

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032319\
 Data File : VF062118.D
 Acq On : 23 Mar 2019 15:39
 Operator : VA/AP
 Sample : K2045-03MSD
 Misc : 5.82g/5mL/MSVOA-F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Mar 25 01:28:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 01:16:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	57399	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.60	114	69956	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.78	117	43898	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.55	152	17767	50.00	ug/l	-0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.84	65	10830	25.37	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	50.74%	
35) Dibromofluoromethane	4.11	113	21018	44.41	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	88.82%	
50) Toluene-d8	7.55	98	70526	49.93	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	99.86%	
62) 4-Bromofluorobenzene	11.41	95	18493	33.91	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	67.82%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.97	85	51703	70.313	ug/l	96
3) Chloromethane	1.09	50	38000	49.388	ug/l	97
4) Vinyl Chloride	1.14	62	45733	64.260	ug/l	94
5) Bromomethane	1.31	94	29996	58.633	ug/l	95
6) Chloroethane	1.38	64	21536	60.112	ug/l	98
7) Trichlorofluoromethane	1.47	101	67655	78.712	ug/l	92
8) Diethyl Ether	1.64	74	3932	20.026	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	1.83	101	42418	72.338	ug/l	93
10) Methyl Iodide	1.88	142	27414	24.602	ug/l	98
11) Tert butyl alcohol	2.57	59	1742	74.156	ug/l #	28
12) 1,1-Dichloroethene	1.76	96	34226	61.860	ug/l	92
13) Acrolein	2.01	56	2825	100.007	ug/l #	84
14) Allyl chloride	2.10	41	36015	60.969	ug/l	93
15) Acrylonitrile	2.94	53	6337	76.714	ug/l #	71
16) Acetone	2.25	43	12789	142.328	ug/l #	86
17) Carbon Disulfide	1.77	76	110604	65.556	ug/l	100
18) Methyl Acetate	2.35	43	5059	23.602	ug/l #	82
19) Methyl tert-butyl Ether	2.44	73	16347	18.694	ug/l #	91
20) Methylene Chloride	2.18	84	19410	34.961	ug/l #	91
21) trans-1,2-Dichloroethene	2.31	96	30496	57.286	ug/l	92
22) Diisopropyl ether	2.80	45	40560	26.189	ug/l #	98
23) Vinyl Acetate	3.20	43	38615	60.897	ug/l	97
24) 1,1-Dichloroethane	2.87	63	43392	46.720	ug/l	97
25) 2-Butanone	4.38	43	25533	136.114	ug/l #	65
26) 2,2-Dichloropropane	3.60	77	32933	87.455	ug/l	97
27) cis-1,2-Dichloroethene	3.47	96	26875	38.098	ug/l	95
28) Bromochloromethane	3.73	49	9755	25.707	ug/l	86
29) Tetrahydrofuran	4.08	42	6597	80.886	ug/l #	84
30) Chloroform	3.87	83	38977	39.710	ug/l	98
31) Cyclohexane	3.70	56	60174	62.035	ug/l	89
32) 1,1,1-Trichloroethane	4.10	97	45785	76.683	ug/l	96
36) 1,1-Dichloropropene	4.29	75	48911	73.403	ug/l	95
37) Ethyl Acetate	4.12	43	6703	23.018	ug/l #	1
38) Carbon Tetrachloride	4.00	117	45206	99.540	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.45	83	56939	73.627	ug/l	94
40) Benzene	4.64	78	94306	52.794	ug/l	98
41) Methacrylonitrile	4.75	41	3051	19.801	ug/l #	76
42) 1,2-Dichloroethane	4.94	62	12767	30.224	ug/l	93
43) Isopropyl Acetate	6.96	43	5687	16.126	ug/l #	86
44) Trichloroethene	5.50	130	33091	60.592	ug/l	97
45) 1,2-Dichloropropane	6.23	63	16241	38.120	ug/l	97
46) Dibromomethane	6.08	93	5981	22.960	ug/l #	83
47) Bromodichloromethane	6.38	83	21036	36.457	ug/l #	82
48) Methyl methacrylate	6.72	41	3962	19.731	ug/l #	79
49) 1,4-Dioxane	6.71	88	577	327.482	ug/l #	87
51) 4-Methyl-2-Pentanone	8.26	43	17503	74.152	ug/l	99
52) Toluene	7.62	92	58108	56.163	ug/l	97
53) t-1,3-Dichloropropene	8.27	75	12103	26.720	ug/l	99
54) cis-1,3-Dichloropropene	7.30	75	20089	30.996	ug/l	96
55) 1,1,2-Trichloroethane	8.50	97	7107	24.183	ug/l	88
56) Ethyl methacrylate	8.62	69	6416	18.306	ug/l	96
57) 1,3-Dichloropropane	8.86	76	12494	25.615	ug/l	95
58) 2-Chloroethyl Vinyl ether	7.30	63	2672	50.240	ug/l	92
59) 2-Hexanone	9.50	43	9640	55.723	ug/l	92
60) Dibromochloromethane	8.72	129	11025	26.986	ug/l	95
61) 1,2-Dibromoethane	8.99	107	6548	20.884	ug/l	86
64) Tetrachloroethene	8.16	164	27928	82.348	ug/l	95
65) Chlorobenzene	9.80	112	50629	61.640	ug/l	93
66) 1,1,1,2-Tetrachloroethane	9.93	131	18053	54.718	ug/l	90
67) Ethyl Benzene	9.90	91	108006	75.612	ug/l	97
68) m/p-Xylenes	10.14	106	75369	141.171	ug/l	96
69) o-Xylene	10.71	106	34426	61.567	ug/l	97
70) Styrene	10.79	104	40743	48.090	ug/l	97
71) Bromoform	10.77	173	4425	26.222	ug/l	97
73) Isopropylbenzene	11.12	105	122138	97.695	ug/l	99
74) N-amyl acetate	11.41	43	490	1.645	ug/l #	6
75) 1,1,2,2-Tetrachloroethane	11.70	83	8709	40.571	ug/l	96
76) 1,2,3-Trichloropropane	11.79	75	5690	37.665	ug/l	97
77) Bromobenzene	11.50	156	17503	57.304	ug/l	91
78) n-propylbenzene	11.60	91	139811	96.308	ug/l	97
79) 2-Chlorotoluene	11.72	91	63533	78.738	ug/l	92
80) 1,3,5-Trimethylbenzene	11.82	105	81527	79.280	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.87	75	1207	19.608	ug/l #	86
82) 4-Chlorotoluene	11.90	91	57870	69.948	ug/l	96
83) tert-Butylbenzene	12.13	119	95353	88.578	ug/l	95
84) 1,2,4-Trimethylbenzene	12.21	105	71914	71.336	ug/l	100
85) sec-Butylbenzene	12.31	105	120441	86.486	ug/l	97
86) p-Isopropyltoluene	12.46	119	100550	83.339	ug/l	97
87) 1,3-Dichlorobenzene	12.47	146	36249	63.878	ug/l	91
88) 1,4-Dichlorobenzene	12.56	146	33872	61.169	ug/l	99
89) n-Butylbenzene	12.85	91	86164	74.854	ug/l	96
90) Hexachloroethane	12.92	117	22185	77.222	ug/l	91
91) 1,2-Dichlorobenzene	12.94	146	29863	56.043	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.65	75	922	28.347	ug/l	77

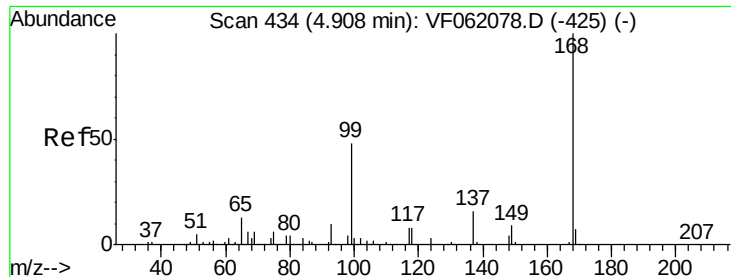
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	8794	23.680	ug/l	97
94) Hexachlorobutadiene	14.19	225	9970	40.376	ug/l	96
95) Naphthalene	14.46	128	6376	9.797	ug/l #	96
96) 1,2,3-Trichlorobenzene	14.60	180	5741	16.515	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.04 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

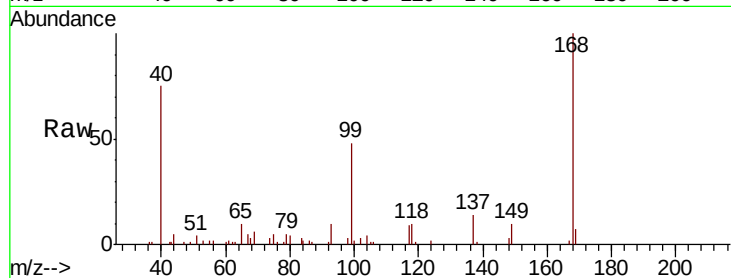
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 57399

Ion Ratio Lower Upper

168 100

99 48.1 38.2 57.4



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

20000

15000

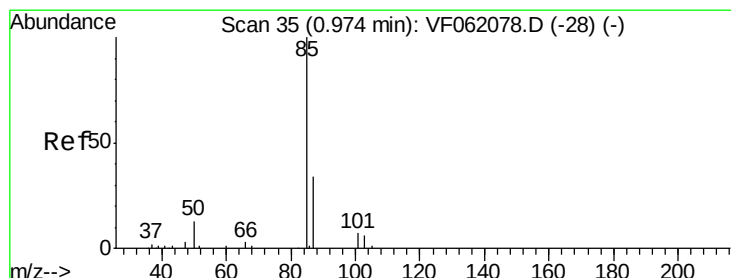
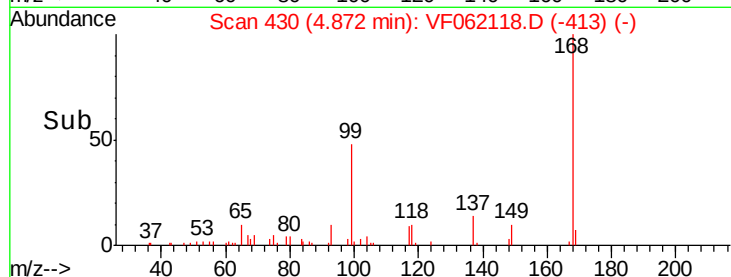
10000

5000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 70.313 ug/l

RT: 0.97 min Scan# 34

Delta R.T. -0.01 min

Lab File: VF062118.D

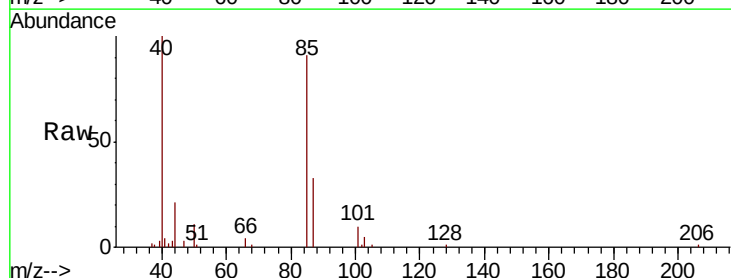
Acq: 23 Mar 2019 15:39

Tgt Ion: 85 Resp: 51703

Ion Ratio Lower Upper

85 100

87 36.3 17.0 51.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

15000

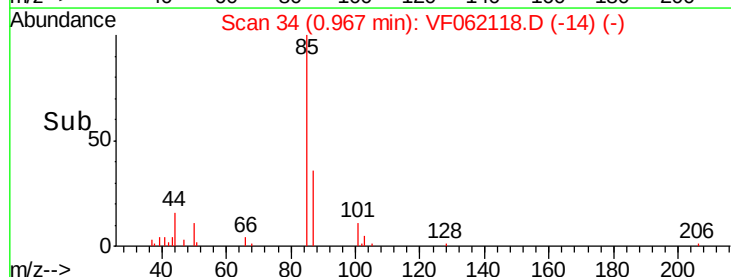
10000

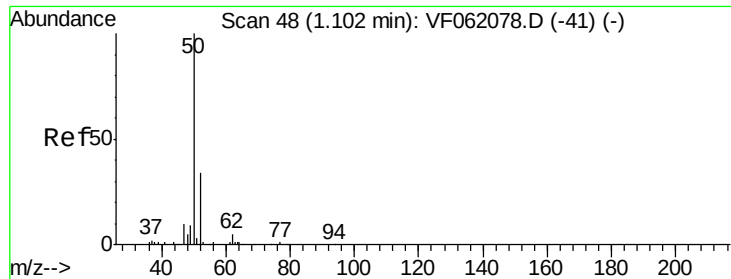
5000

0

0.90 1.00 1.10

Time-->





#3

Chloromethane

Concen: 49.388 ug/l

RT: 1.09 min Scan# 46

Delta R.T. -0.02 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

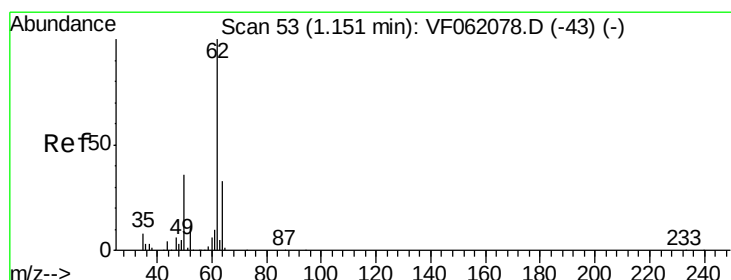
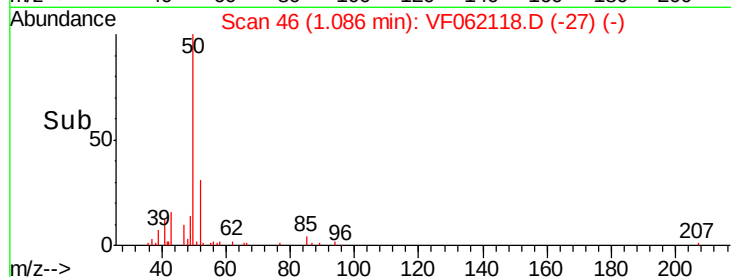
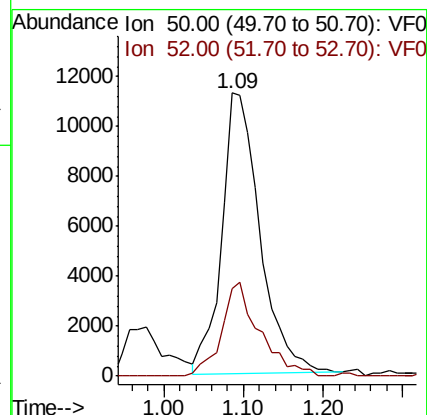
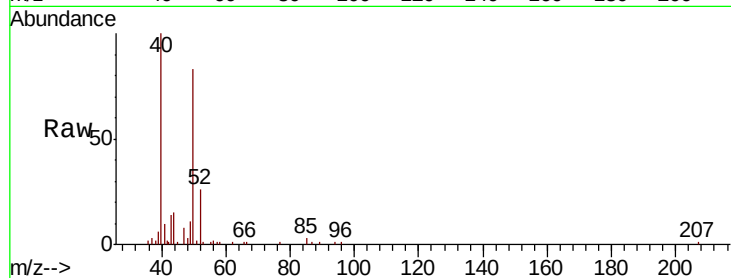
ClientSampleId :

Tot Ion: 50 Resp: 38000

Ion Ratio Lower Upper

50 100

52 30.8 26.1 39.1



#4

Vinyl Chloride

Concen: 64.260 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.01 min

Lab File: VF062118.D

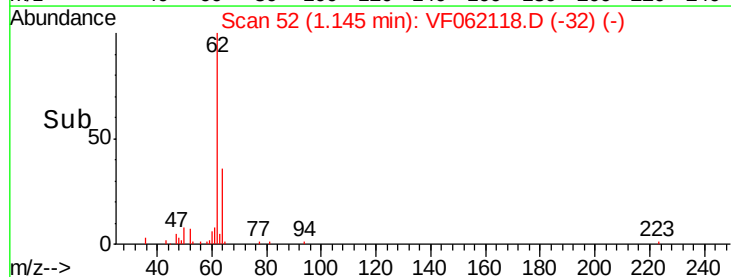
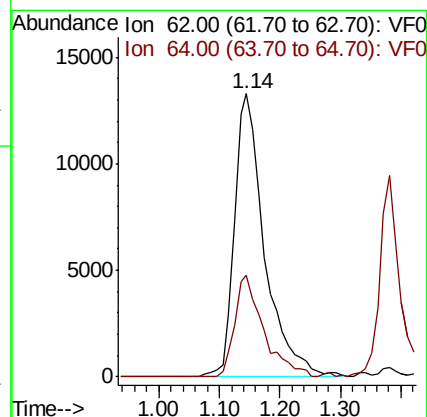
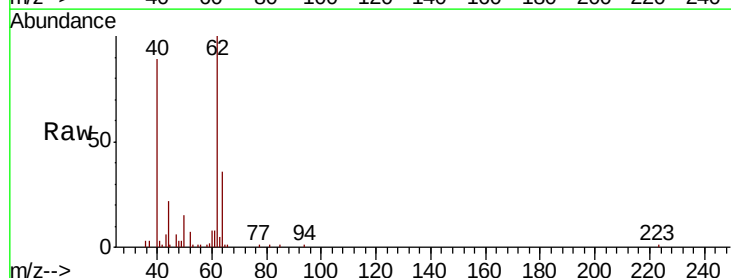
Acq: 23 Mar 2019 15:39

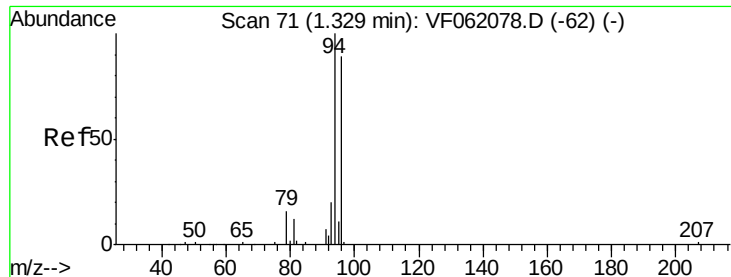
Tgt Ion: 62 Resp: 45733

Ion Ratio Lower Upper

62 100

64 35.8 26.2 39.2





#5

Bromomethane

Concen: 58.633 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.02 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

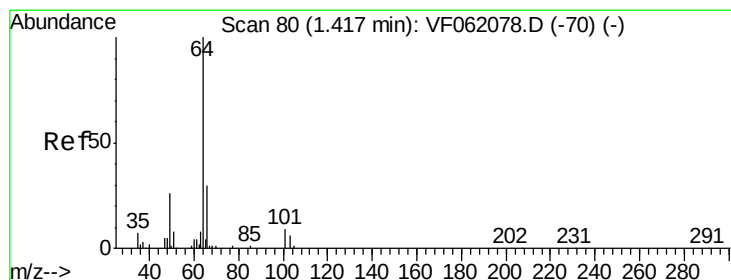
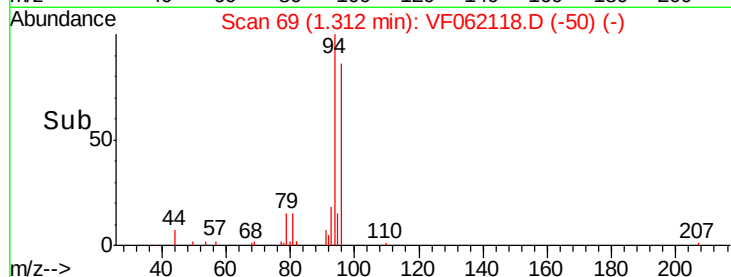
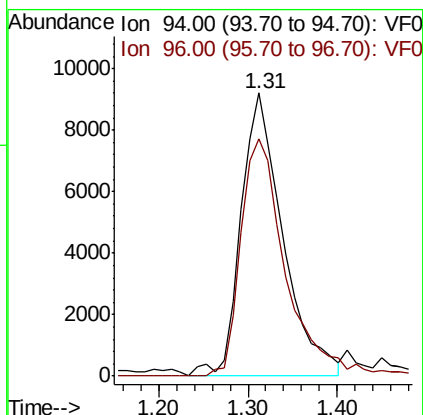
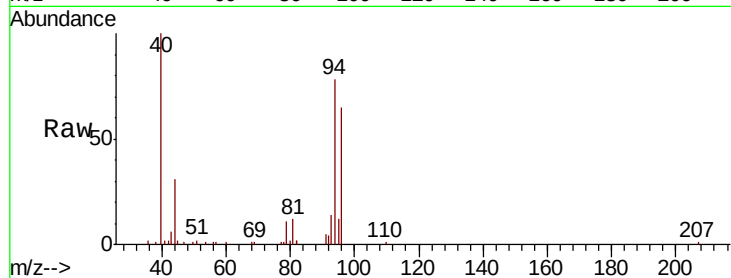
ClientSampleId :

Tot Ion: 94 Resp: 29996

Ion Ratio Lower Upper

94 100

96 83.7 70.9 106.3



#6

Chloroethane

Concen: 60.112 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.04 min

Lab File: VF062118.D

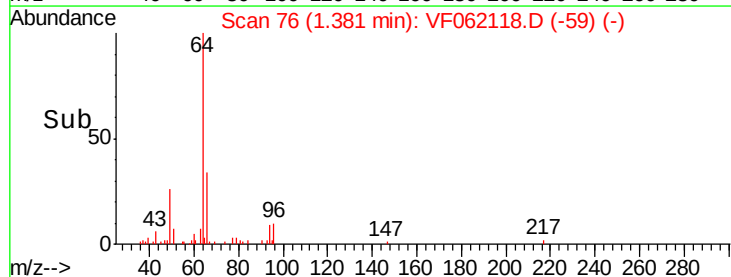
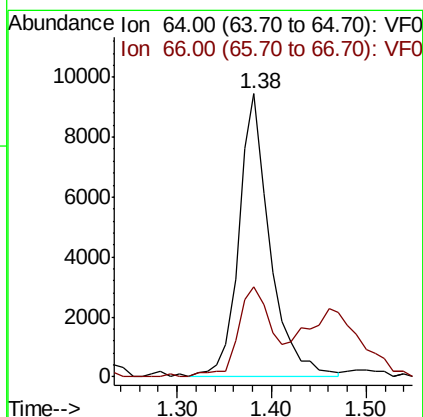
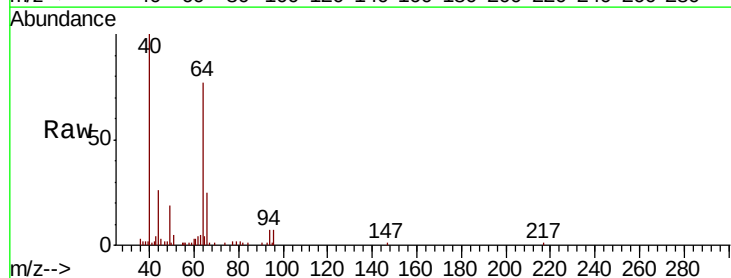
Acq: 23 Mar 2019 15:39

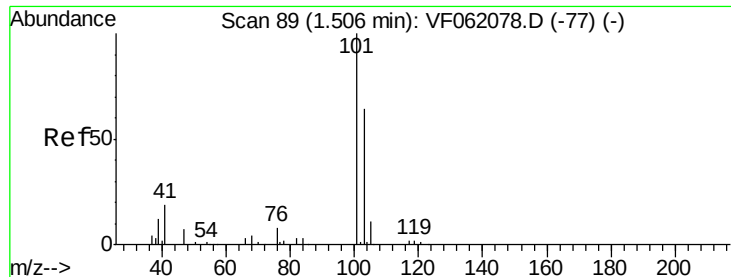
Tgt Ion: 64 Resp: 21536

Ion Ratio Lower Upper

64 100

66 31.9 24.5 36.7





#7

Trichlorofluoromethane

Concen: 78.712 ug/l

RT: 1.47 min Scan# 85

Delta R.T. -0.04 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

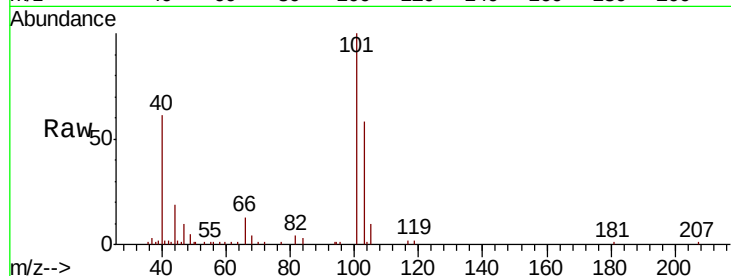
ClientSampleId :

Tot Ion:101 Resp: 67655

Ion Ratio Lower Upper

101 100

103 58.1 51.5 77.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

1.47

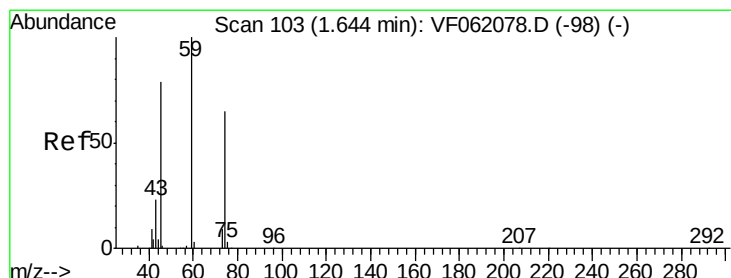
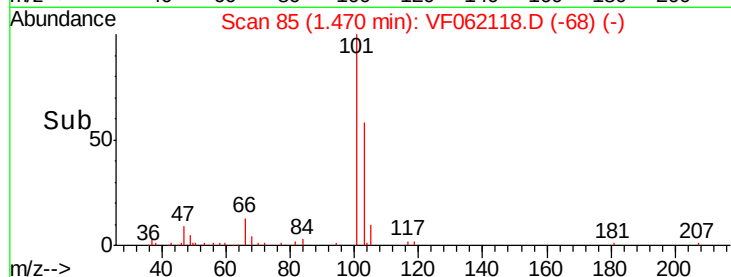
15000

10000

5000

0

Time--> 1.30 1.40 1.50 1.60 1.70



#8

Diethyl Ether

Concen: 20.026 ug/l

RT: 1.64 min Scan# 102

Delta R.T. -0.01 min

Lab File: VF062118.D

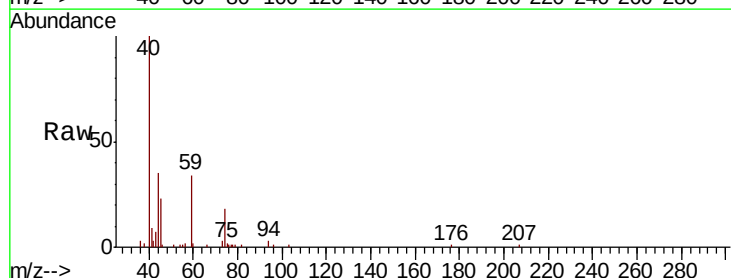
Acq: 23 Mar 2019 15:39

Tgt Ion: 74 Resp: 3932

Ion Ratio Lower Upper

74 100

45 126.2 61.4 184.2



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

3000

2500

2000

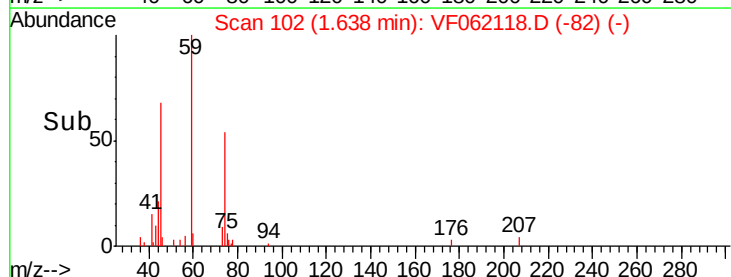
1500

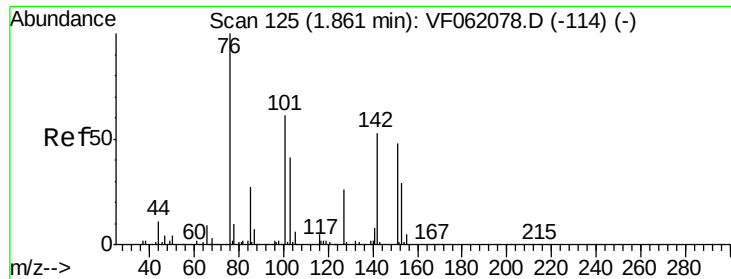
1000

500

0

Time--> 1.55 1.60 1.65 1.70





#9

1,1,2-Trichlorotrifluoroethane

Concen: 72.338 ug/l

RT: 1.83 min Scan# 121

Delta R.T. -0.04 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

ClientSampleId :

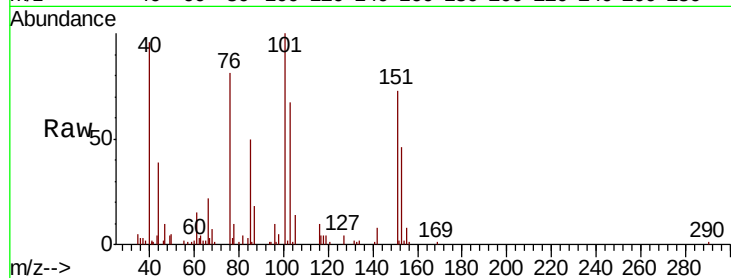
Tot Ion:101 Resp: 42418

Ion Ratio Lower Upper

101 100

85 50.2 34.6 52.0

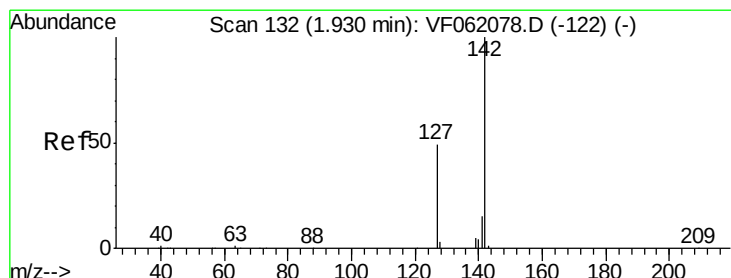
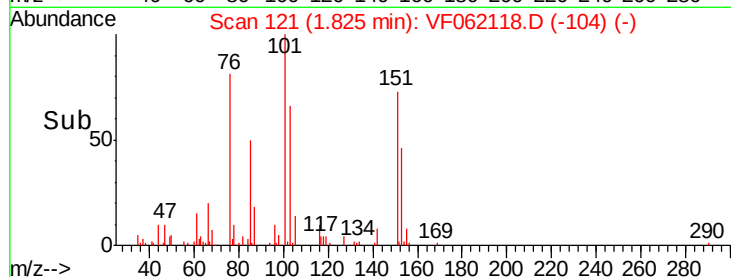
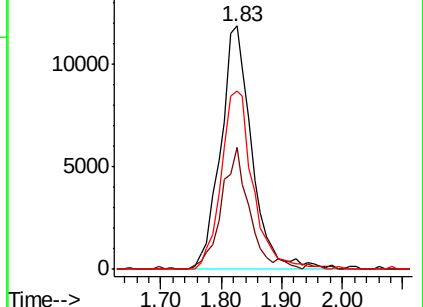
151 73.5 61.7 92.5



