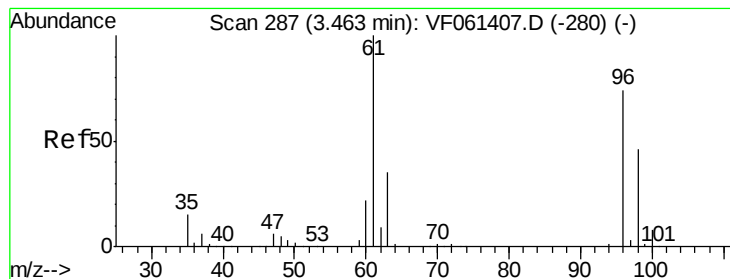
Tgt Ion: 77 Resp: 41020

Ion Ratio Lower Upper

77 100

97 17.5 8.5 25.5



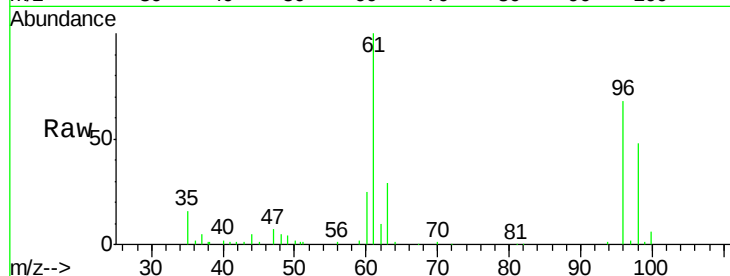


#27

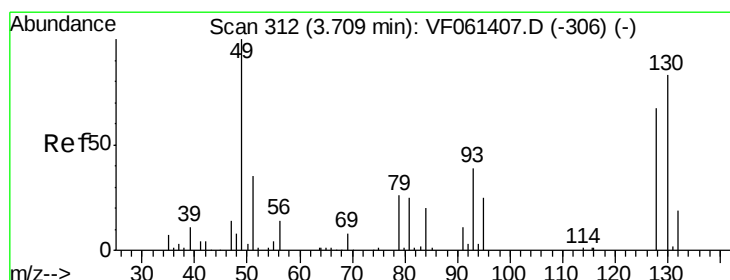
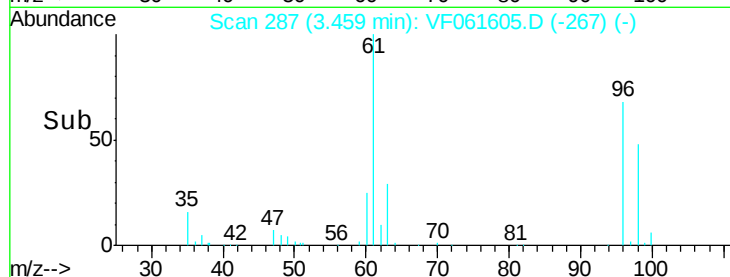
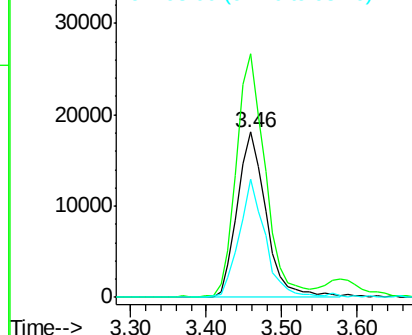
cis-1,2-Dichloroethene
Concen: 17.767 ug/l
RT: 3.46 min Scan# 287
Delta R.T. -0.00 min
Lab File: VF061605.D
Acq: 12 Feb 2019 13:27

Instrument :
MSVOA_F
ClientSampleId :
VF0212SBS01

Tot Ion	96	Resp	47849
Ion	Ratio	Lower	Upper
96	100		
61	147.4	0.0	270.2
98	71.2	0.0	124.0



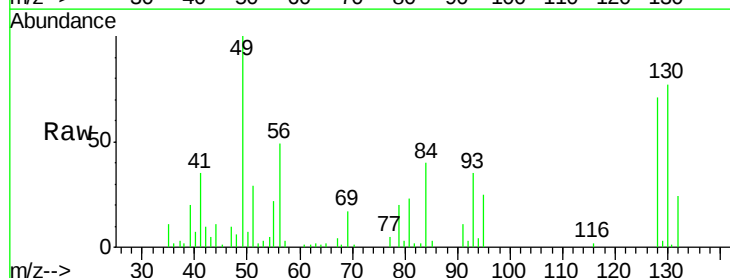
Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



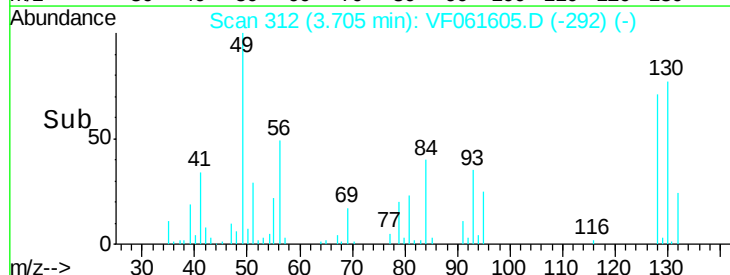
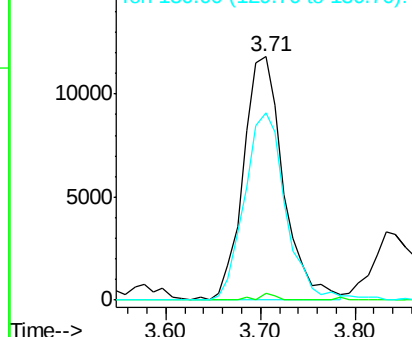
#28

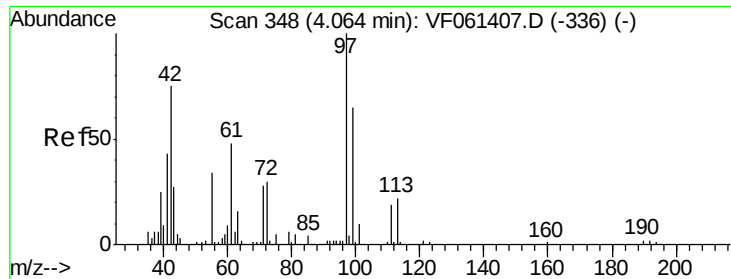
Bromochloromethane
Concen: 20.900 ug/l
RT: 3.71 min Scan# 312
Delta R.T. -0.00 min
Lab File: VF061605.D
Acq: 12 Feb 2019 13:27

Tgt Ion	49	Resp	34796
Ion	Ratio	Lower	Upper
49	100		
129	2.8	0.0	0.0#
130	77.1	65.4	98.2



Abundance Ion 49.00 (48.70 to 49.70): VF0
Ion 129.00 (128.70 to 129.70): V
Ion 130.00 (129.70 to 130.70): V





#29

Tetrahydrofuran

Concen: 91.659 ug/l

RT: 4.06 min Scan# 348

Delta R.T. -0.00 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBS01

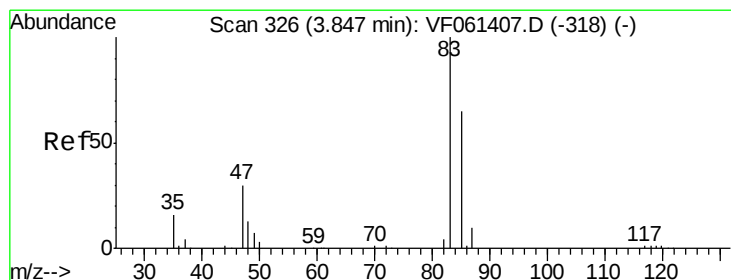
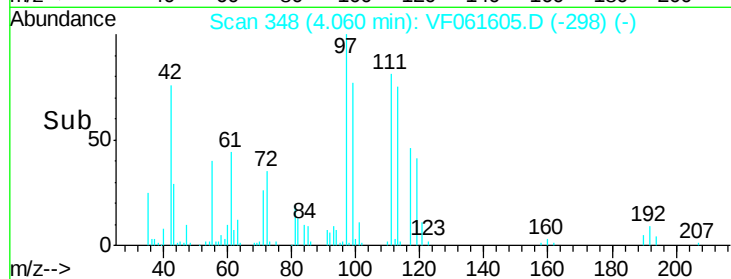
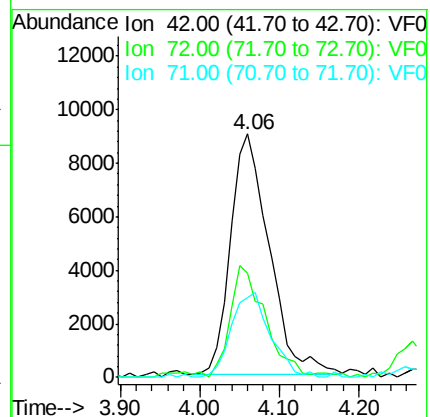
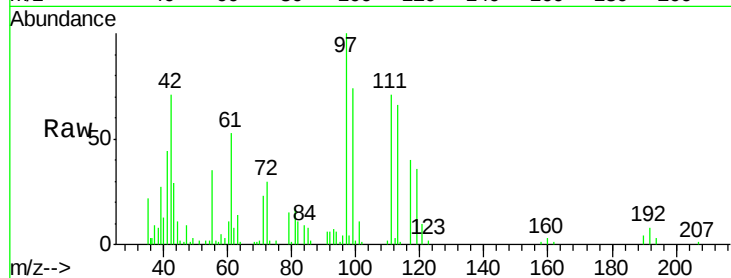
Tot Ion: 42 Resp: 30309

Ion Ratio Lower Upper

42 100

72 42.4 28.9 43.3

71 35.8 29.6 44.4



#30

Chloroform

Concen: 20.388 ug/l

RT: 3.84 min Scan# 326

Delta R.T. -0.00 min

Lab File: VF061605.D

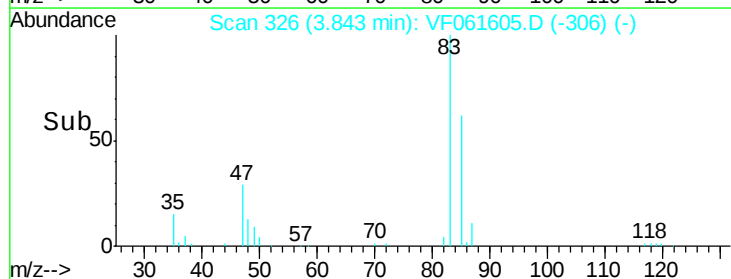
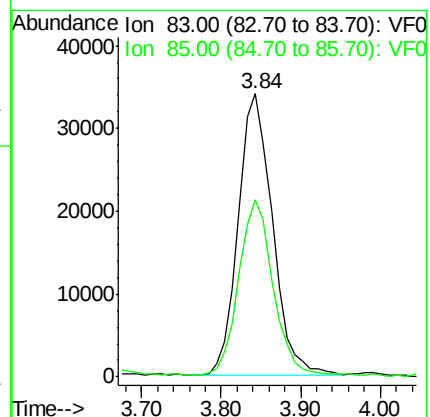
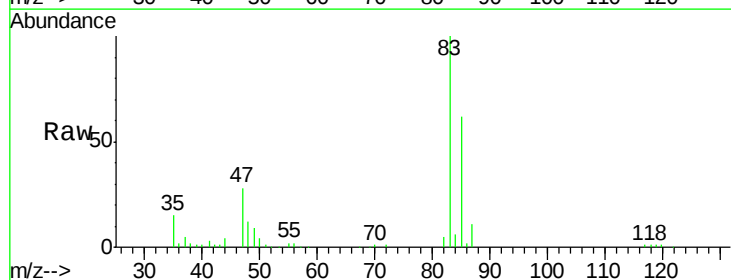
Acq: 12 Feb 2019 13:27

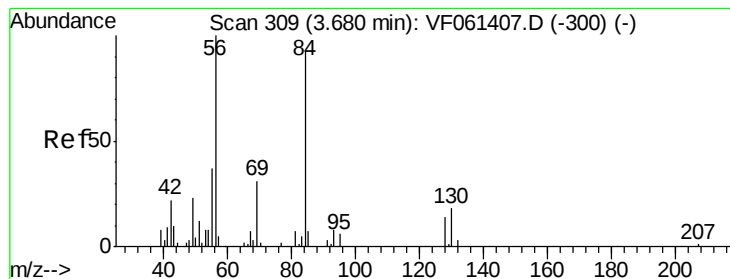
Tgt Ion: 83 Resp: 101907

Ion Ratio Lower Upper

83 100

85 62.5 52.7 79.1





#31

Cyclohexane

Concen: 16.996 ug/l

RT: 3.68 min Scan# 309

Delta R.T. -0.00 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBS01

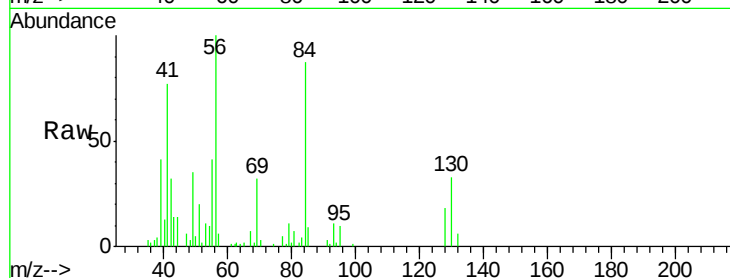
Tot Ion: 56 Resp: 62881

Ion Ratio Lower Upper

56 100

69 31.7 24.6 36.8

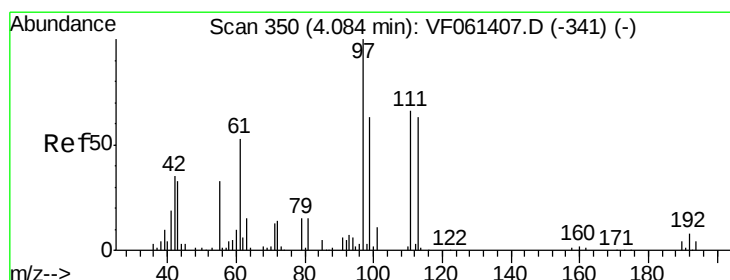
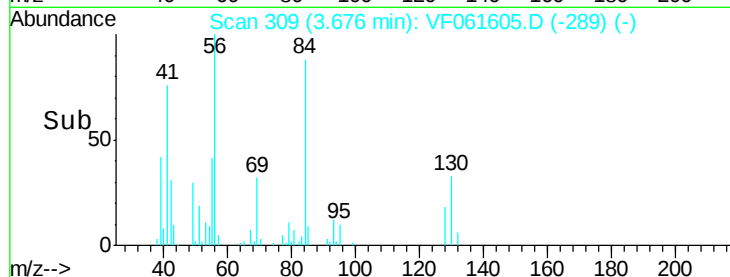
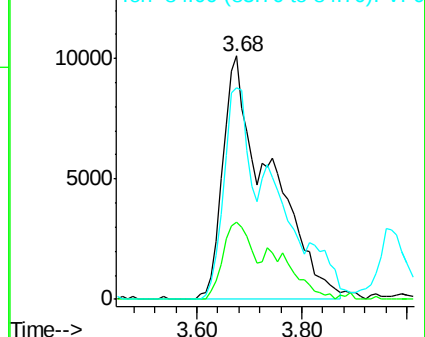
84 87.1 74.2 111.2



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0



#32

1,1,1-Trichloroethane

Concen: 15.637 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.00 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

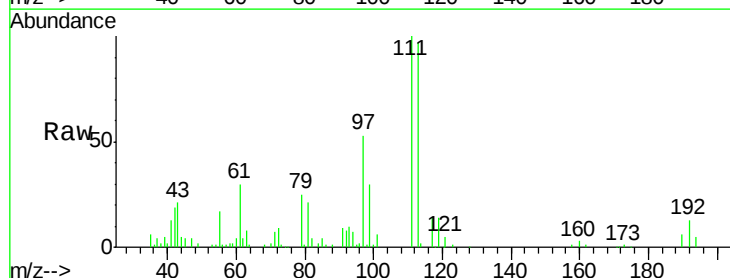
Tgt Ion: 97 Resp: 57309

Ion Ratio Lower Upper

97 100

99 56.4 50.1 75.1

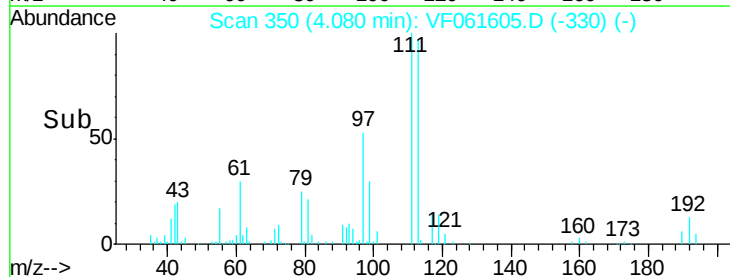
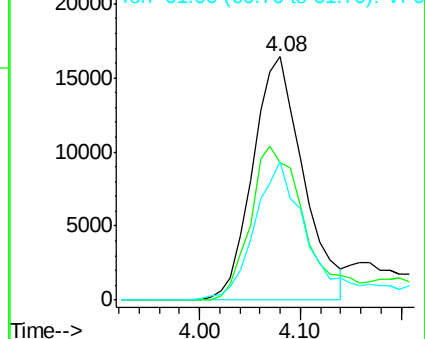
61 56.8 43.1 64.7

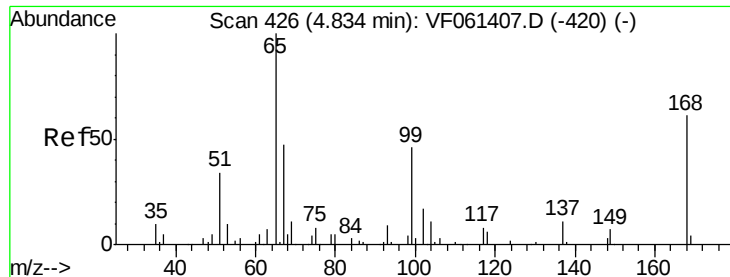


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 48.297 ug/l

RT: 4.82 min Scan# 425

Delta R.T. -0.01 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Instrument :

MSVOA_F

ClientSampleId :

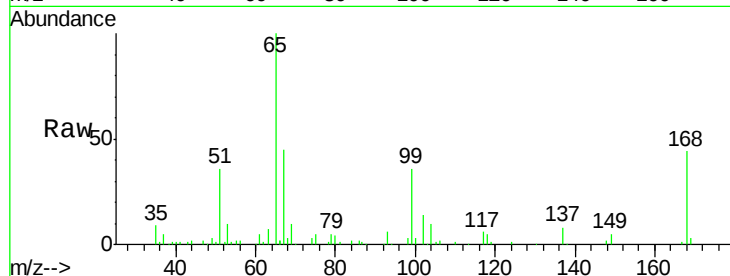
VF0212SBS01

Tot Ion: 65 Resp: 111177

Ion Ratio Lower Upper

65 100

67 45.4 0.0 99.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

40000

30000

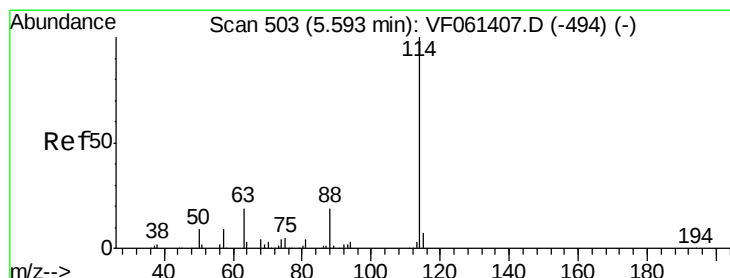
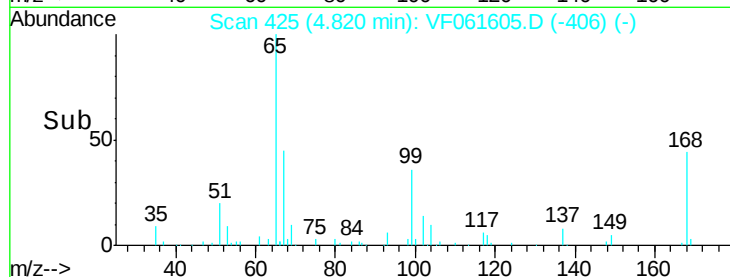
20000

10000

0

4.70 4.80 4.90 5.00

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.01 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

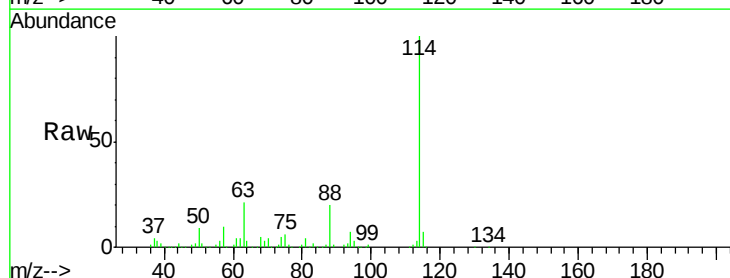
Tgt Ion: 114 Resp: 302740

Ion Ratio Lower Upper

114 100

63 21.3 0.0 39.0

88 20.1 0.0 37.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

150000

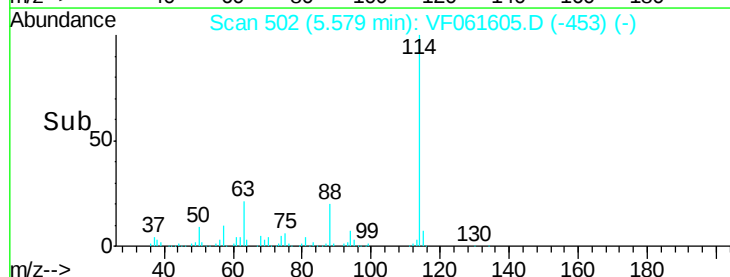
100000

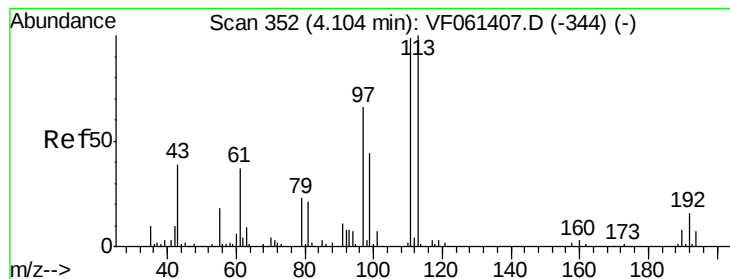
50000

0

5.40 5.60 5.80

Time-->





#35

Dibromofluoromethane

Concen: 50.224 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.01 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBS01