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: 24.602 ug/l

RT: 1.88 min Scan# 127

Delta R.T. -0.05 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

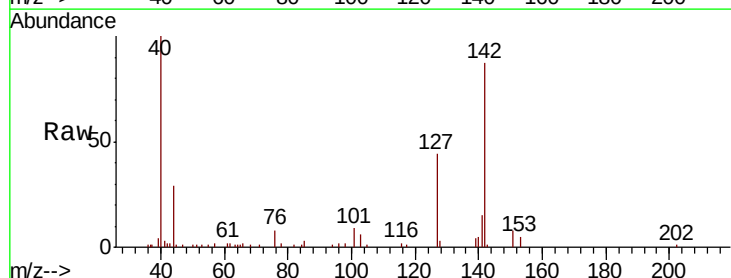
Tgt Ion:142 Resp: 27414

Ion Ratio Lower Upper

142 100

127 50.1 39.1 58.7

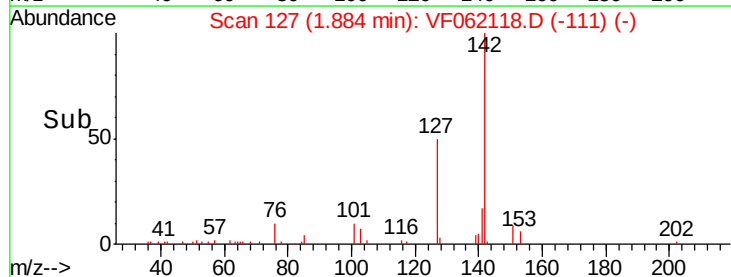
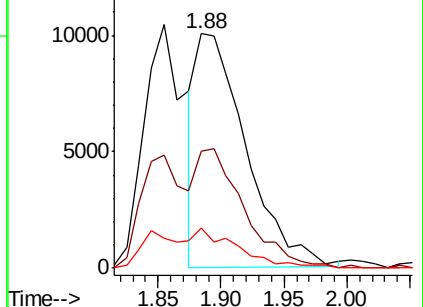
141 17.0 12.2 18.4

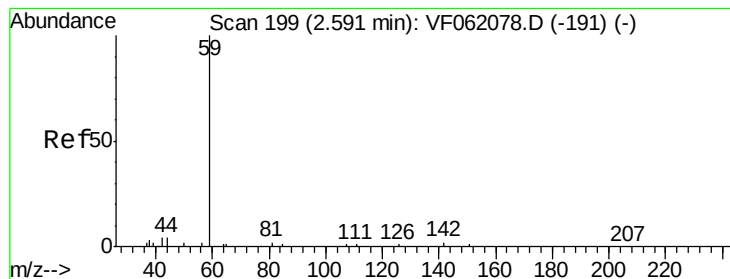


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



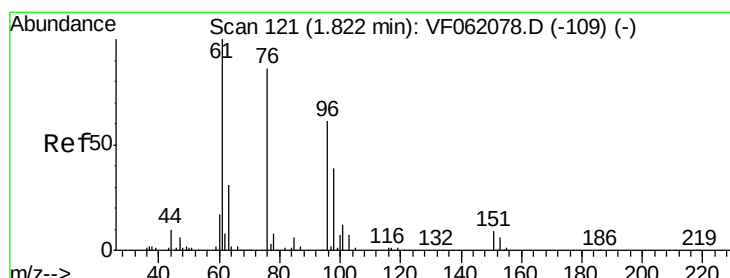
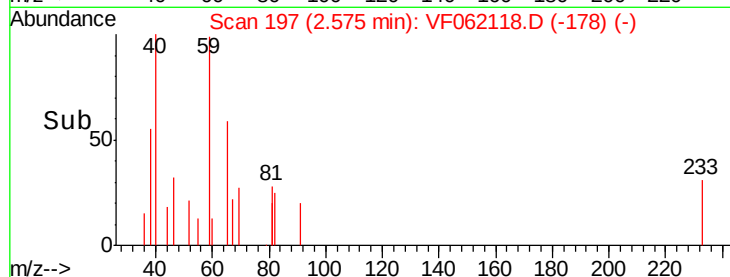
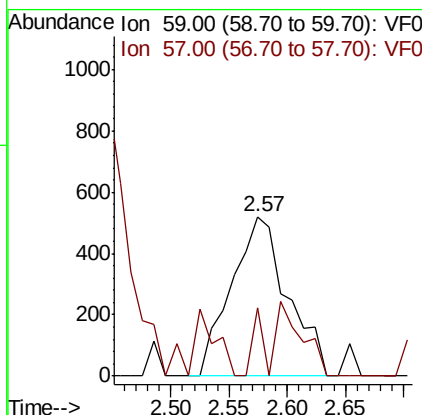
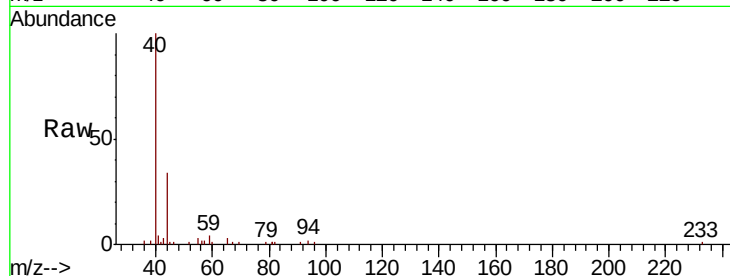


#11

Tert butyl alcohol
 Concen: 74.156 ug/l
 RT: 2.57 min Scan# 197
 Delta R.T. -0.02 min
 Lab File: VF062118.D
 Acq: 23 Mar 2019 15:39

Instrument :
 MSVOA_F
 ClientSampled :

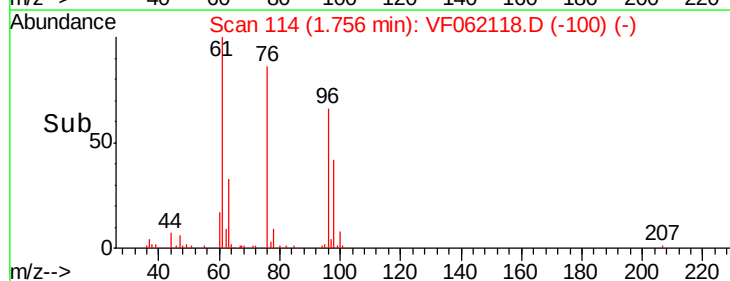
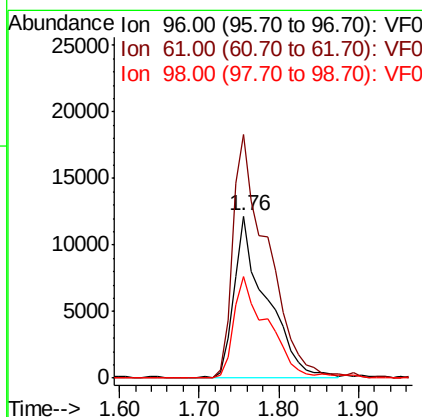
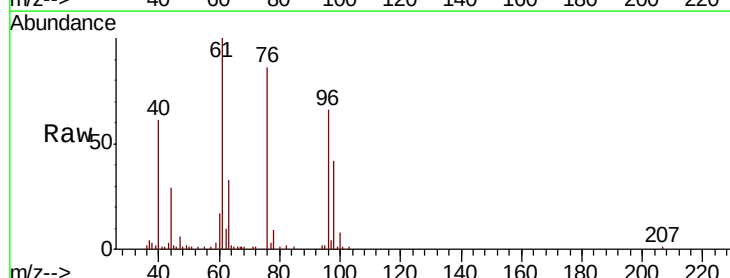
Tot Ion: 59 Resp: 1742
 Ion Ratio Lower Upper
 59 100
 57 42.7 11.0 16.4#

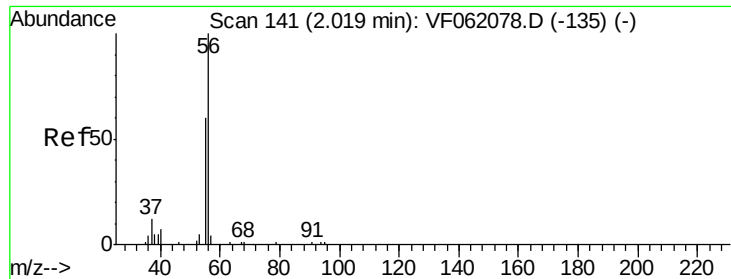


#12

1,1-Dichloroethene
 Concen: 61.860 ug/l
 RT: 1.76 min Scan# 114
 Delta R.T. -0.07 min
 Lab File: VF062118.D
 Acq: 23 Mar 2019 15:39

Tgt Ion: 96 Resp: 34226
 Ion Ratio Lower Upper
 96 100
 61 150.4 131.0 196.6
 98 62.7 51.5 77.3

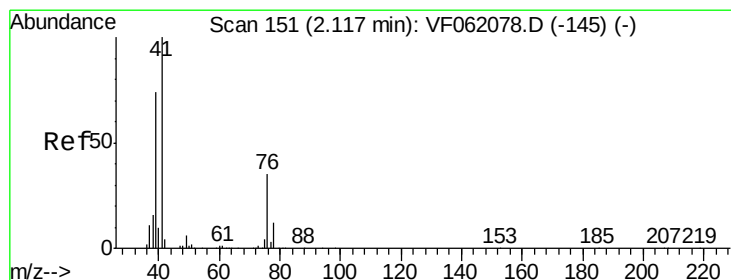
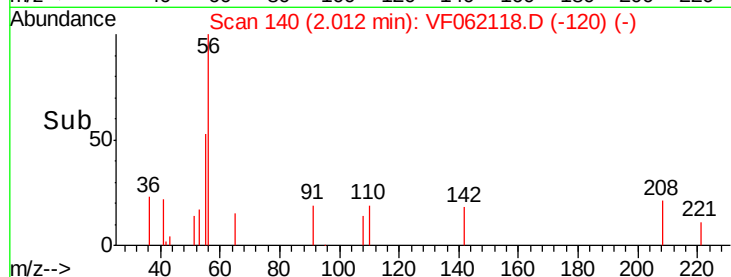
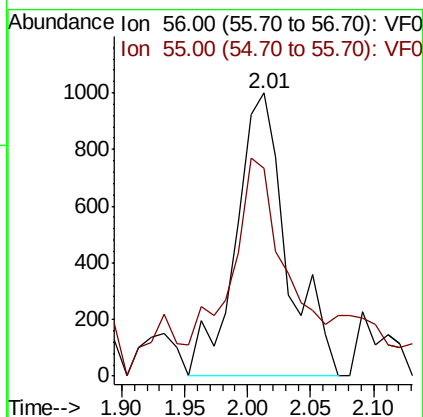
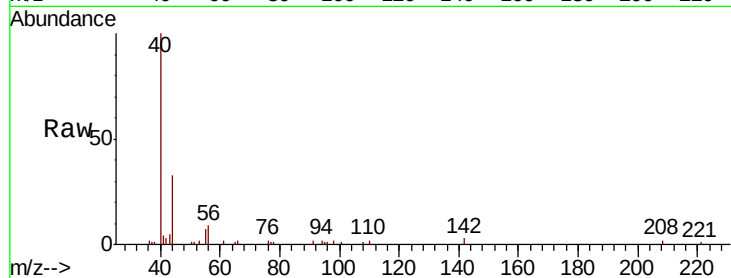




#13
Acrolein
Concen: 100.007 ug/l
RT: 2.01 min Scan# 140
Delta R.T. -0.01 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

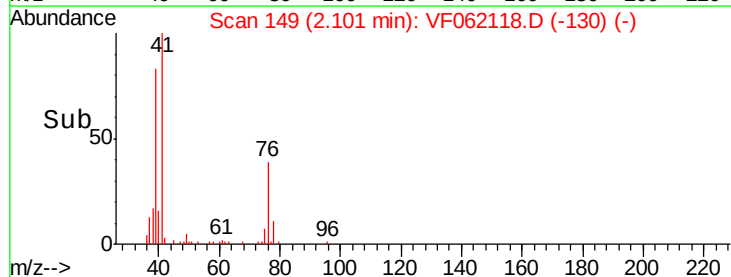
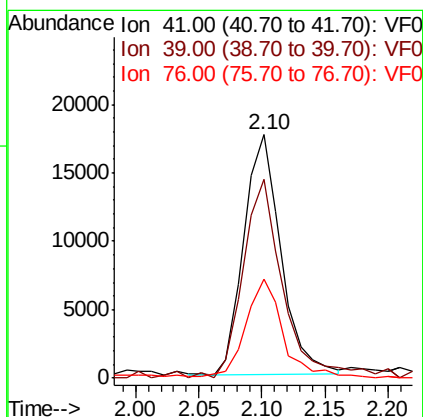
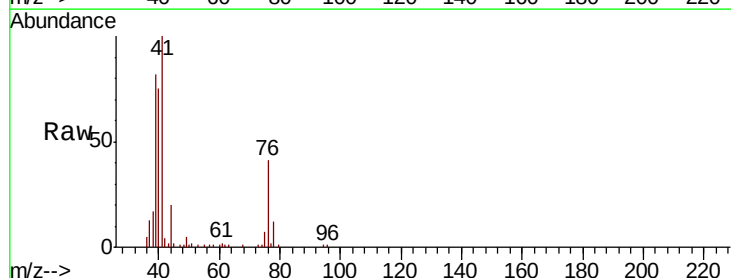
Instrument :
MSVOA_F
ClientSampled :

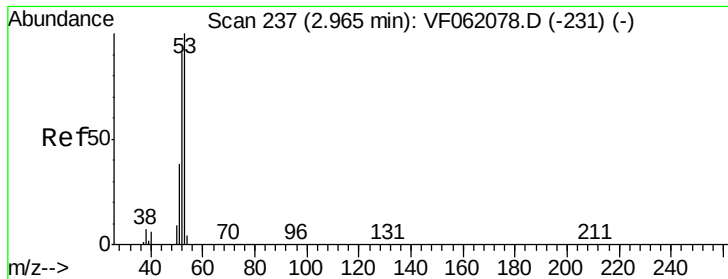
Tot Ion: 56 Resp: 2825
Ion Ratio Lower Upper
56 100
55 73.6 49.0 73.4#



#14
Allyl chloride
Concen: 60.969 ug/l
RT: 2.10 min Scan# 149
Delta R.T. -0.02 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Tgt Ion: 41 Resp: 36015
Ion Ratio Lower Upper
41 100
39 81.9 59.8 89.8
76 40.9 30.0 45.0





#15

Acrylonitrile

Concen: 76.714 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

ClientSampleId :

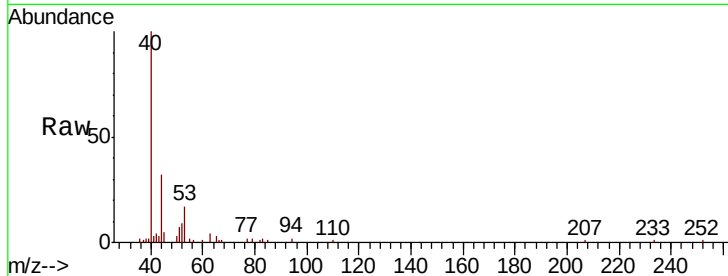
Tot Ion: 53 Resp: 6337

Ion Ratio Lower Upper

53 100

52 54.1 72.3 108.5#

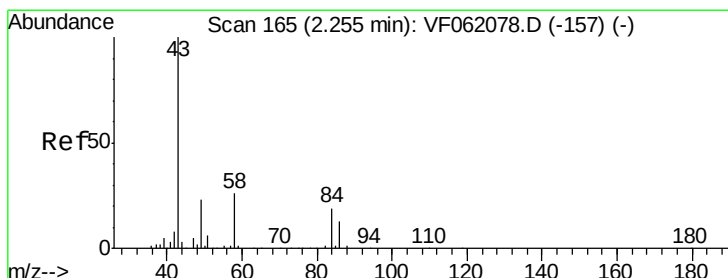
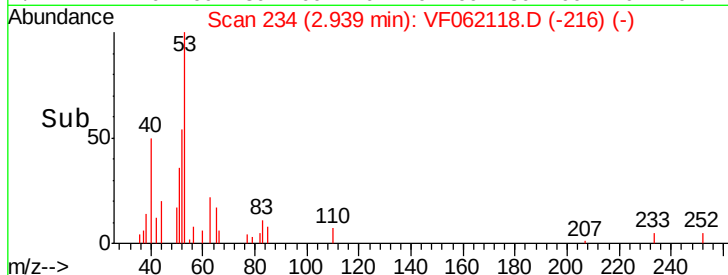
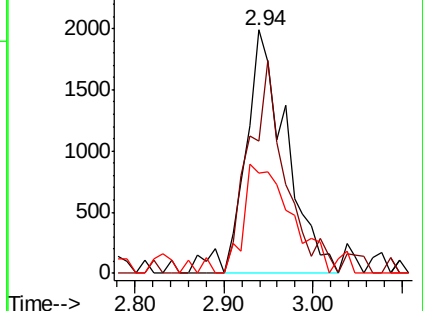
51 41.4 30.4 45.6



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 142.328 ug/l

RT: 2.25 min Scan# 164

Delta R.T. -0.01 min

Lab File: VF062118.D

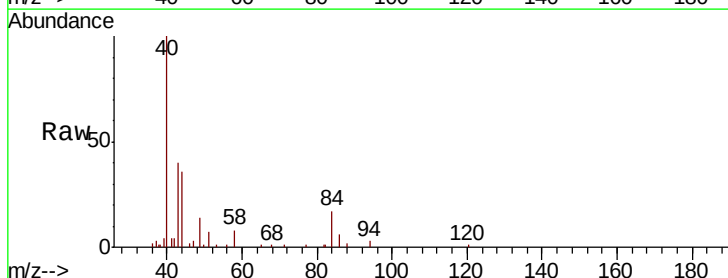
Acq: 23 Mar 2019 15:39

Tgt Ion: 43 Resp: 12789

Ion Ratio Lower Upper

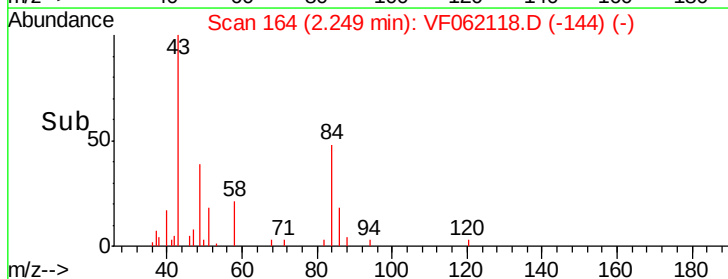
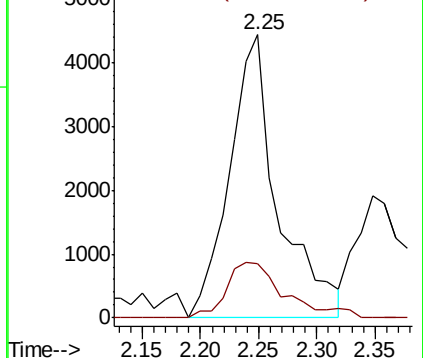
43 100

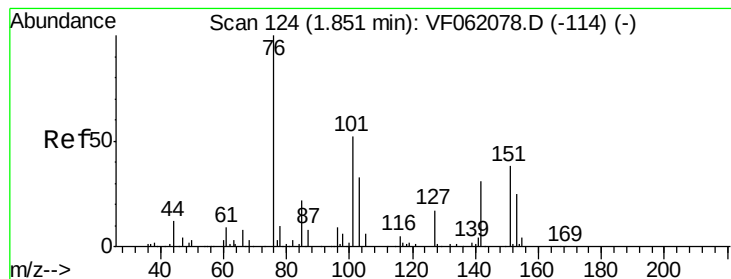
58 19.0 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#17

Carbon Disulfide

Concen: 65.556 ug/l

RT: 1.77 min Scan# 115

Delta R.T. -0.09 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

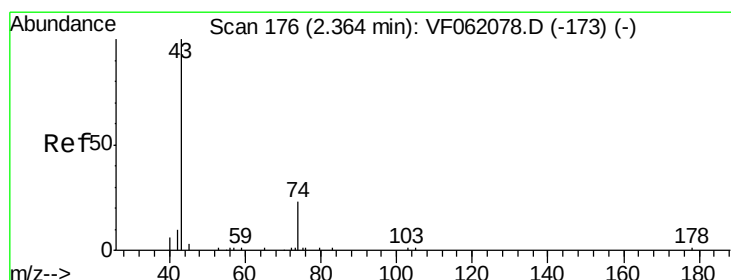
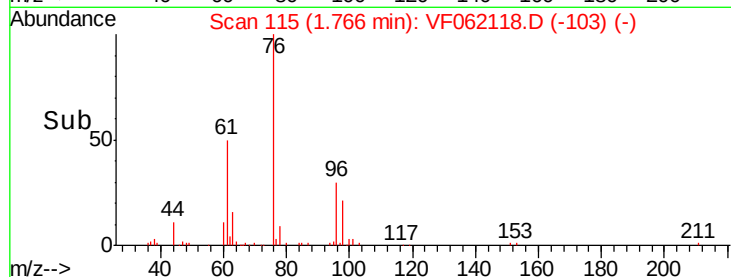
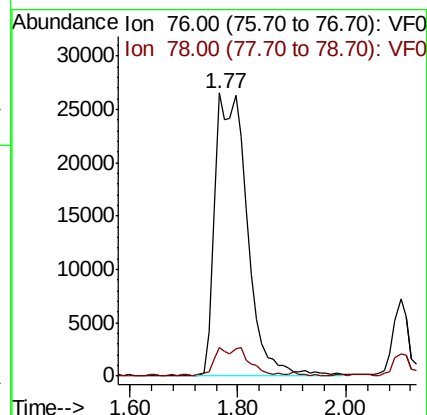
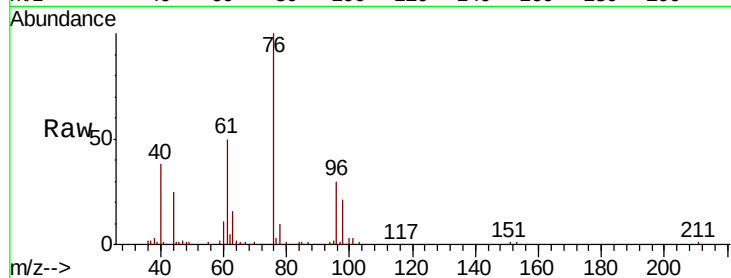
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 76 Resp: 110604

Ion Ratio Lower Upper

76 100

78 10.1 7.9 11.9



#18

Methyl Acetate

Concen: 23.602 ug/l

RT: 2.35 min Scan# 174

Delta R.T. -0.02 min

Lab File: VF062118.D

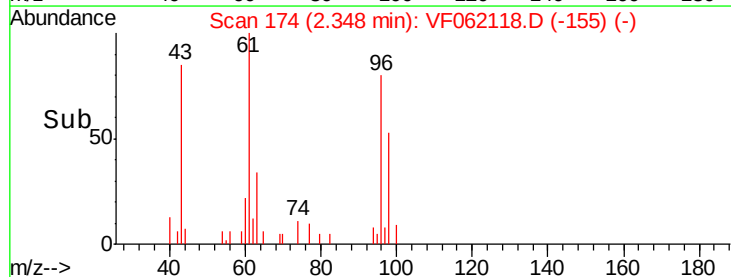
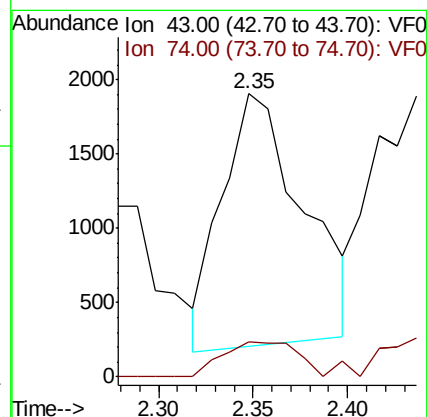
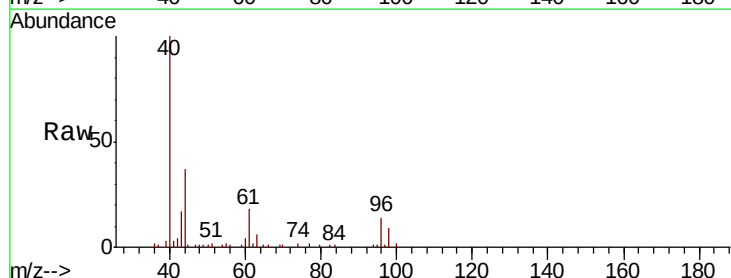
Acq: 23 Mar 2019 15:39

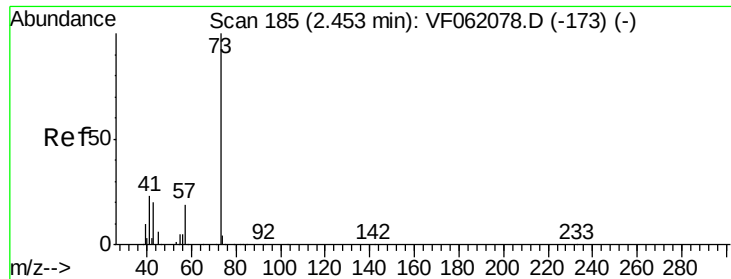
Tgt Ion: 43 Resp: 5059

Ion Ratio Lower Upper

43 100

74 12.3 16.3 24.5#

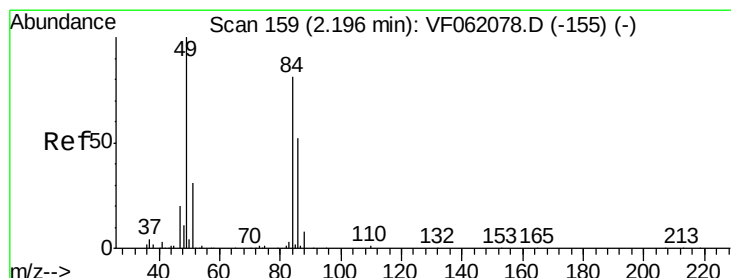
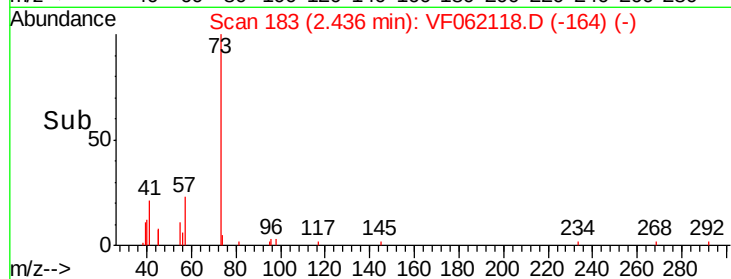
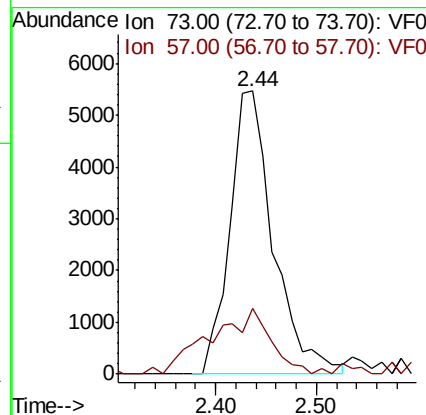
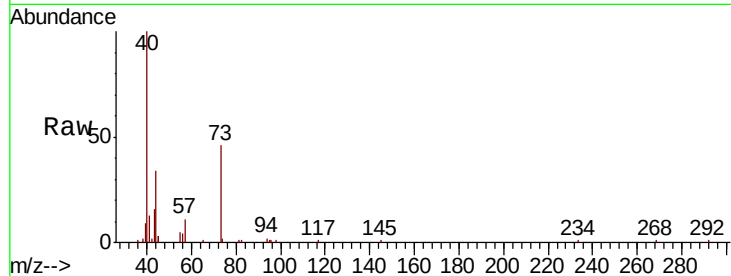




#19
Methyl tert-butyl Ether
Concen: 18.694 ug/l
RT: 2.44 min Scan# 183
Delta R.T. -0.02 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

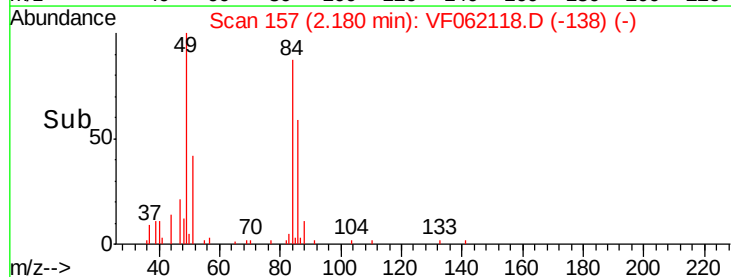
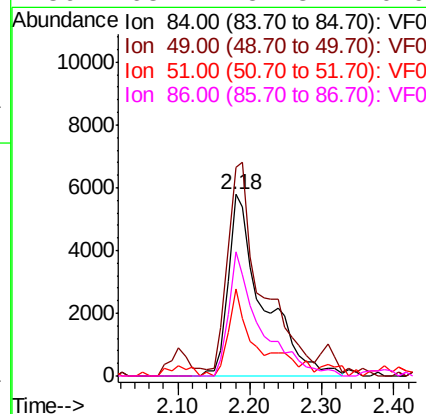
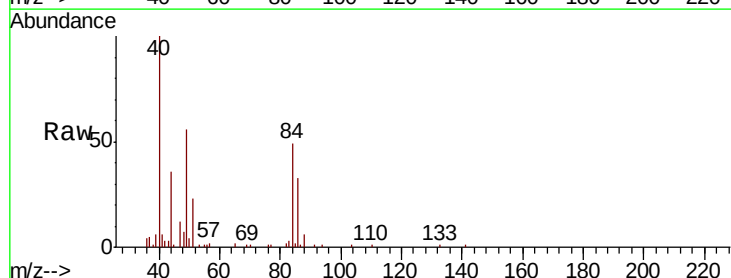
Instrument :
MSVOA_F
ClientSampleId :