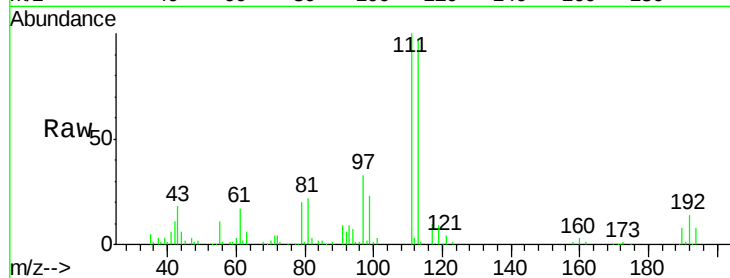
Tot Ion:113 Resp: 119980

Ion Ratio Lower Upper

113 100

111 102.8 79.4 119.0

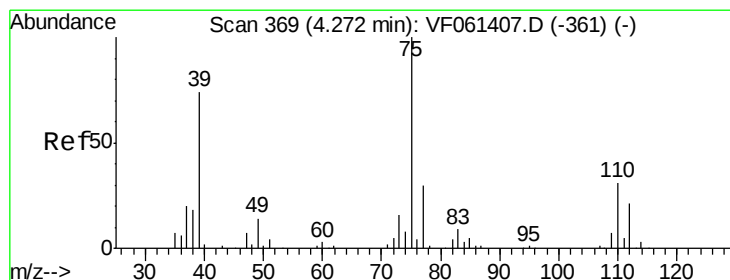
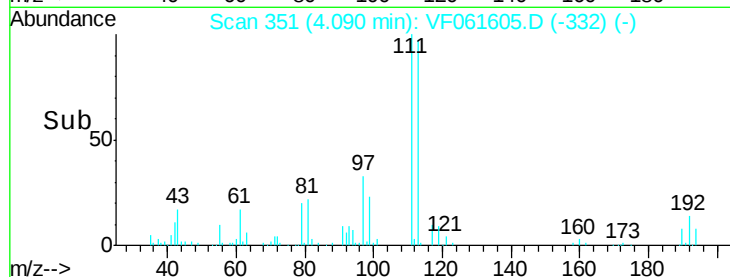
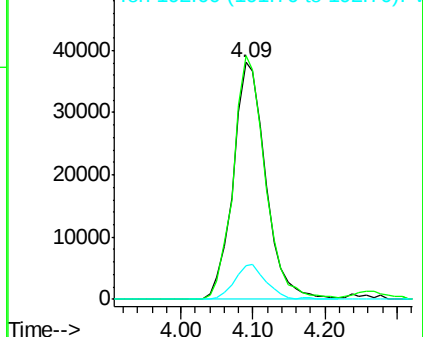
192 14.7 12.4 18.6



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 20.107 ug/l

RT: 4.26 min Scan# 368

Delta R.T. -0.01 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

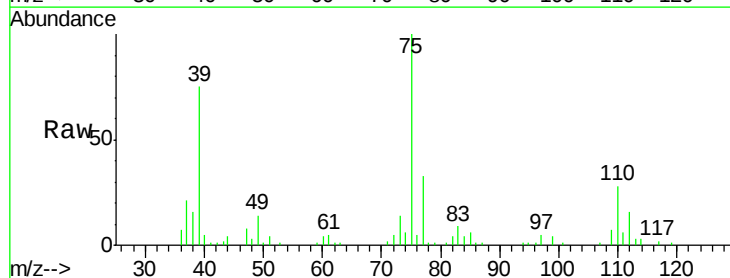
Tgt Ion: 75 Resp: 70577

Ion Ratio Lower Upper

75 100

110 27.7 15.8 47.3

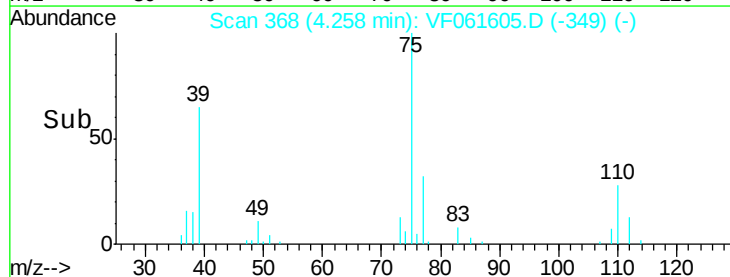
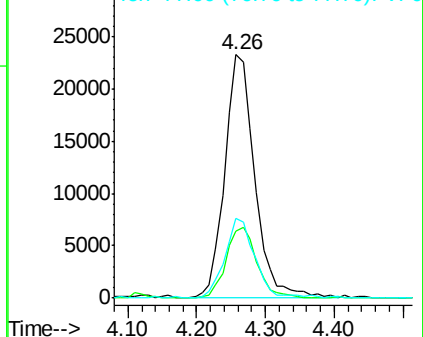
77 32.6 24.0 36.0

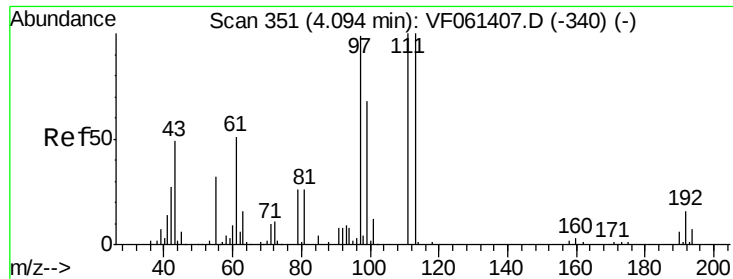


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0





#37

Ethyl Acetate

Concen: 21.465 ug/l

RT: 4.10 min Scan# 352

Delta R.T. 0.01 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBS01

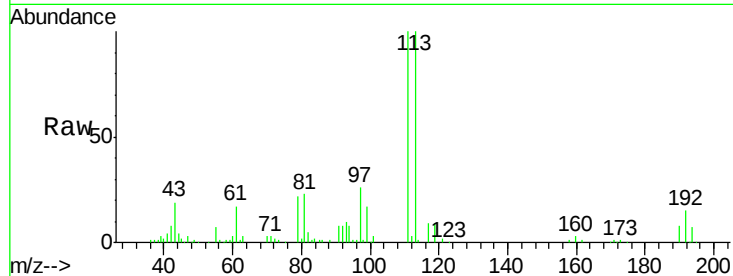
Tot Ion: 43 Resp: 30118

Ion Ratio Lower Upper

43 100

61 86.1 81.7 122.5

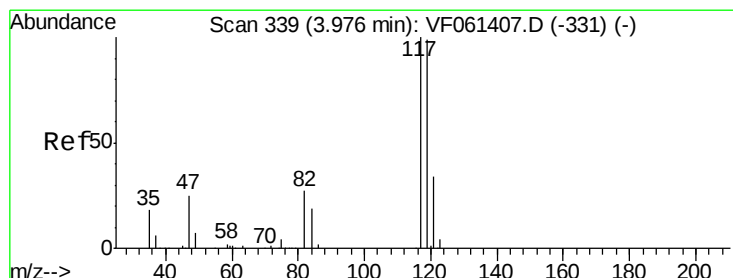
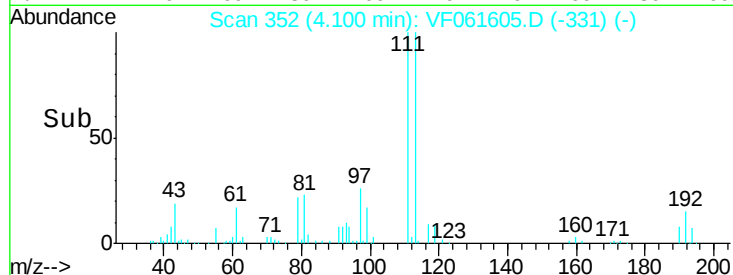
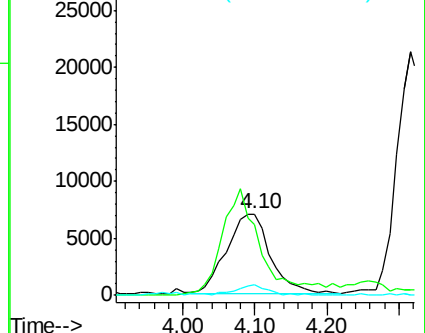
70 13.3 6.2 9.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



#38

Carbon Tetrachloride

Concen: 18.703 ug/l

RT: 3.97 min Scan# 339

Delta R.T. -0.00 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

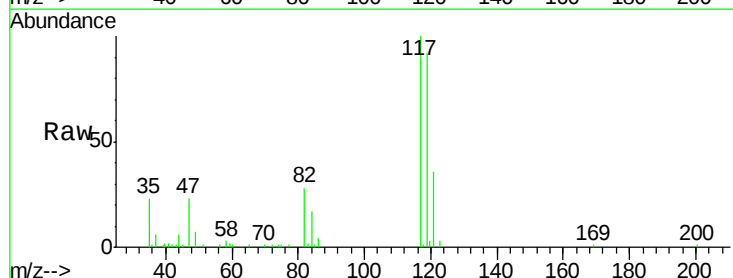
Tgt Ion:117 Resp: 57392

Ion Ratio Lower Upper

117 100

119 92.4 79.0 118.6

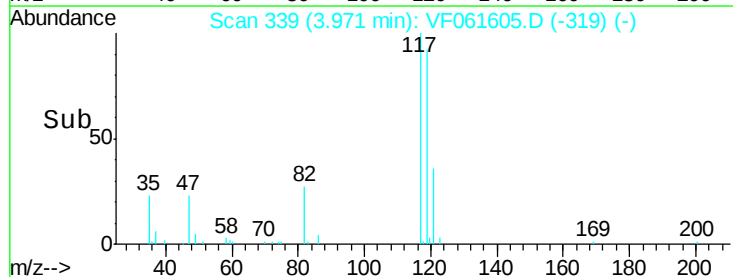
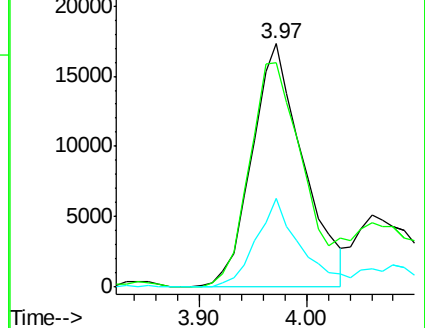
121 36.2 27.0 40.6

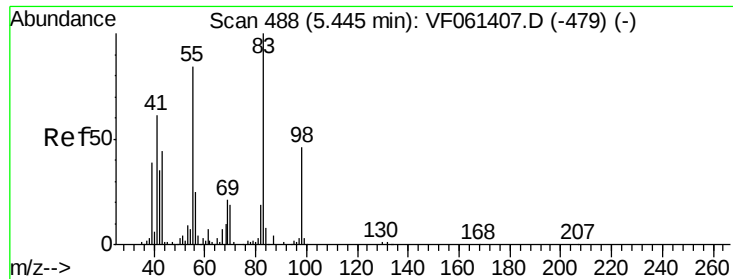


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

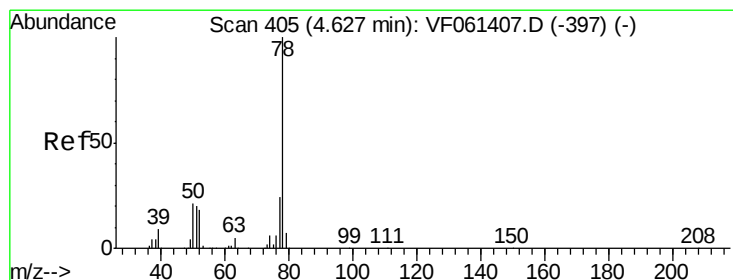
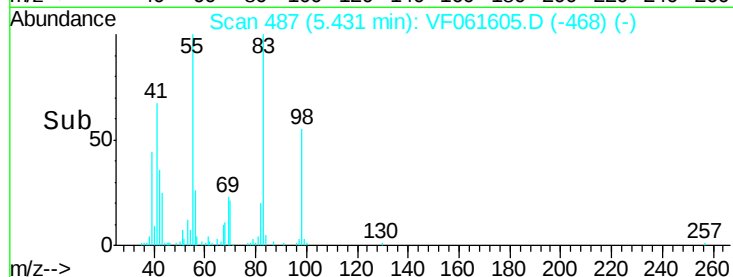
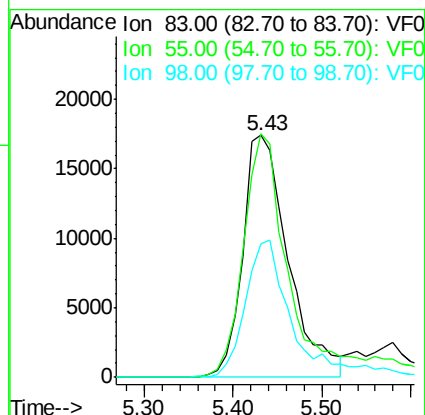
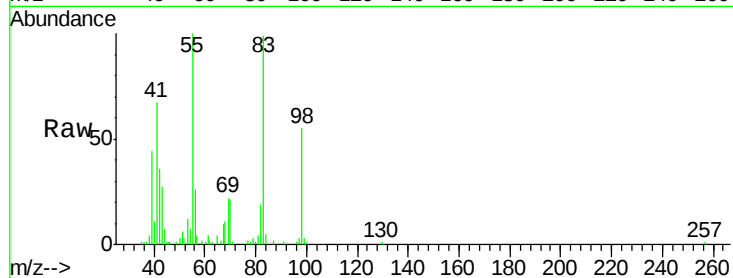




#39
Methvlcvclohexane
Concen: 16.224 ug/l
RT: 5.43 min Scan# 487
Delta R.T. -0.01 min
Lab File: VF061605.D
Acq: 12 Feb 2019 13:27

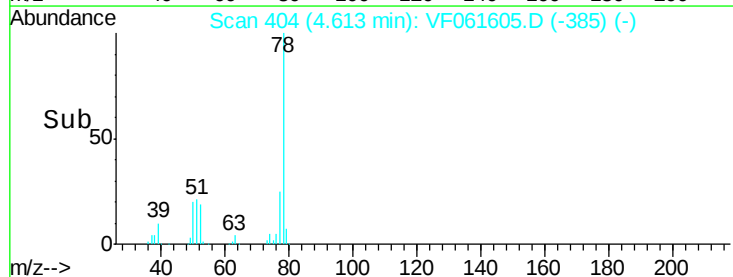
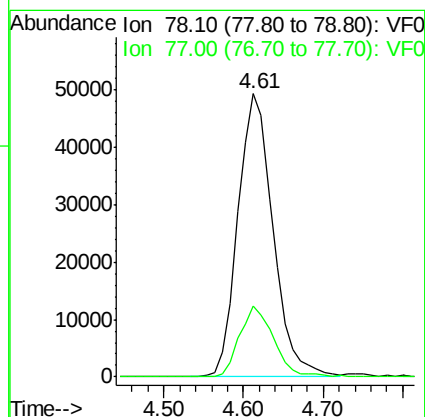
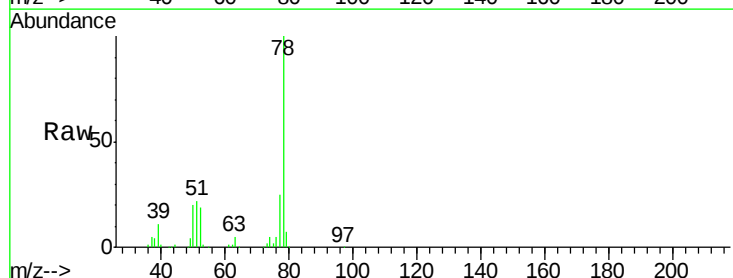
Instrument :
MSVOA_F
ClientSampleId :
VF0212SBS01

Tot Ion: 83 Resp: 61717
Ion Ratio Lower Upper
83 100
55 100.7 67.4 101.2
98 55.3 36.7 55.1#



#40
Benzene
Concen: 19.304 ug/l
RT: 4.61 min Scan# 404
Delta R.T. -0.01 min
Lab File: VF061605.D
Acq: 12 Feb 2019 13:27

Tgt Ion: 78 Resp: 150778
Ion Ratio Lower Upper
78 100
77 25.1 19.0 28.6

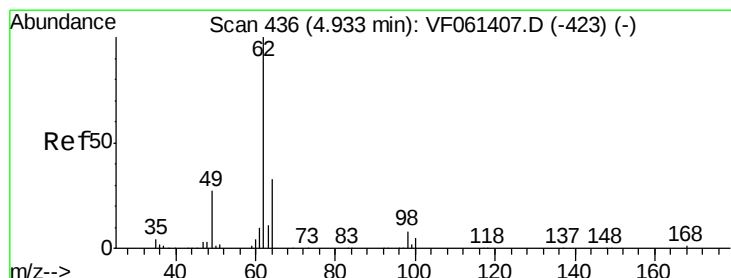
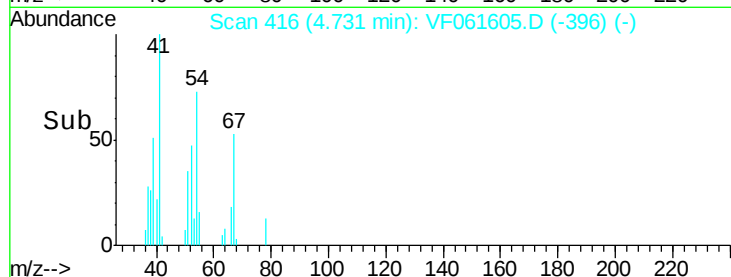
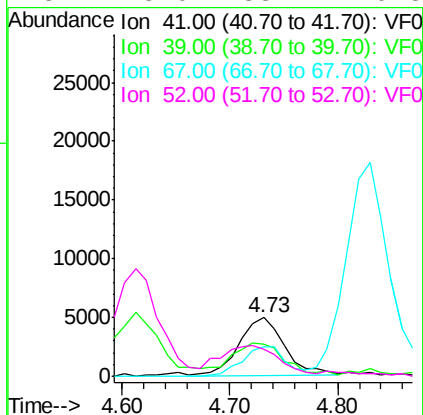
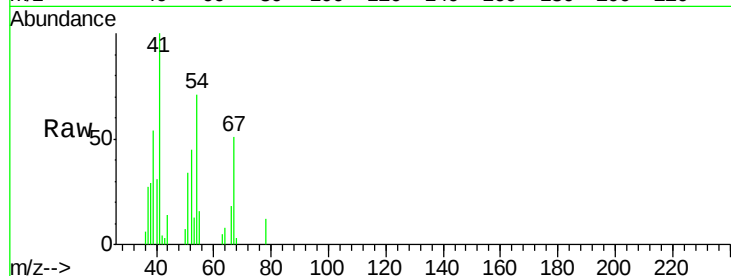




#41
Methacrylonitrile
Concen: 19.187 ug/l
RT: 4.73 min Scan# 416
Delta R.T. -0.00 min
Lab File: VF061605.D
Acq: 12 Feb 2019 13:27

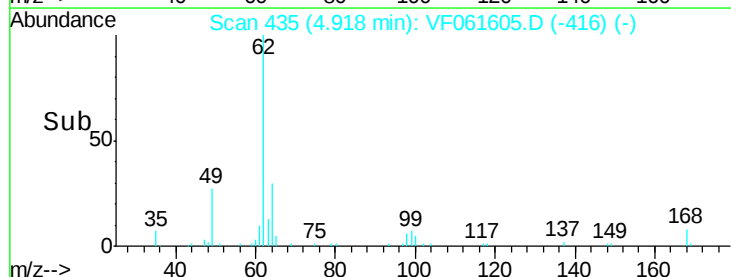
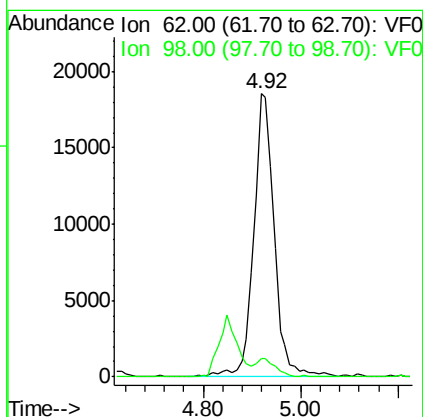
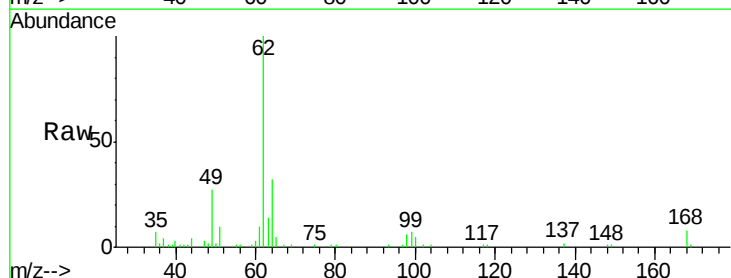
Instrument :
MSVOA_F
ClientSampleId :
VF0212SBS01

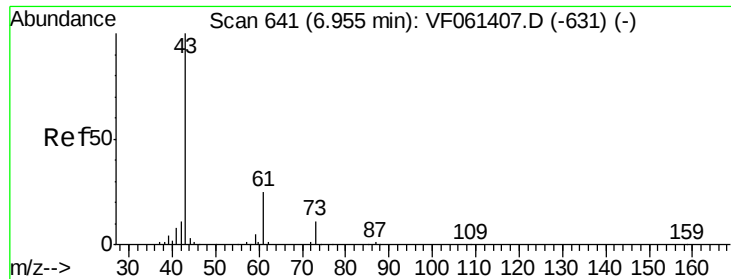
Tot Ion:	41	Resp:	14325
Ion	Ratio	Lower	Upper
41	100		
39	54.0	43.1	64.7
67	51.2	38.8	58.2
52	45.0	33.2	49.8



#42
1,2-Dichloroethane
Concen: 19.631 ug/l
RT: 4.92 min Scan# 435
Delta R.T. -0.01 min
Lab File: VF061605.D
Acq: 12 Feb 2019 13:27

Tgt Ion:	62	Resp:	54637
Ion	Ratio	Lower	Upper
62	100		
98	6.4	0.0	17.0



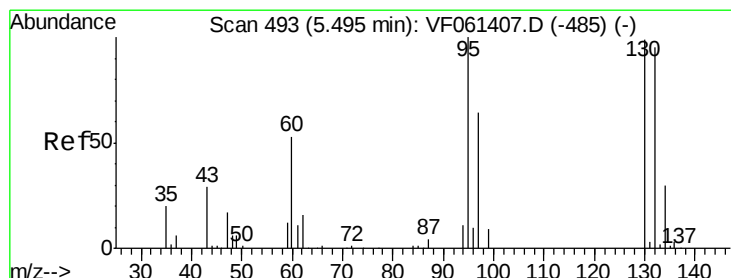
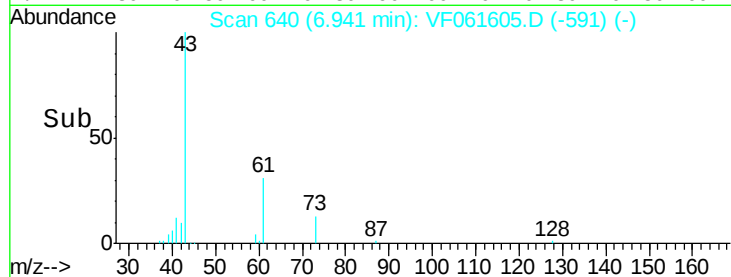
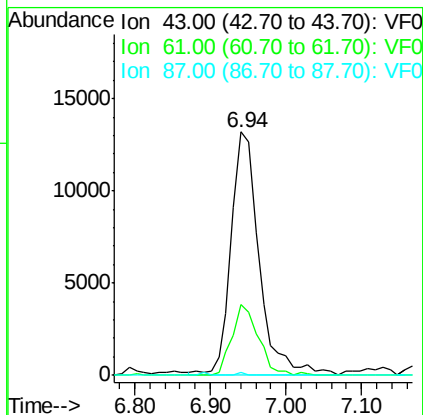
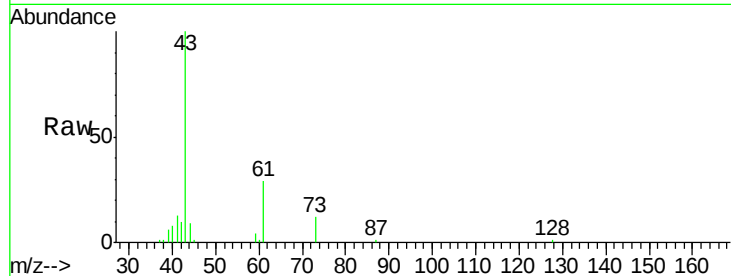