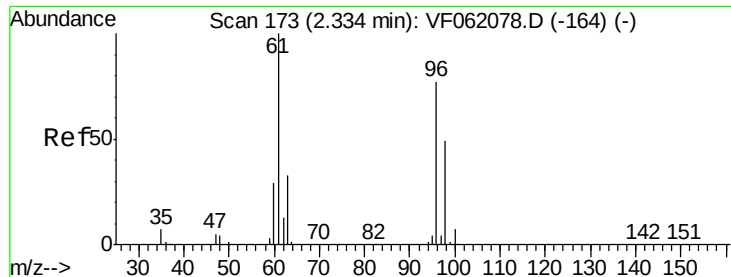
Tot Ion: 73 Resp: 16347
Ion Ratio Lower Upper
73 100
57 23.1 15.1 22.7#



#20
Methylene Chloride
Concen: 34.961 ug/l
RT: 2.18 min Scan# 157
Delta R.T. -0.02 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Tgt Ion: 84 Resp: 19410
Ion Ratio Lower Upper
84 100
49 114.7 100.4 150.6
51 47.8 31.0 46.6#
86 68.2 51.3 76.9





#21

trans-1,2-Dichloroethene

Concen: 57.286 ug/l

RT: 2.31 min Scan# 170

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

ClientSampled :

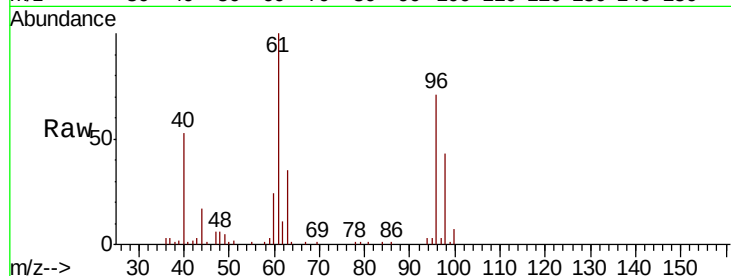
Tot Ion: 96 Resp: 30496

Ion Ratio Lower Upper

96 100

61 141.3 104.5 156.7

98 60.4 51.2 76.8

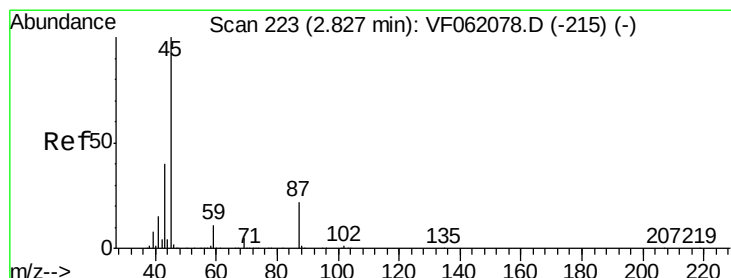
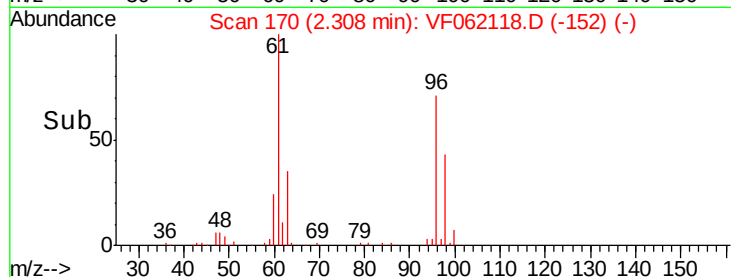
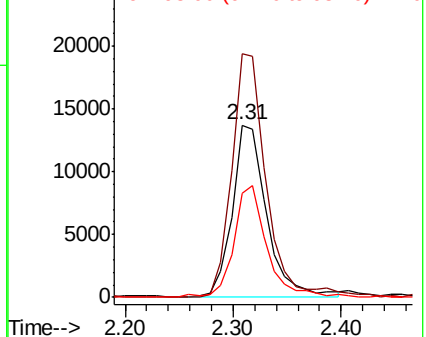


Abundance

Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 26.189 ug/l

RT: 2.80 min Scan# 220

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Tgt Ion: 45 Resp: 40560

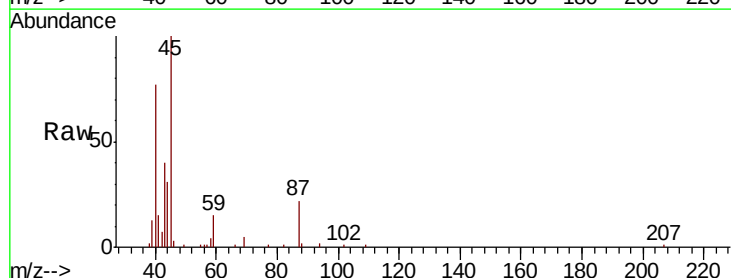
Ion Ratio Lower Upper

45 100

43 40.2 32.5 48.7

87 22.2 17.4 26.2

59 15.2 8.6 12.8#



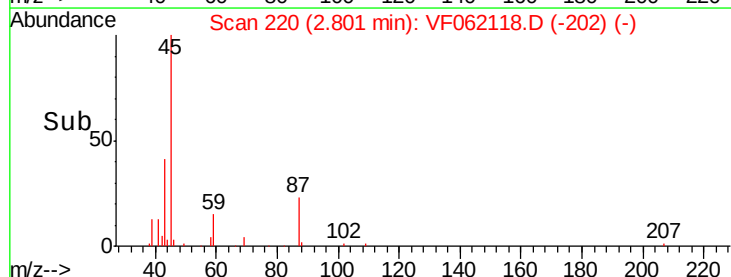
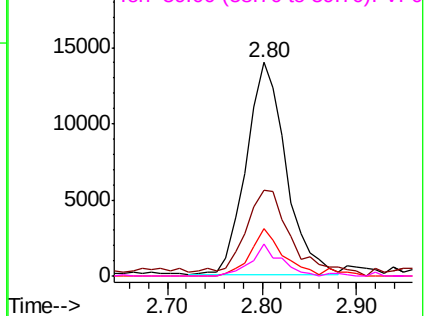
Abundance

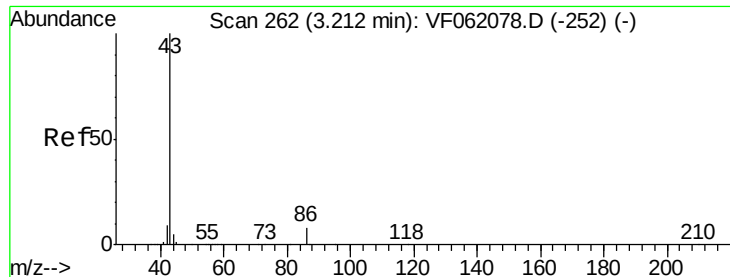
Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 60.897 ug/l

RT: 3.20 min Scan# 260

Delta R.T. -0.02 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

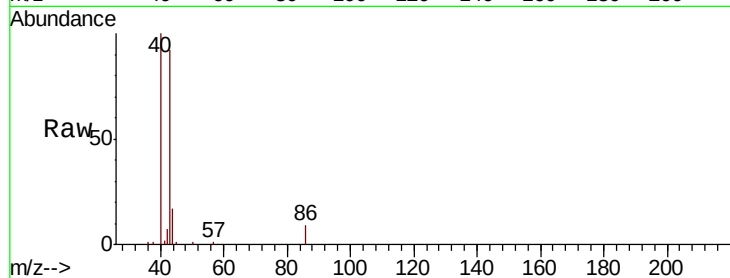
ClientSampleId :

Tot Ion: 43 Resp: 38615

Ion Ratio Lower Upper

43 100

86 9.4 6.8 10.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.20

15000

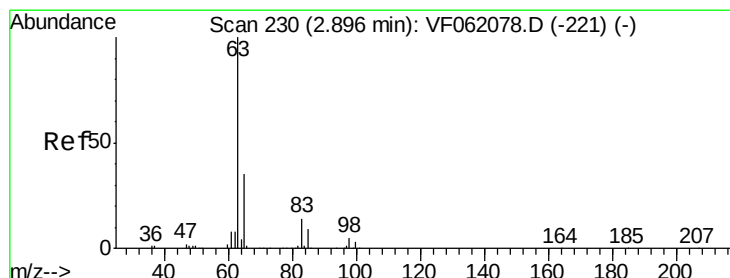
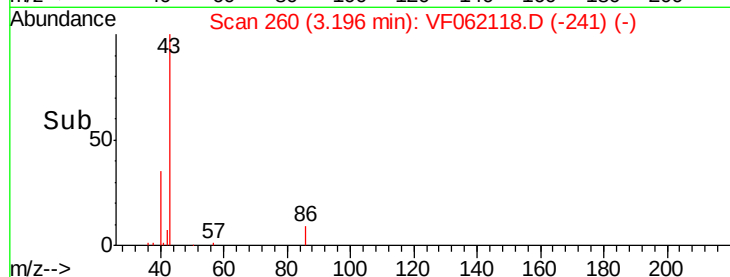
10000

5000

0

Time-->

3.10 3.20 3.30



#24

1,1-Dichloroethane

Concen: 46.720 ug/l

RT: 2.87 min Scan# 227

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

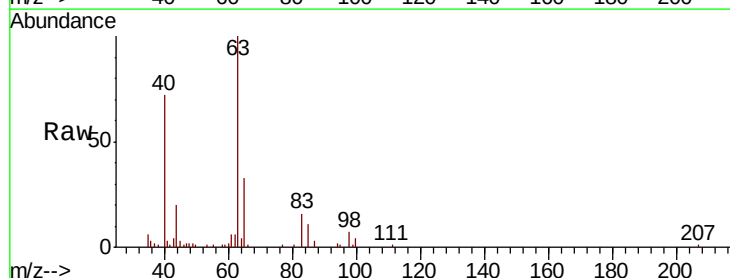
Tgt Ion: 63 Resp: 43392

Ion Ratio Lower Upper

63 100

98 7.2 2.7 8.1

100 3.5 1.7 5.1



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

20000

15000

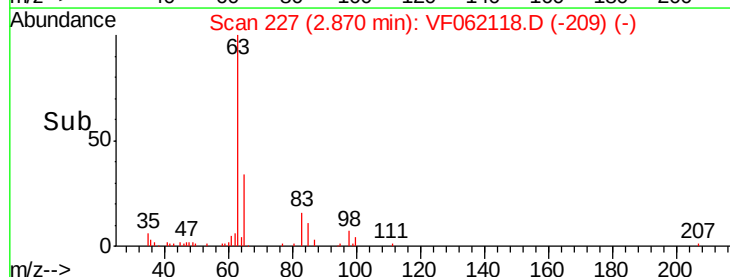
10000

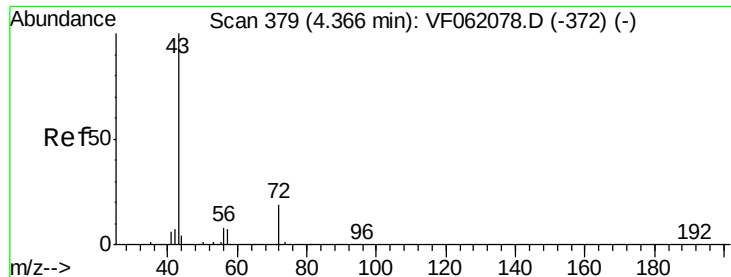
5000

0

Time-->

2.70 2.80 2.90 3.00 3.10





#25

2-Butanone

Concen: 136.114 ug/l

RT: 4.38 min Scan# 380

Delta R.T. 0.01 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

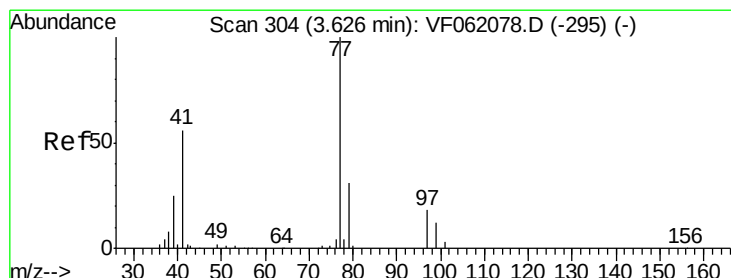
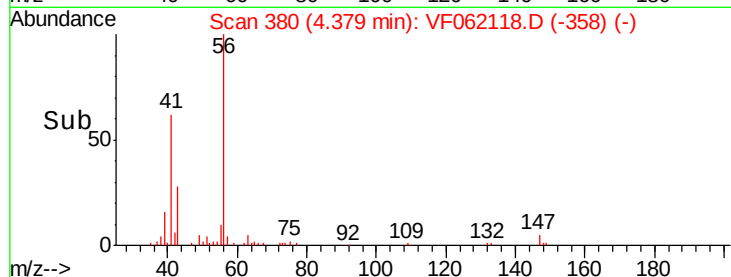
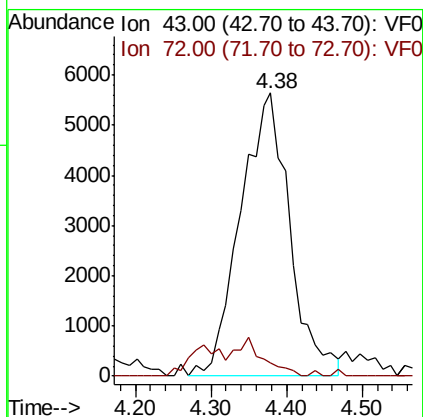
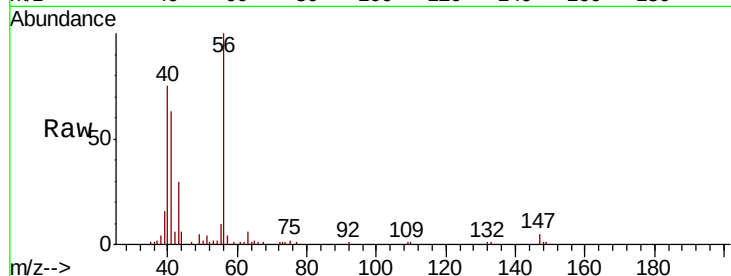
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 25533

Ion Ratio Lower Upper

43 100

72 4.7 16.7 25.1#



#26

2,2-Dichloropropane

Concen: 87.455 ug/l

RT: 3.60 min Scan# 301

Delta R.T. -0.03 min

Lab File: VF062118.D

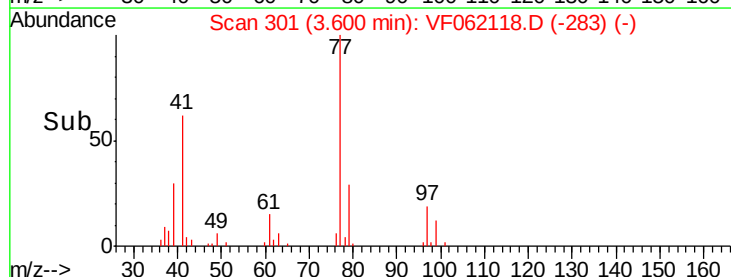
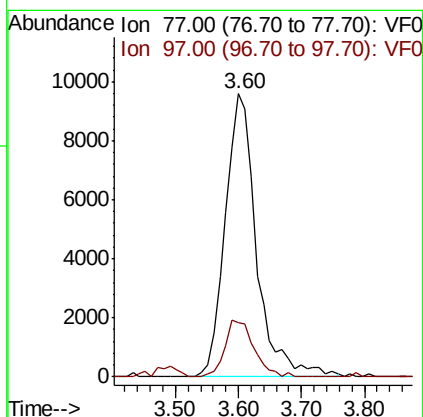
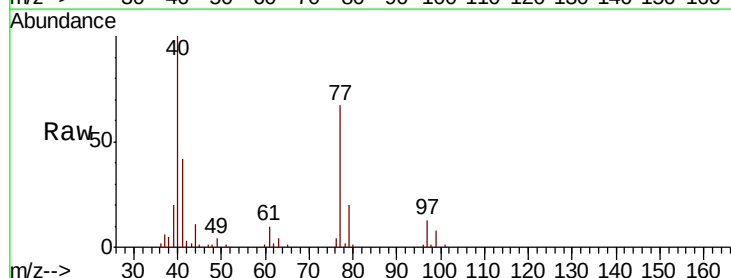
Acq: 23 Mar 2019 15:39

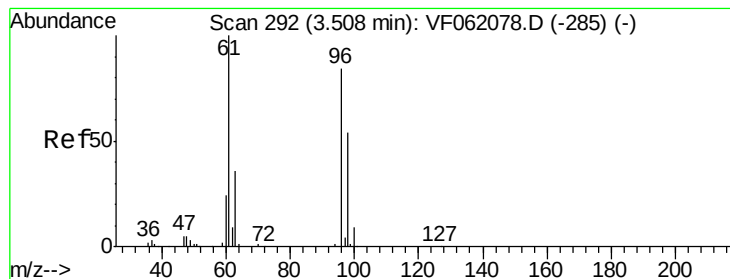
Tgt Ion: 77 Resp: 32933

Ion Ratio Lower Upper

77 100

97 19.2 10.3 30.9



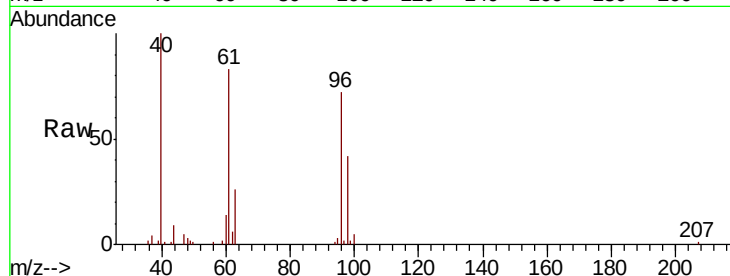


#27

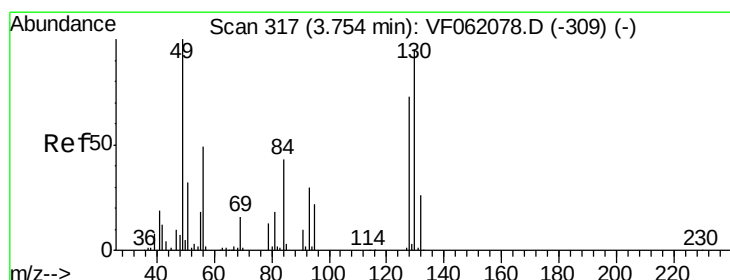
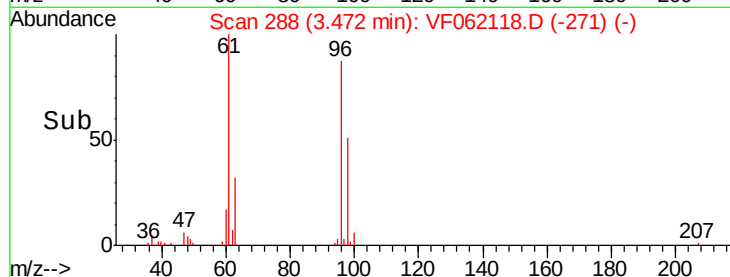
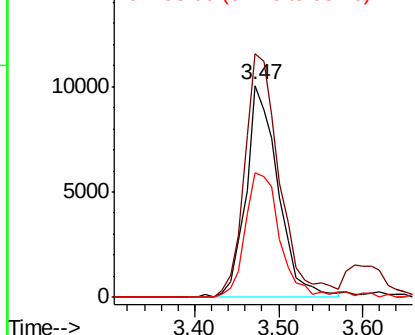
cis-1,2-Dichloroethene
 Concen: 38.098 ug/l
 RT: 3.47 min Scan# 288
 Delta R.T. -0.04 min
 Lab File: VF062118.D
 Acq: 23 Mar 2019 15:39

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion: 96 Resp: 26875
 Ion Ratio Lower Upper
 96 100
 61 115.1 0.0 239.0
 98 58.9 0.0 128.2



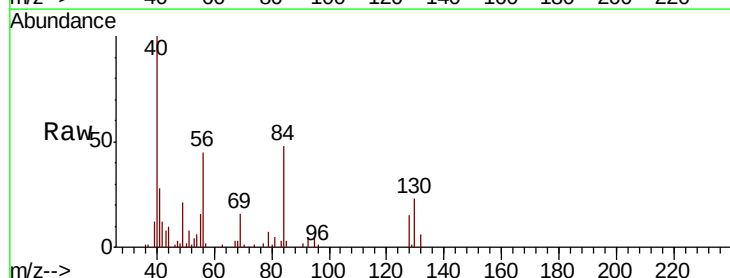
Abundance Ion 96.00 (95.70 to 96.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 98.00 (97.70 to 98.70): VF0



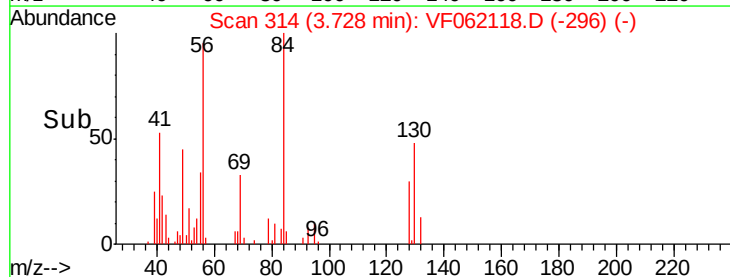
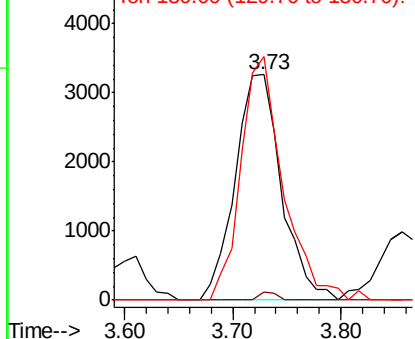
#28

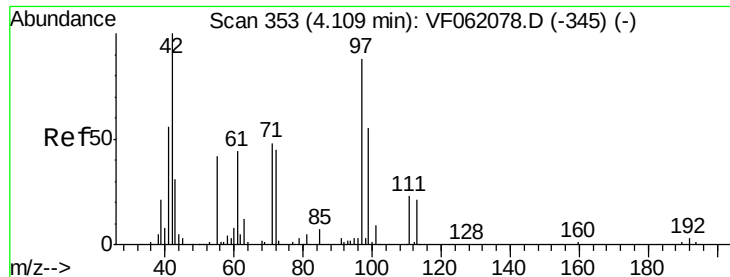
Bromochloromethane
 Concen: 25.707 ug/l
 RT: 3.73 min Scan# 314
 Delta R.T. -0.03 min
 Lab File: VF062118.D
 Acq: 23 Mar 2019 15:39

Tgt Ion: 49 Resp: 9755
 Ion Ratio Lower Upper
 49 100
 129 3.6 0.0 5.6
 130 107.9 75.5 113.3



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: 80.886 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

ClientSampleId :

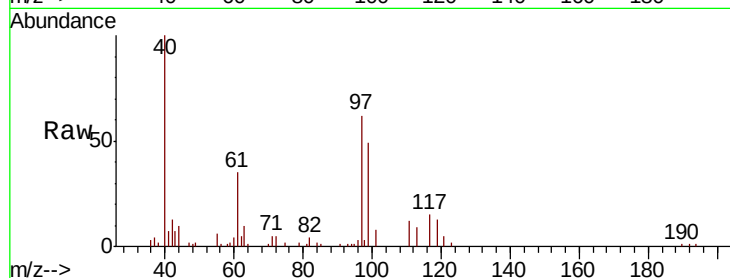
Tot Ion: 42 Resp: 6597

Ion Ratio Lower Upper

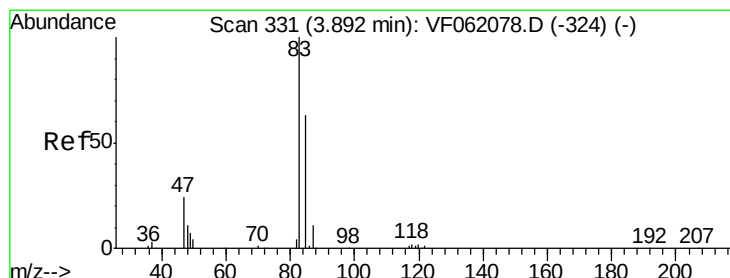
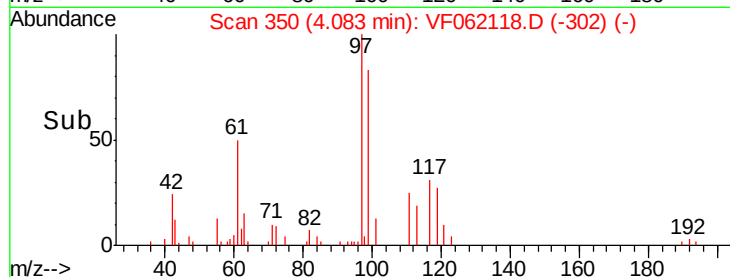
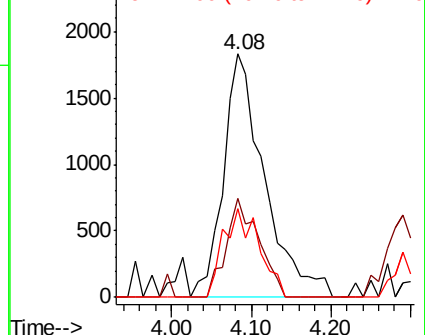
42 100

72 32.4 33.3 49.9#

71 32.0 35.0 52.4#



Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 39.710 ug/l

RT: 3.87 min Scan# 328

Delta R.T. -0.03 min

Lab File: VF062118.D

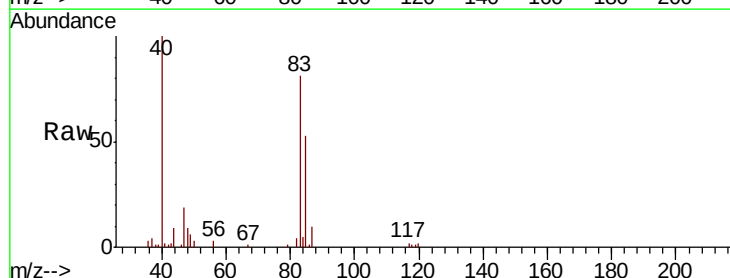
Acq: 23 Mar 2019 15:39

Tgt Ion: 83 Resp: 38977

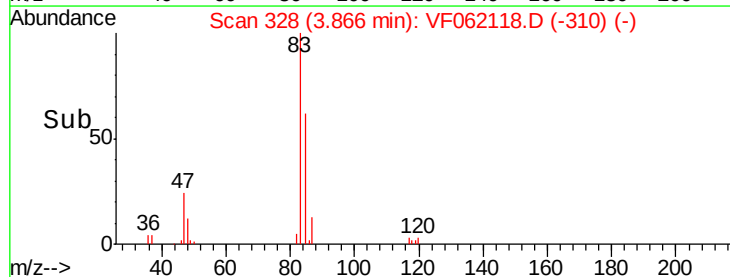
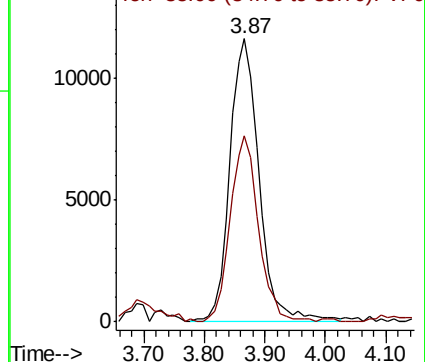
Ion Ratio Lower Upper

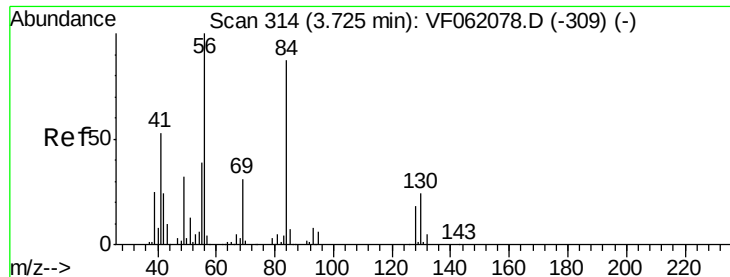
83 100

85 65.9 51.5 77.3



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0

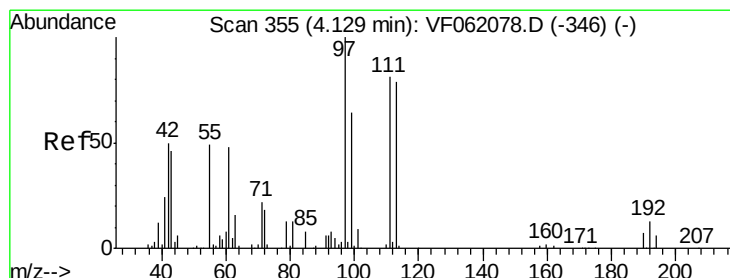
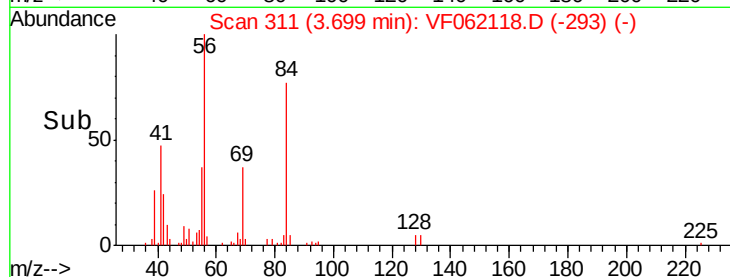
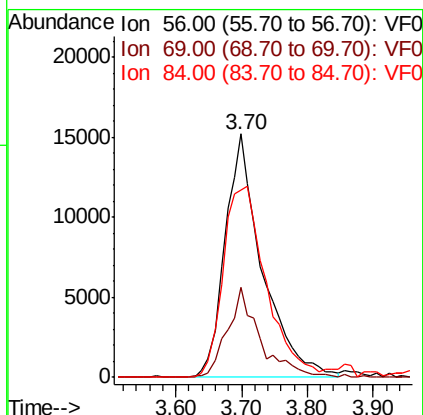
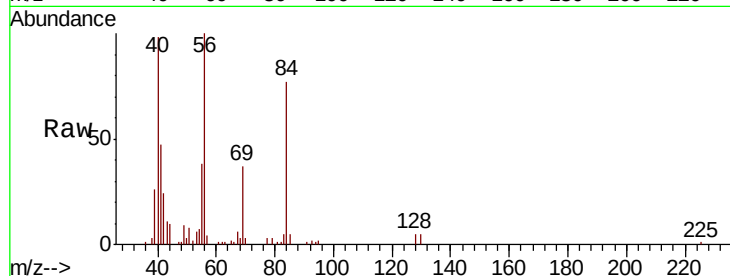




#31
Cyclohexane
Concen: 62.035 ug/l
RT: 3.70 min Scan# 311
Delta R.T. -0.03 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

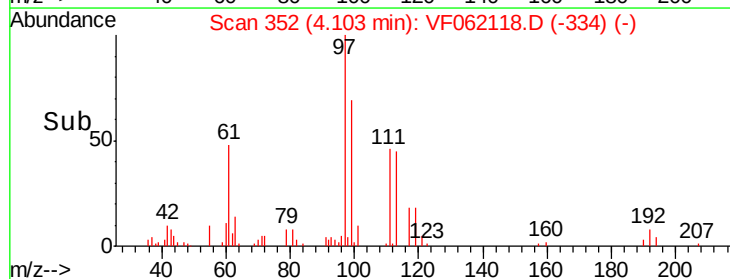
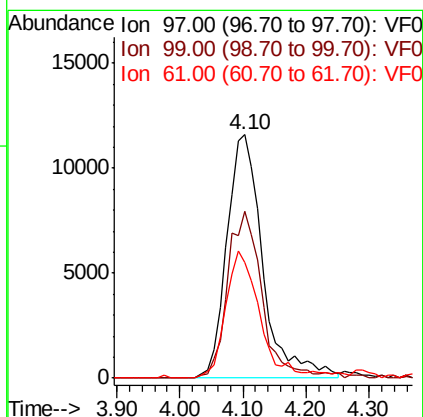
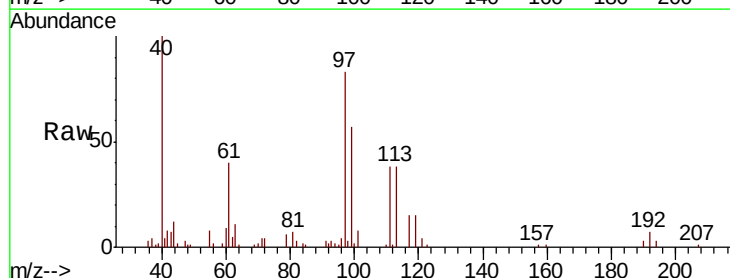
Instrument :
MSVOA_F
ClientSampleId :

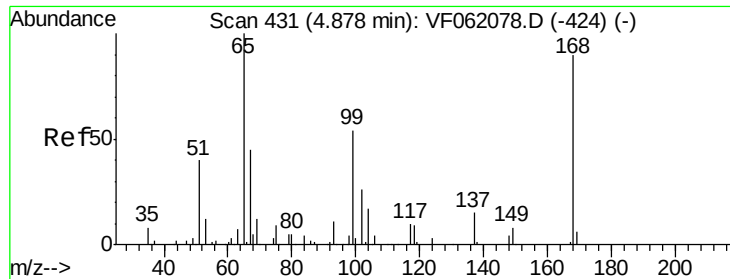
Tot Ion: 56 Resp: 60174
Ion Ratio Lower Upper
56 100
69 36.8 25.9 38.9
84 76.9 71.1 106.7



#32
1,1,1-Trichloroethane
Concen: 76.683 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.03 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Tgt Ion: 97 Resp: 45785
Ion Ratio Lower Upper
97 100
99 68.7 51.3 76.9
61 47.6 39.0 58.6

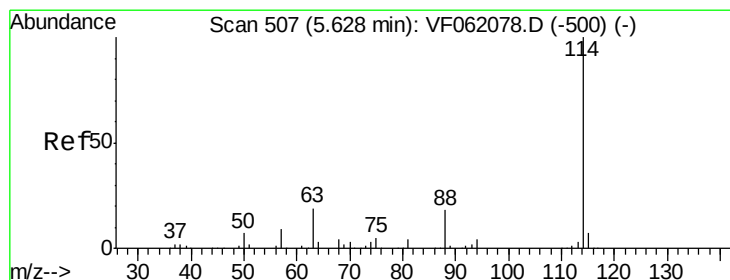
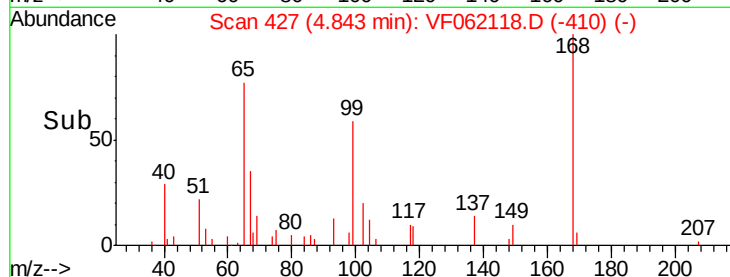
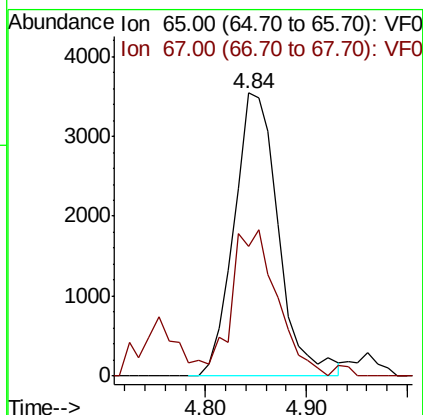
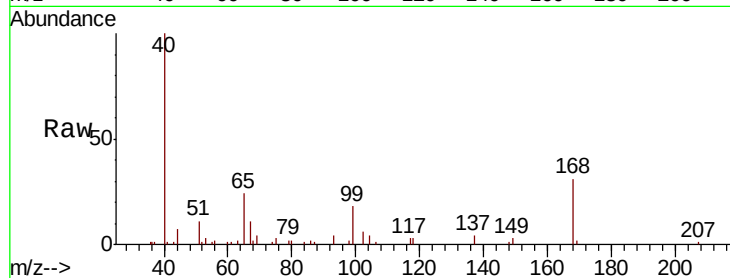




#33
 1,2-Dichloroethane-d4
 Concen: 25.367 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. -0.04 min
 Lab File: VF062118.D
 Acq: 23 Mar 2019 15:39

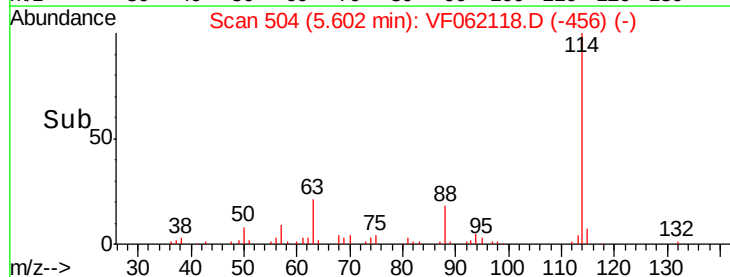
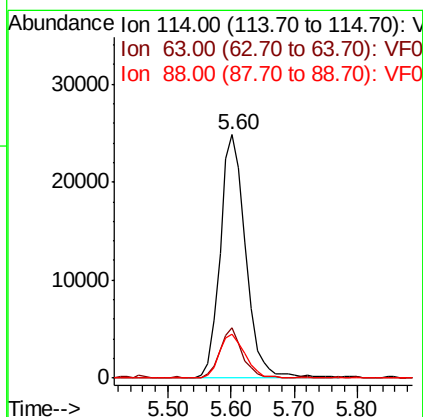
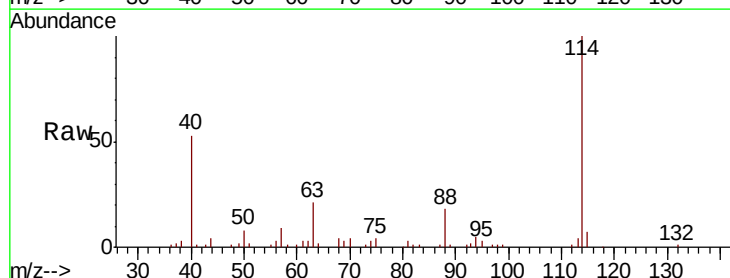
Instrument :
 MSVOA_F
 ClientSampled :

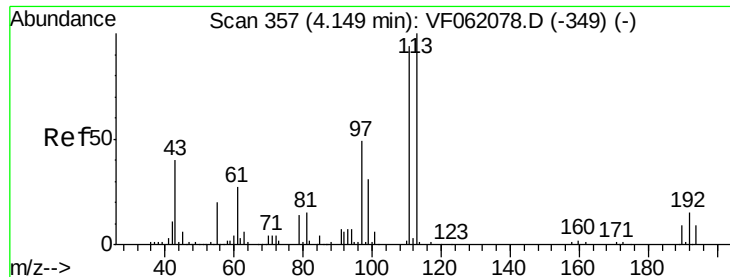
Tot Ion: 65 Resp: 10830
 Ion Ratio Lower Upper
 65 100
 67 45.9 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. -0.03 min
 Lab File: VF062118.D
 Acq: 23 Mar 2019 15:39

Tgt Ion: 114 Resp: 69956
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 37.8
 88 18.2 0.0 36.4





#35

Dibromofluoromethane

Concen: 44.414 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.04 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

ClientSampleId :

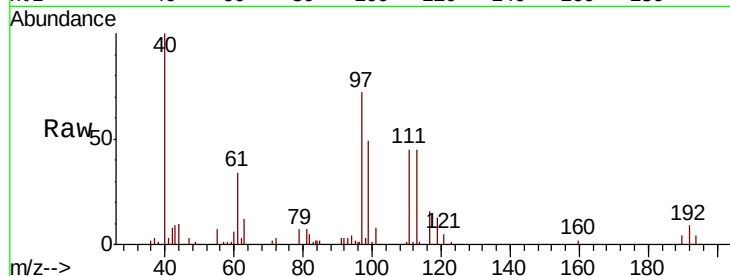
Tot Ion:113 Resp: 21018

Ion Ratio Lower Upper

113 100

111 99.7 75.4 113.0

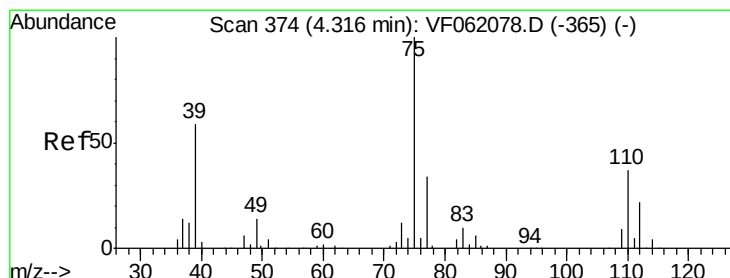
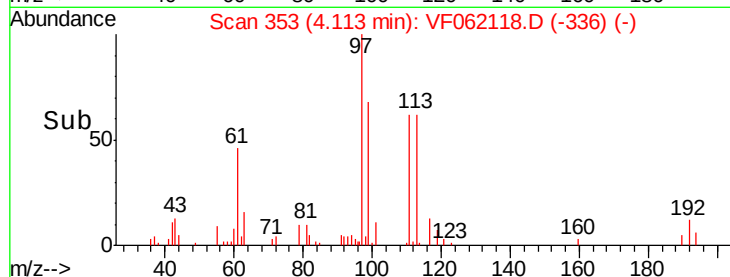
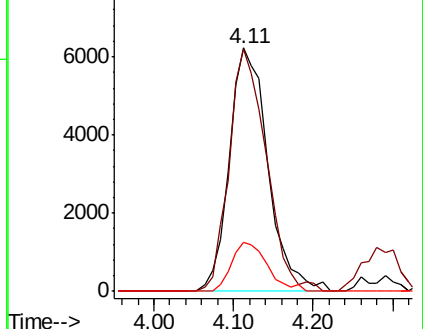
192 19.9 12.3 18.5#



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: 73.403 ug/l

RT: 4.29 min Scan# 371

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

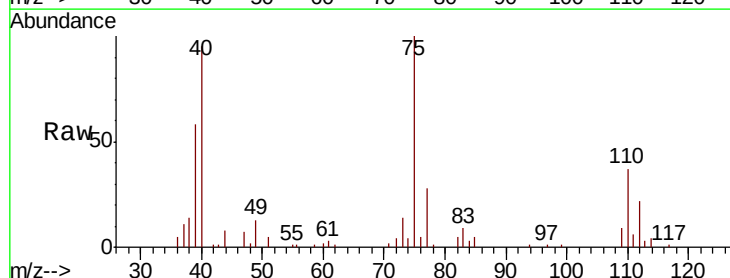
Tgt Ion: 75 Resp: 48911

Ion Ratio Lower Upper

75 100

110 37.2 18.5 55.5

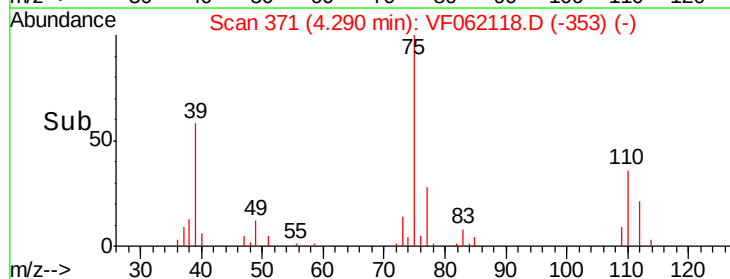
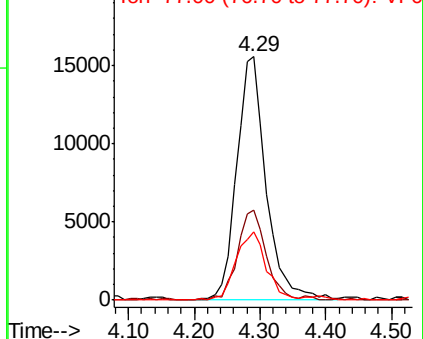
77 28.0 27.4 41.0

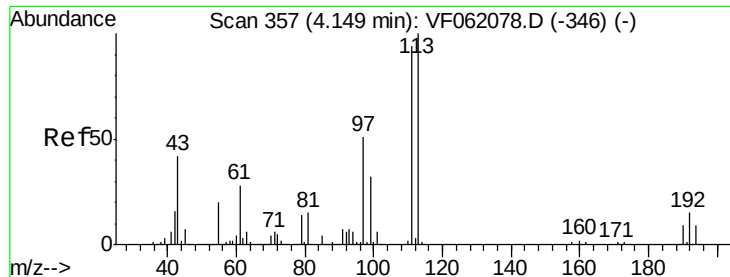


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0

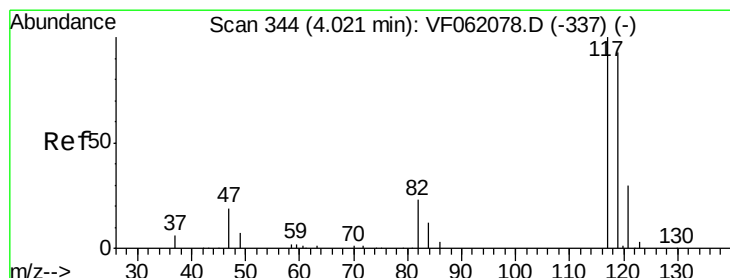
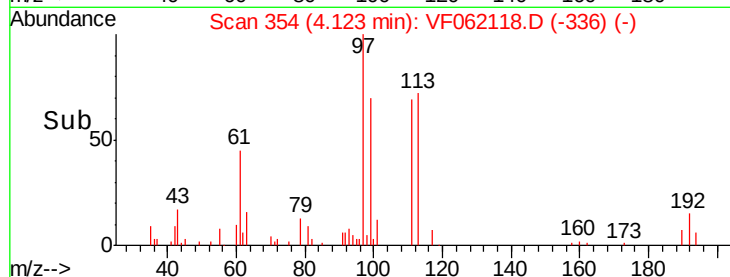
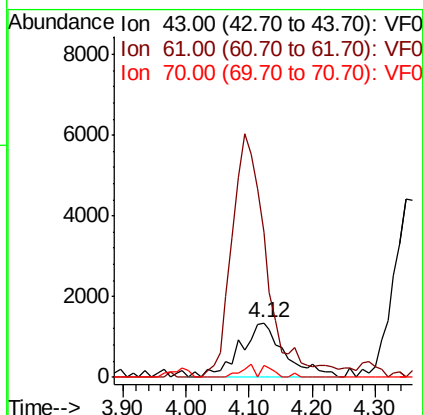
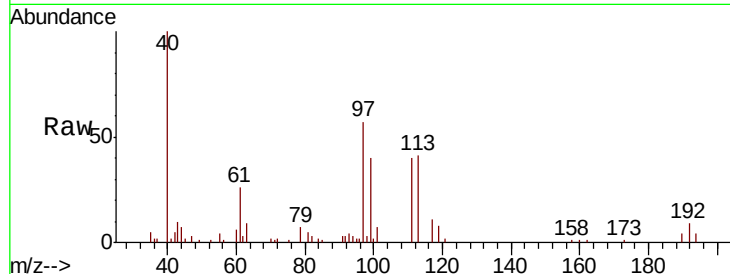




#37
Ethyl Acetate
Concen: 23.018 ug/l
RT: 4.12 min Scan# 354
Delta R.T. -0.03 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

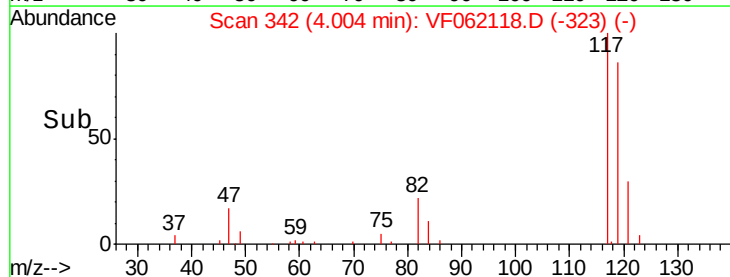
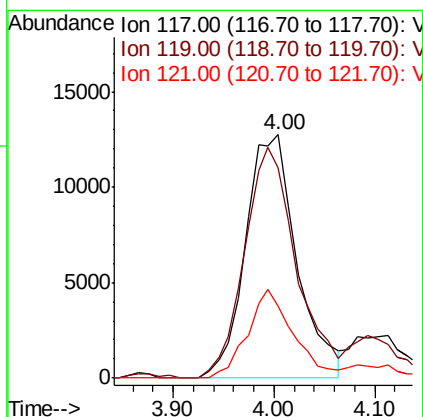
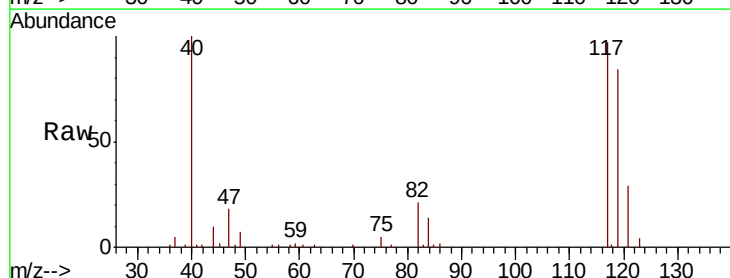
Instrument :
MSVOA_F
ClientSampled :

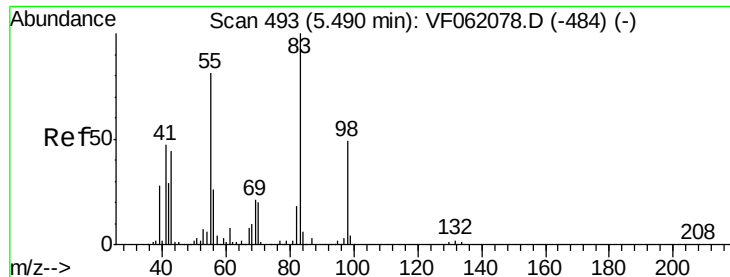
Tot Ion: 43 Resp: 6703
Ion Ratio Lower Upper
43 100
61 266.9 53.6 80.4#
70 23.1 9.0 13.6#



#38
Carbon Tetrachloride
Concen: 99.540 ug/l
RT: 4.00 min Scan# 342
Delta R.T. -0.02 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Tgt Ion: 117 Resp: 45206
Ion Ratio Lower Upper
117 100
119 86.4 74.7 112.1
121 29.6 23.6 35.4

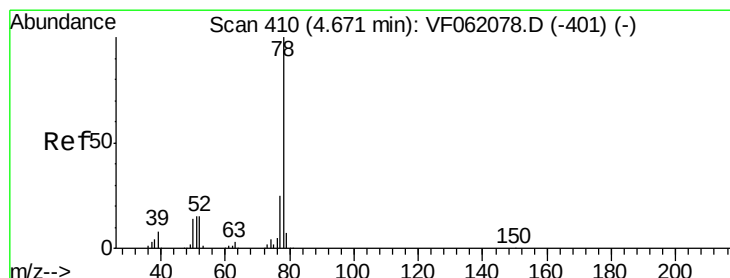
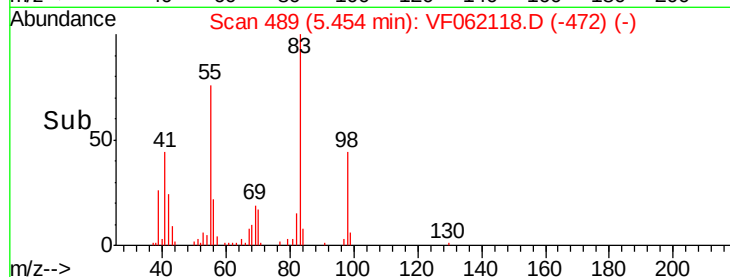
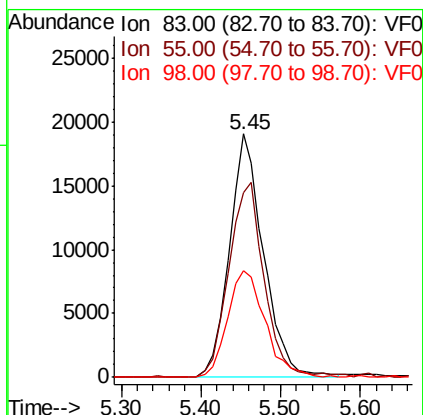
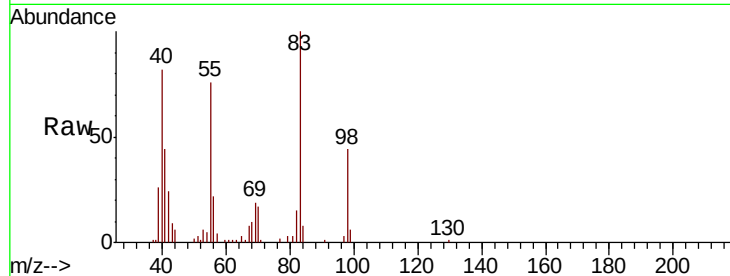




#39
Methylvlcyclohexane
Concen: 73.627 ug/l
RT: 5.45 min Scan# 489
Delta R.T. -0.04 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

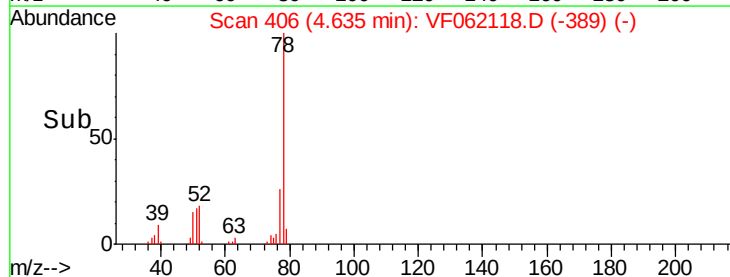
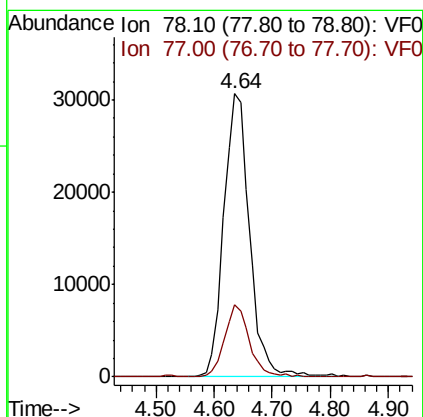
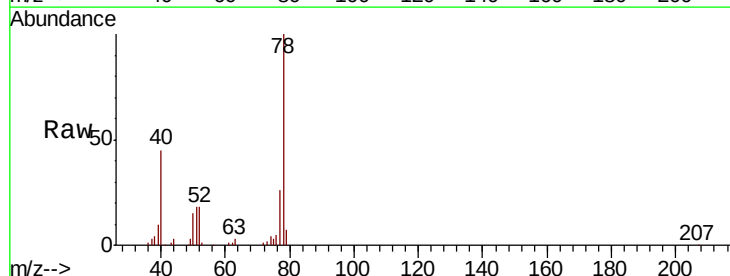
Instrument :
MSVOA_F
ClientSampled :

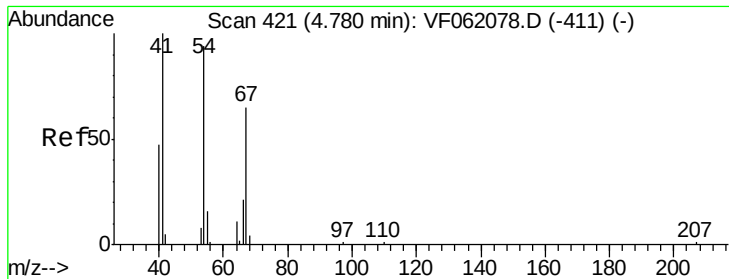
Tot Ion	83.00	Resp:	56939
Ion	Ratio	Lower	Upper
83	100		
55	75.8	64.5	96.7
98	44.0	39.1	58.7



#40
Benzene
Concen: 52.794 ug/l
RT: 4.64 min Scan# 406
Delta R.T. -0.04 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Tgt Ion	78	Resp:	94306
Ion	Ratio	Lower	Upper
78	100		
77	25.7	19.8	29.6

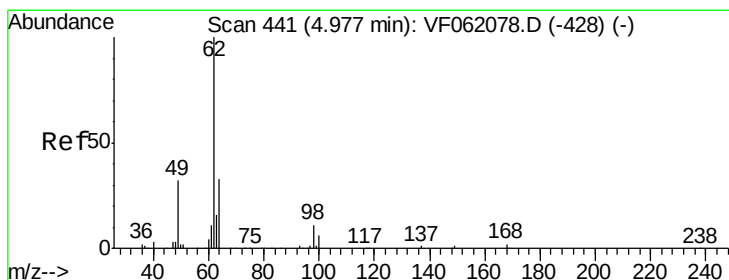
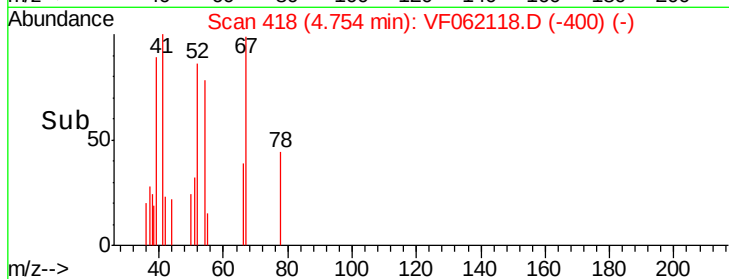
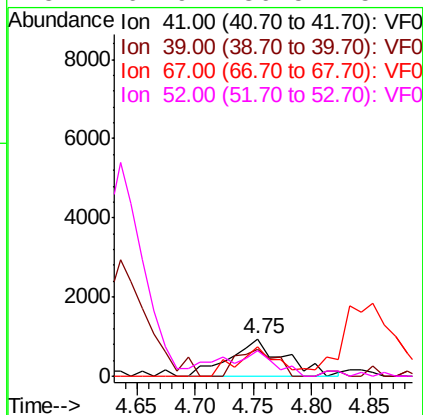
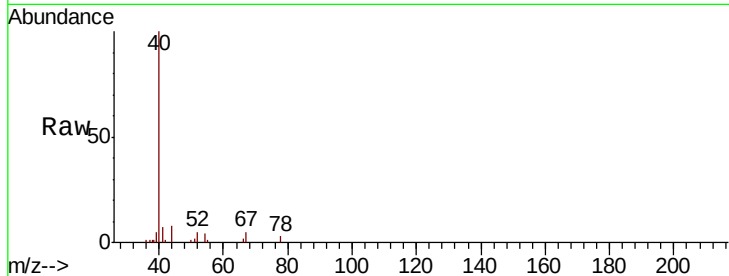




#41
Methacrylonitrile
Concen: 19.801 ug/l
RT: 4.75 min Scan# 418
Delta R.T. -0.03 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

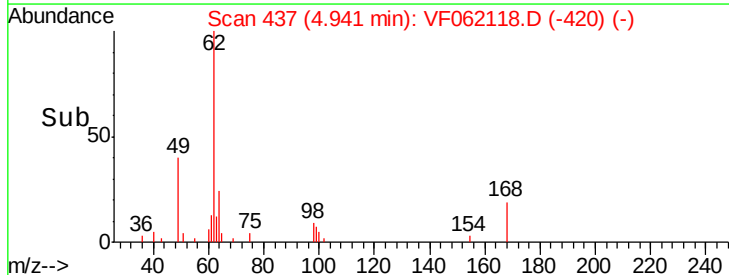
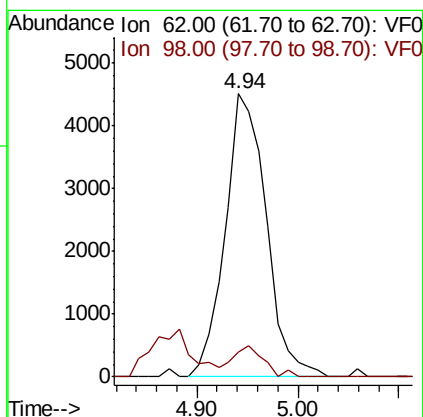
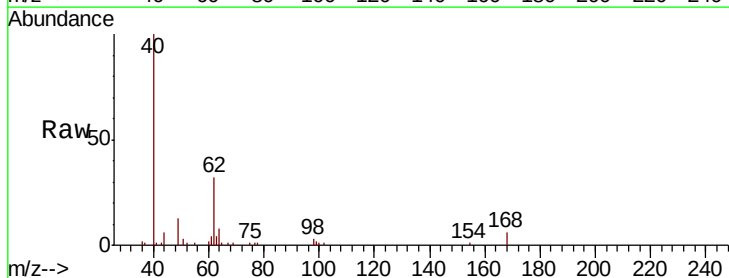
Instrument :
MSVOA_F
ClientSampleId :