#43

Isopropyl Acetate
 Concen: 19.360 ug/l
 RT: 6.94 min Scan# 640
 Delta R.T. -0.01 min
 Lab File: VF061605.D
 Acq: 12 Feb 2019 13:27

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0212SBS01

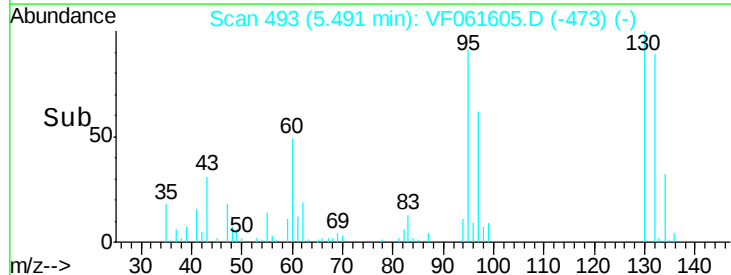
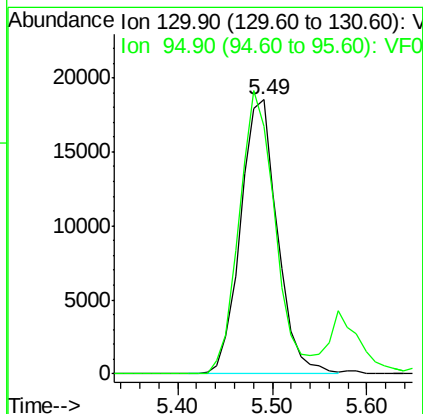
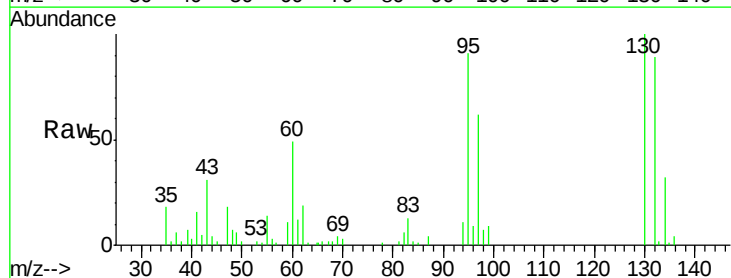
Tot Ion: 43 Resp: 34093
 Ion Ratio Lower Upper
 43 100
 61 29.2 20.3 30.5
 87 1.3 0.5 0.7#

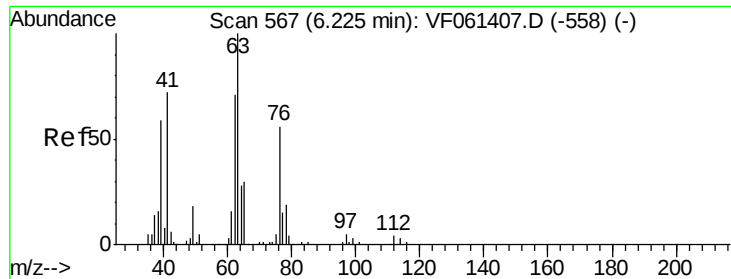


#44

Trichloroethene
 Concen: 20.887 ug/l
 RT: 5.49 min Scan# 493
 Delta R.T. -0.00 min
 Lab File: VF061605.D
 Acq: 12 Feb 2019 13:27

Tgt Ion: 130 Resp: 50046
 Ion Ratio Lower Upper
 130 100
 95 90.5 0.0 202.8





#45

1,2-Dichloropropane

Concen: 20.260 ug/l

RT: 6.22 min Scan# 567

Delta R.T. -0.00 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Instrument :

MSVOA_F

ClientSampleId :

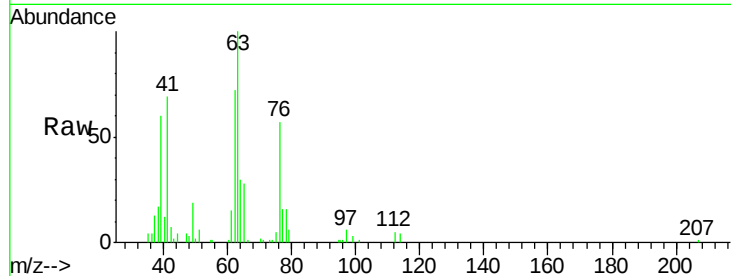
VF0212SBS01

Tot Ion: 63 Resp: 41532

Ion Ratio Lower Upper

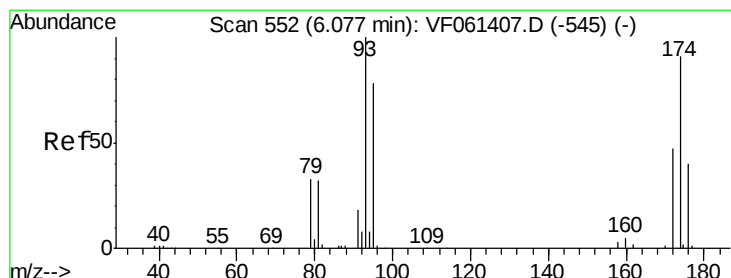
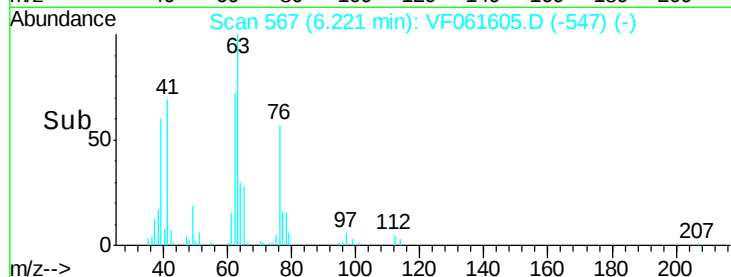
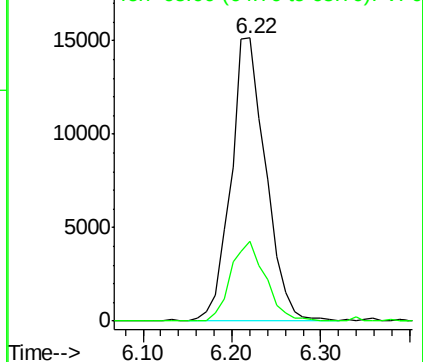
63 100

65 28.1 24.4 36.6



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 19.462 ug/l

RT: 6.06 min Scan# 551

Delta R.T. -0.01 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

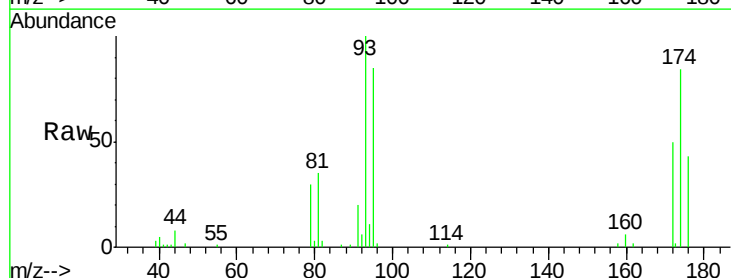
Tgt Ion: 93 Resp: 26528

Ion Ratio Lower Upper

93 100

95 85.0 62.1 93.1

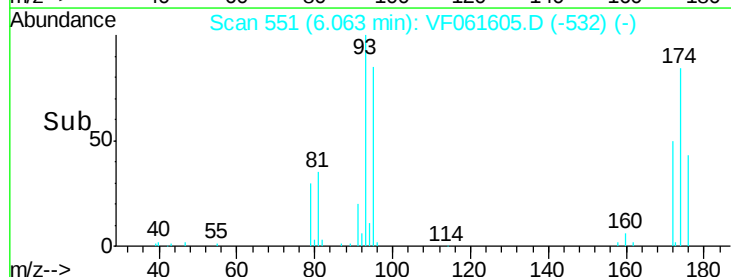
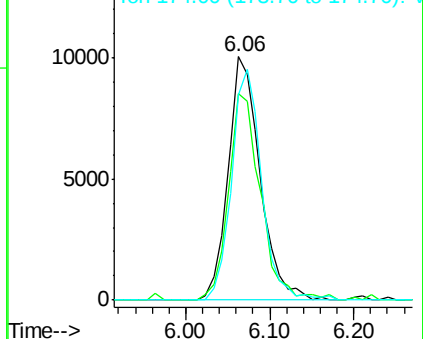
174 84.5 74.6 111.8



Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 20.673 ug/l

RT: 6.37 min Scan# 582

Delta R.T. -0.00 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBS01

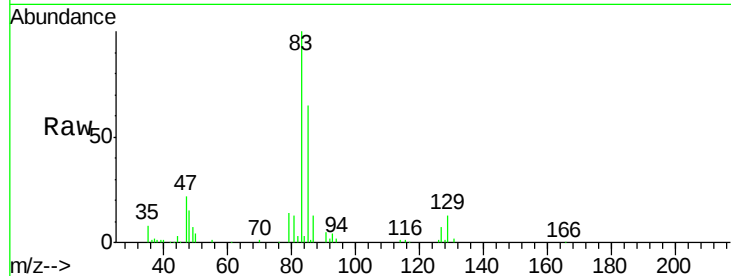
Tot Ion: 83 Resp: 69719

Ion Ratio Lower Upper

83 100

85 65.4 53.0 79.4

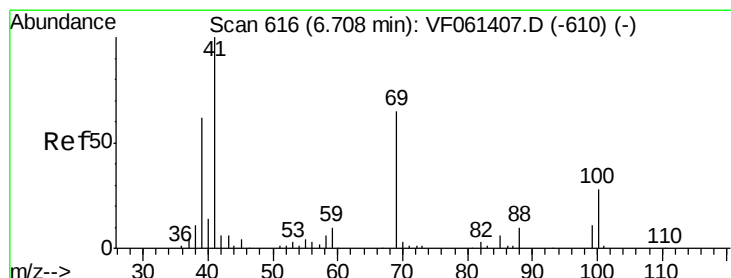
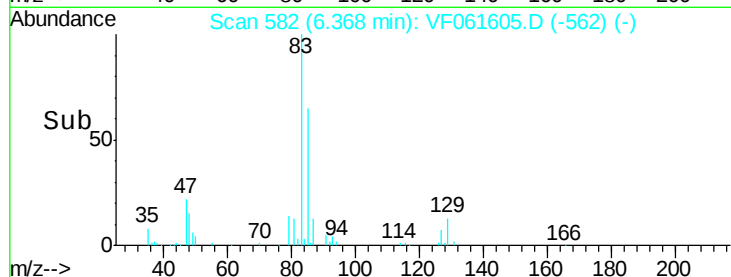
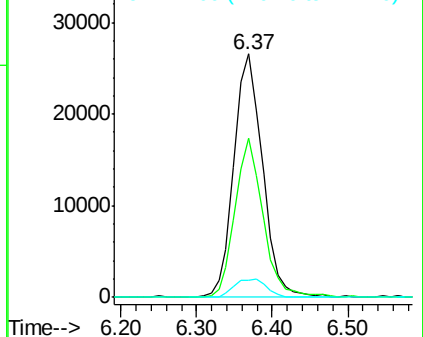
127 6.9 6.9 10.3



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 17.394 ug/l

RT: 6.69 min Scan# 615

Delta R.T. -0.01 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

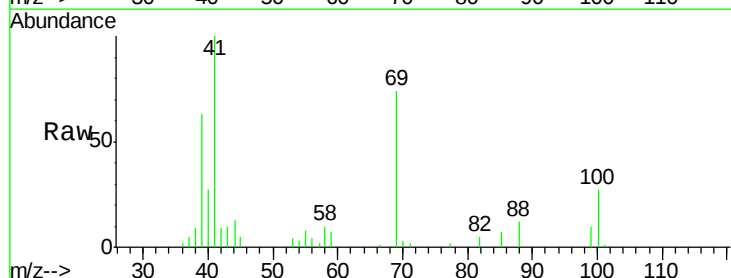
Tgt Ion: 41 Resp: 20569

Ion Ratio Lower Upper

41 100

69 74.2 51.7 77.5

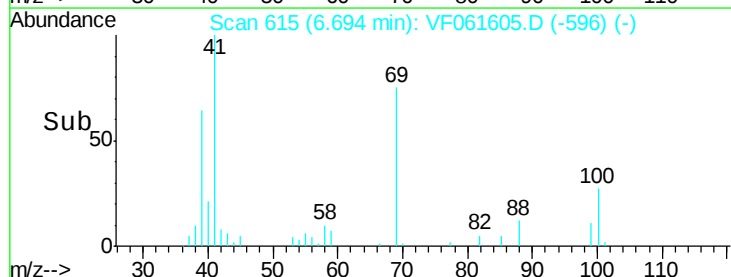
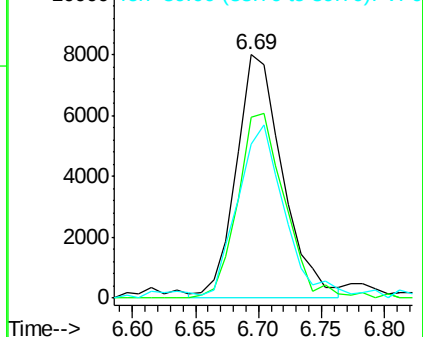
39 63.1 49.2 73.8

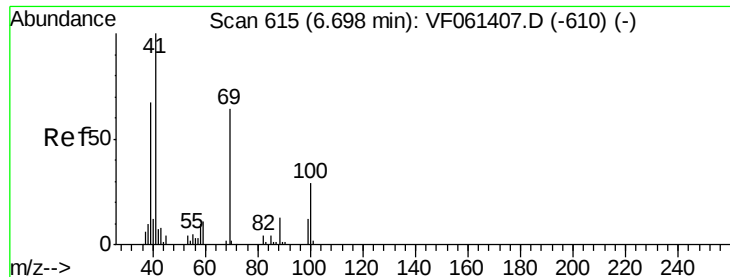


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 350.981 ug/l

RT: 6.68 min Scan# 614

Delta R.T. -0.01 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBS01

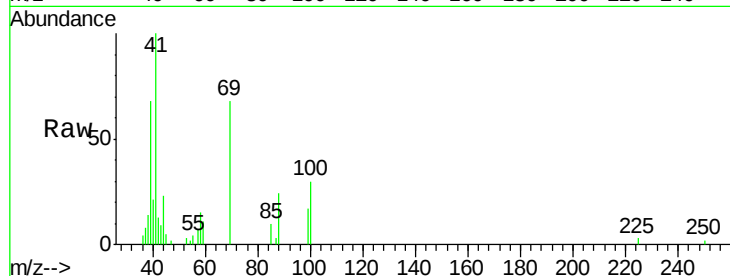
Tot Ion: 88 Resp: 3269

Ion Ratio Lower Upper

88 100

43 35.0 55.5 83.3#

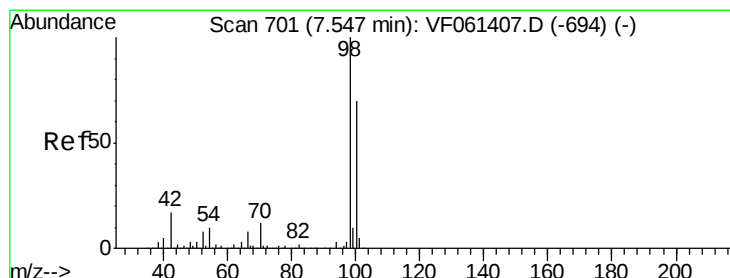
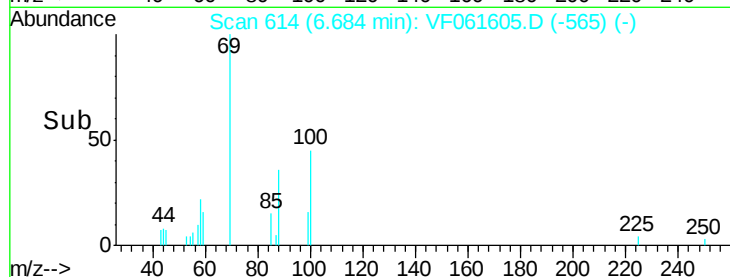
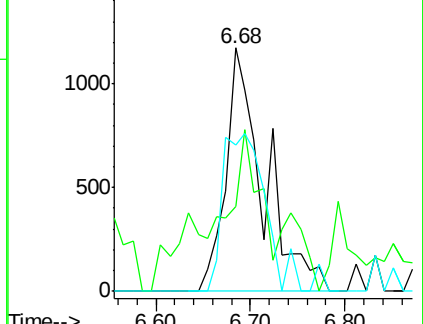
58 60.3 59.9 89.9



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 46.512 ug/l

RT: 7.53 min Scan# 700

Delta R.T. -0.01 min

Lab File: VF061605.D

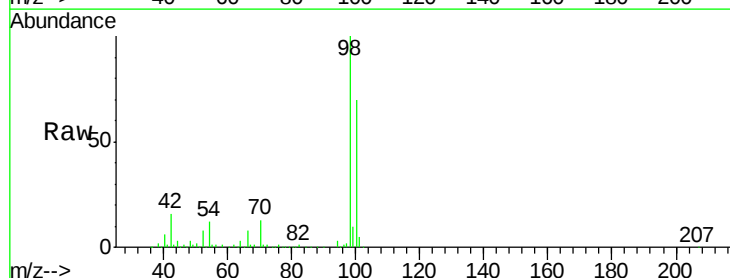
Acq: 12 Feb 2019 13:27

Tgt Ion: 98 Resp: 304427

Ion Ratio Lower Upper

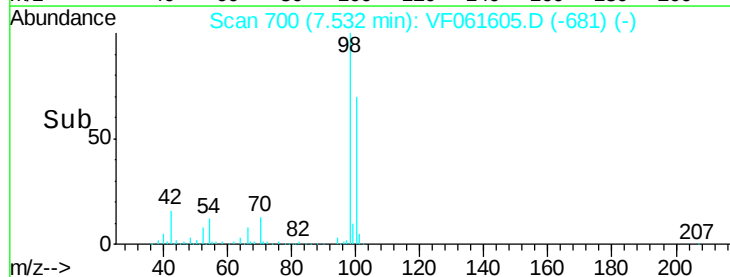
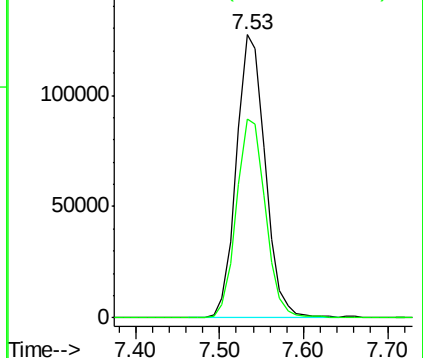
98 100

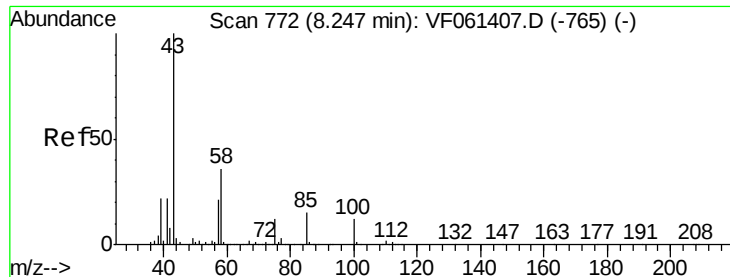
100 70.3 55.6 83.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 107.561 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.00 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Instrument :

MSVOA_F

ClientSampleId :

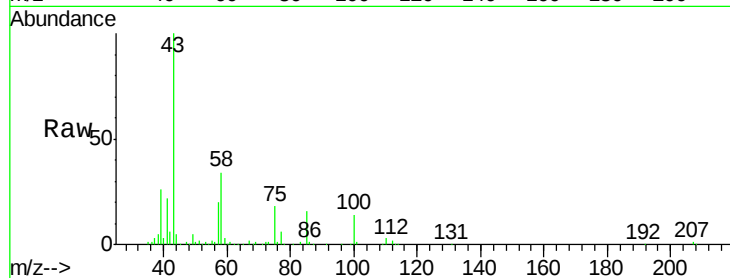
VF0212SBS01

Tot Ion: 43 Resp: 139250

Ion Ratio Lower Upper

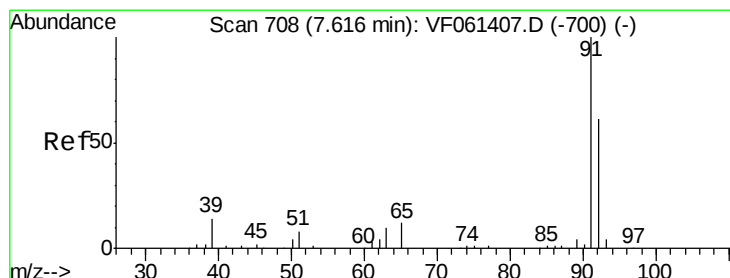
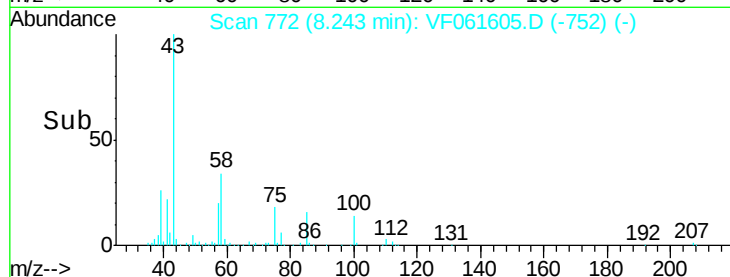
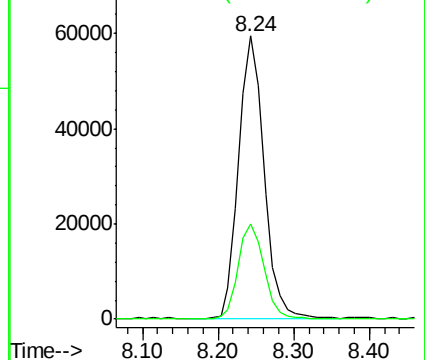
43 100

58 33.6 28.8 43.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 18.389 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.00 min

Lab File: VF061605.D

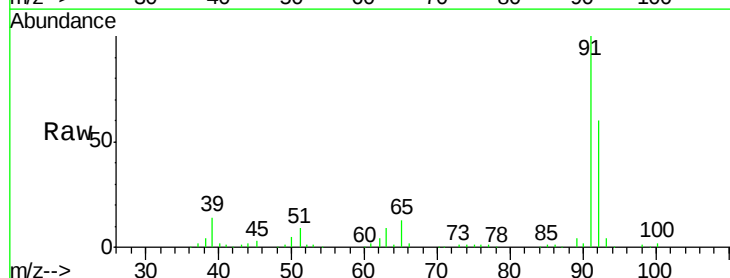
Acq: 12 Feb 2019 13:27

Tgt Ion: 92 Resp: 94587

Ion Ratio Lower Upper

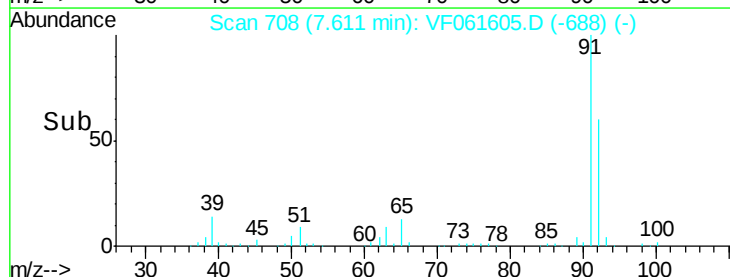
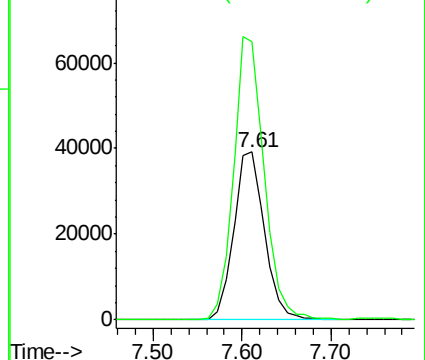
92 100