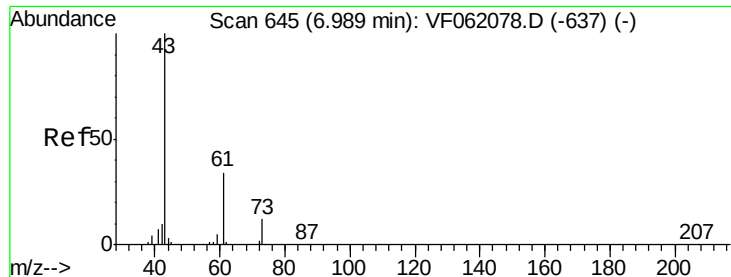
Tot Ion:	41	Resp:	3051
Ion	Ratio	Lower	Upper
41	100		
39	70.3	43.5	65.3#
67	78.2	51.6	77.4#
52	67.9	36.5	54.7#



#42
1,2-Dichloroethane
Concen: 30.224 ug/l
RT: 4.94 min Scan# 437
Delta R.T. -0.04 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Tgt Ion:	62	Resp:	12767
Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	23.2

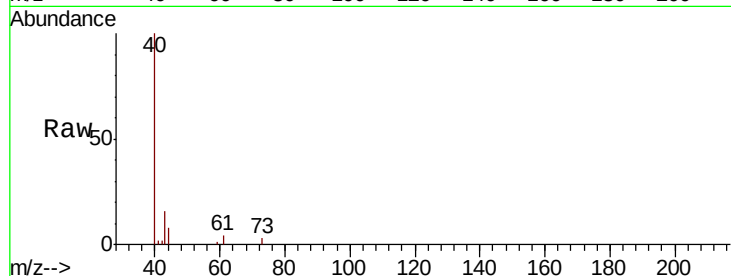




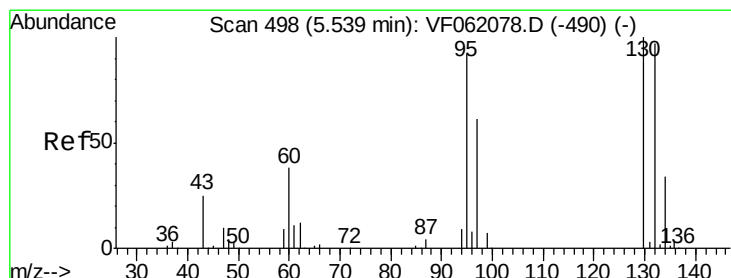
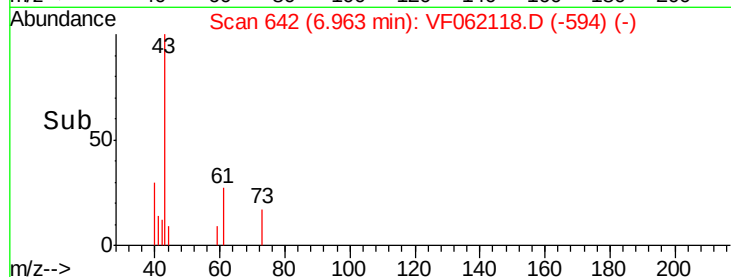
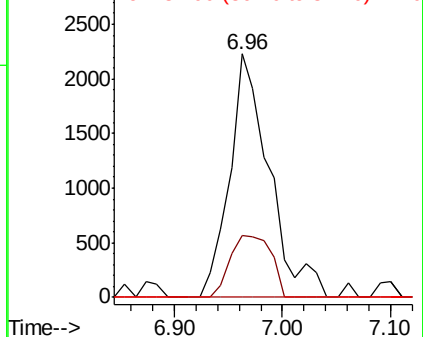
#43
Isopropyl Acetate
Concen: 16.126 ug/l
RT: 6.96 min Scan# 642
Delta R.T. -0.03 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 5687
Ion Ratio Lower Upper
43 100
61 25.4 27.0 40.4#
87 0.0 0.4 0.6#

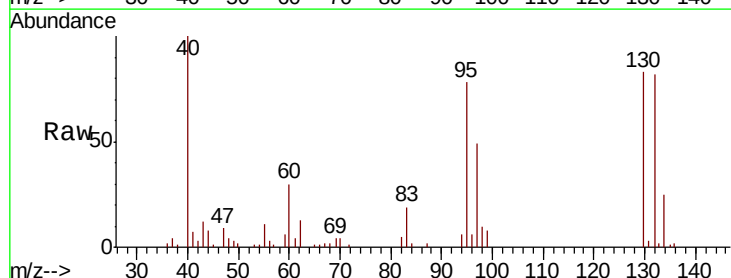


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 87.00 (86.70 to 87.70): VF0

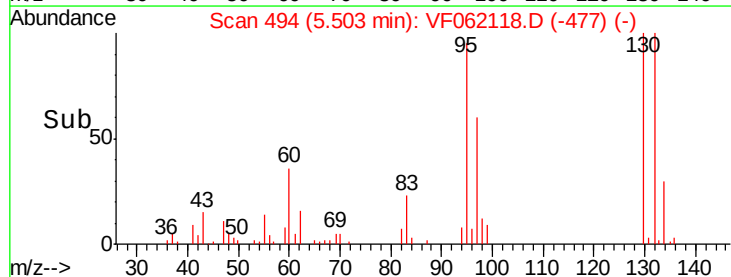
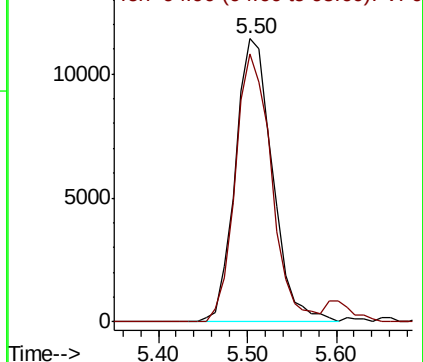


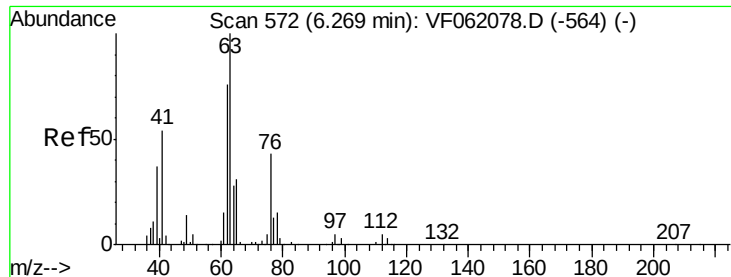
#44
Trichloroethene
Concen: 60.592 ug/l
RT: 5.50 min Scan# 494
Delta R.T. -0.04 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Tgt Ion:130 Resp: 33091
Ion Ratio Lower Upper
130 100
95 94.8 0.0 183.4



Abundance Ion 129.90 (129.60 to 130.60): V
Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 38.120 ug/l

RT: 6.23 min Scan# 568

Delta R.T. -0.04 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

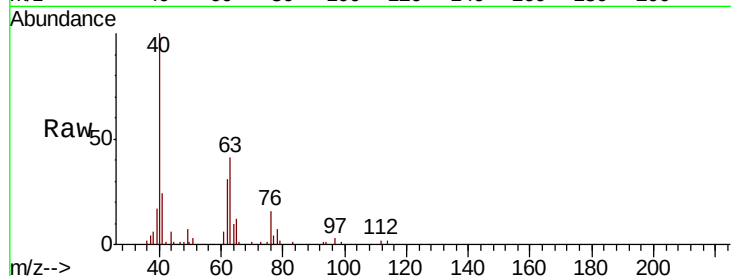
ClientSampleId :

Tot Ion: 63 Resp: 16241

Ion Ratio Lower Upper

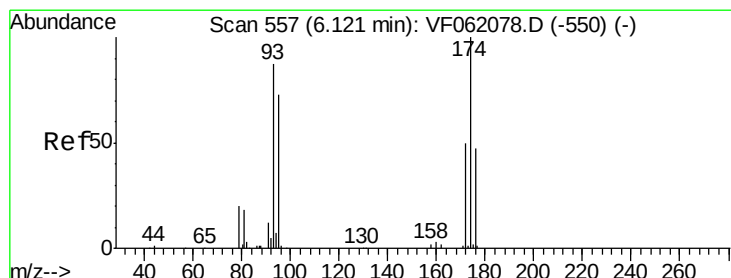
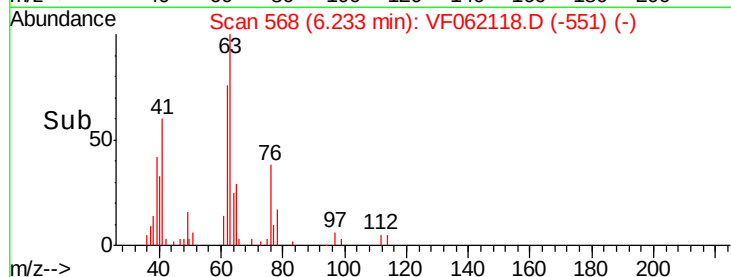
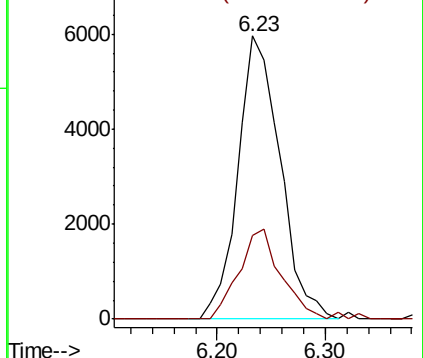
63 100

65 29.4 24.9 37.3



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 22.960 ug/l

RT: 6.08 min Scan# 553

Delta R.T. -0.04 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

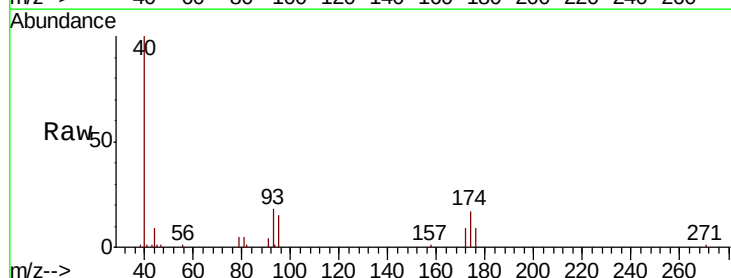
Tgt Ion: 93 Resp: 5981

Ion Ratio Lower Upper

93 100

95 76.5 67.4 101.2

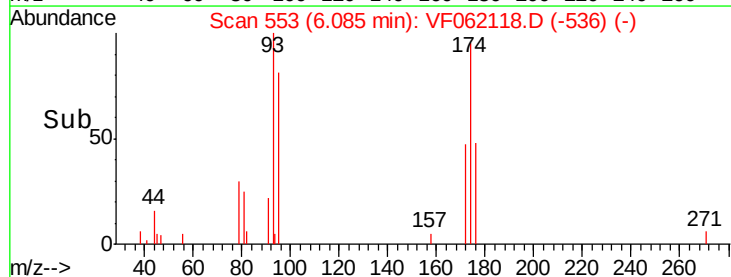
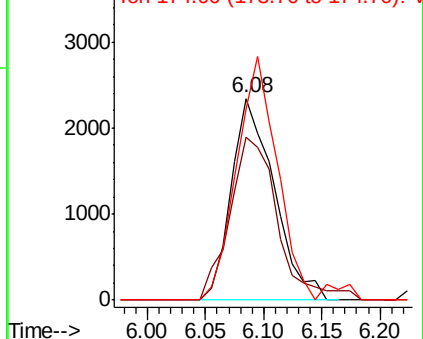
174 90.0 92.0 138.0#

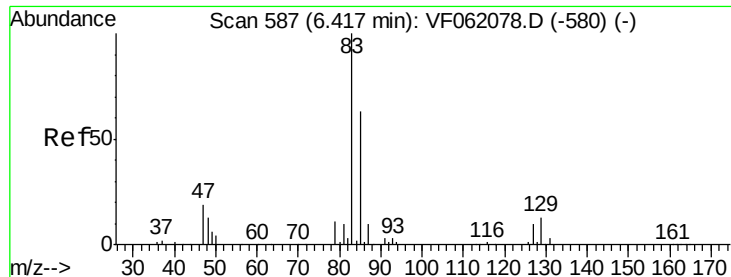


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 36.457 ug/l

RT: 6.38 min Scan# 583

Delta R.T. -0.04 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

ClientSampleId :

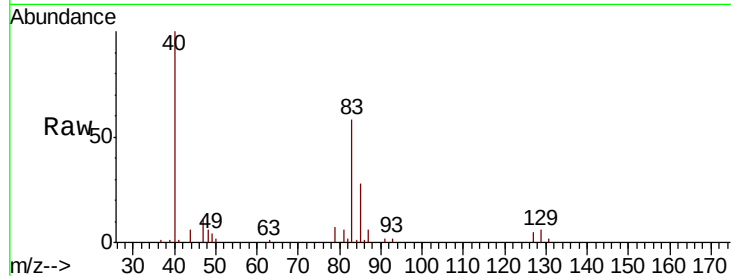
Tot Ion: 83 Resp: 21036

Ion Ratio Lower Upper

83 100

85 47.6 50.7 76.1#

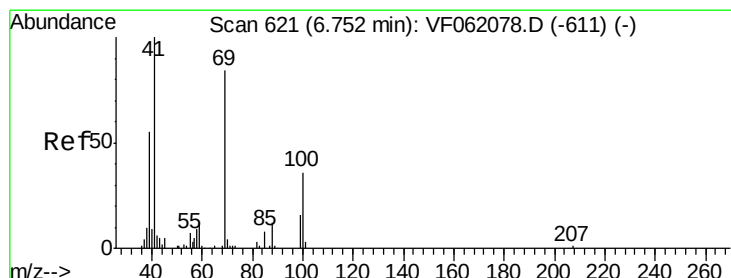
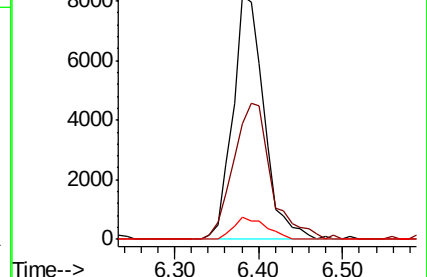
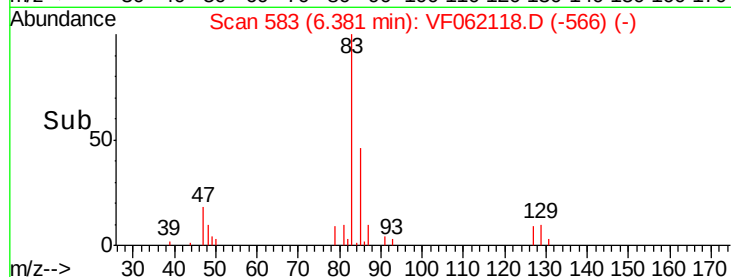
127 9.1 7.8 11.6



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: 19.731 ug/l

RT: 6.72 min Scan# 617

Delta R.T. -0.04 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

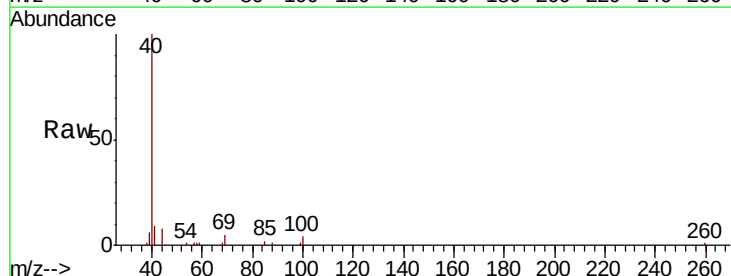
Tgt Ion: 41 Resp: 3962

Ion Ratio Lower Upper

41 100

69 56.3 66.6 100.0#

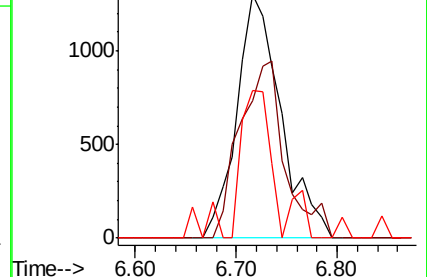
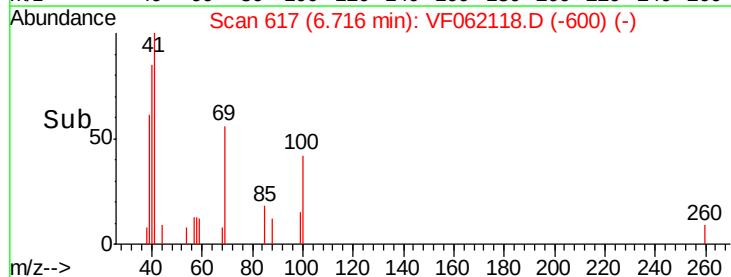
39 60.5 43.6 65.4

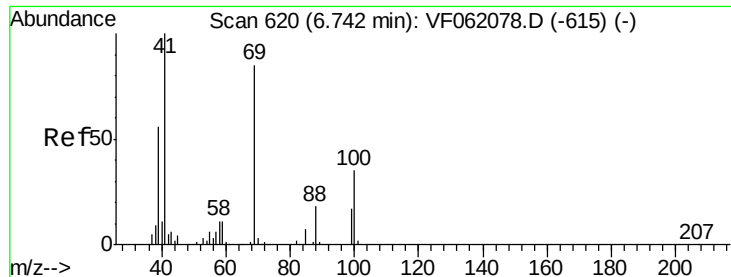


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 327.482 ug/l

RT: 6.71 min Scan# 616

Delta R.T. -0.04 min

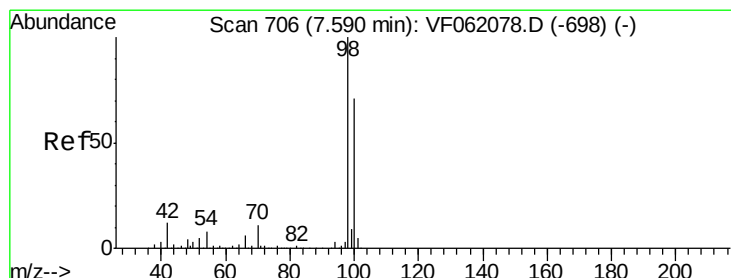
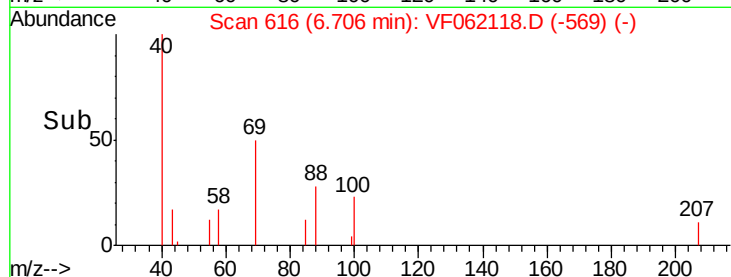
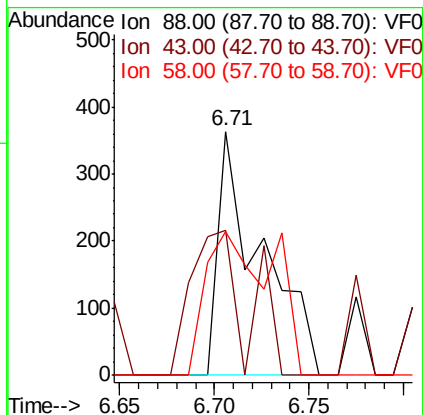
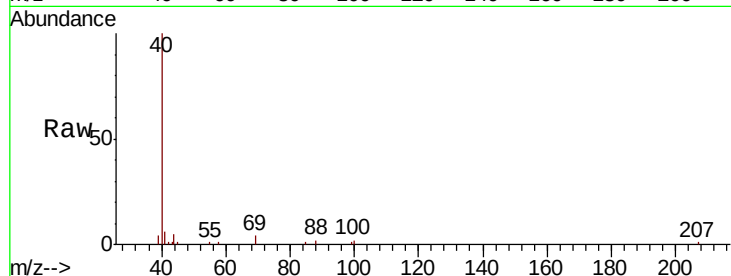
Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 88 Resp: 577

Ion	Ratio	Lower	Upper
88	100		
43	59.5	35.0	52.4#
58	59.2	49.9	74.9



#50

Toluene-d8

Concen: 49.927 ug/l

RT: 7.55 min Scan# 702

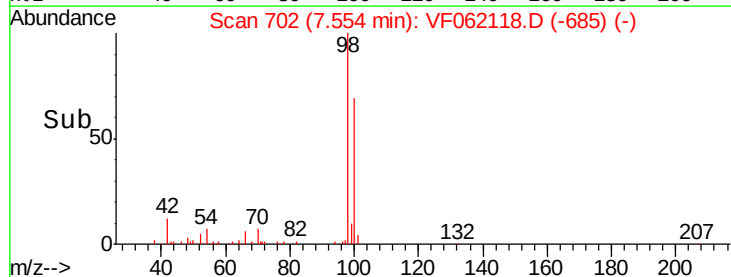
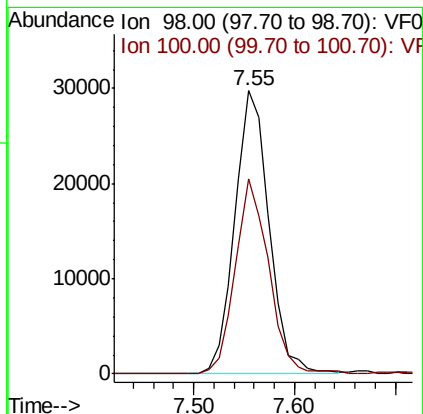
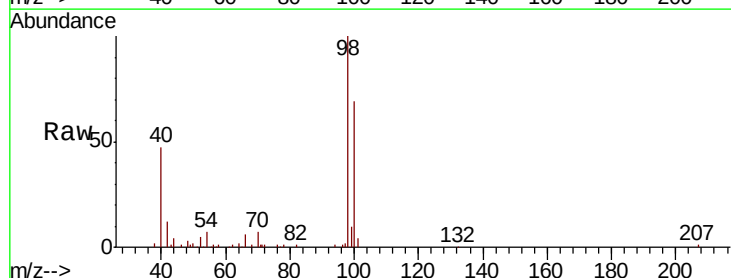
Delta R.T. -0.04 min

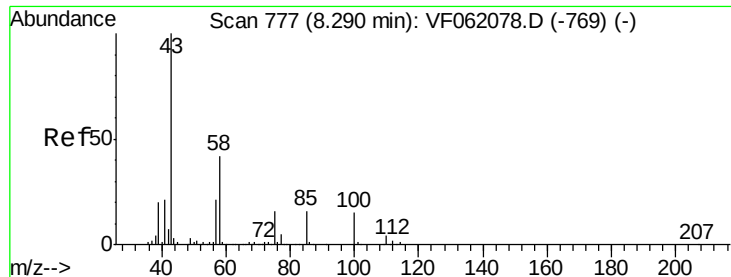
Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Tgt Ion: 98 Resp: 70526

Ion	Ratio	Lower	Upper
98	100		
100	69.1	57.0	85.6





#51

4-Methyl-2-Pentanone

Concen: 74.152 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

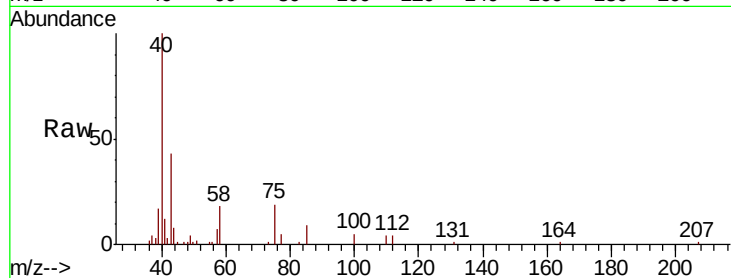
ClientSampleId :

Tot Ion: 43 Resp: 17503

Ion Ratio Lower Upper

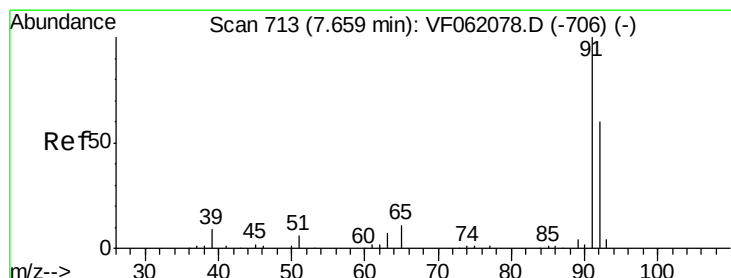
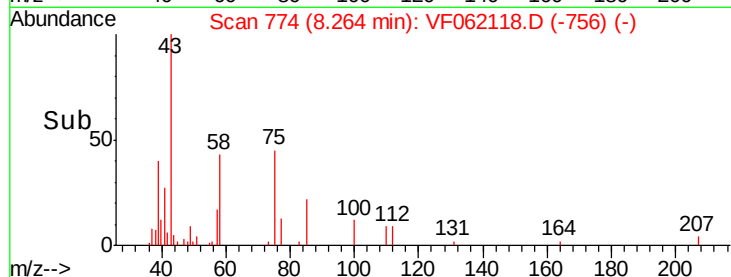
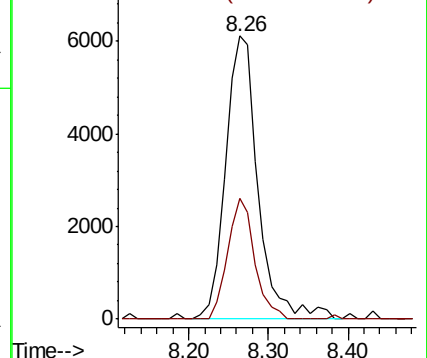
43 100

58 42.8 33.8 50.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 56.163 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.04 min

Lab File: VF062118.D

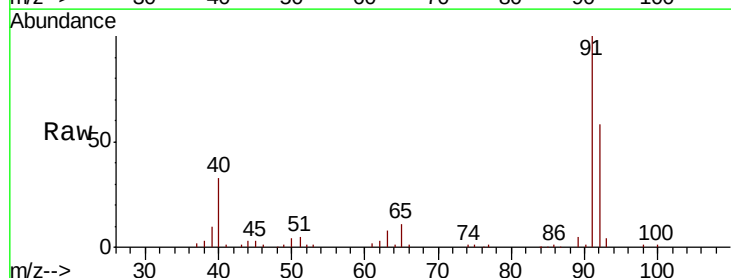
Acq: 23 Mar 2019 15:39

Tgt Ion: 92 Resp: 58108

Ion Ratio Lower Upper

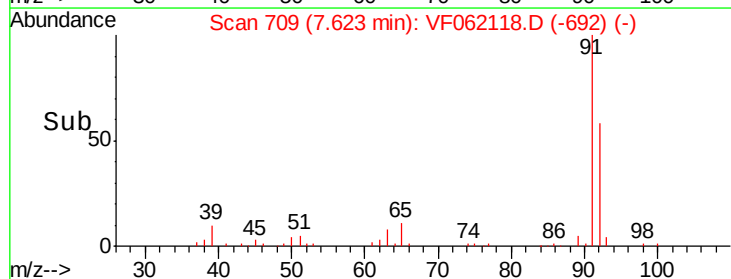
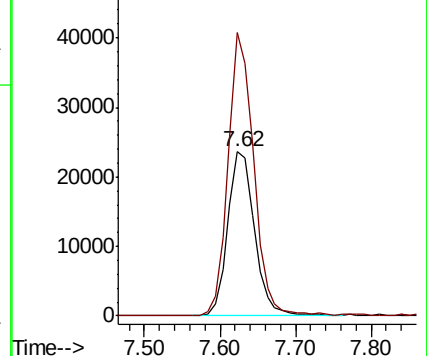
92 100

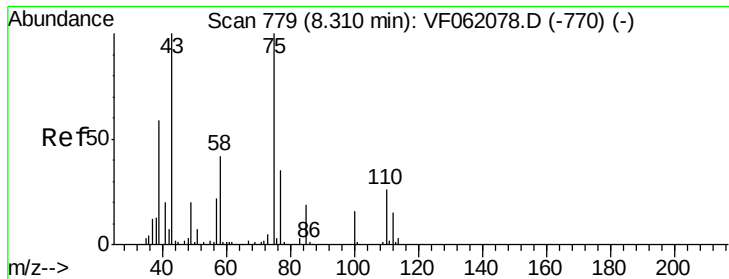
91 172.3 134.1 201.1



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: 26.720 ug/l

RT: 8.27 min Scan# 775

Delta R.T. -0.04 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

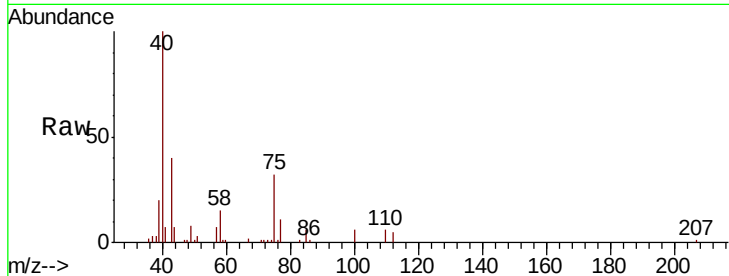
ClientSampled :

Tot Ion: 75 Resp: 12103

Ion Ratio Lower Upper

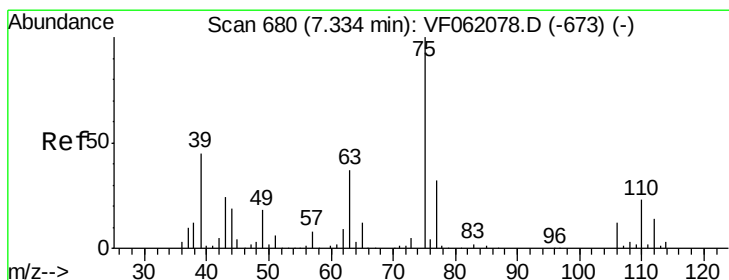
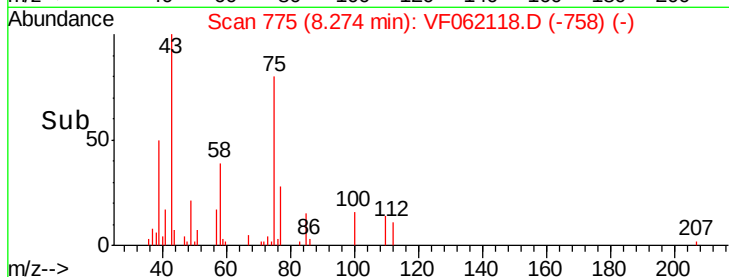
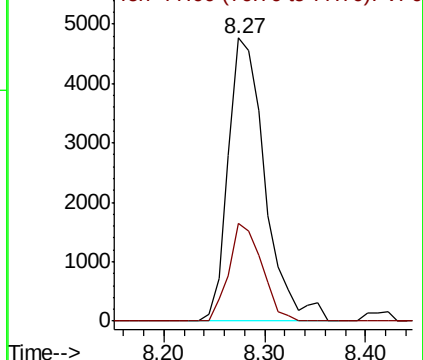
75 100

77 34.4 28.0 42.0



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: 30.996 ug/l

RT: 7.30 min Scan# 676

Delta R.T. -0.04 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

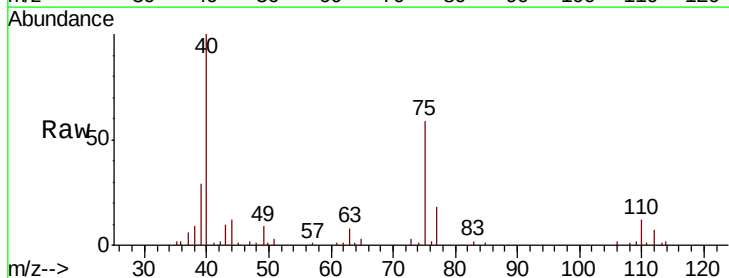
Tgt Ion: 75 Resp: 20089

Ion Ratio Lower Upper

75 100

77 30.9 25.8 38.6

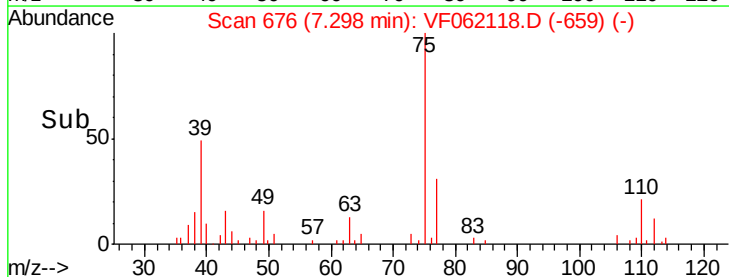
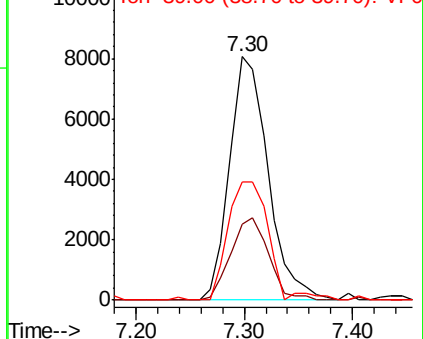
39 48.7 35.9 53.9

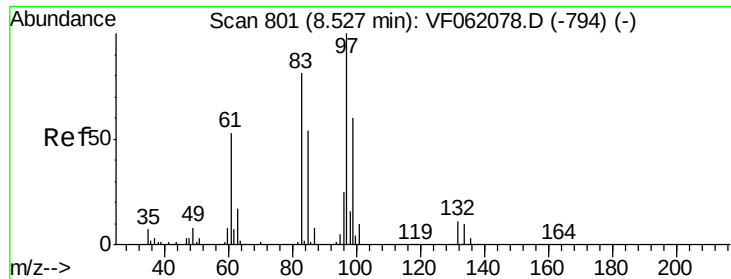


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

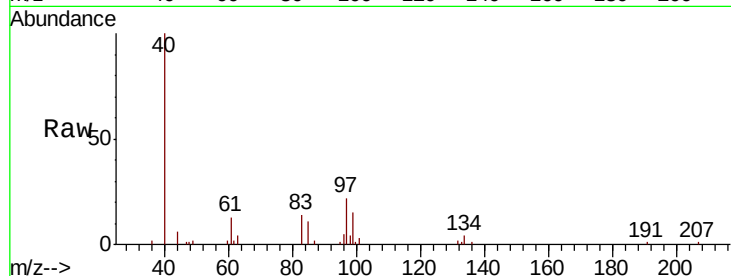




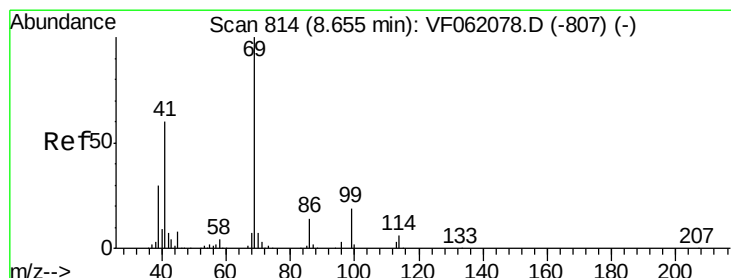
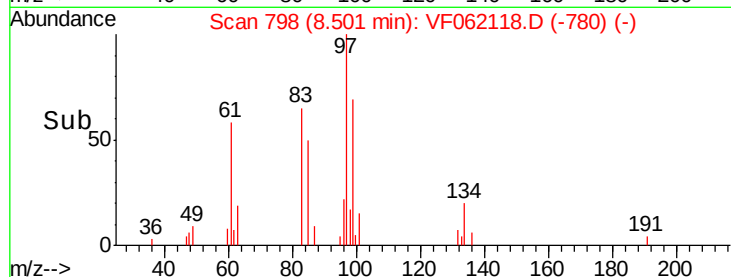
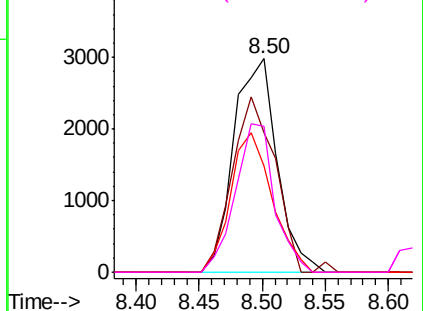
#55
 1,1,2-Trichloroethane
 Concen: 24.183 ug/l
 RT: 8.50 min Scan# 798
 Delta R.T. -0.03 min
 Lab File: VF062118.D
 Acq: 23 Mar 2019 15:39

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion:	97	Resp:	7107
Ion	Ratio	Lower	Upper
97	100		
83	65.3	64.6	97.0
85	49.7	43.6	65.4
99	68.6	48.2	72.2

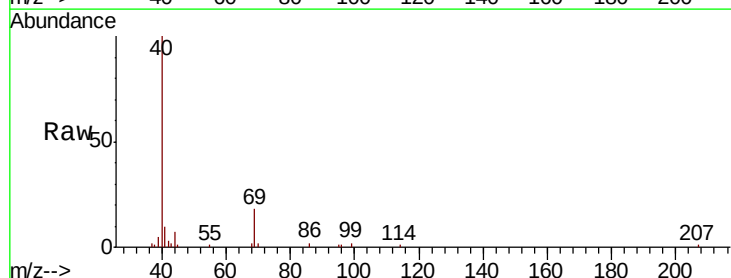


Abundance Ion 97.00 (96.70 to 97.70): VF0
 Ion 82.95 (82.65 to 83.65): VF0
 Ion 84.95 (84.65 to 85.65): VF0
 Ion 98.95 (98.65 to 99.65): VF0

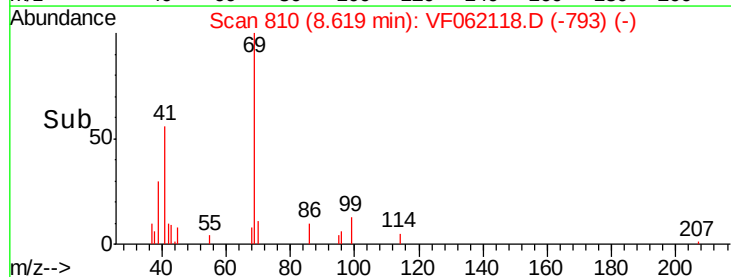
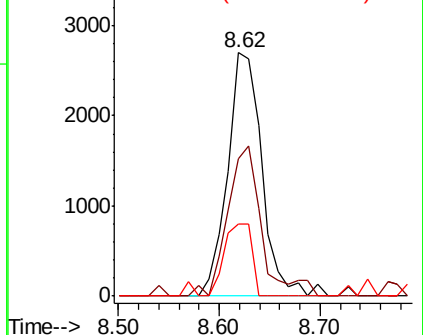


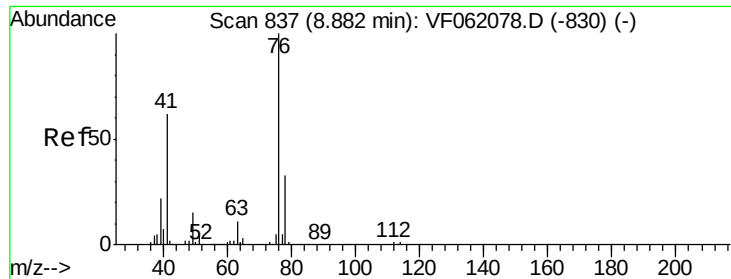
#56
 Ethyl methacrylate
 Concen: 18.306 ug/l
 RT: 8.62 min Scan# 810
 Delta R.T. -0.04 min
 Lab File: VF062118.D
 Acq: 23 Mar 2019 15:39

Tgt Ion:	69	Resp:	6416
Ion	Ratio	Lower	Upper
69	100		
41	56.4	48.2	72.2
39	29.6	24.0	36.0



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: 25.615 ug/l

RT: 8.86 min Scan# 834

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

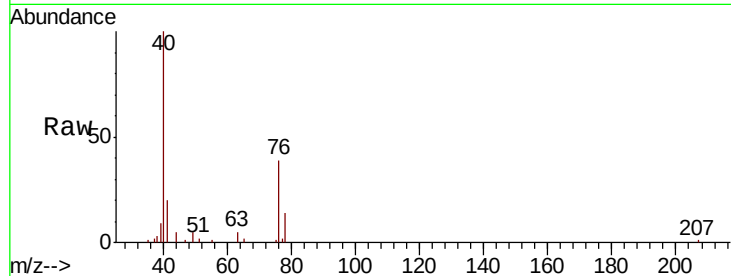
ClientSampleId :

Tot Ion: 76 Resp: 12494

Ion Ratio Lower Upper

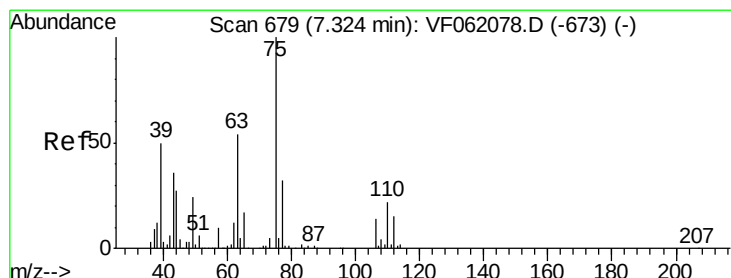
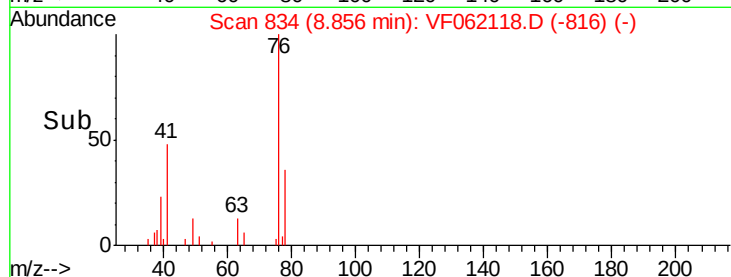
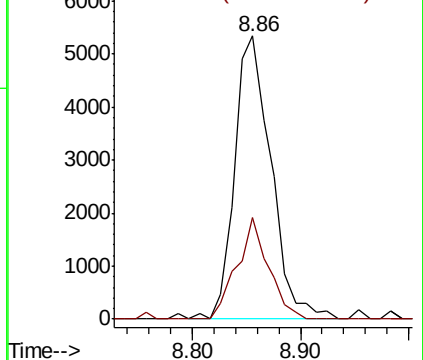
76 100

78 36.1 26.6 39.8



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: 50.240 ug/l

RT: 7.30 min Scan# 676

Delta R.T. -0.03 min

Lab File: VF062118.D

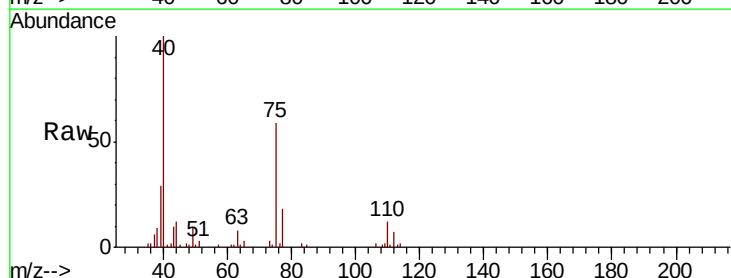
Acq: 23 Mar 2019 15:39

Tgt Ion: 63 Resp: 2672

Ion Ratio Lower Upper

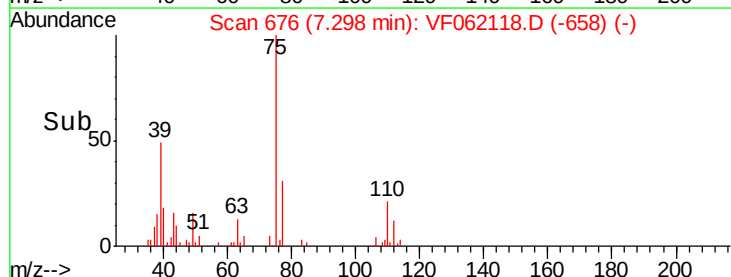
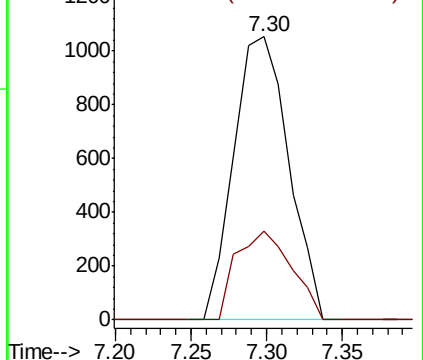
63 100

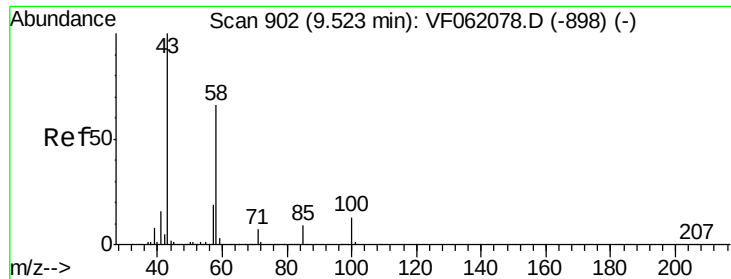
106 31.2 21.5 32.3



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

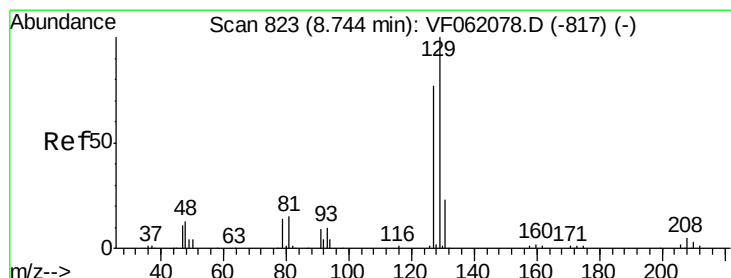
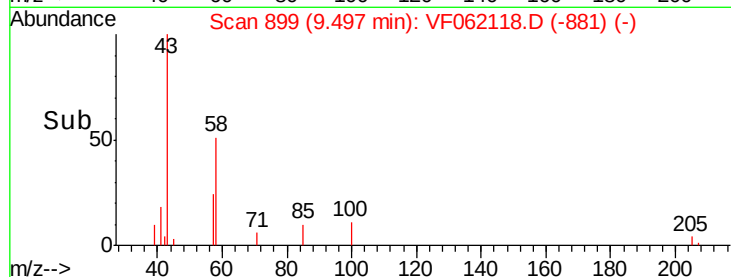
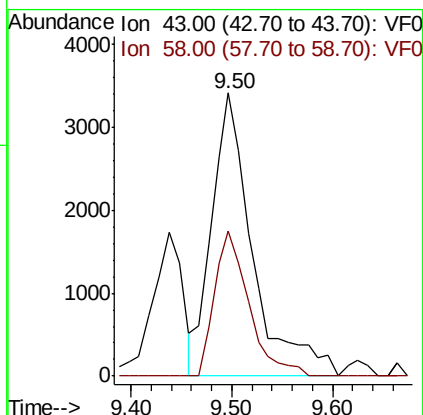
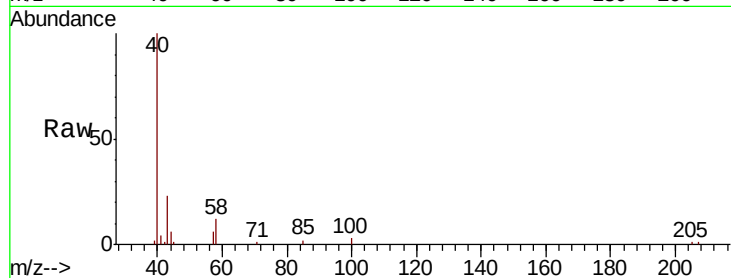




#59
2-Hexanone
Concen: 55.723 ug/l
RT: 9.50 min Scan# 899
Delta R.T. -0.03 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

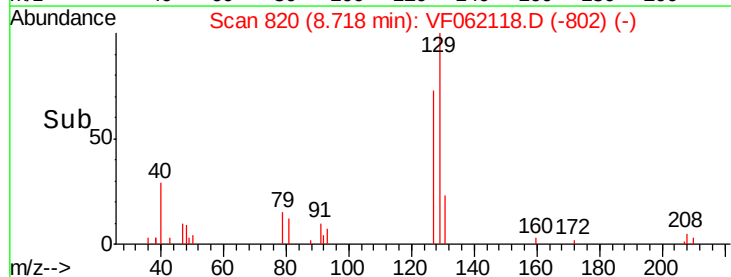
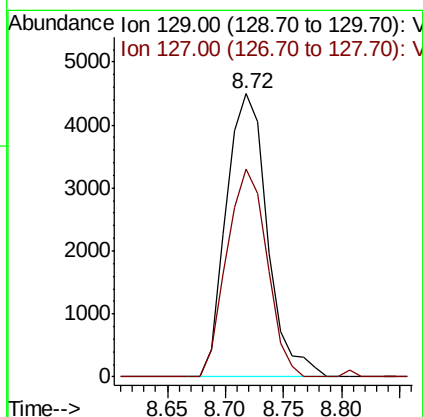
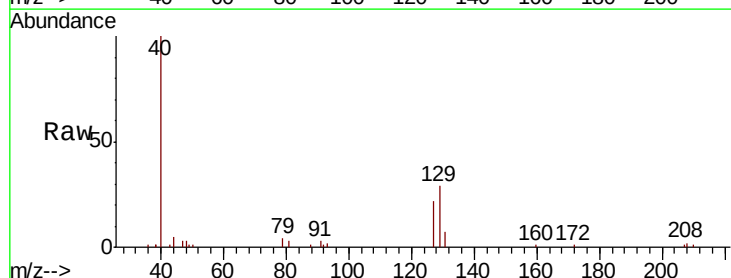
Instrument :
MSVOA_F
ClientSampled :

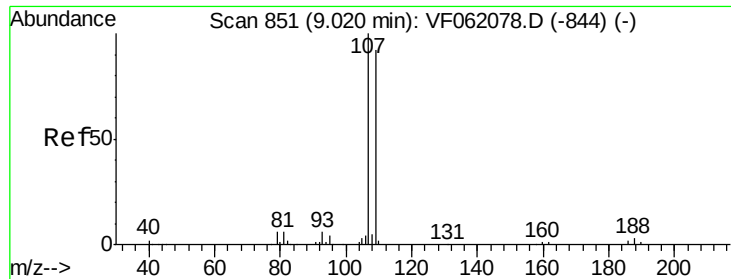
Tot Ion: 43 Resp: 9640
Ion Ratio Lower Upper
43 100
58 51.3 28.8 86.4



#60
Dibromochloromethane
Concen: 26.986 ug/l
RT: 8.72 min Scan# 820
Delta R.T. -0.03 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Tgt Ion: 129 Resp: 11025
Ion Ratio Lower Upper
129 100
127 73.4 38.7 116.1





#61

1,2-Dibromoethane

Concen: 20.884 ug/l

RT: 8.99 min Scan# 848

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

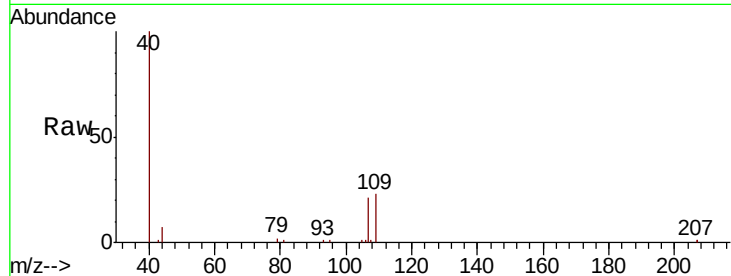
ClientSampleId :

Tot Ion:107 Resp: 6548

Ion Ratio Lower Upper

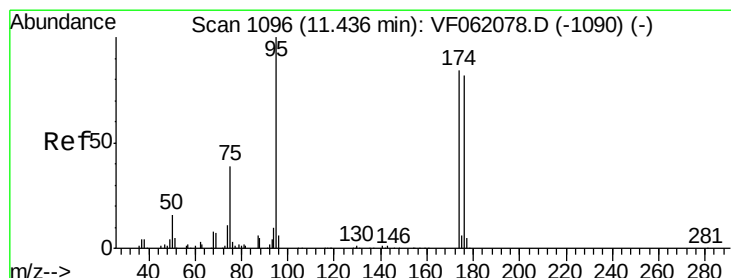
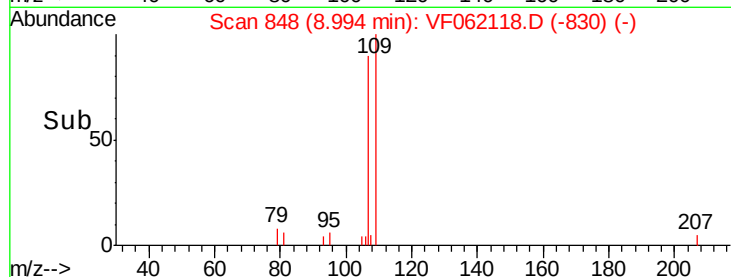
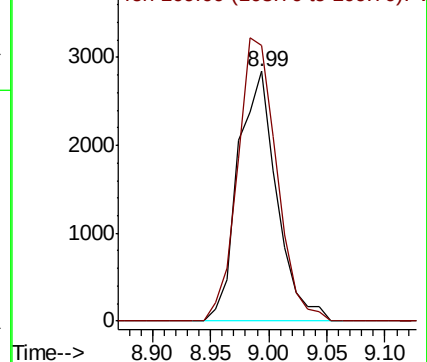
107 100

109 105.1 73.4 110.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 33.911 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

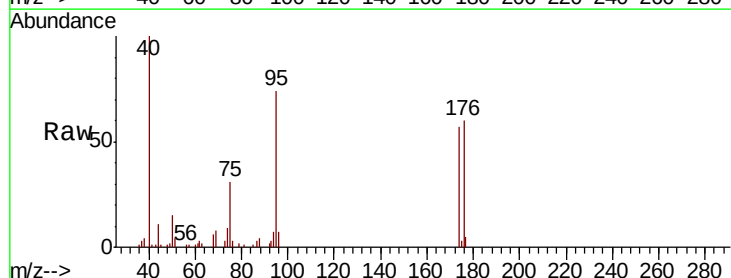
Tgt Ion: 95 Resp: 18493

Ion Ratio Lower Upper

95 100

174 77.0 0.0 168.2

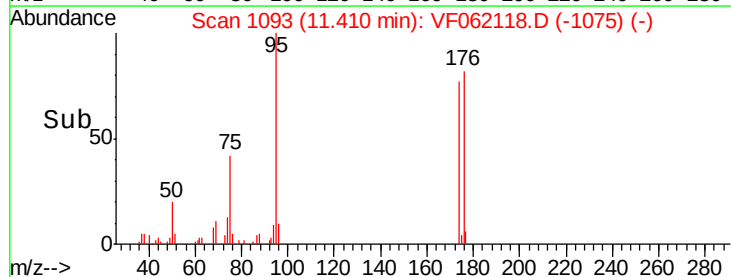
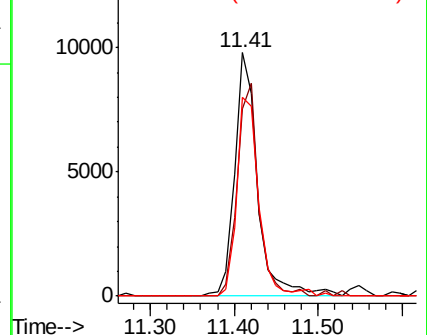
176 81.6 0.0 164.2

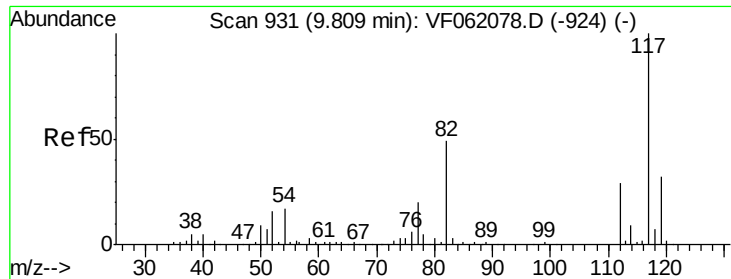


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

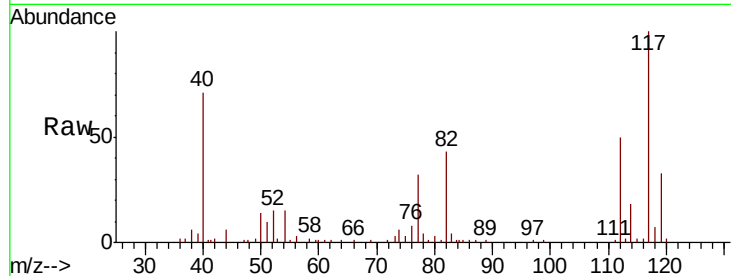




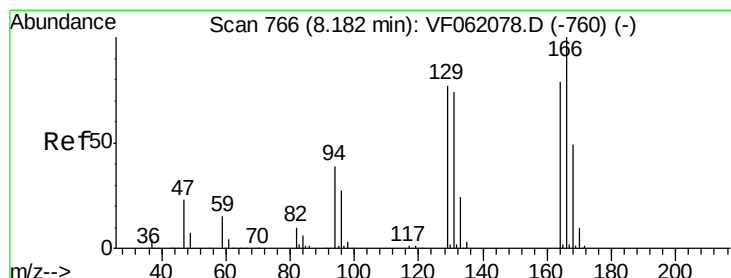
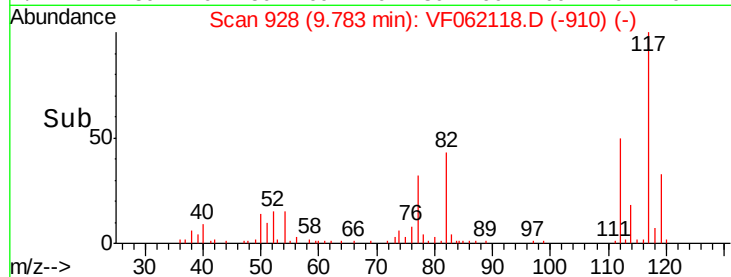
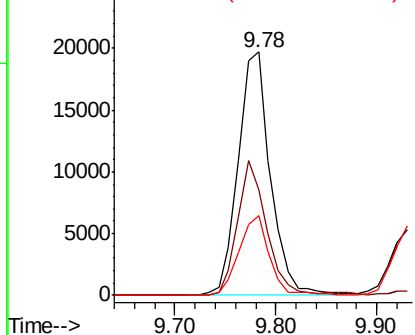
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.03 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:117 Resp: 43898
Ion Ratio Lower Upper
117 100
82 43.1 39.2 58.8
119 32.7 25.4 38.2

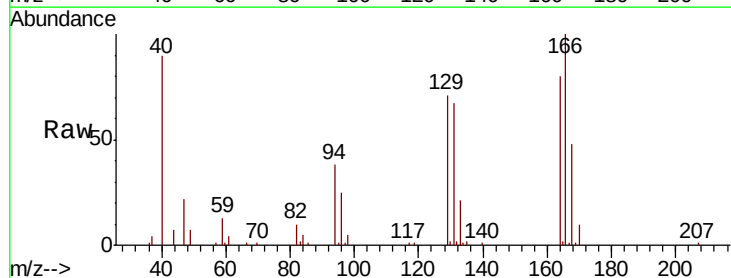


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

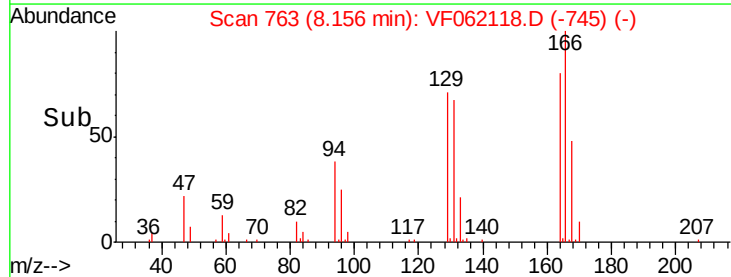
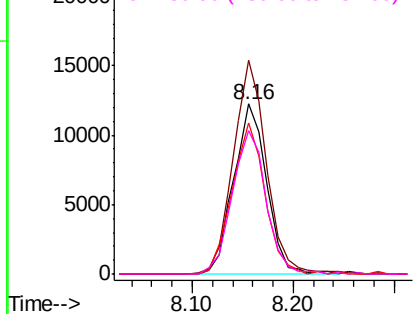