91 165.8 131.2 196.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 21.127 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.00 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Instrument :

MSVOA_F

ClientSampleId :

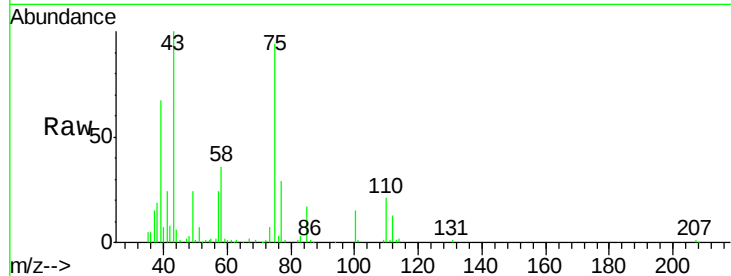
VF0212SBS01

Tot Ion: 75 Resp: 56577

Ion Ratio Lower Upper

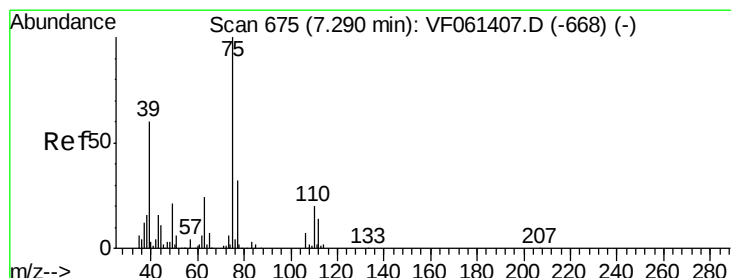
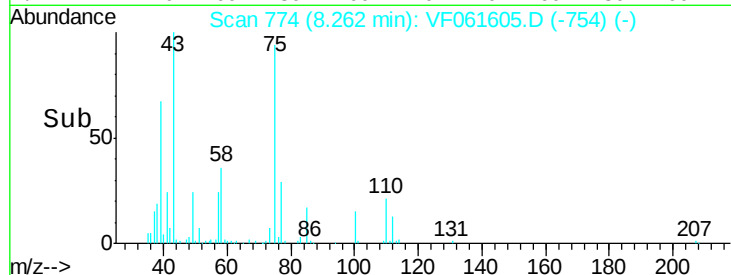
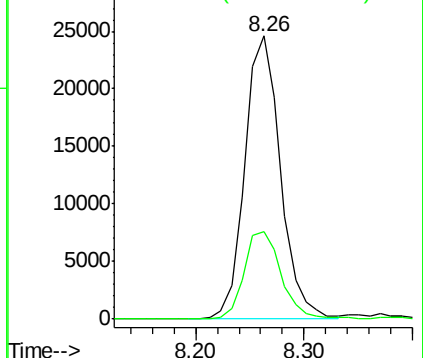
75 100

77 30.7 24.4 36.6



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 20.722 ug/l

RT: 7.29 min Scan# 675

Delta R.T. -0.00 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

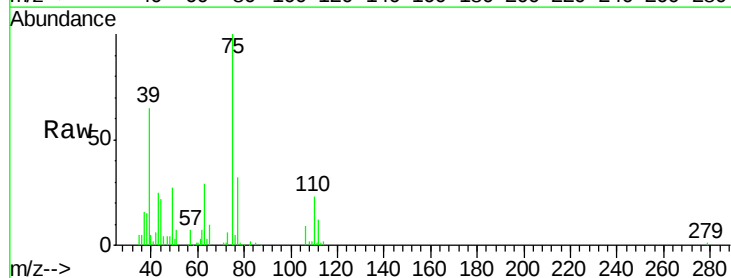
Tgt Ion: 75 Resp: 69364

Ion Ratio Lower Upper

75 100

77 31.8 25.4 38.0

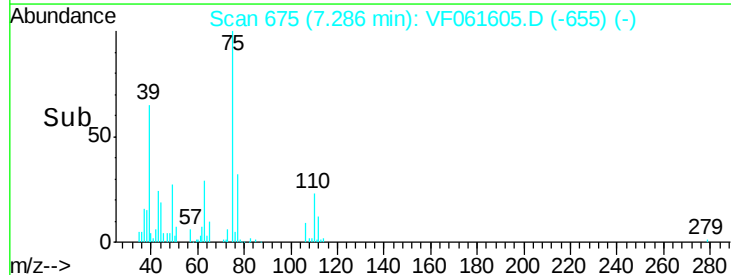
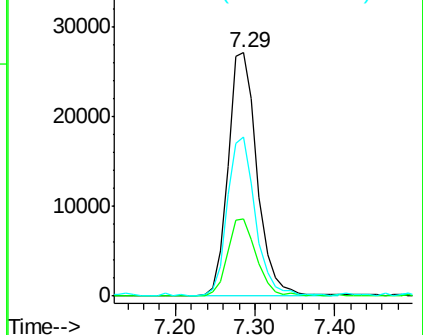
39 65.3 47.8 71.8

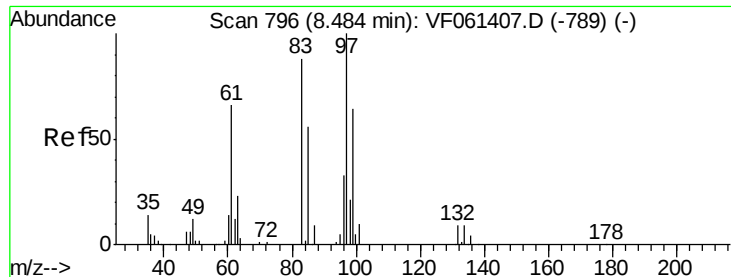


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 21.236 ug/l

RT: 8.48 min Scan# 796

Delta R.T. -0.00 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBS01

Tot Ion: 97 Resp: 31018

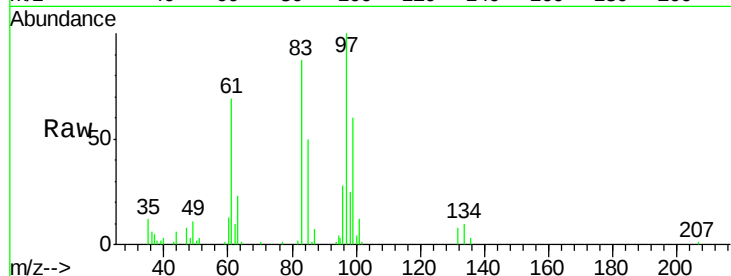
Ion Ratio Lower Upper

97 100

83 87.4 70.4 105.6

85 50.0 44.7 67.1

99 59.7 50.8 76.2

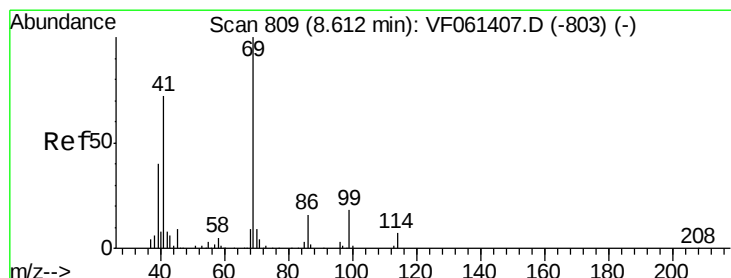
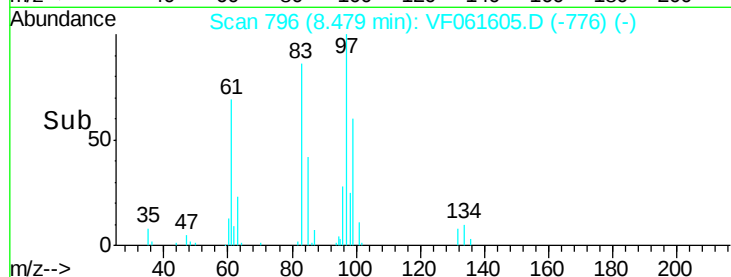
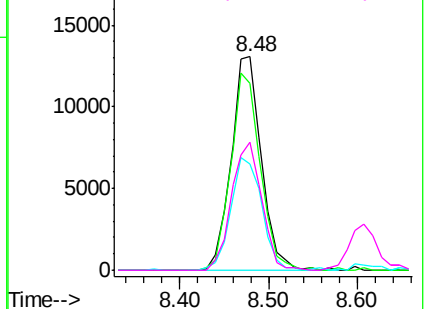


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 19.286 ug/l

RT: 8.60 min Scan# 808

Delta R.T. -0.01 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

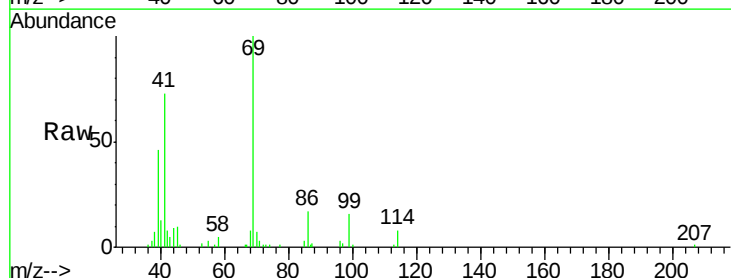
Tgt Ion: 69 Resp: 32774

Ion Ratio Lower Upper

69 100

41 73.4 57.5 86.3

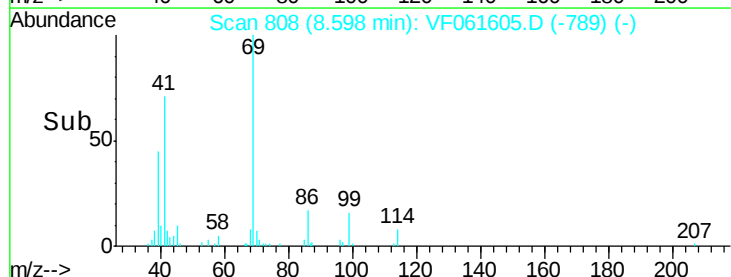
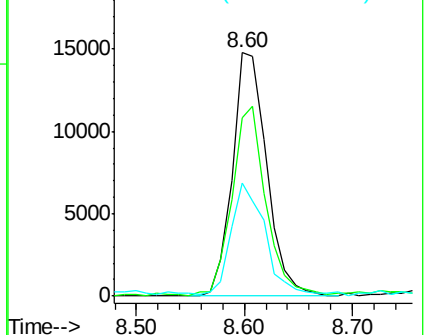
39 46.3 32.0 48.0

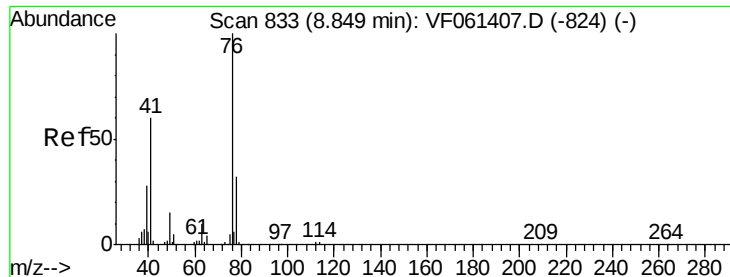


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 19.710 ug/l

RT: 8.83 min Scan# 832

Delta R.T. -0.01 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Instrument :

MSVOA_F

ClientSampleId :

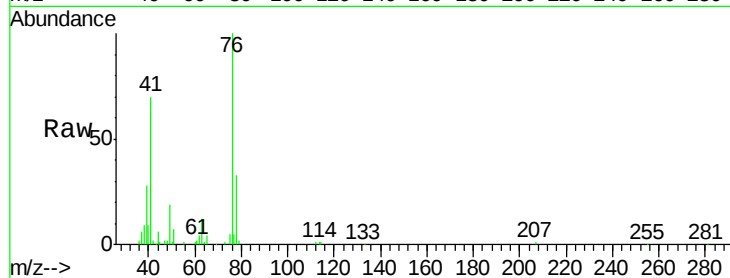
VF0212SBS01

Tot Ion: 76 Resp: 53960

Ion Ratio Lower Upper

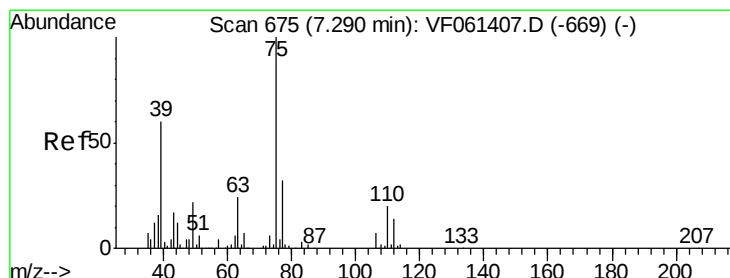
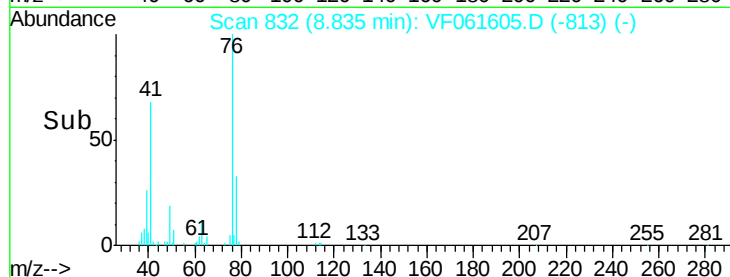
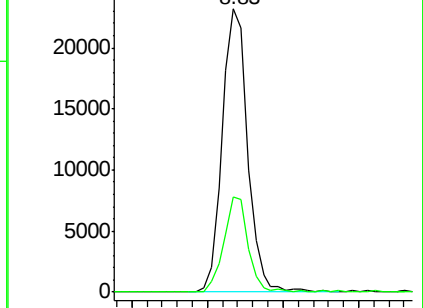
76 100

78 33.4 25.3 37.9



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 142.232 ug/l

RT: 7.28 min Scan# 674

Delta R.T. -0.01 min

Lab File: VF061605.D

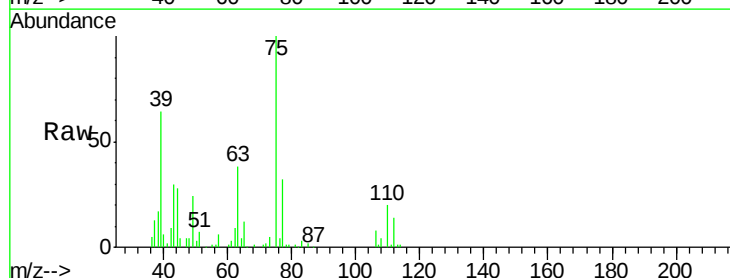
Acq: 12 Feb 2019 13:27

Tgt Ion: 63 Resp: 22970

Ion Ratio Lower Upper

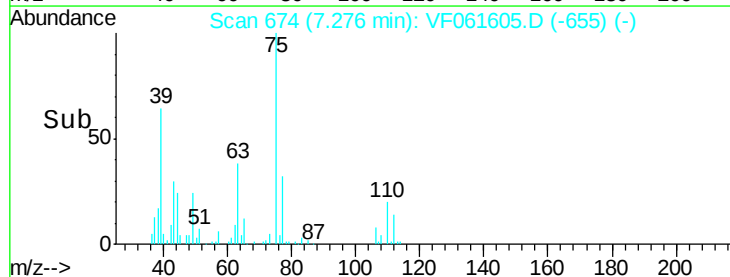
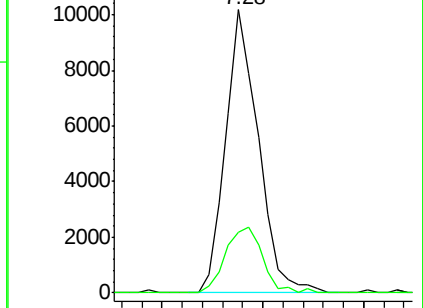
63 100

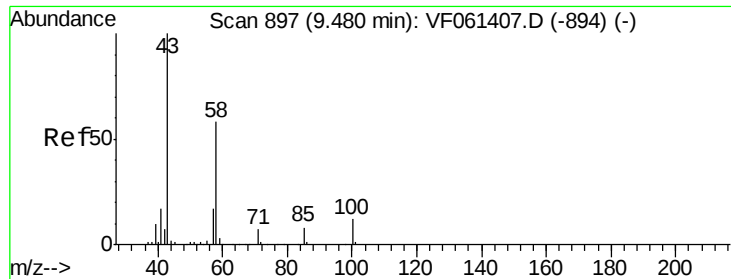
106 21.5 21.9 32.9#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

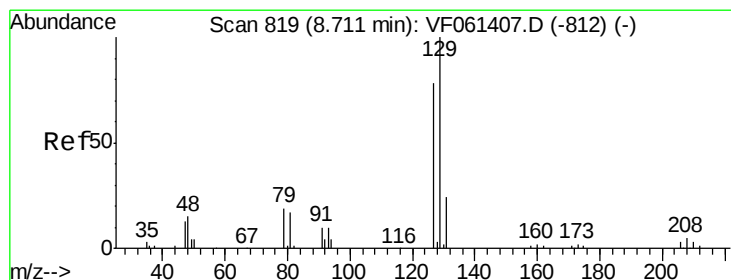
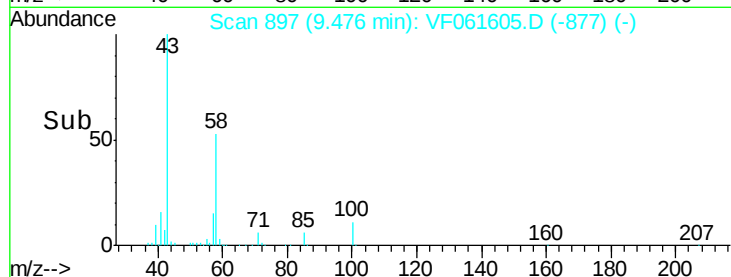
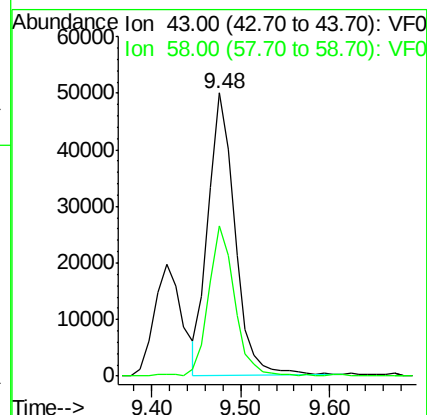
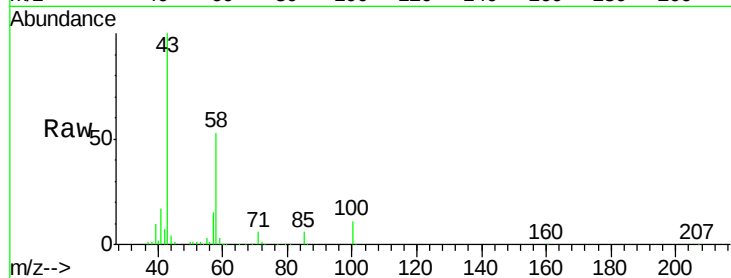




#59
2-Hexanone
Concen: 114.781 ug/l
RT: 9.48 min Scan# 897
Delta R.T. -0.00 min
Lab File: VF061605.D
Acq: 12 Feb 2019 13:27

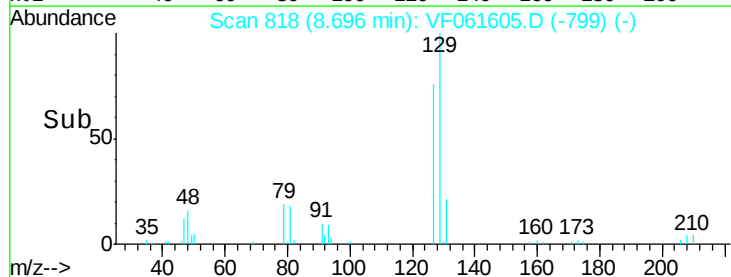
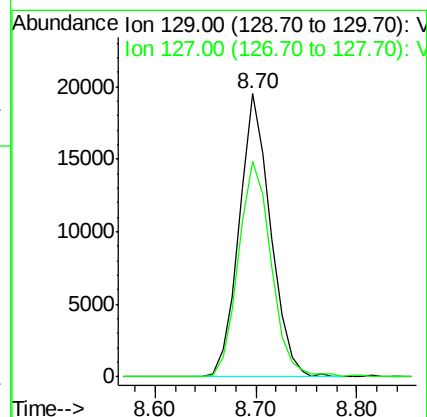
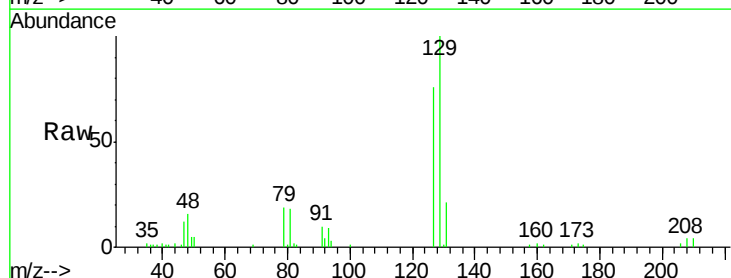
Instrument :
MSVOA_F
ClientSampleId :
VF0212SBS01

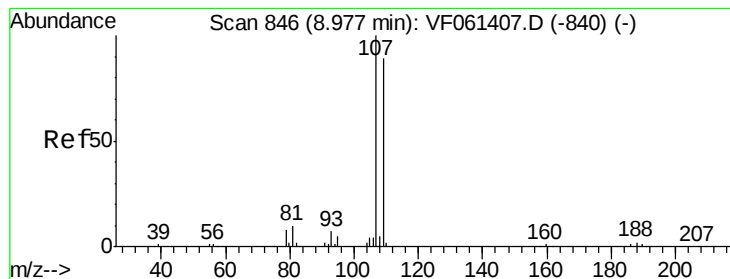
Tot Ion: 43 Resp: 103620
Ion Ratio Lower Upper
43 100
58 53.2 25.9 77.6



#60
Dibromochloromethane
Concen: 19.738 ug/l
RT: 8.70 min Scan# 818
Delta R.T. -0.01 min
Lab File: VF061605.D
Acq: 12 Feb 2019 13:27

Tgt Ion: 129 Resp: 42147
Ion Ratio Lower Upper
129 100
127 76.2 39.1 117.2





#61

1,2-Dibromoethane

Concen: 19.294 ug/l

RT: 8.97 min Scan# 846

Delta R.T. -0.00 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Instrument :

MSVOA_F

ClientSampleId :

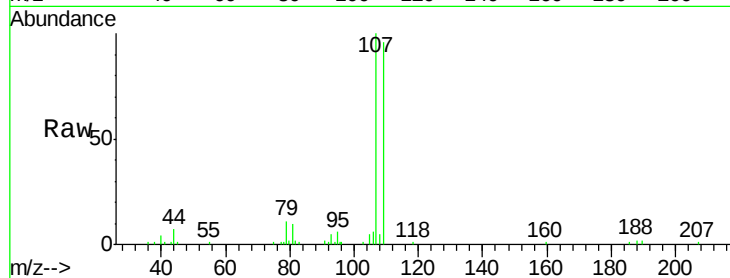
VF0212SBS01

Tot Ion:107 Resp: 32261

Ion Ratio Lower Upper

107 100

109 95.8 70.8 106.2



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

15000

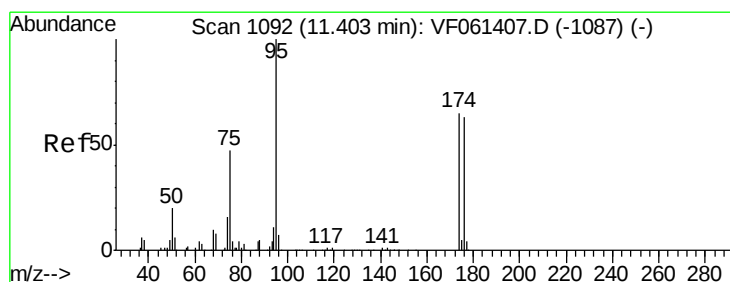
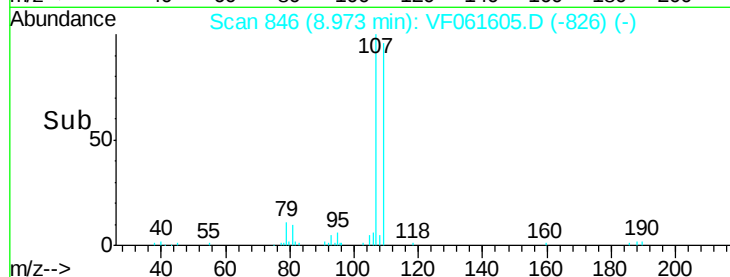
10000

5000

0

8.90 8.97 9.00 9.10

Time-->



#62

4-Bromofluorobenzene

Concen: 47.750 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.00 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

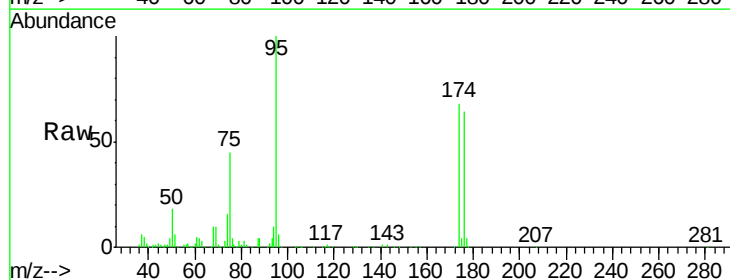
Tgt Ion: 95 Resp: 146022

Ion Ratio Lower Upper

95 100

174 68.5 0.0 130.4

176 63.8 0.0 126.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

120000

100000

80000

60000

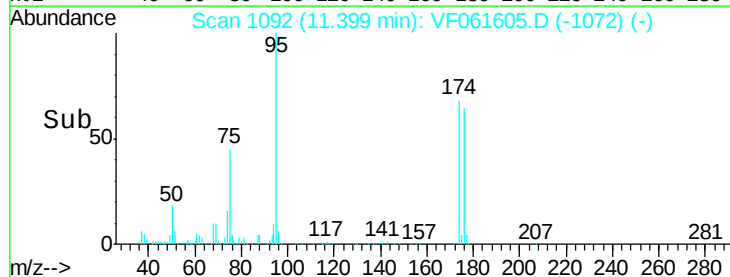
40000

20000

0

11.30 11.40 11.50

Time-->

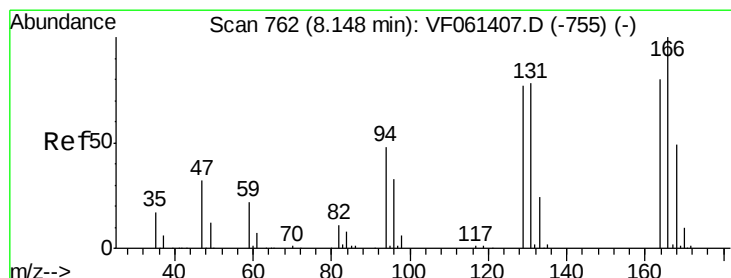
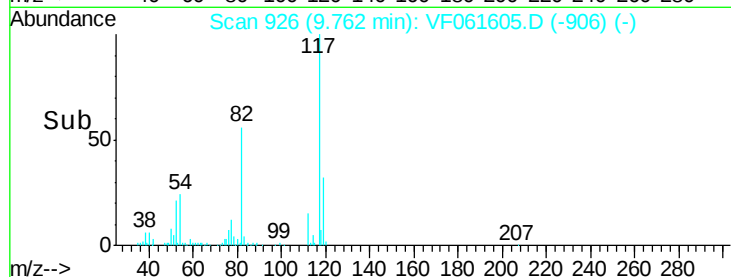
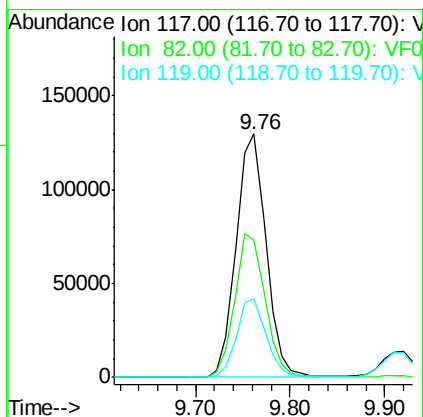
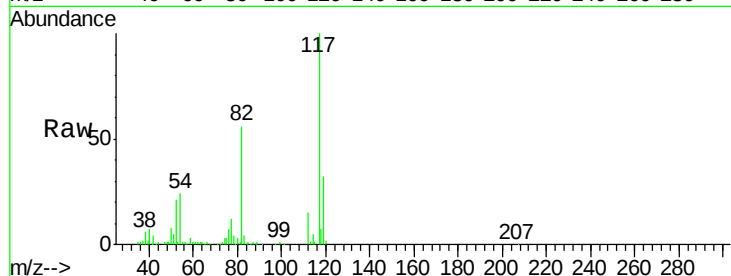




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.00 min
Lab File: VF061605.D
Acq: 12 Feb 2019 13:27

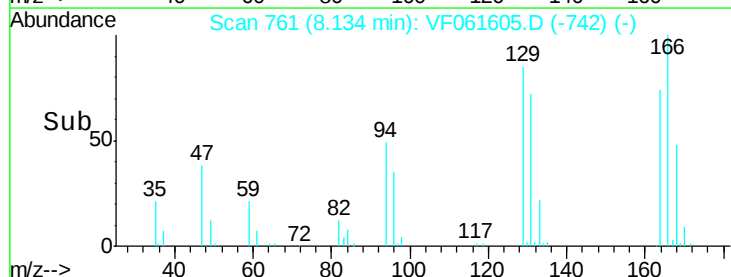
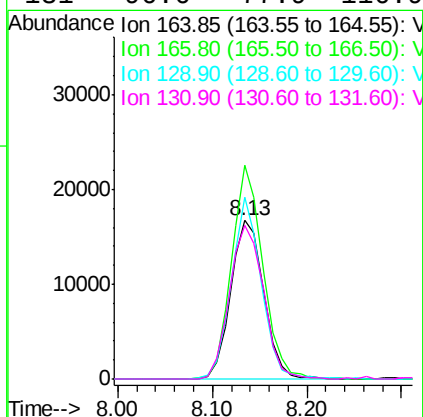
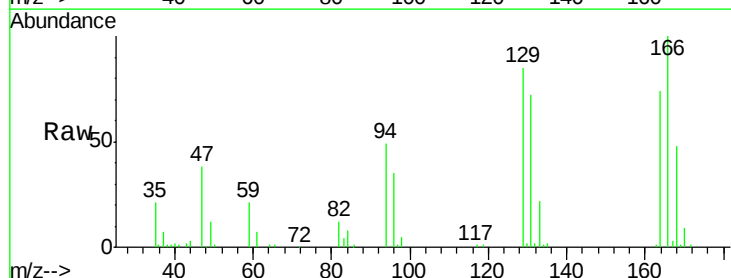
Instrument :
MSVOA_F
ClientSampleId :
VF0212SBS01

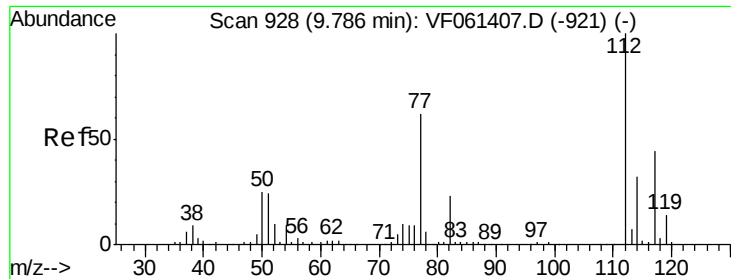
Tot Ion:117 Resp: 285948
Ion Ratio Lower Upper
117 100
82 56.2 46.4 69.6
119 32.3 27.2 40.8



#64
Tetrachloroethene
Concen: 18.748 ug/l
RT: 8.13 min Scan# 761
Delta R.T. -0.01 min
Lab File: VF061605.D
Acq: 12 Feb 2019 13:27

Tgt Ion:164 Resp: 40316
Ion Ratio Lower Upper
164 100
166 134.8 99.6 149.4
129 114.4 76.4 114.6
131 96.6 77.9 116.9

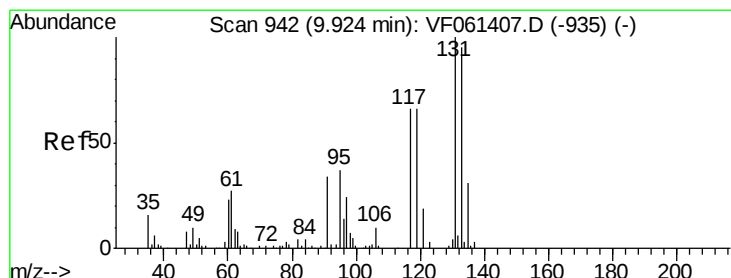
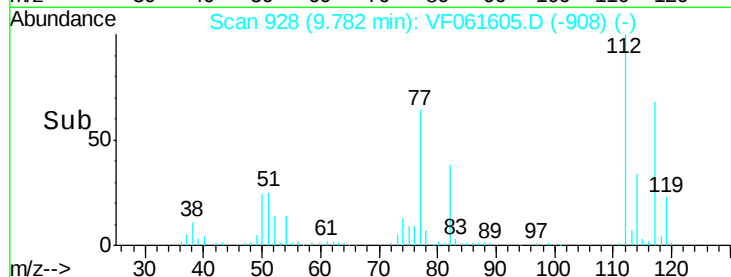
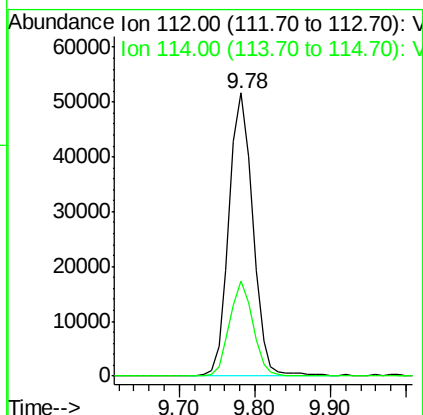
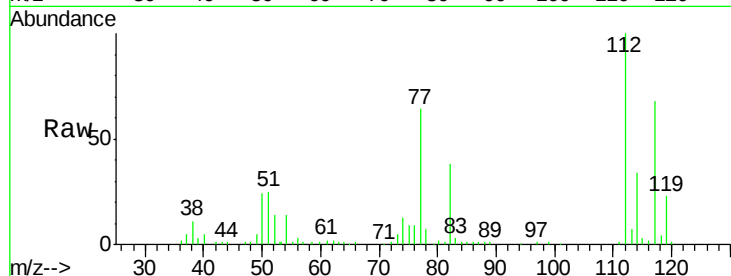




#65
Chlorobenzene
Concen: 19.545 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.00 min
Lab File: VF061605.D
Acq: 12 Feb 2019 13:27

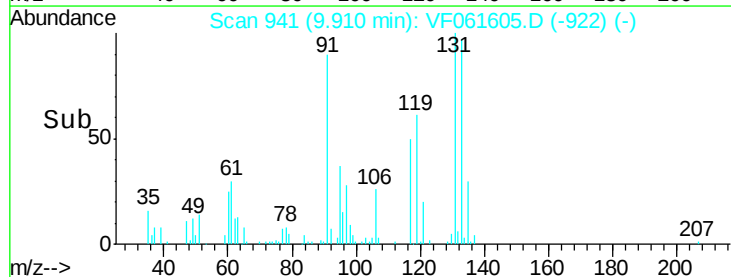
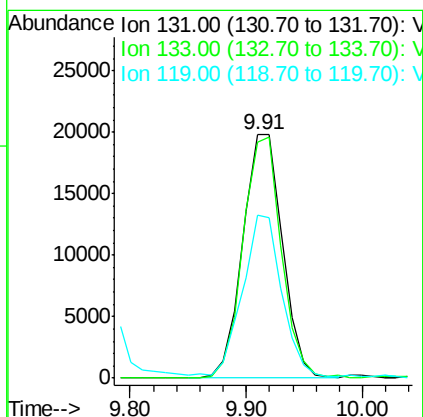
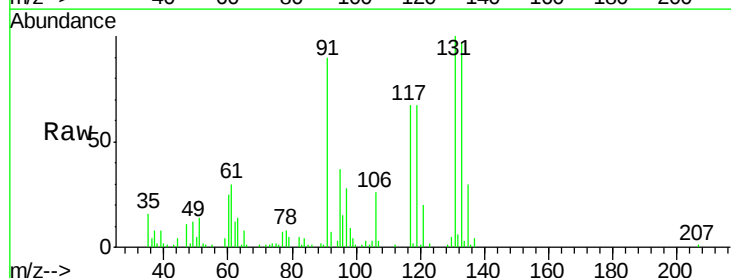
Instrument :
MSVOA_F
ClientSampleId :
VF0212SBS01

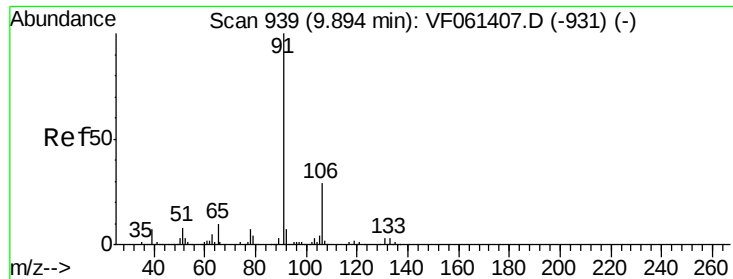
Tot Ion:112 Resp: 113653
Ion Ratio Lower Upper
112 100
114 33.7 25.4 38.0



#66
1,1,1,2-Tetrachloroethane
Concen: 20.187 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.01 min
Lab File: VF061605.D
Acq: 12 Feb 2019 13:27

Tgt Ion:131 Resp: 46763
Ion Ratio Lower Upper
131 100
133 96.8 47.4 142.2
119 66.9 33.1 99.3





#67

Ethyl Benzene

Concen: 19.082 ug/l

RT: 9.88 min Scan# 938

Delta R.T. -0.01 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Instrument :

MSVOA_F

ClientSampleId :

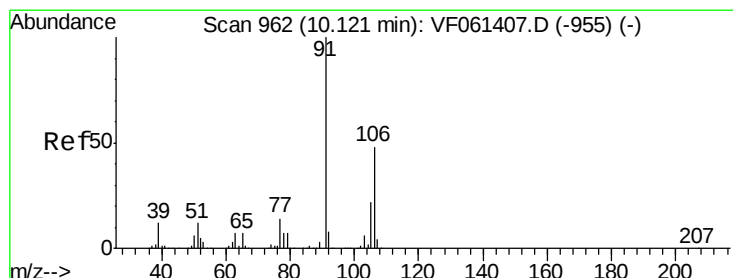
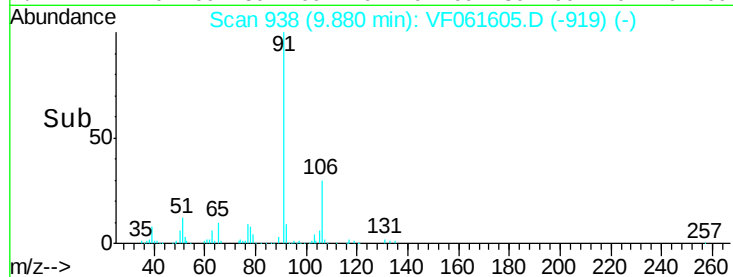
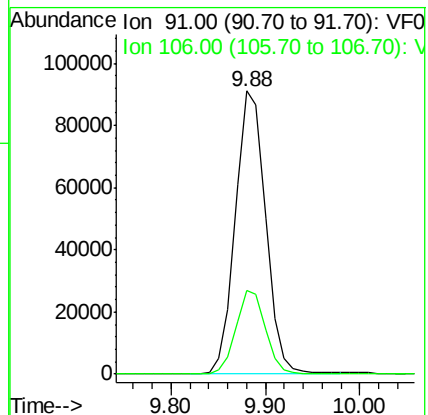
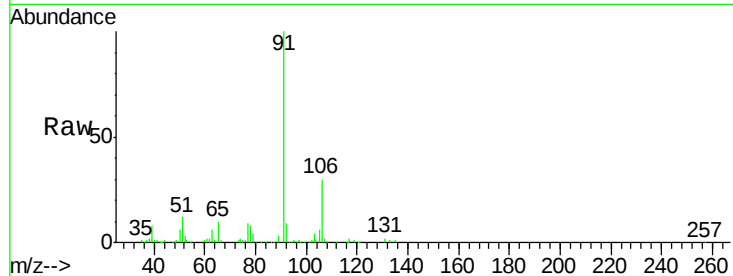
VF0212SBS01

Tot Ion: 91 Resp: 202728

Ion Ratio Lower Upper

91 100

106 29.6 23.1 34.7



#68

m/p-Xylenes

Concen: 37.983 ug/l

RT: 10.12 min Scan# 962

Delta R.T. -0.00 min

Lab File: VF061605.D

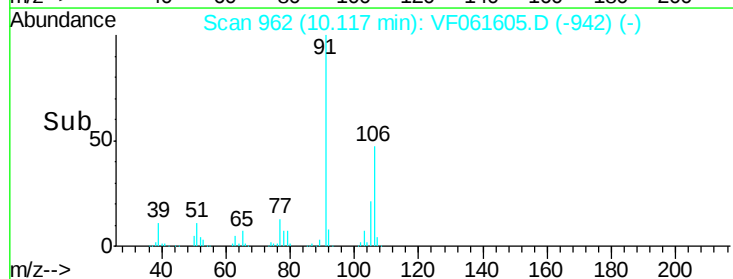
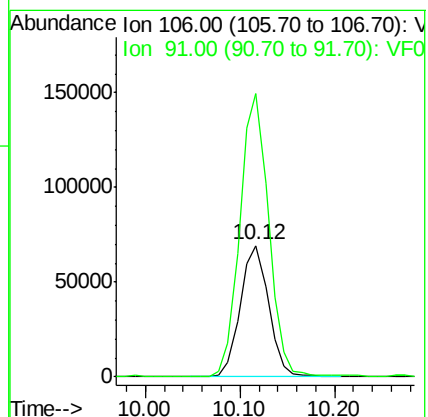
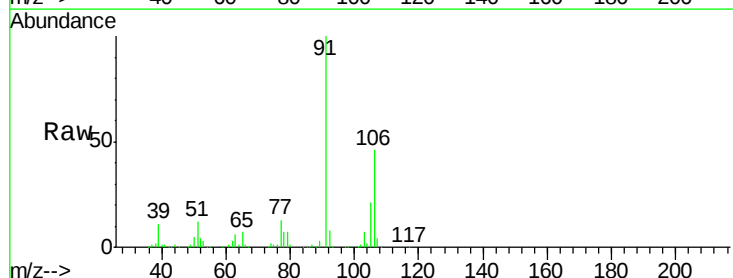
Acq: 12 Feb 2019 13:27

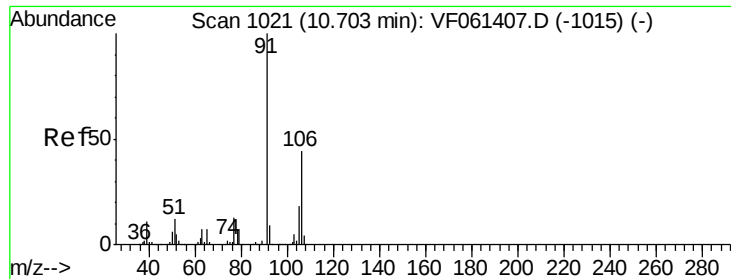
Tgt Ion: 106 Resp: 145141

Ion Ratio Lower Upper

106 100

91 215.3 166.2 249.4

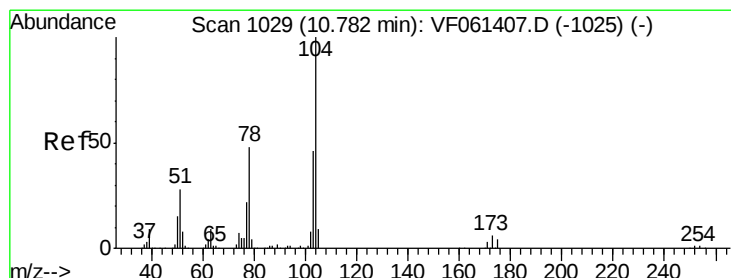
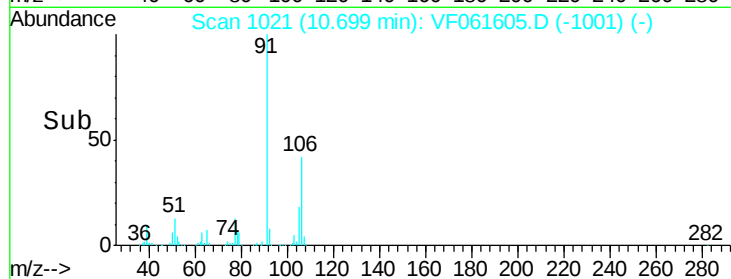
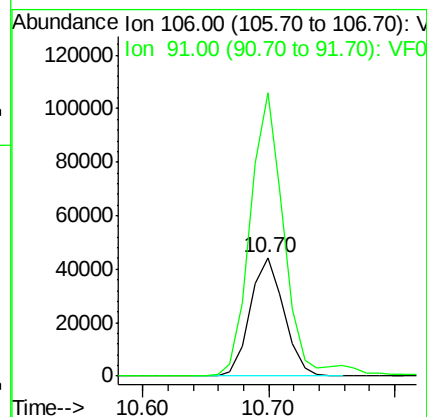
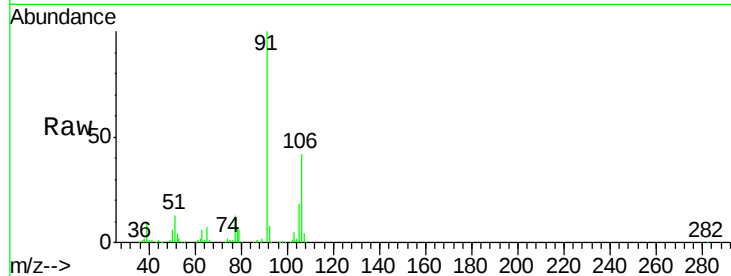




#69
o-Xylene
Concen: 19.955 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.00 min
Lab File: VF061605.D
Acq: 12 Feb 2019 13:27