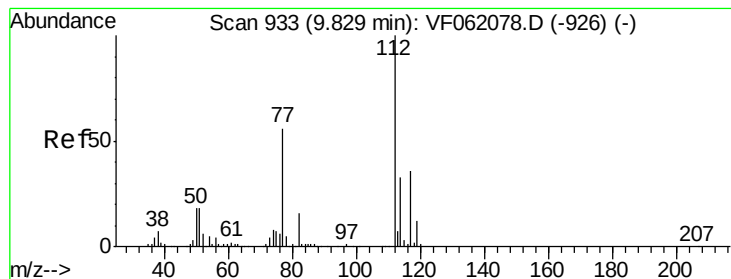
#64
Tetrachloroethene
Concen: 82.348 ug/l
RT: 8.16 min Scan# 763
Delta R.T. -0.03 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Tgt Ion:164 Resp: 27928
Ion Ratio Lower Upper
164 100
166 125.7 100.9 151.3
129 89.0 77.9 116.9
131 84.6 74.6 112.0



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V





#65

Chlorobenzene

Concen: 61.640 ug/l

RT: 9.80 min Scan# 930

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

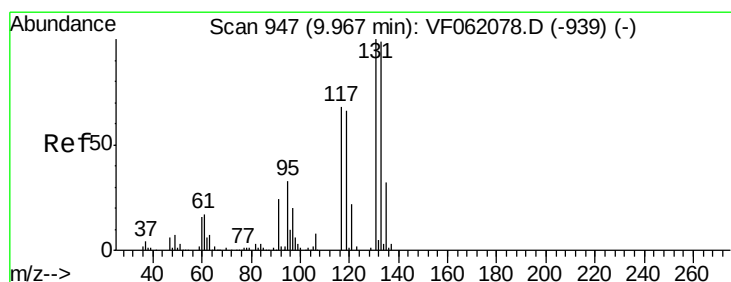
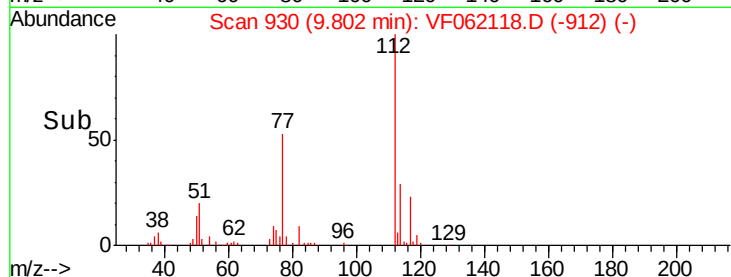
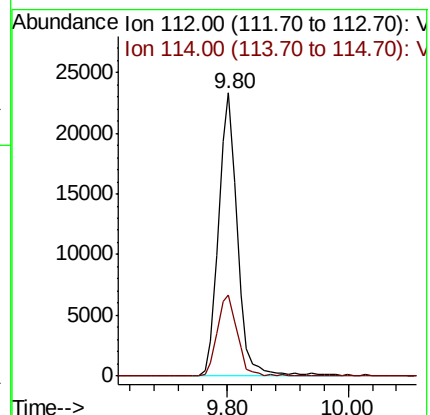
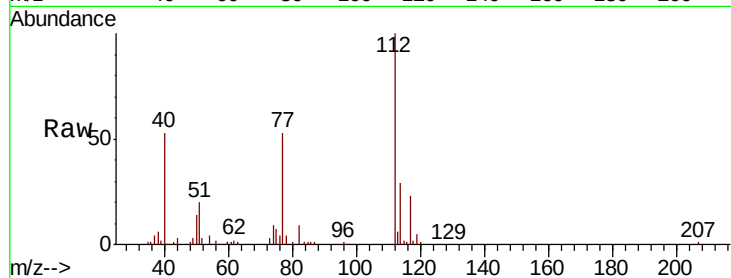
ClientSampleId :

Tot Ion:112 Resp: 50629

Ion Ratio Lower Upper

112 100

114 28.7 26.0 39.0



#66

1,1,1,2-Tetrachloroethane

Concen: 54.718 ug/l

RT: 9.93 min Scan# 943

Delta R.T. -0.04 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

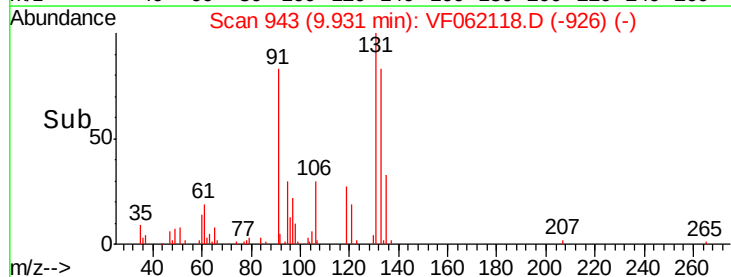
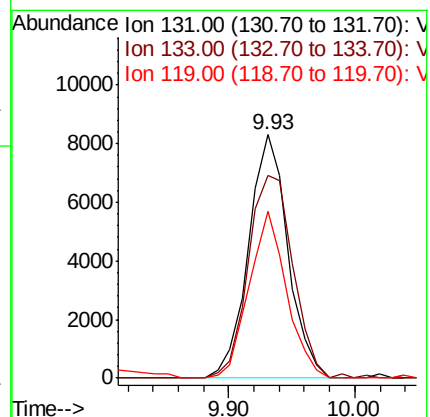
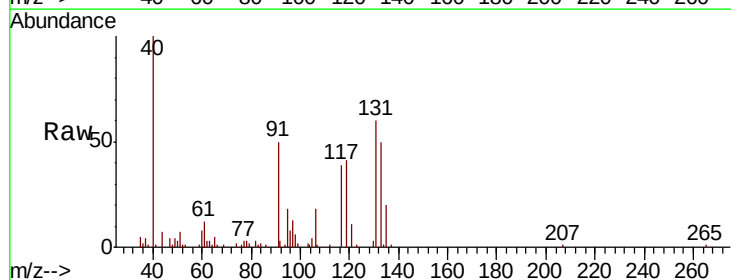
Tgt Ion:131 Resp: 18053

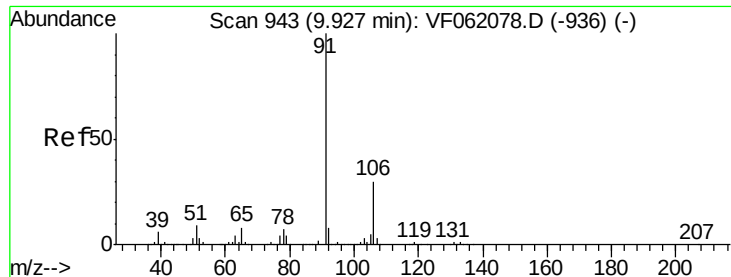
Ion Ratio Lower Upper

131 100

133 83.3 49.3 147.8

119 68.3 33.5 100.4





#67

Ethyl Benzene

Concen: 75.612 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

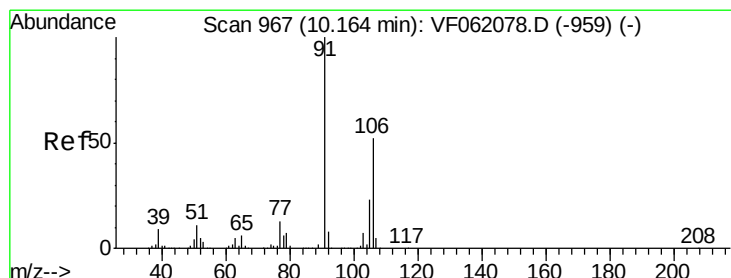
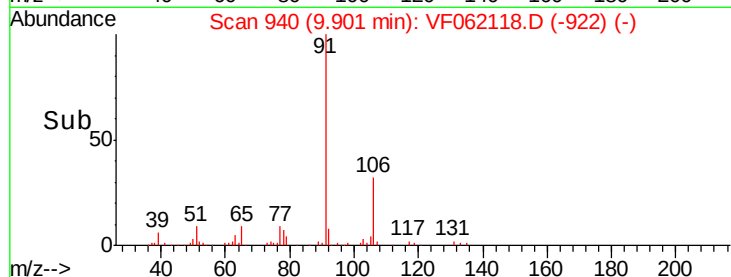
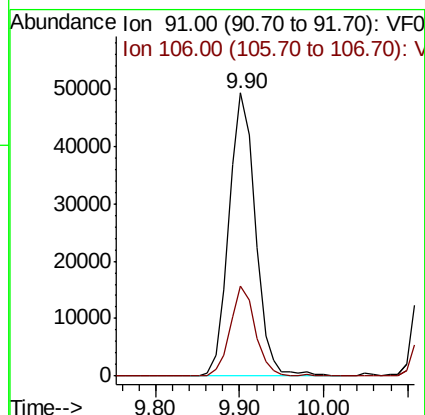
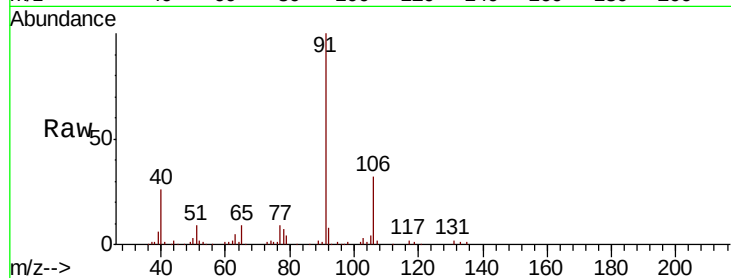
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 91 Resp: 108006

Ion Ratio Lower Upper

91 100

106 31.8 24.0 36.0



#68

m/p-Xylenes

Concen: 141.171 ug/l

RT: 10.14 min Scan# 964

Delta R.T. -0.03 min

Lab File: VF062118.D

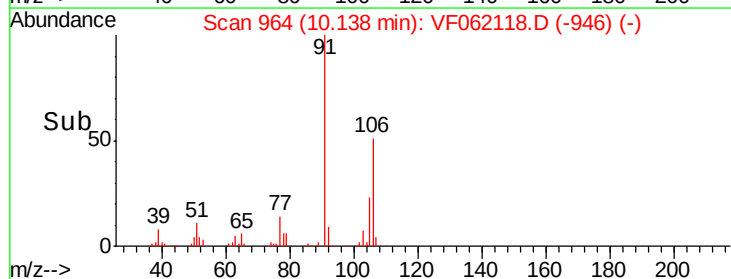
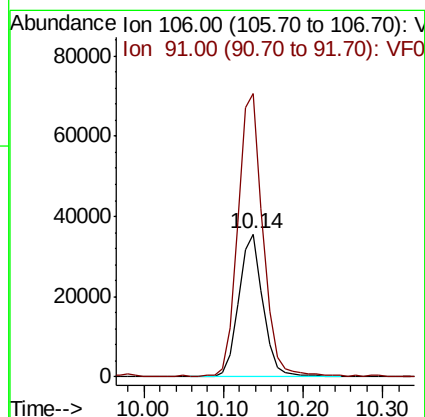
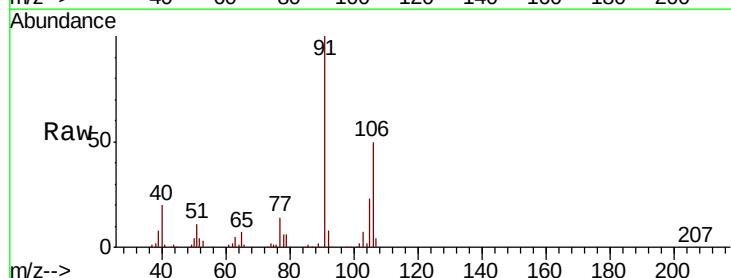
Acq: 23 Mar 2019 15:39

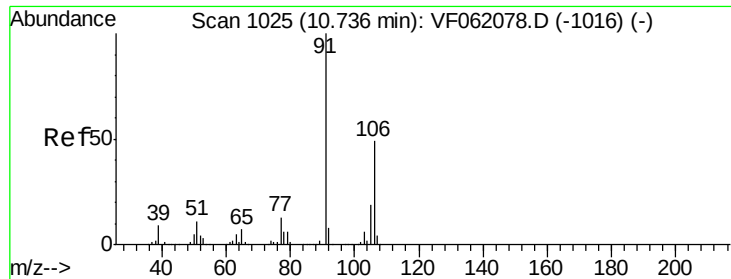
Tgt Ion: 106 Resp: 75369

Ion Ratio Lower Upper

106 100

91 198.2 154.4 231.6

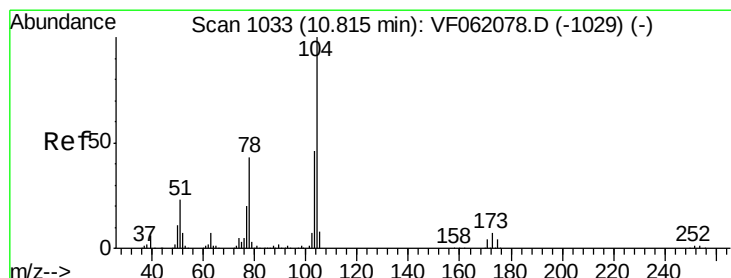
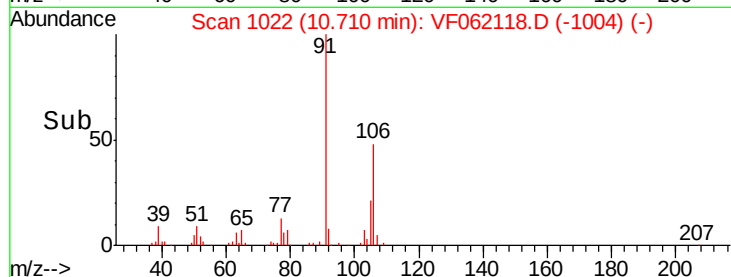
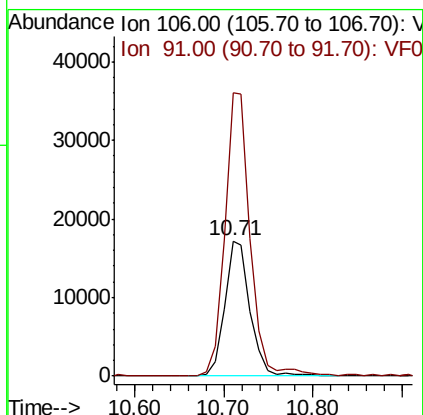
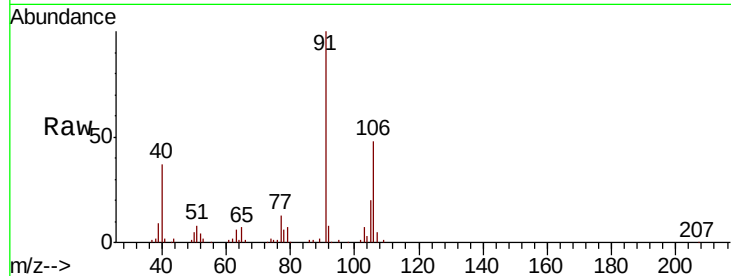




#69
o-Xylene
Concen: 61.567 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.03 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

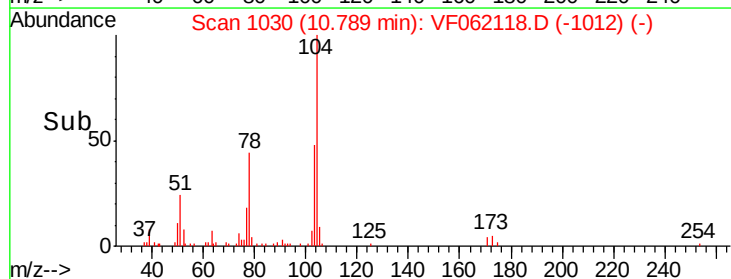
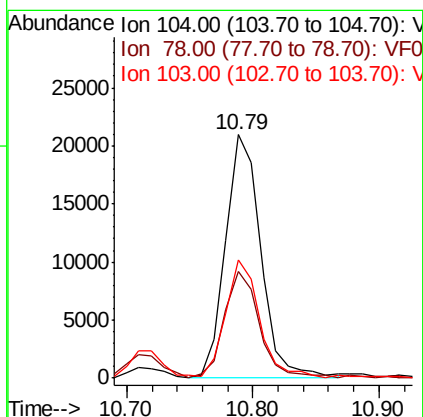
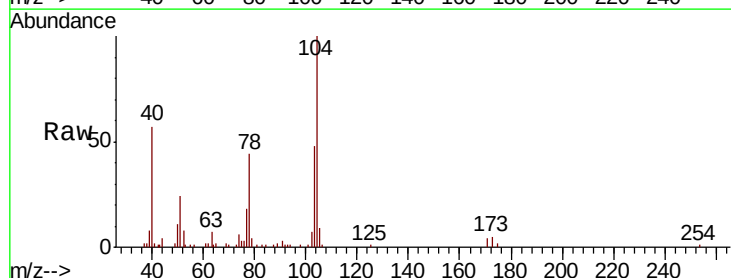
Instrument :
MSVOA_F
ClientSampled :

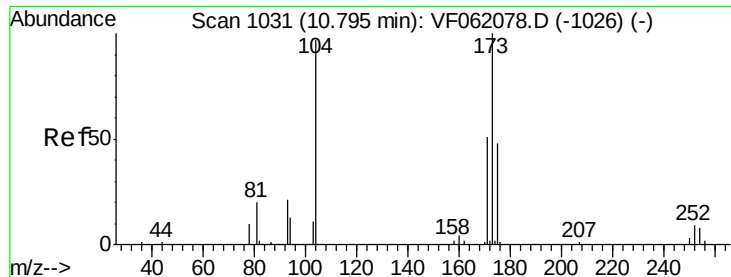
Tot Ion:106 Resp: 34426
Ion Ratio Lower Upper
106 100
91 209.1 102.6 307.8



#70
Styrene
Concen: 48.090 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. -0.03 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Tgt Ion:104 Resp: 40743
Ion Ratio Lower Upper
104 100
78 44.0 34.3 51.5
103 48.3 36.9 55.3





#71

Bromoform

Concen: 26.222 ug/l

RT: 10.77 min Scan# 1028

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

ClientSampleId :

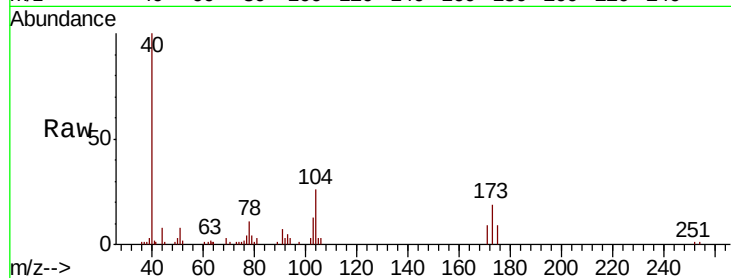
Tot Ion:173 Resp: 4425

Ion Ratio Lower Upper

173 100

175 46.0 24.1 72.4

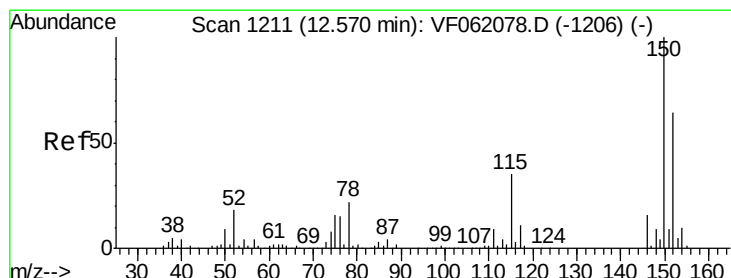
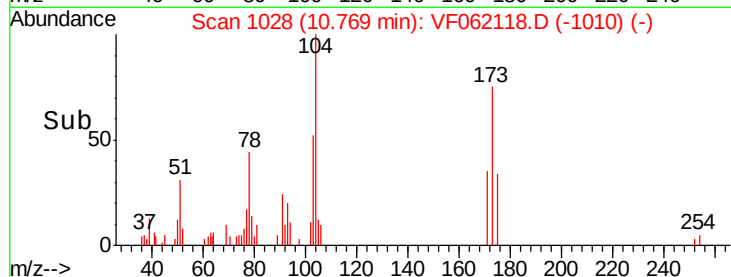
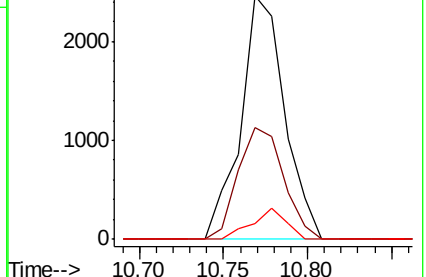
254 6.5 6.2 9.4



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: 12.55 min Scan# 1209

Delta R.T. -0.02 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

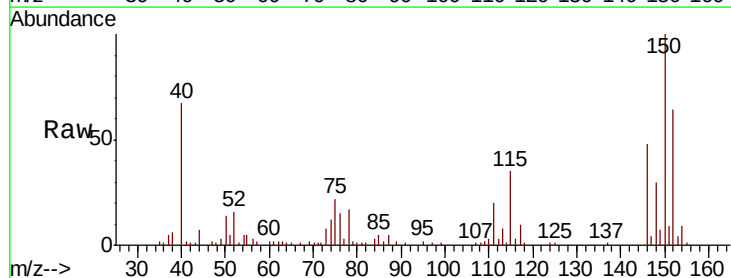
Tgt Ion:152 Resp: 17767

Ion Ratio Lower Upper

152 100

115 55.4 27.7 83.1

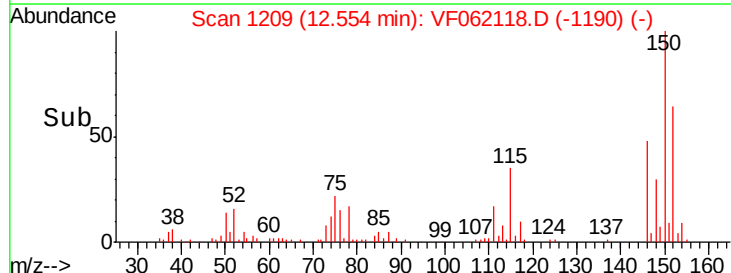
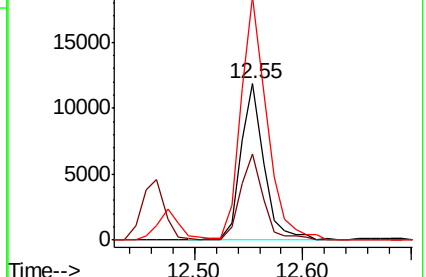
150 156.1 0.0 313.2

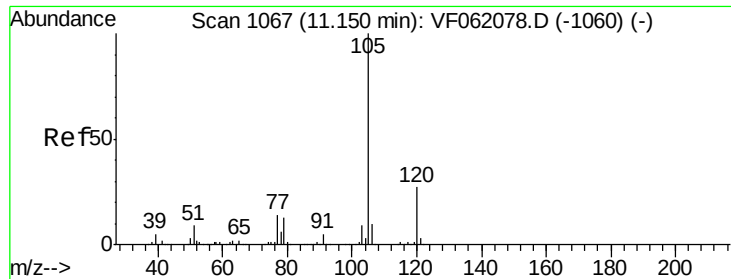


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 97.695 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

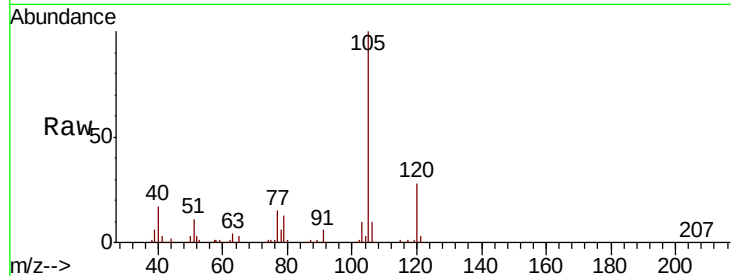
ClientSampleId :

Tot Ion:105 Resp: 122138

Ion Ratio Lower Upper

105 100

120 27.9 13.8 41.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.12

80000

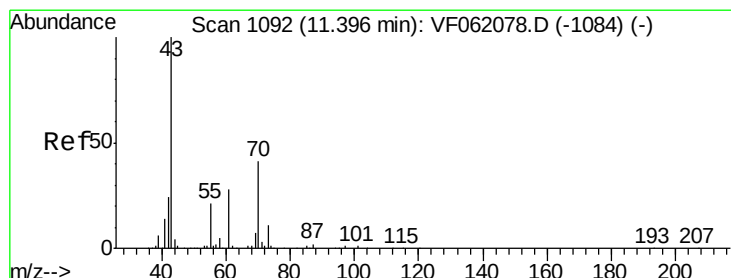
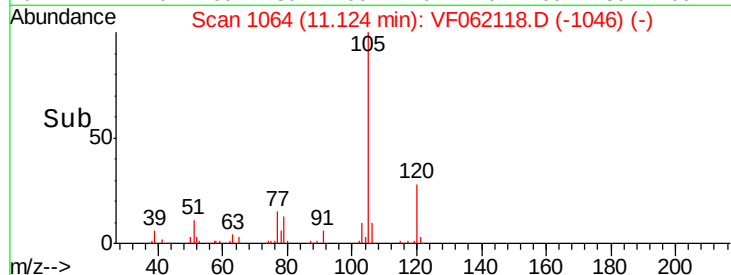
60000

40000

20000

0

Time--> 11.00 11.10 11.20 11.30



#74

N-ethyl acetate

Concen: 1.645 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Tgt Ion: 43 Resp: 490

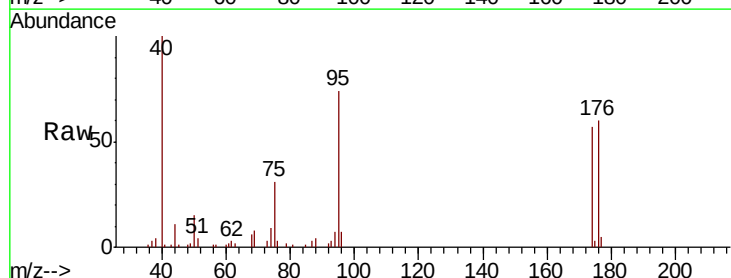
Ion Ratio Lower Upper

43 100

70 0.0 32.9 49.3#

55 0.0 17.1 25.7#

61 118.4 22.2 33.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

600

500

400

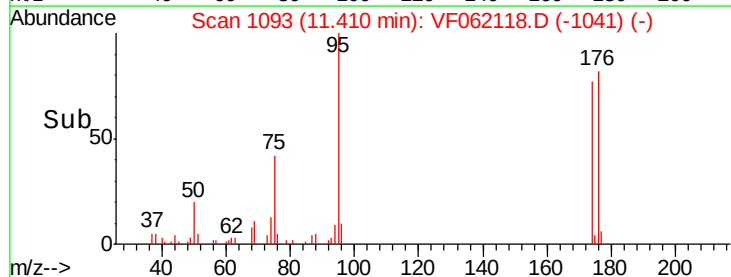
300

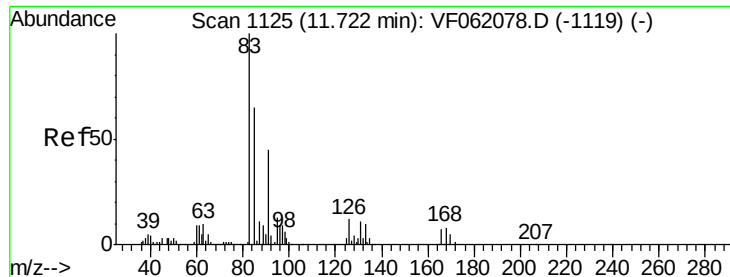
200

100

0

Time--> 11.40 11.45





#75

1,1,2,2-Tetrachloroethane

Concen: 40.571 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

ClientSampleId :

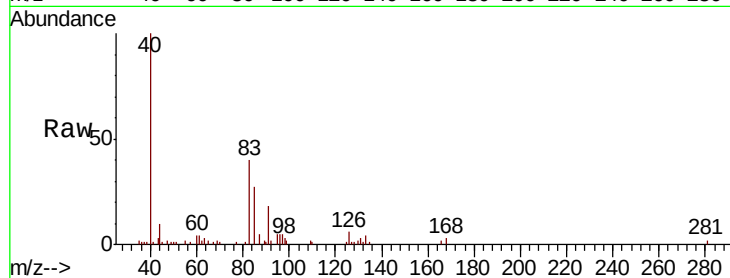
Tot Ion: 83 Resp: 8709

Ion	Ratio	Lower	Upper
83	100		
131	7.6	5.3	15.8
85	68.2	32.6	98.0

83 100

131 7.6 5.3 15.8

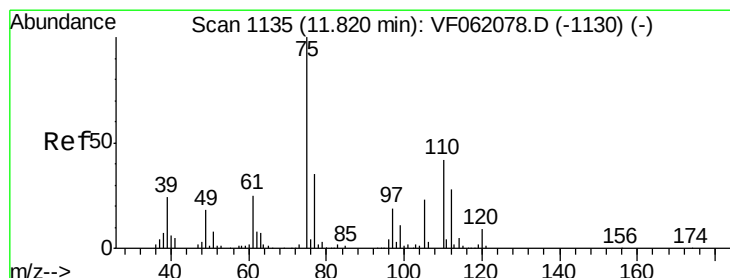
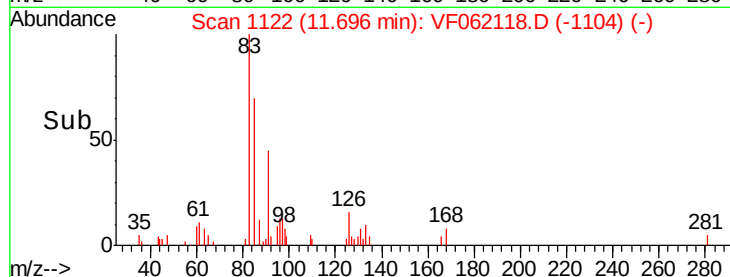
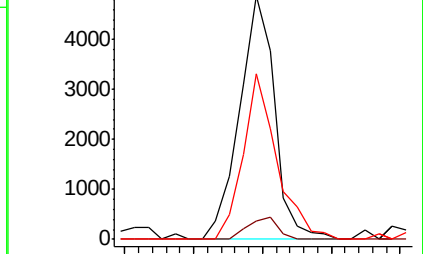
85 68.2 32.6 98.0