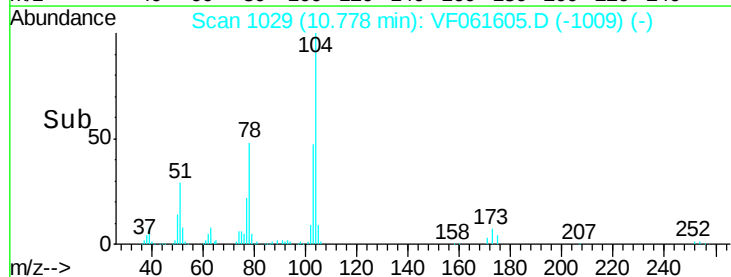
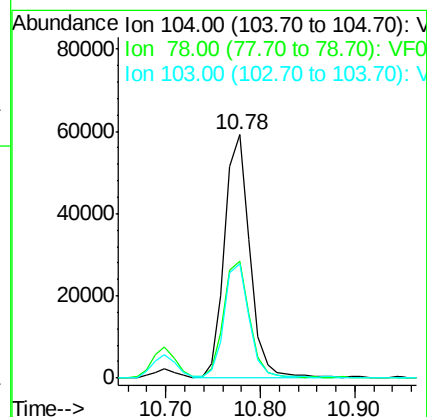
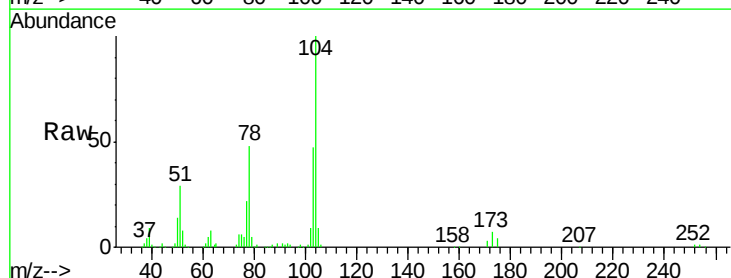
Instrument :
MSVOA_F
ClientSampleId :
VF0212SBS01

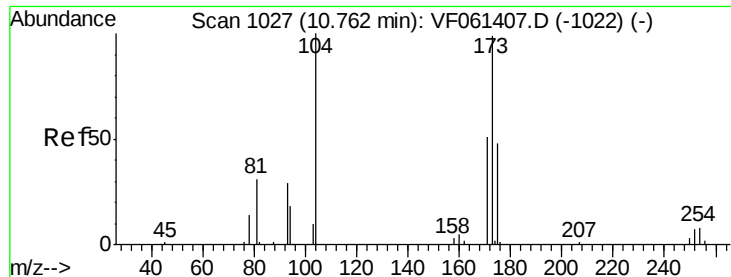
Tot Ion:106 Resp: 82644
Ion Ratio Lower Upper
106 100
91 238.1 113.3 339.8



#70
Styrene
Concen: 19.306 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. -0.00 min
Lab File: VF061605.D
Acq: 12 Feb 2019 13:27

Tgt Ion:104 Resp: 109444
Ion Ratio Lower Upper
104 100
78 47.8 38.8 58.2
103 46.8 37.0 55.6





#71

Bromoform

Concen: 21.386 ug/l

RT: 10.76 min Scan# 1027

Delta R.T. -0.00 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBS01

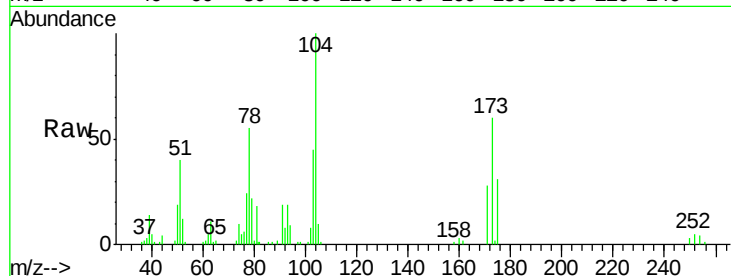
Tot Ion:173 Resp: 22259

Ion Ratio Lower Upper

173 100

175 51.6 24.1 72.4

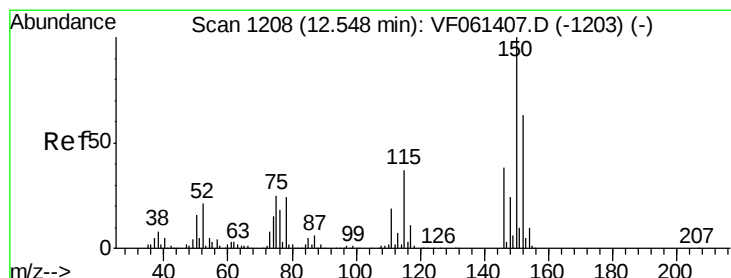
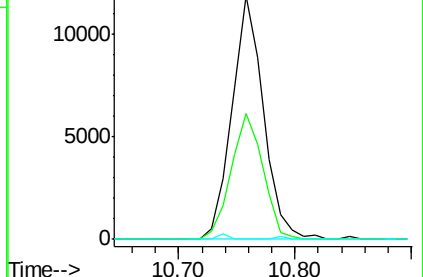
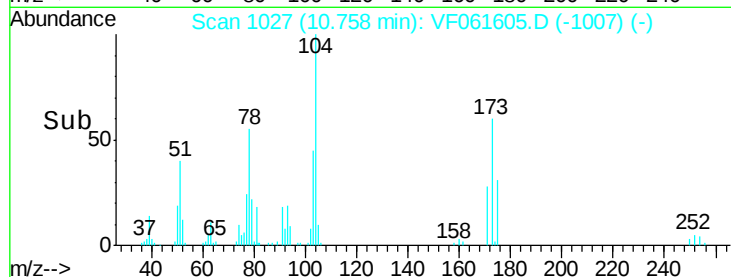
254 0.0 0.0 0.0



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.00 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

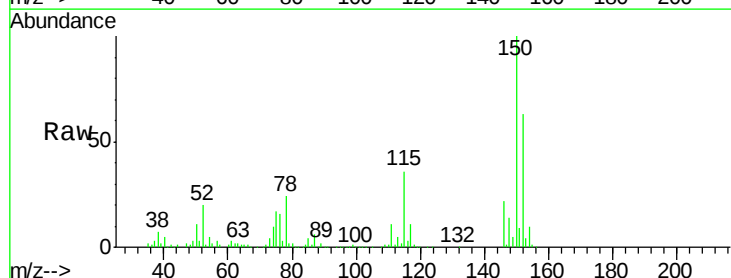
Tgt Ion:152 Resp: 153504

Ion Ratio Lower Upper

152 100

115 58.0 30.0 90.0

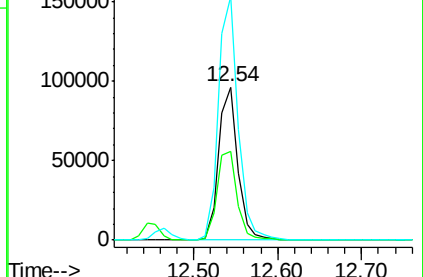
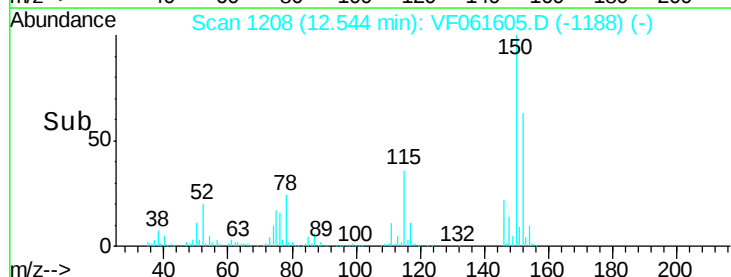
150 159.2 0.0 321.4

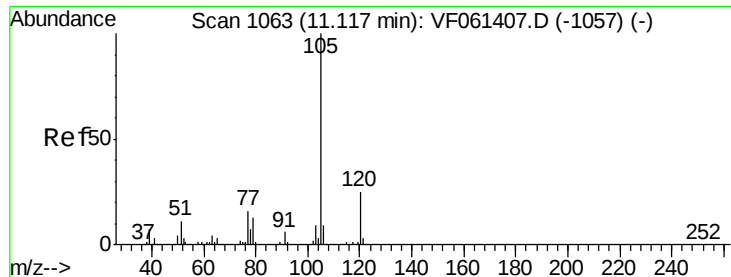


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 19.699 ug/l

RT: 11.11 min Scan# 1063

Delta R.T. -0.00 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Instrument :

MSVOA_F

ClientSampleId :

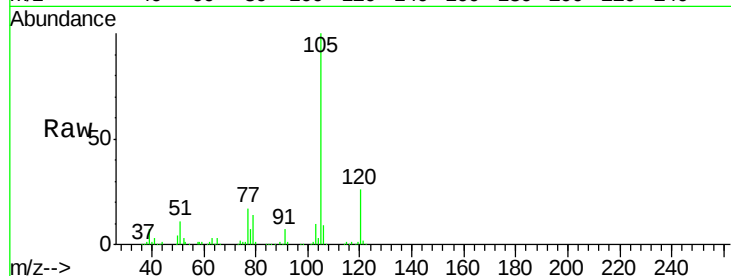
VF0212SBS01

Tot Ion:105 Resp: 245932

Ion Ratio Lower Upper

105 100

120 26.1 12.6 37.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.11

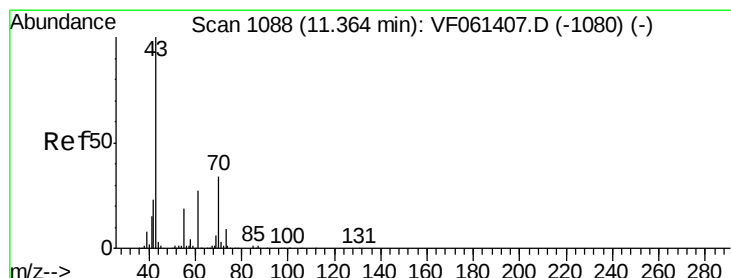
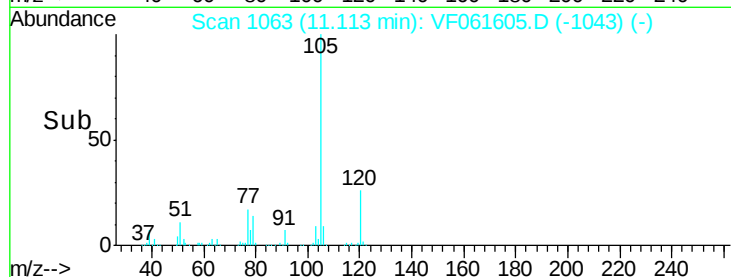
150000

100000

50000

0

Time--> 11.00 11.10 11.20



#74

N-ethyl acetate

Concen: 20.833 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.00 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Tgt Ion: 43 Resp: 61503

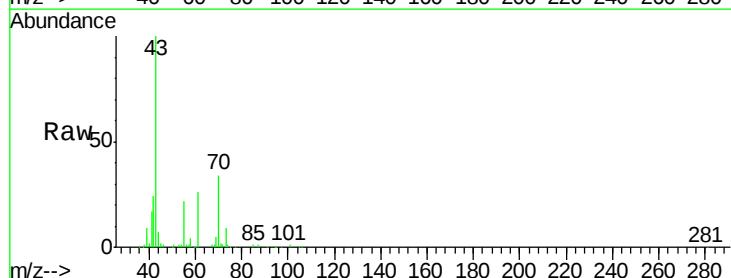
Ion Ratio Lower Upper

43 100

70 33.6 27.6 41.4

55 22.2 15.4 23.2

61 25.5 21.8 32.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

11.36

60000

50000

40000

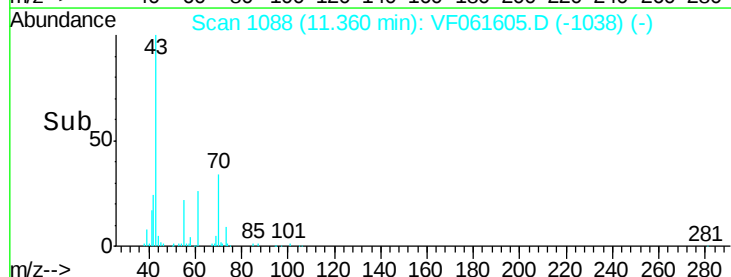
30000

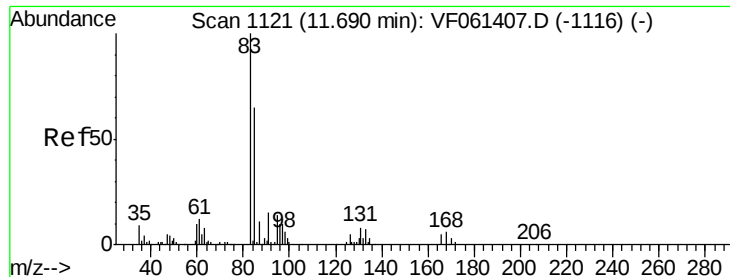
20000

10000

0

Time--> 11.20 11.30 11.40 11.50





#75

1,1,2,2-Tetrachloroethane

Concen: 19.375 ug/l

RT: 11.69 min Scan# 1121

Delta R.T. -0.00 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBS01

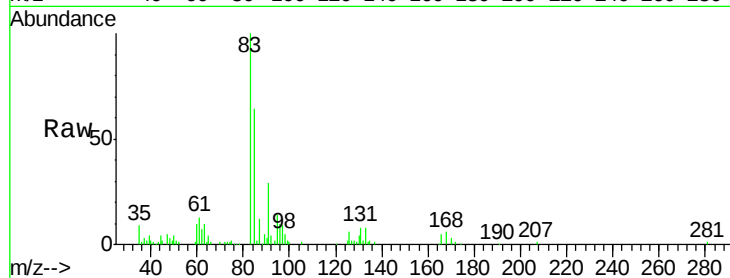
Tot Ion: 83 Resp: 43092

Ion Ratio Lower Upper

83 100

131 8.5 4.0 12.2

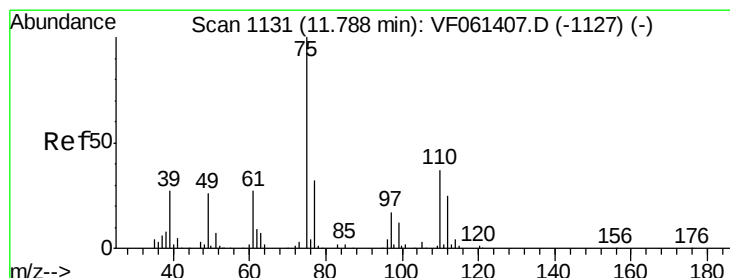
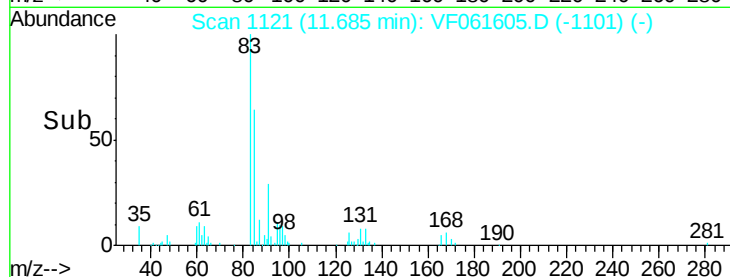
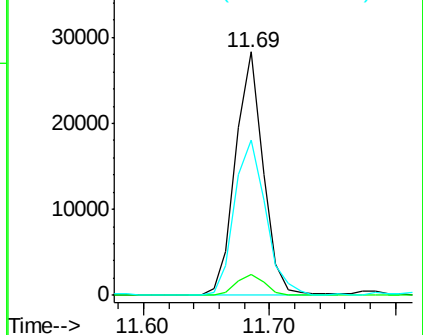
85 63.6 32.7 98.1



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 19.744 ug/l

RT: 11.78 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VF061605.D

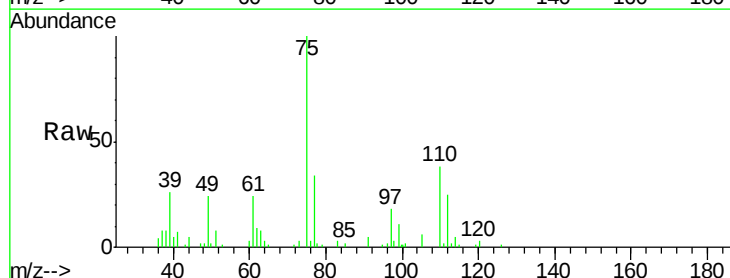
Acq: 12 Feb 2019 13:27

Tgt Ion: 75 Resp: 31554

Ion Ratio Lower Upper

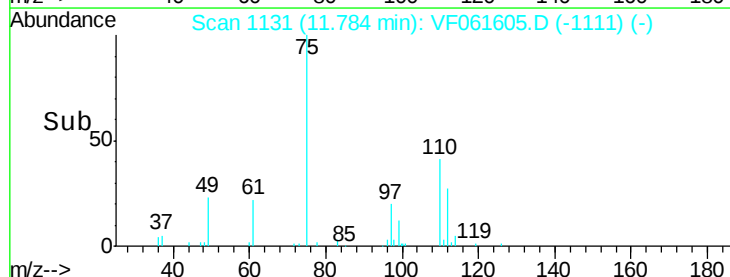
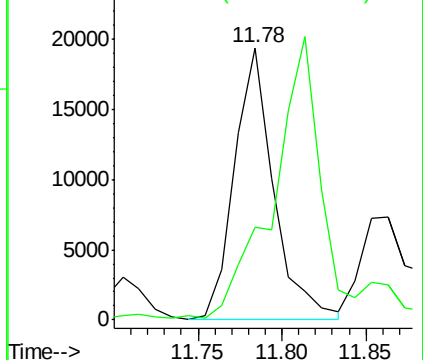
75 100

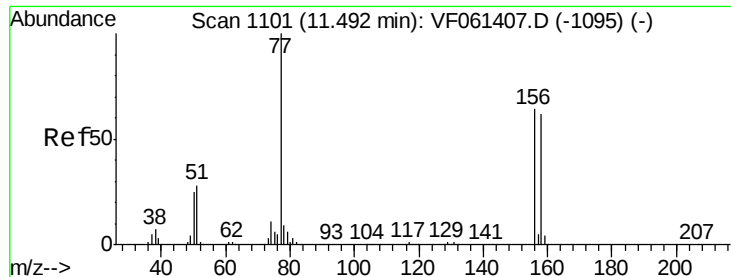
77 33.9 16.1 48.3



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 19.885 ug/l

RT: 11.48 min Scan# 1100

Delta R.T. -0.01 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBS01

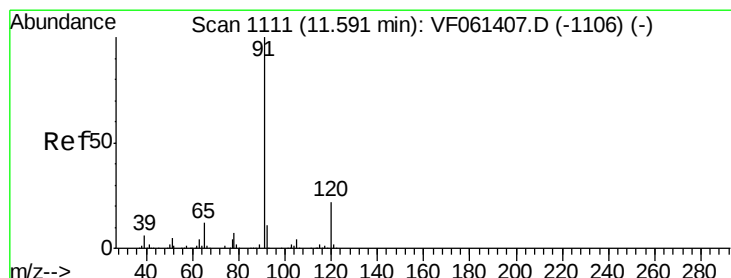
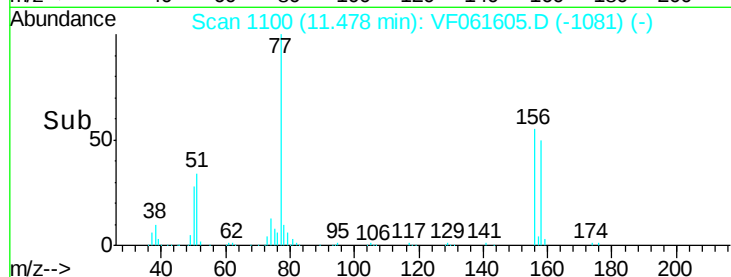
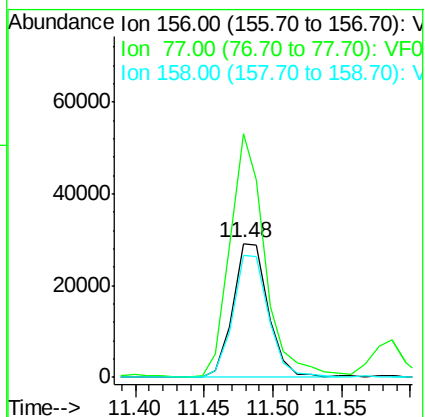
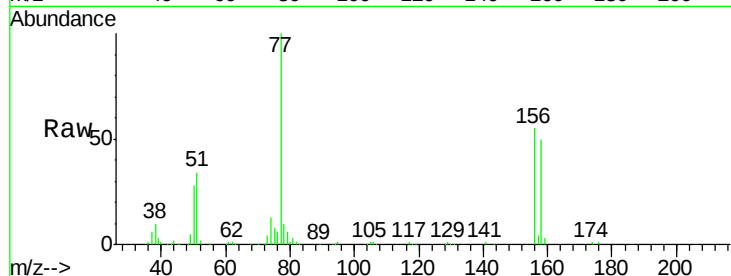
Tot Ion:156 Resp: 52430

Ion Ratio Lower Upper

156 100

77 181.5 78.3 234.9

158 90.8 48.9 146.7



#78

n-propylbenzene

Concen: 18.005 ug/l

RT: 11.59 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VF061605.D

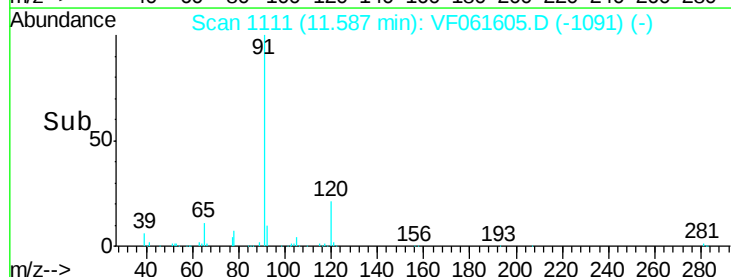
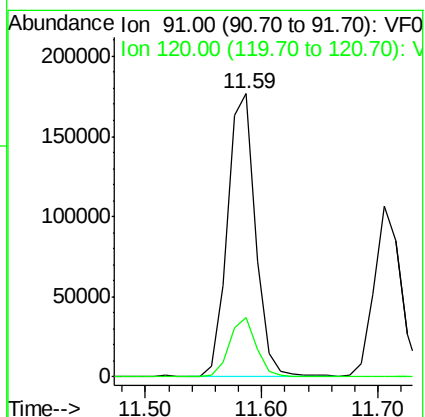
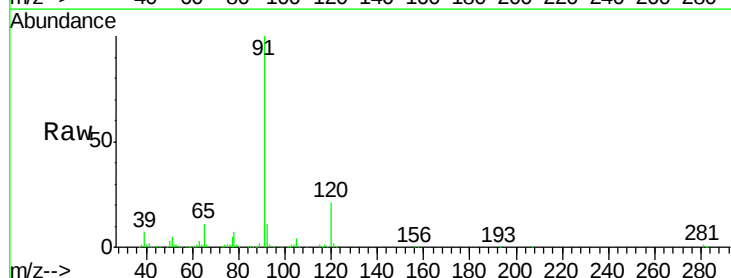
Acq: 12 Feb 2019 13:27

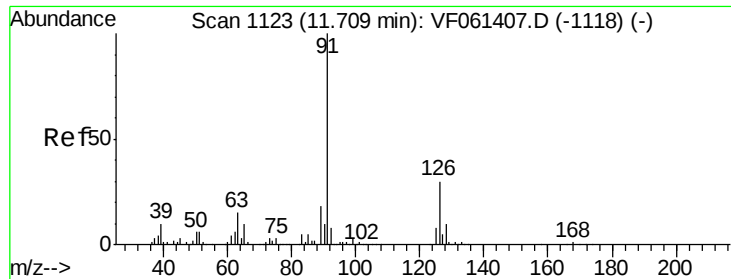
Tgt Ion: 91 Resp: 293923

Ion Ratio Lower Upper

91 100

120 20.8 10.9 32.6





#79

2-Chlorotoluene

Concen: 19.377 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Instrument :

MSVOA_F

ClientSampleId :

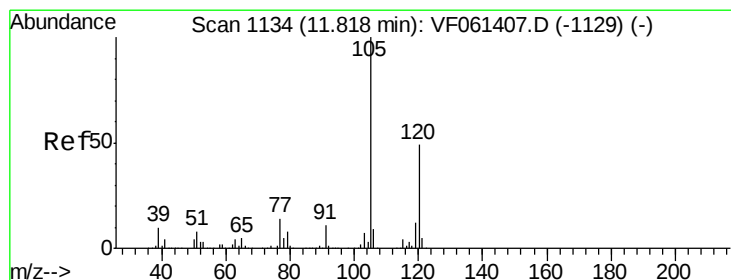
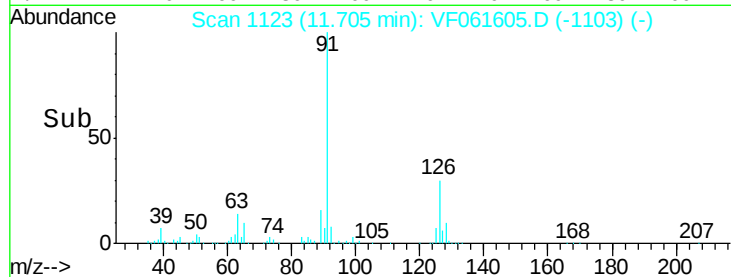
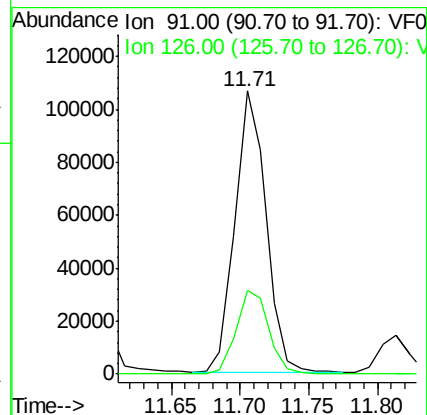
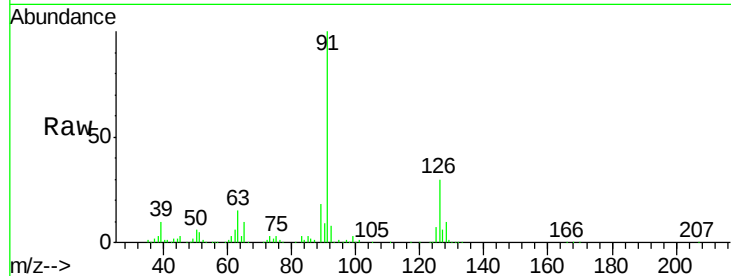
VF0212SBS01

Tot Ion: 91 Resp: 167855

Ion Ratio Lower Upper

91 100

126 29.7 15.0 45.1



#80

1,3,5-Trimethylbenzene

Concen: 20.574 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.00 min

Lab File: VF061605.D

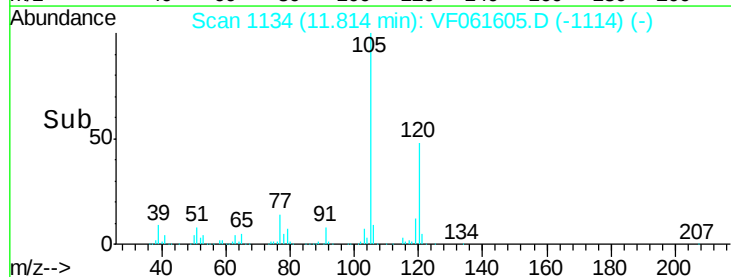
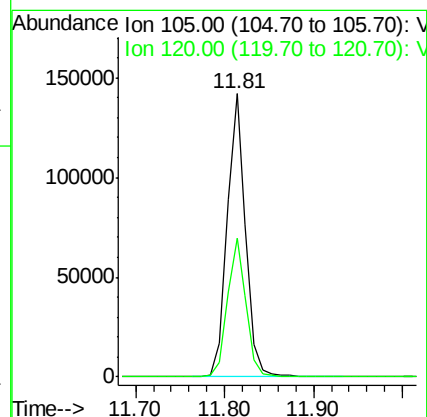
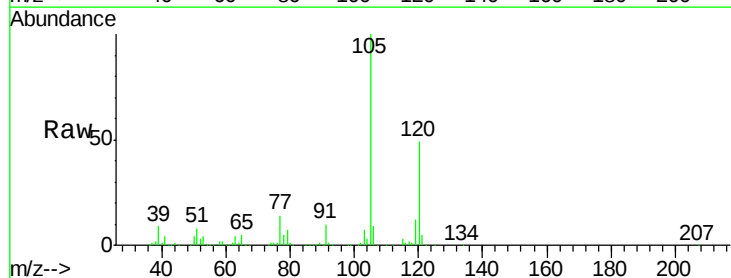
Acq: 12 Feb 2019 13:27

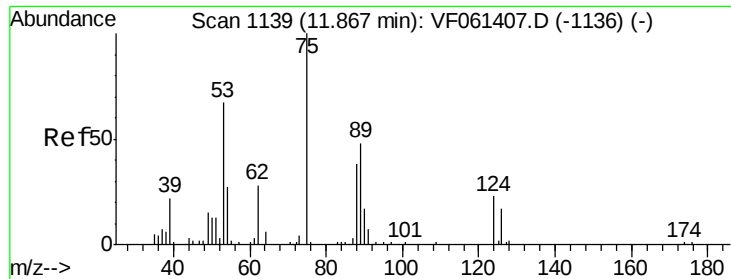
Tgt Ion:105 Resp: 207292

Ion Ratio Lower Upper

105 100

120 49.0 24.7 74.1





#81

trans-1,4-Dichloro-2-butene

Concen: 20.933 ug/l m

RT: 11.86 min Scan# 1139

Delta R.T. -0.00 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBS01

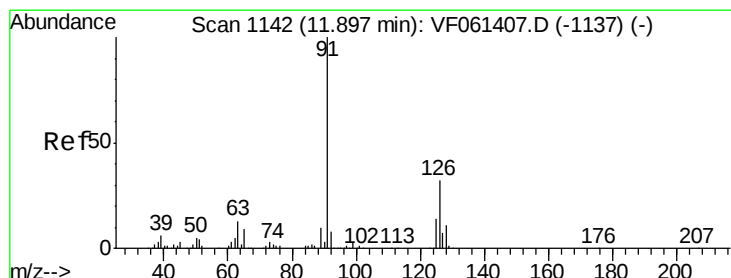
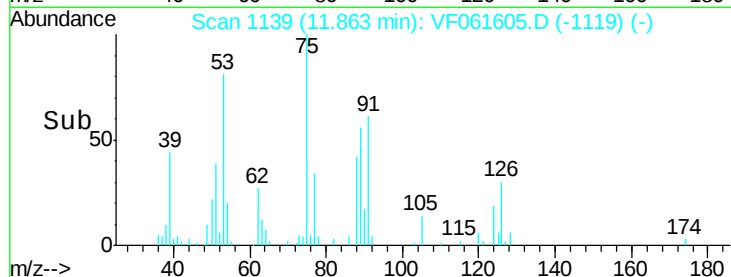
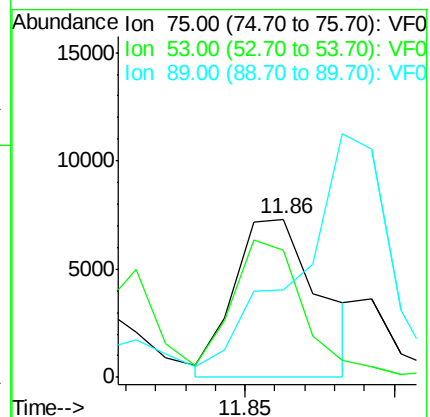
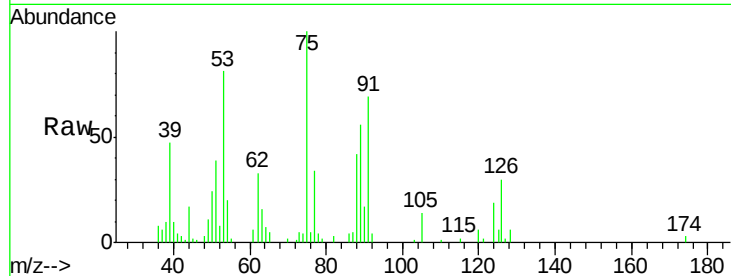
Tot Ion: 75 Resp: 14543

Ion Ratio Lower Upper

75 100

53 80.5 57.8 86.6

89 55.5 40.7 61.1



#82

4-Chlorotoluene

Concen: 19.898 ug/l

RT: 11.88 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VF061605.D

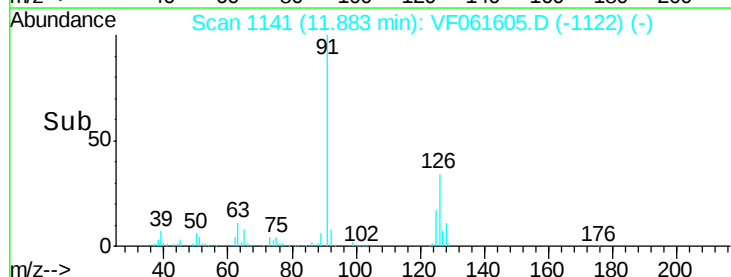
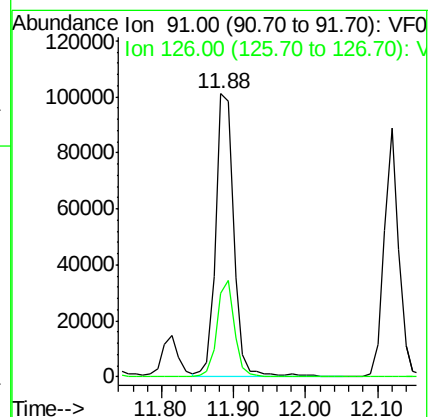
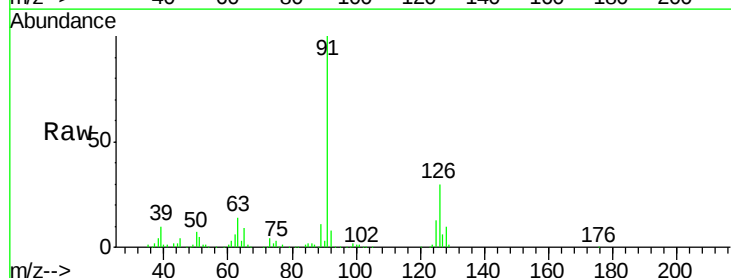
Acq: 12 Feb 2019 13:27

Tgt Ion: 91 Resp: 173929

Ion Ratio Lower Upper

91 100

126 29.7 16.0 47.9

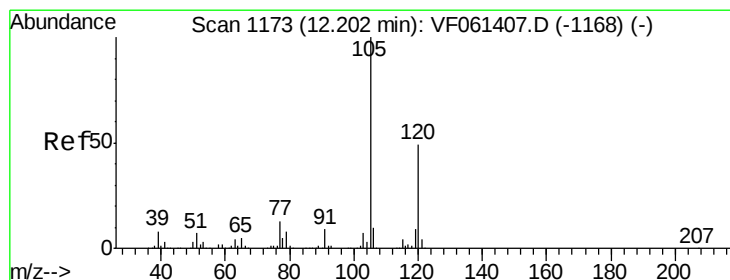
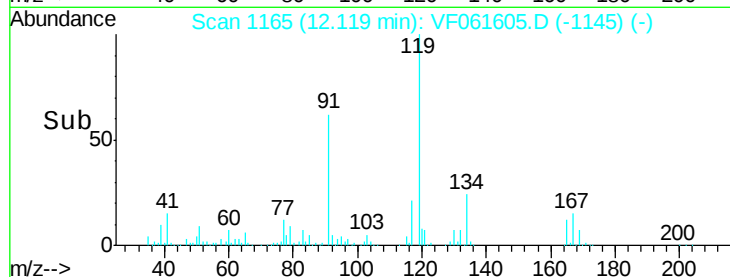
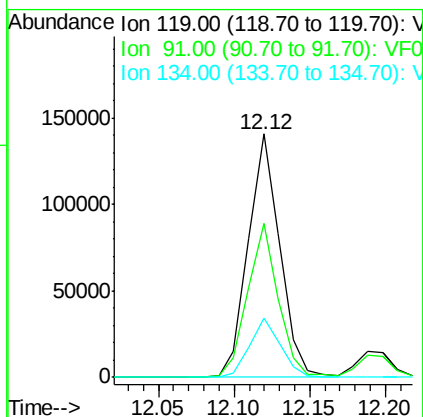
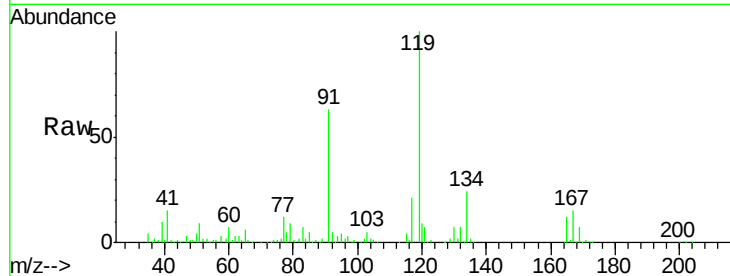




#83
tert-Butylbenzene
Concen: 19.820 ug/l
RT: 12.12 min Scan# 1165
Delta R.T. -0.00 min
Lab File: VF061605.D
Acq: 12 Feb 2019 13:27

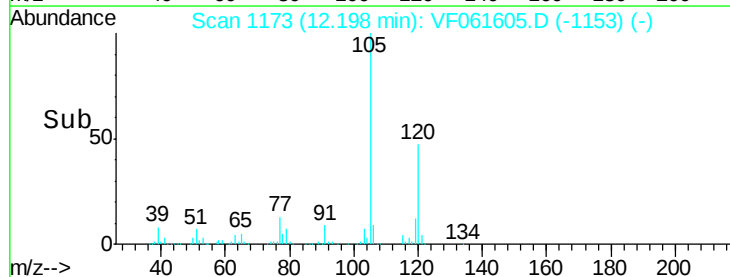
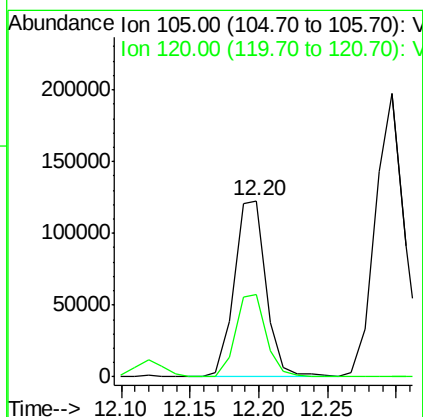
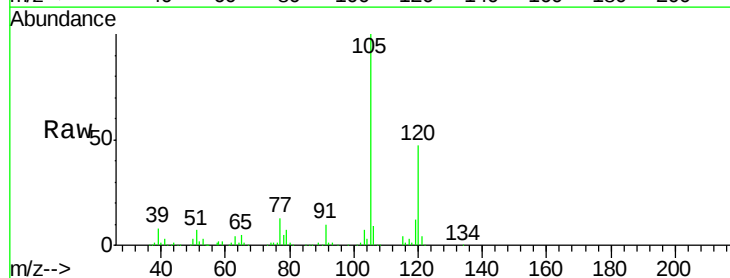
Instrument :
MSVOA_F
ClientSampleId :
VF0212SBS01

Tot Ion:119 Resp: 206690
Ion Ratio Lower Upper
119 100
91 63.3 31.3 93.8
134 24.3 12.4 37.0



#84
1,2,4-Trimethylbenzene
Concen: 19.110 ug/l
RT: 12.20 min Scan# 1173
Delta R.T. -0.00 min
Lab File: VF061605.D
Acq: 12 Feb 2019 13:27

Tgt Ion:105 Resp: 198328
Ion Ratio Lower Upper
105 100
120 46.8 24.9 74.6





#85

sec-Butylbenzene

Concen: 20.574 ug/l

RT: 12.30 min Scan# 1183

Delta R.T. -0.00 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Instrument :

MSVOA_F

ClientSampleId :

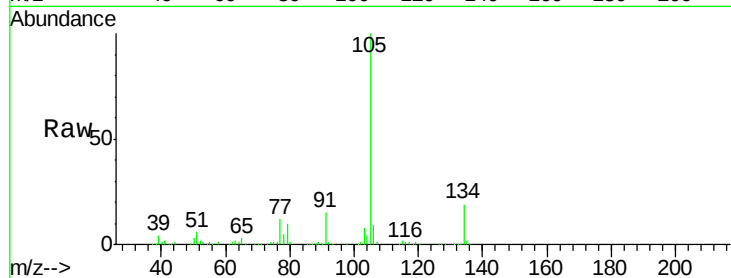
VF0212SBS01

Tot Ion:105 Resp: 291363

Ion Ratio Lower Upper

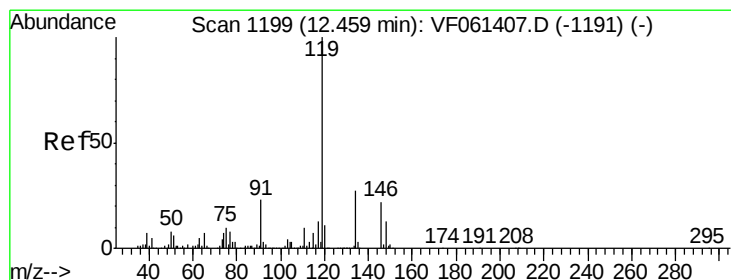
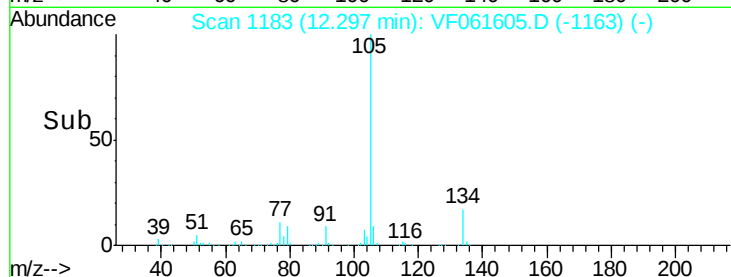
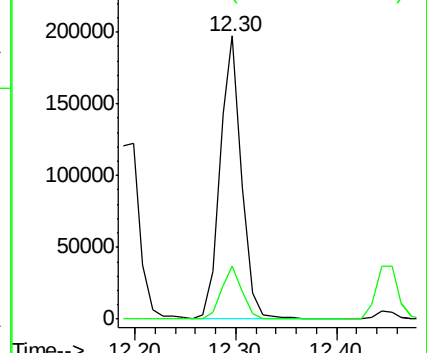
105 100

134 18.6 10.0 30.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 20.859 ug/l

RT: 12.44 min Scan# 1198

Delta R.T. -0.01 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

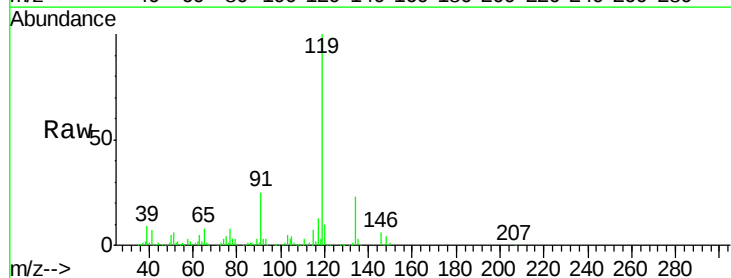
Tgt Ion:119 Resp: 242497

Ion Ratio Lower Upper

119 100

134 23.4 13.4 40.2

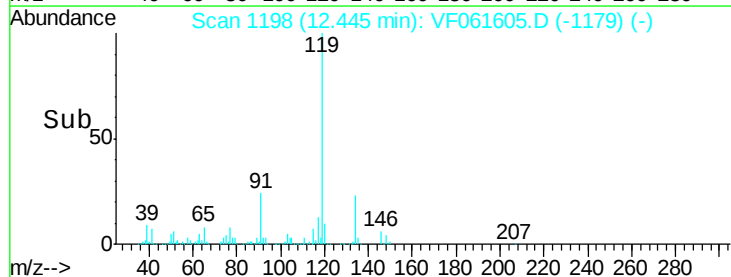
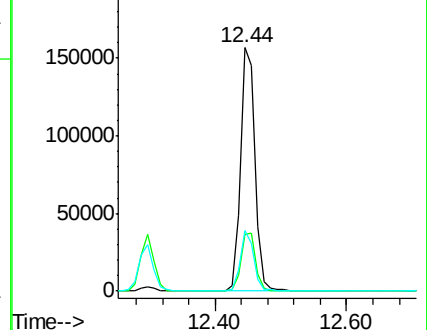
91 24.7 11.4 34.2



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 19.139 ug/l

RT: 12.46 min Scan# 1200

Delta R.T. -0.00 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBS01

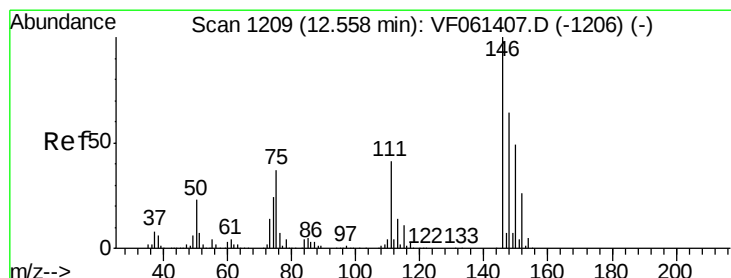
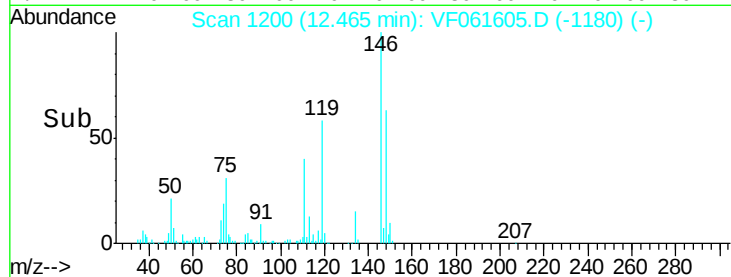
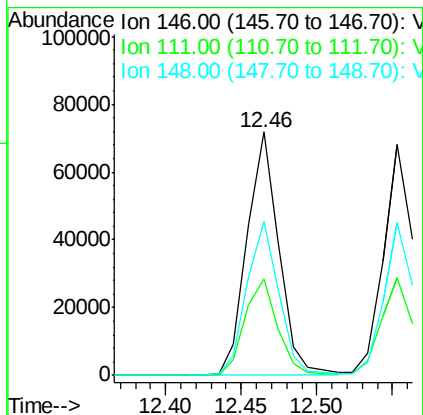
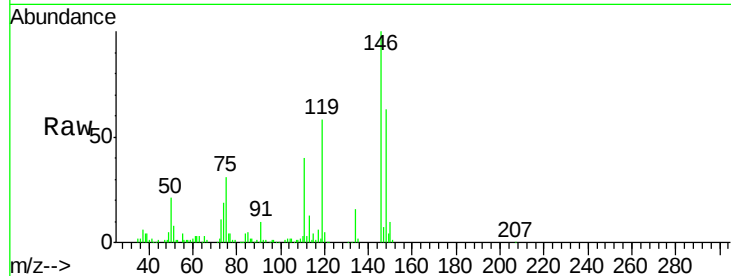
Tot Ion:146 Resp: 106128

Ion Ratio Lower Upper

146 100

111 39.5 21.1 63.4

148 63.4 32.9 98.6



#88

1,4-Dichlorobenzene

Concen: 19.757 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. -0.00 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

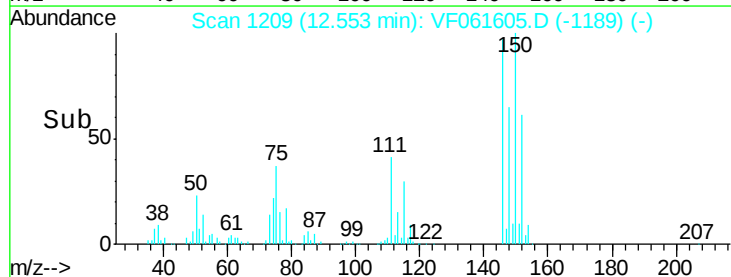
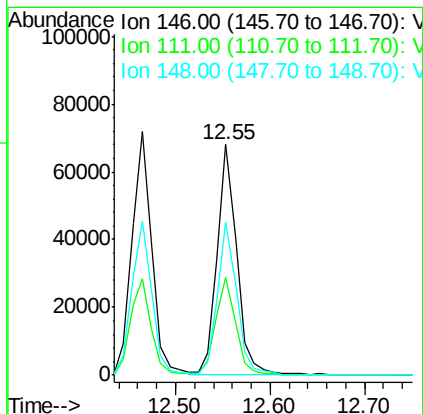
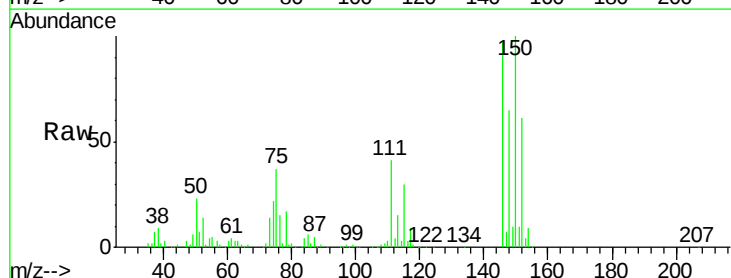
Tgt Ion:146 Resp: 98438

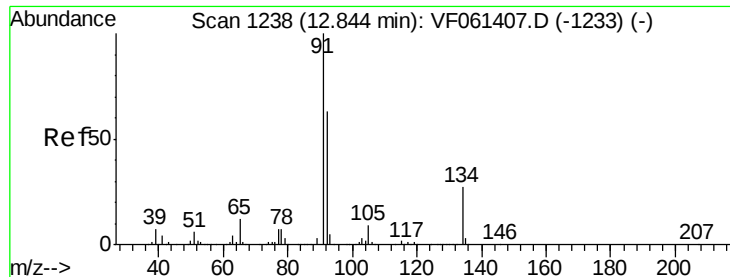
Ion Ratio Lower Upper

146 100

111 42.3 20.8 62.2

148 66.5 32.1 96.5





#89

n-Butylbenzene

Concen: 20.796 ug/l

RT: 12.83 min Scan# 1237

Delta R.T. -0.01 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBS01

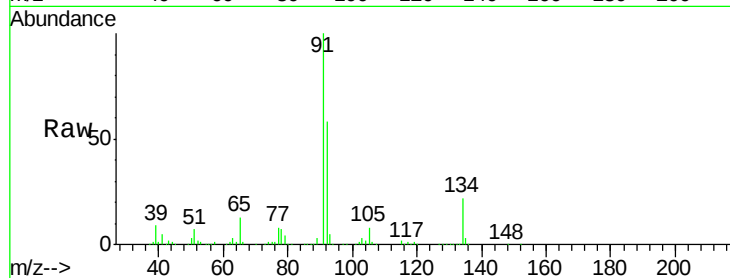
Tot Ion: 91 Resp: 249330

Ion Ratio Lower Upper

91 100

92 58.2 31.6 94.7

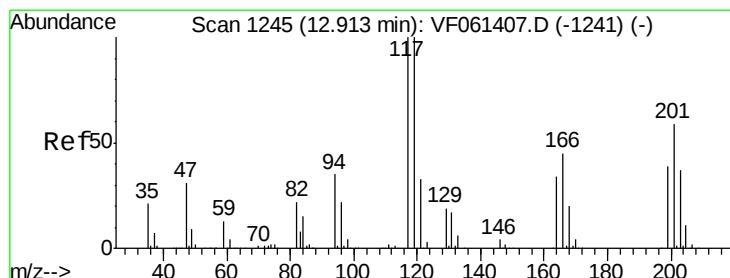
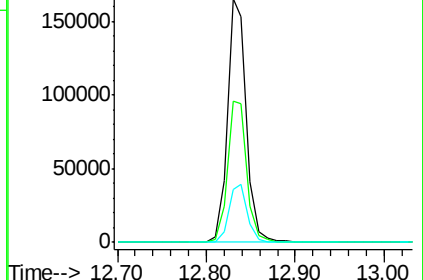
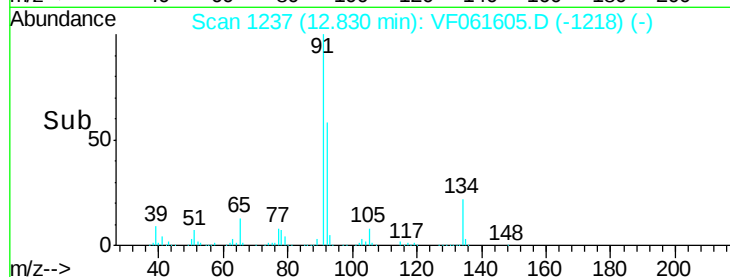
134 21.7 13.6 40.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 20.579 ug/l

RT: 12.91 min Scan# 1245

Delta R.T. -0.00 min

Lab File: VF061605.D

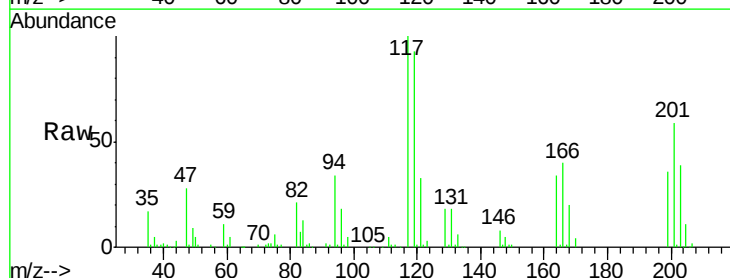
Acq: 12 Feb 2019 13:27

Tgt Ion: 117 Resp: 56394

Ion Ratio Lower Upper

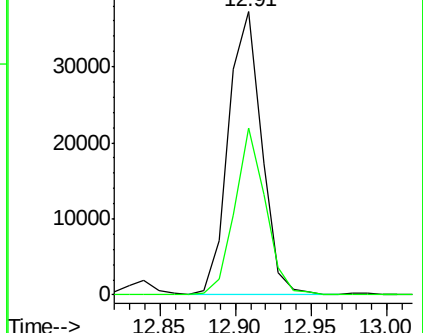
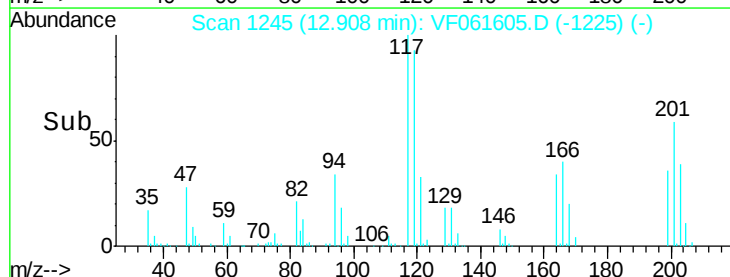
117 100

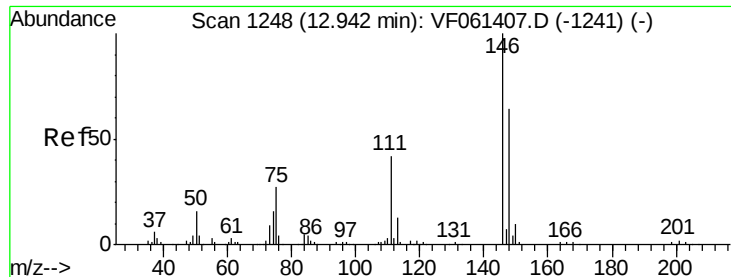
201 60.4 29.3 87.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

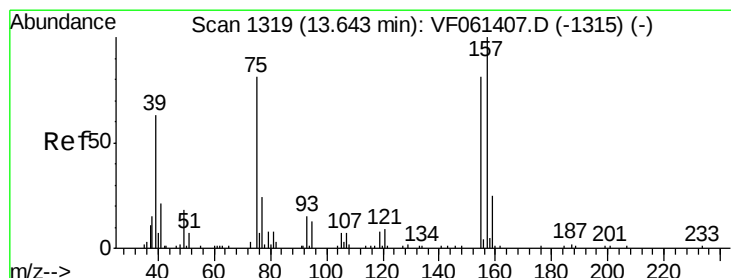
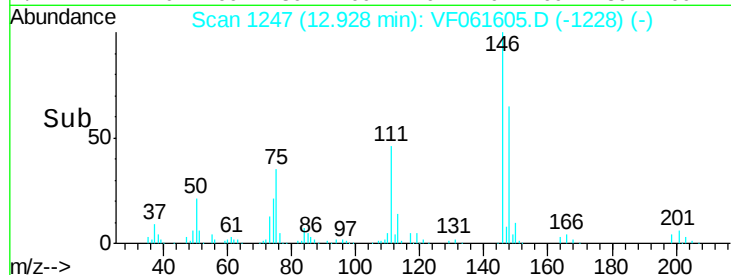
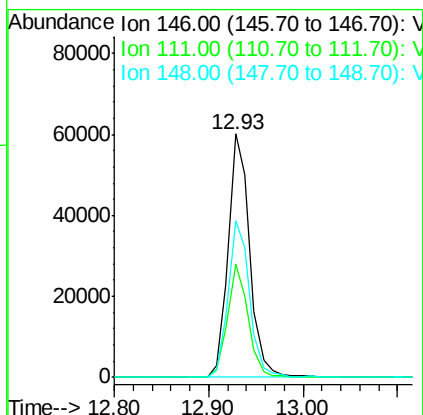
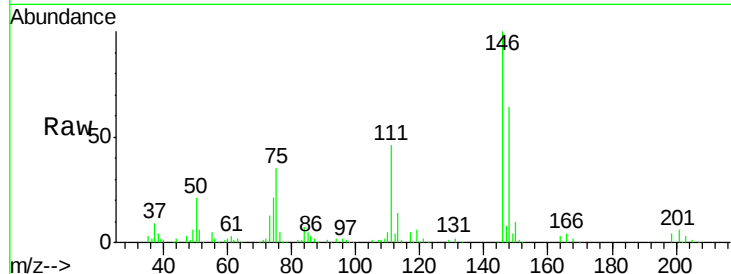




#91
 1,2-Dichlorobenzene
 Concen: 19.208 ug/l
 RT: 12.93 min Scan# 1247
 Delta R.T. -0.01 min
 Lab File: VF061605.D
 Acq: 12 Feb 2019 13:27

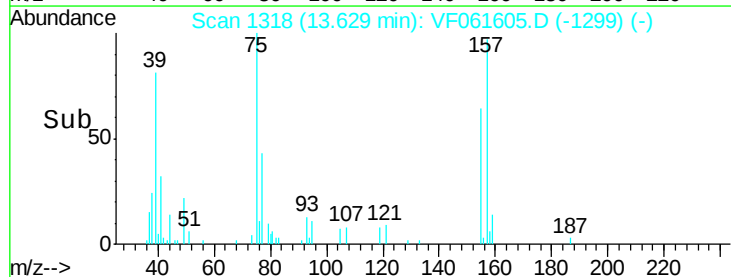
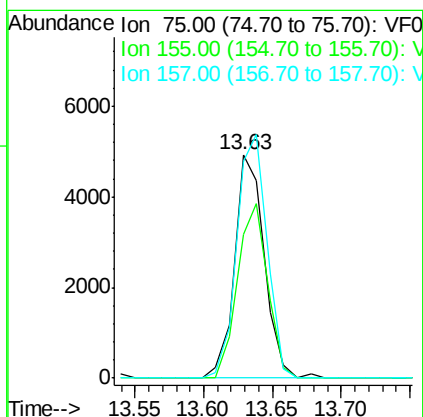
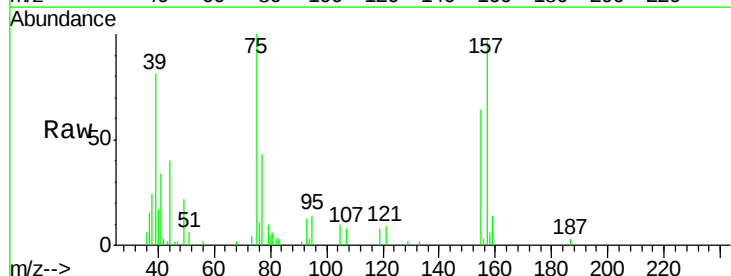
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0212SBS01

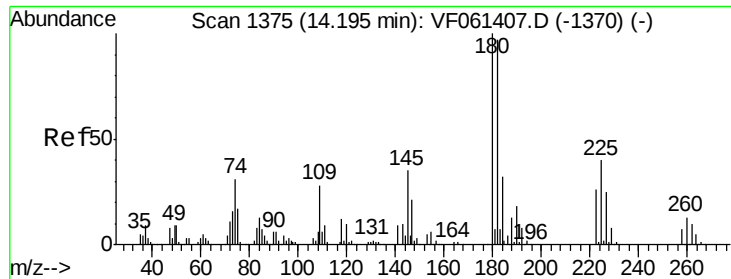
Tot Ion:146 Resp: 94741
 Ion Ratio Lower Upper
 146 100
 111 46.3 21.1 63.3
 148 64.3 31.9 95.7



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.804 ug/l
 RT: 13.63 min Scan# 1318
 Delta R.T. -0.01 min
 Lab File: VF061605.D
 Acq: 12 Feb 2019 13:27

Tgt Ion: 75 Resp: 7418
 Ion Ratio Lower Upper
 75 100
 155 64.0 49.7 149.1
 157 97.0 61.4 184.1

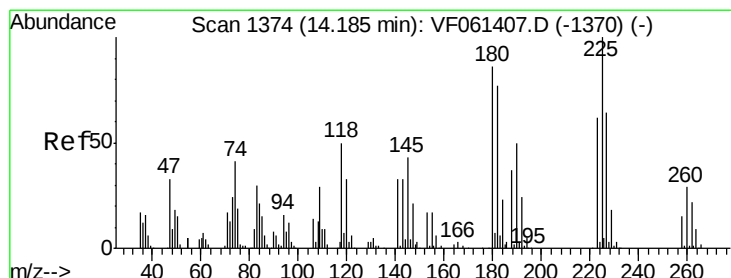
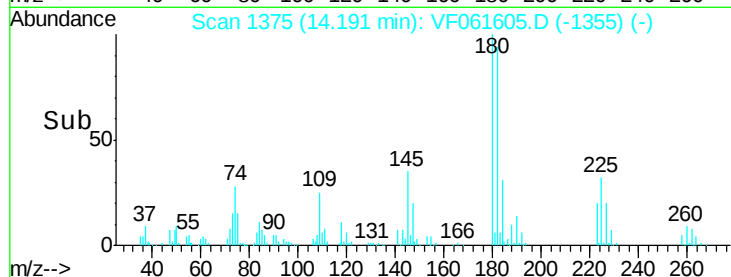
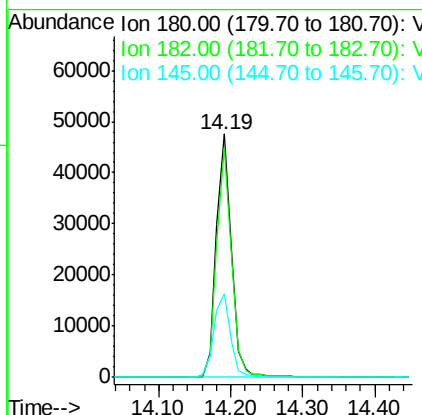
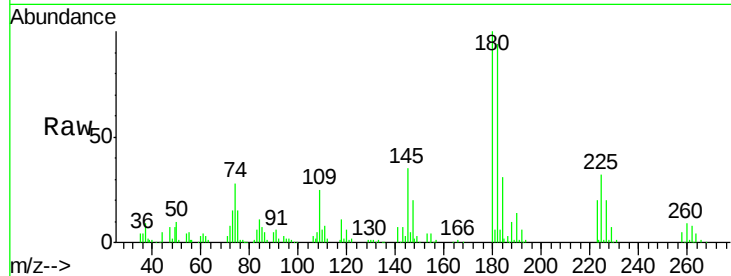




#93
 1,2,4-Trichlorobenzene
 Concen: 19.742 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.00 min
 Lab File: VF061605.D
 Acq: 12 Feb 2019 13:27

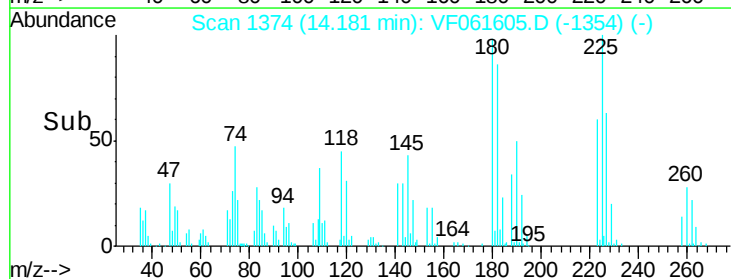
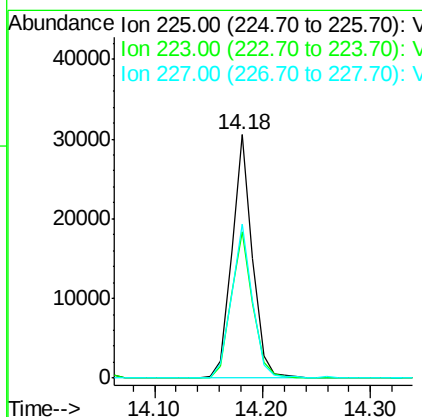
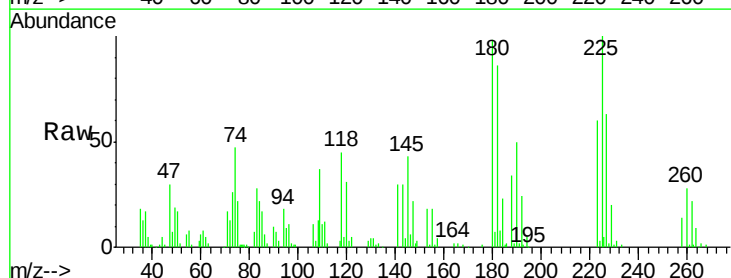
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0212SBS01

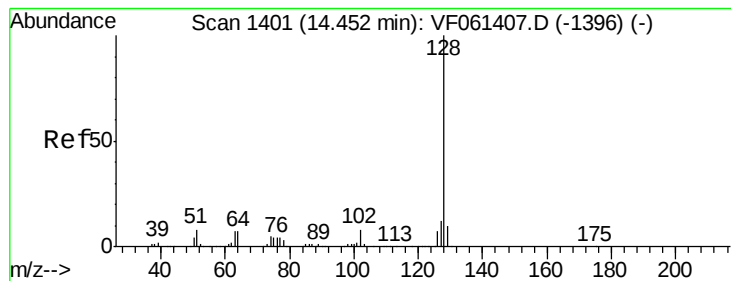
Tot Ion:180 Resp: 68213
 Ion Ratio Lower Upper
 180 100
 182 94.5 48.5 145.6
 145 34.5 17.5 52.6



#94
 Hexachlorobutadiene
 Concen: 18.703 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.00 min
 Lab File: VF061605.D
 Acq: 12 Feb 2019 13:27

Tgt Ion:225 Resp: 40101
 Ion Ratio Lower Upper
 225 100
 223 60.1 31.1 93.2
 227 63.3 32.2 96.6





#95

Naphthalene

Concen: 18.093 ug/l

RT: 14.45 min Scan# 1401

Delta R.T. -0.00 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBS01

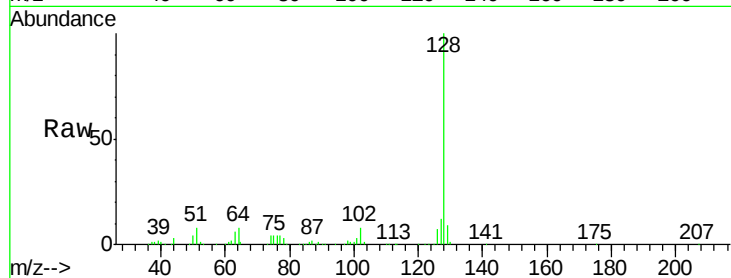
Tot Ion:128 Resp: 118775

Ion Ratio Lower Upper

128 100

127 11.6 9.5 14.3

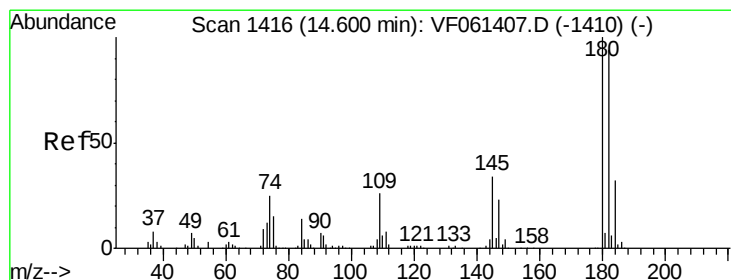
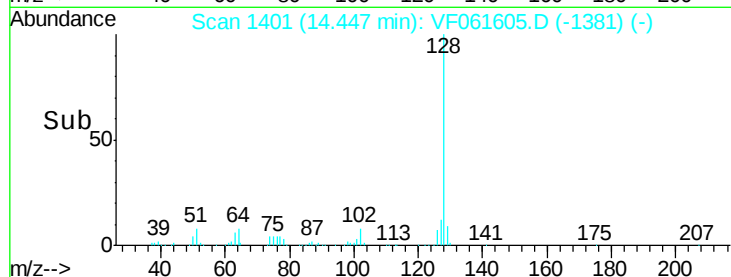
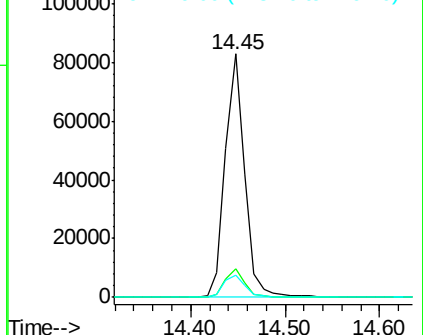
129 9.2 8.4 12.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 18.458 ug/l

RT: 14.60 min Scan# 1416

Delta R.T. -0.00 min

Lab File: VF061605.D

Acq: 12 Feb 2019 13:27

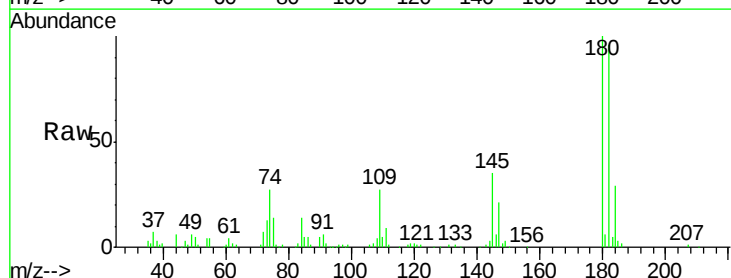
Tgt Ion:180 Resp: 59038

Ion Ratio Lower Upper

180 100

182 96.2 47.0 141.2

145 35.4 17.1 51.2



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