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 37.665 ug/l

RT: 11.79 min Scan# 1132

Delta R.T. -0.03 min

Lab File: VF062118.D

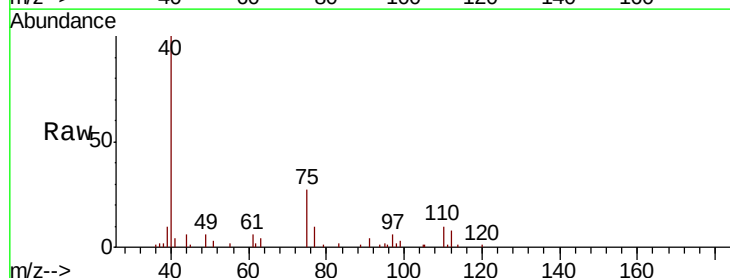
Acq: 23 Mar 2019 15:39

Tgt Ion: 75 Resp: 5690

Ion	Ratio	Lower	Upper
75	100		
77	37.2	17.8	53.3

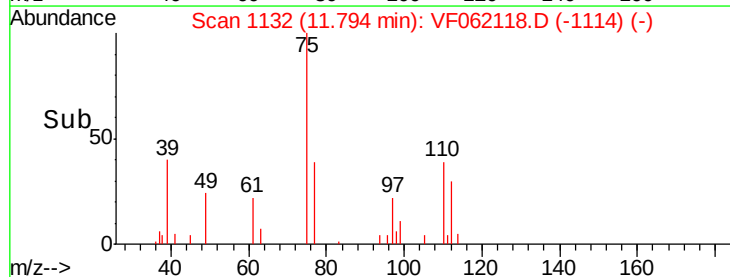
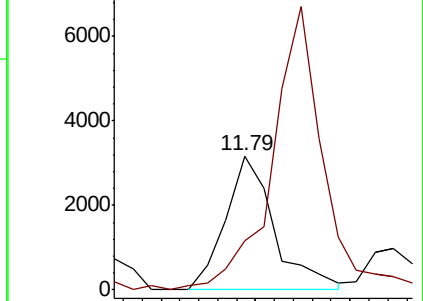
75 100

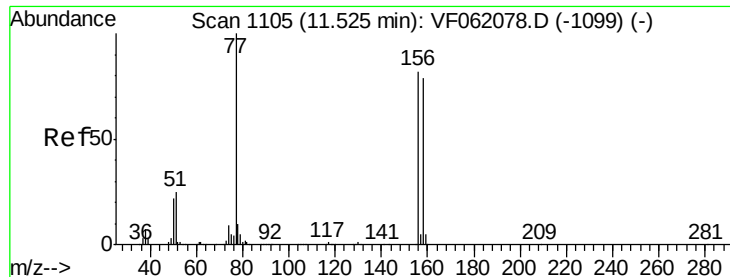
77 37.2 17.8 53.3



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 57.304 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

ClientSampleId :

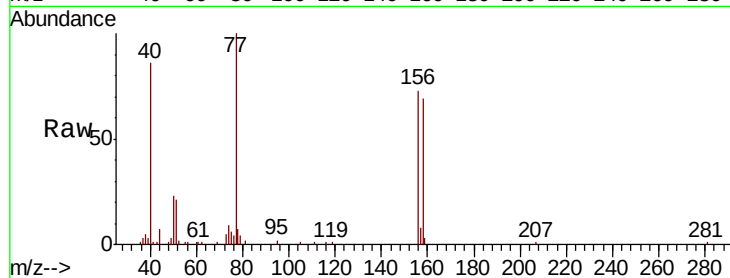
Tot Ion:156 Resp: 17503

Ion Ratio Lower Upper

156 100

77 137.7 61.3 183.9

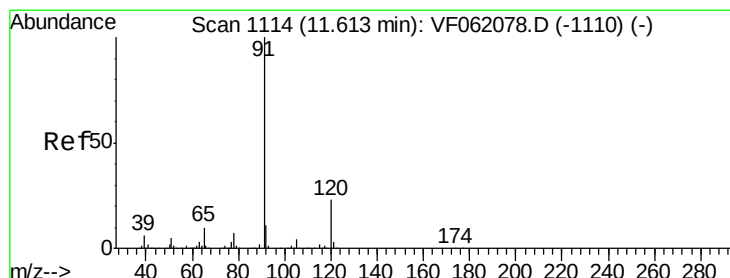
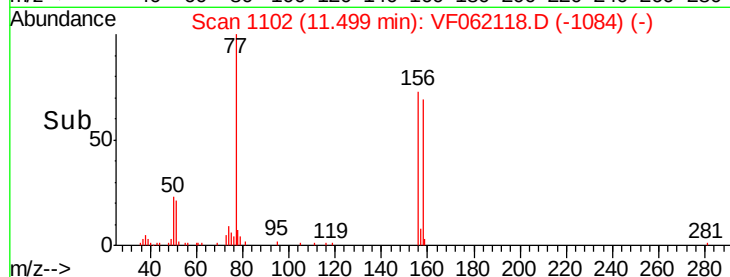
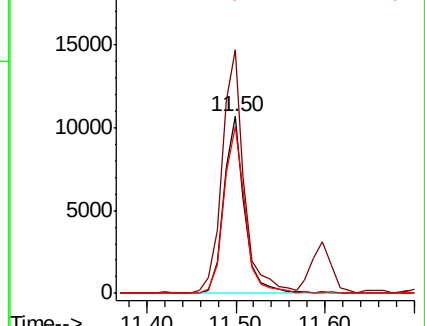
158 94.5 48.6 145.9



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 96.308 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. -0.02 min

Lab File: VF062118.D

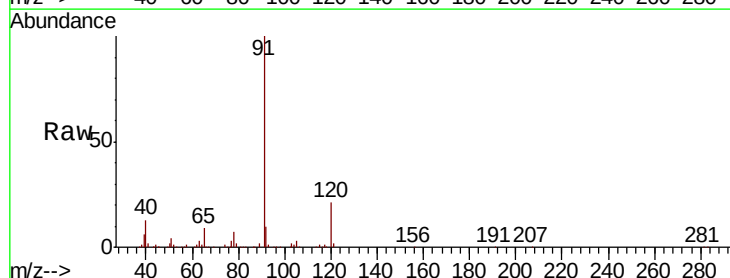
Acq: 23 Mar 2019 15:39

Tgt Ion: 91 Resp: 139811

Ion Ratio Lower Upper

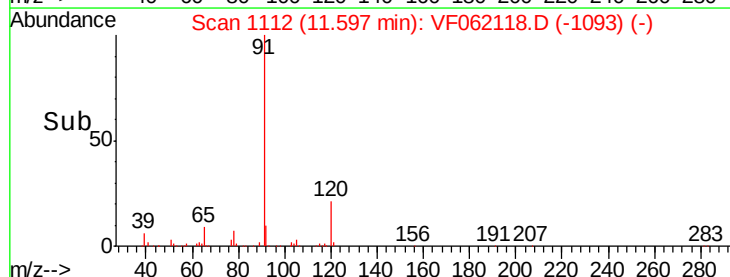
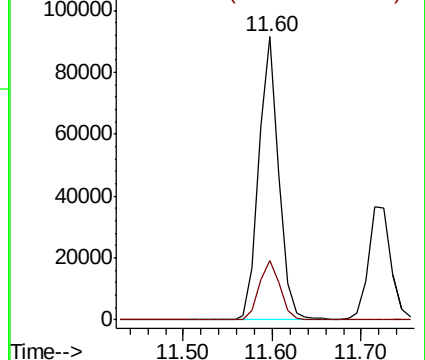
91 100

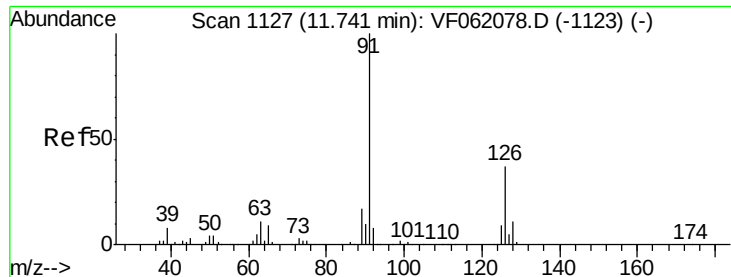
120 20.9 11.3 33.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 78.738 ug/l

RT: 11.72 min Scan# 1124

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

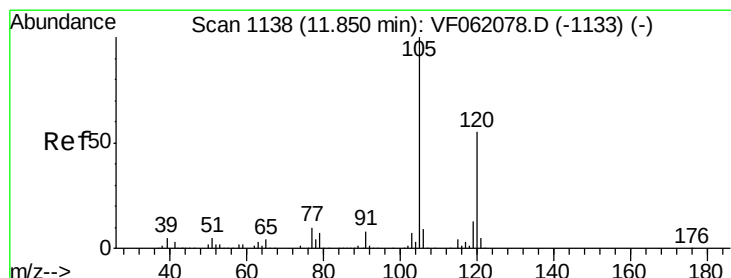
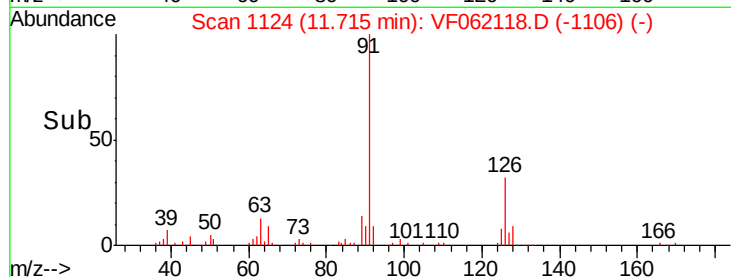
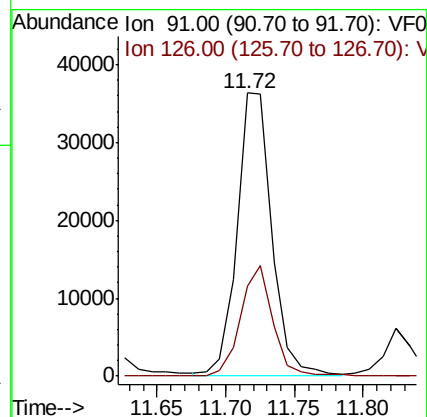
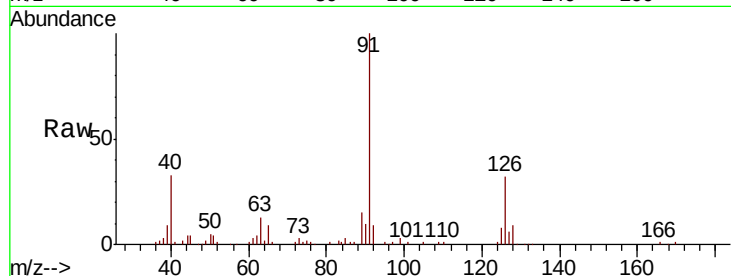
ClientSampleId :

Tot Ion: 91 Resp: 63533

Ion Ratio Lower Upper

91 100

126 31.8 18.3 54.8



#80

1,3,5-Trimethylbenzene

Concen: 79.280 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.03 min

Lab File: VF062118.D

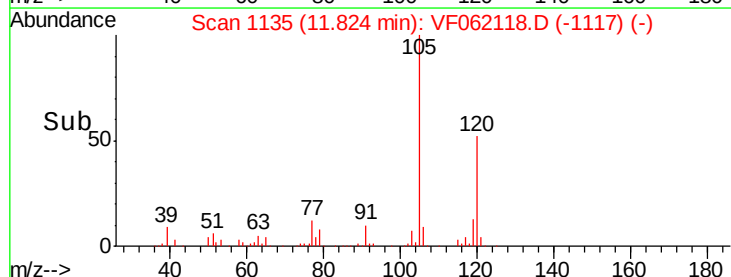
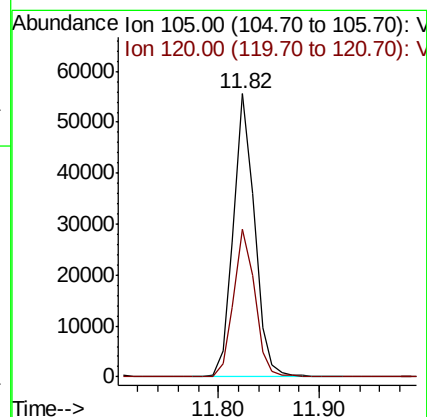
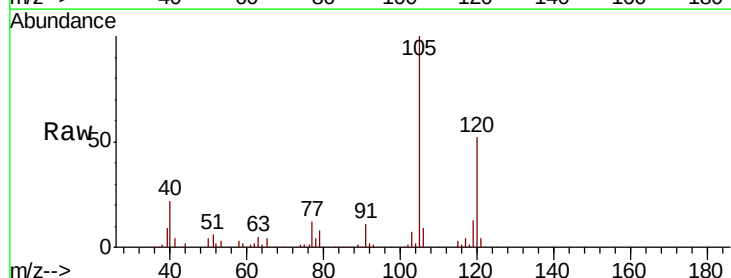
Acq: 23 Mar 2019 15:39

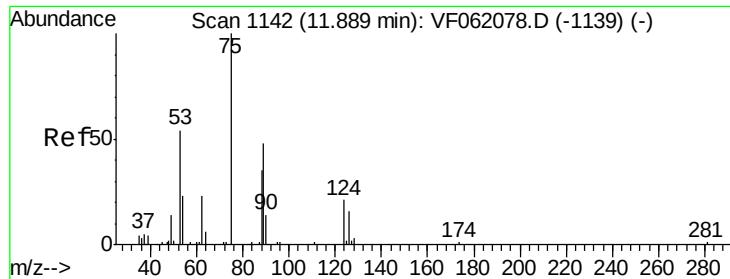
Tgt Ion: 105 Resp: 81527

Ion Ratio Lower Upper

105 100

120 52.1 27.8 83.3





#81

trans-1,4-Dichloro-2-butene

Concen: 19.608 ug/l

RT: 11.87 min Scan# 1140

Delta R.T. -0.02 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

ClientSampleId :

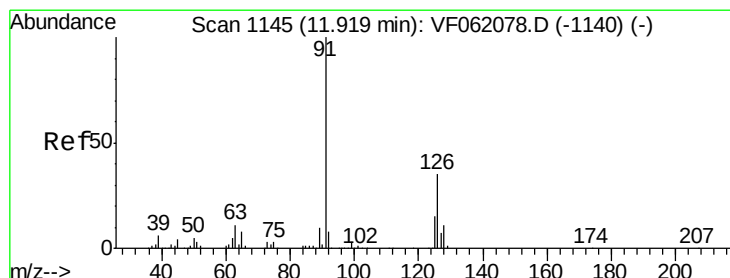
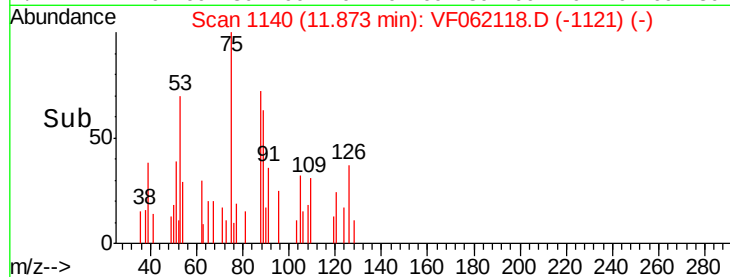
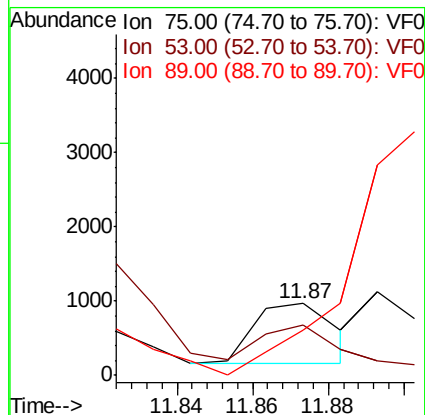
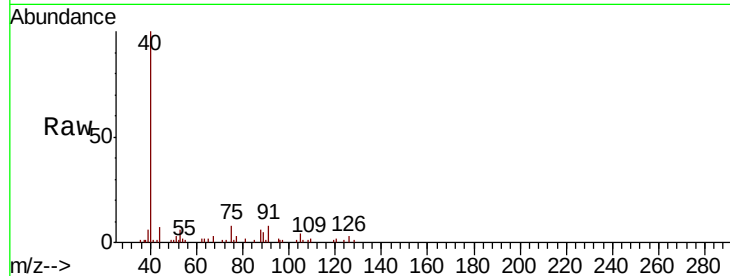
Tot Ion: 75 Resp: 1207

Ion Ratio Lower Upper

75 100

53 69.6 49.4 74.0

89 62.8 40.6 60.8#



#82

4-Chlorotoluene

Concen: 69.948 ug/l

RT: 11.90 min Scan# 1143

Delta R.T. -0.02 min

Lab File: VF062118.D

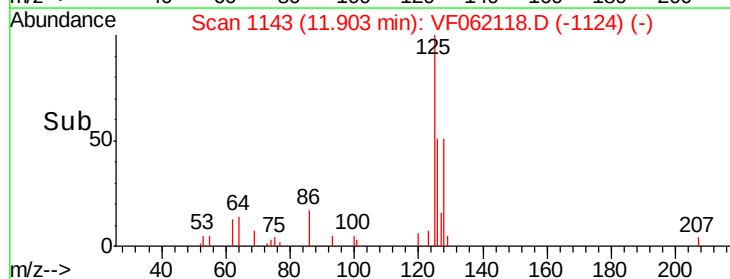
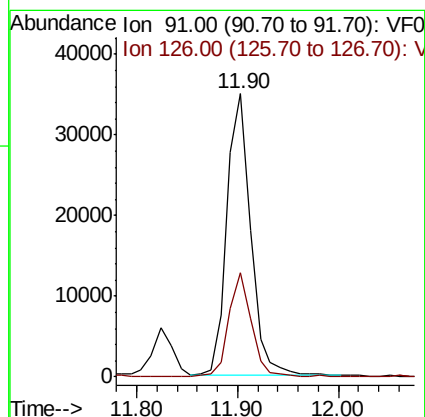
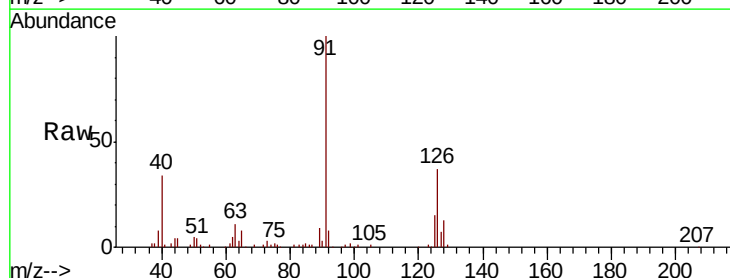
Acq: 23 Mar 2019 15:39

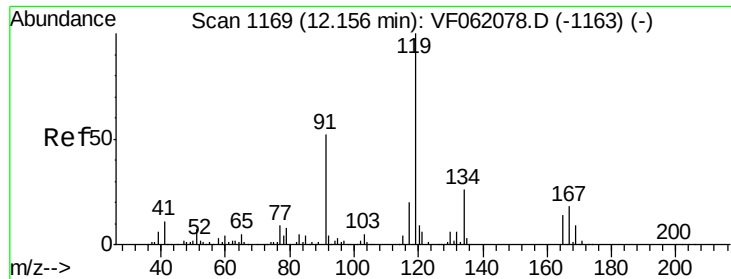
Tgt Ion: 91 Resp: 57870

Ion Ratio Lower Upper

91 100

126 36.7 17.2 51.6

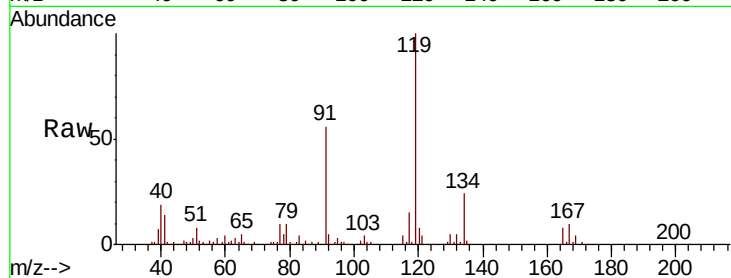




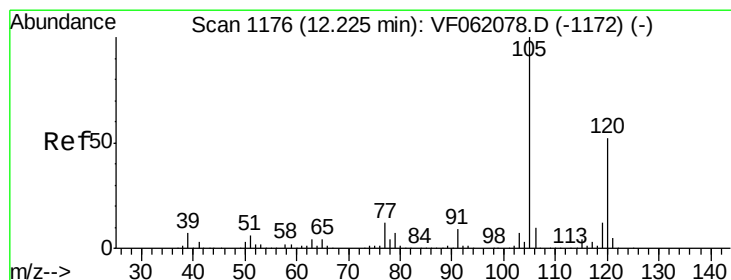
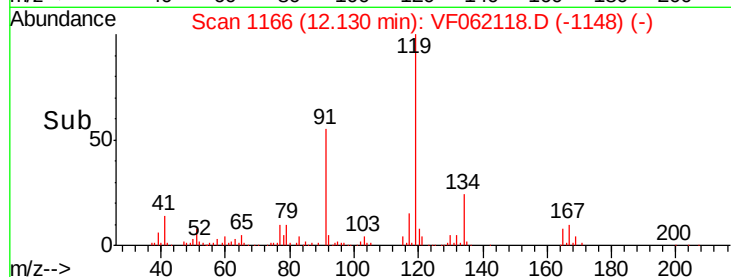
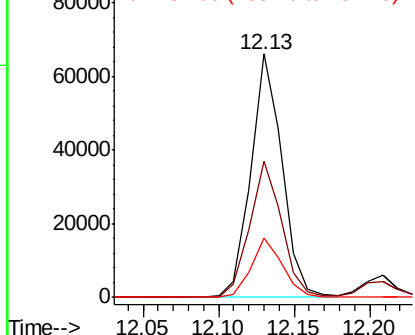
#83
 tert-Butylbenzene
 Concen: 88.578 ug/l
 RT: 12.13 min Scan# 1166
 Delta R.T. -0.03 min
 Lab File: VF062118.D
 Acq: 23 Mar 2019 15:39

Instrument :
 MSVOA_F
 ClientSampled :

Tot Ion:119 Resp: 95353
 Ion Ratio Lower Upper
 119 100
 91 55.9 26.1 78.2
 134 24.1 12.8 38.4

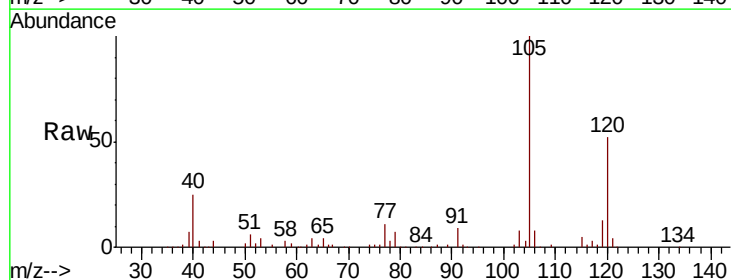


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): VF0
 Ion 134.00 (133.70 to 134.70): V

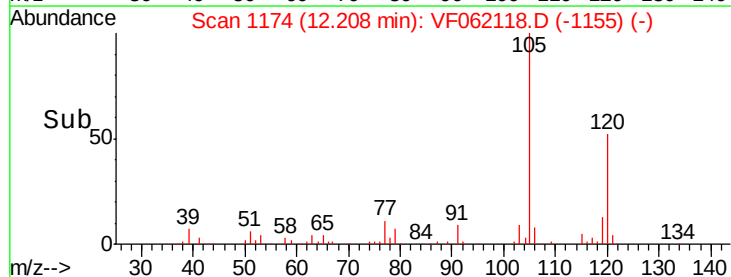
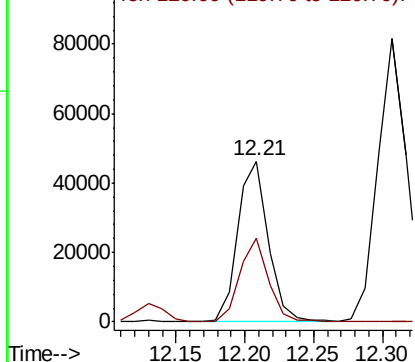


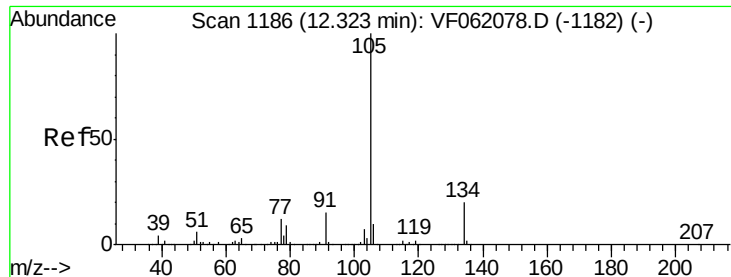
#84
 1,2,4-Trimethylbenzene
 Concen: 71.336 ug/l
 RT: 12.21 min Scan# 1174
 Delta R.T. -0.02 min
 Lab File: VF062118.D
 Acq: 23 Mar 2019 15:39

Tgt Ion:105 Resp: 71914
 Ion Ratio Lower Upper
 105 100
 120 52.2 26.1 78.2



Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 86.486 ug/l

RT: 12.31 min Scan# 1184

Delta R.T. -0.02 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

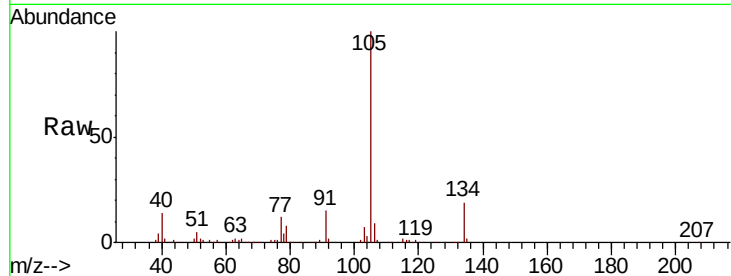
ClientSampled :

Tot Ion:105 Resp: 120441

Ion Ratio Lower Upper

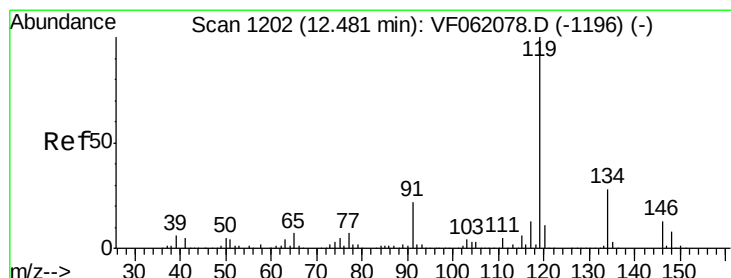
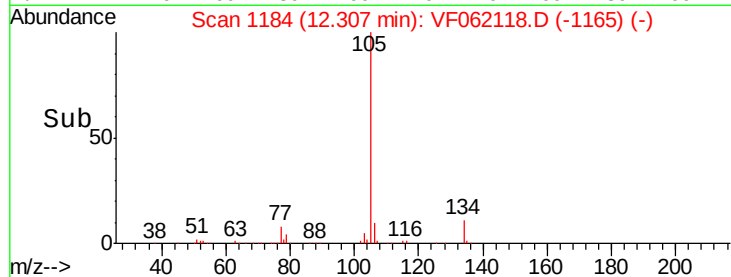
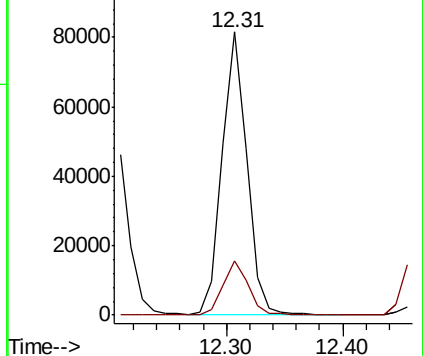
105 100

134 19.1 10.2 30.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 83.339 ug/l

RT: 12.46 min Scan# 1200

Delta R.T. -0.02 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

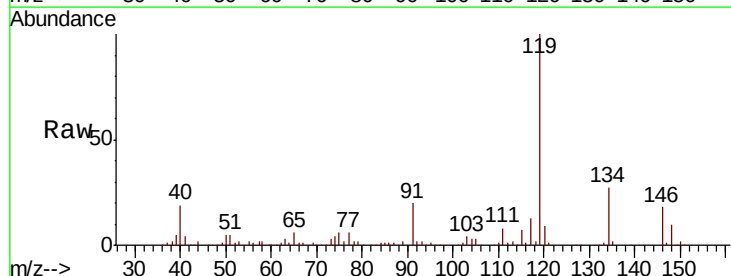
Tgt Ion:119 Resp: 100550

Ion Ratio Lower Upper

119 100

134 26.6 14.0 42.0

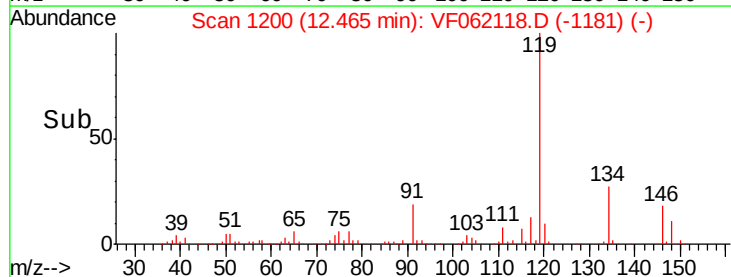
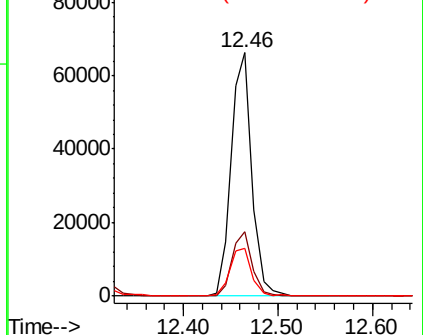
91 19.7 10.8 32.4

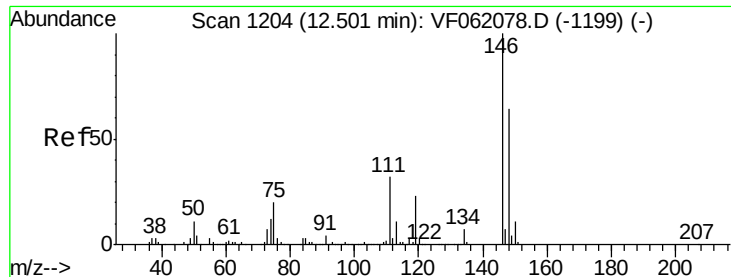


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 63.878 ug/l

RT: 12.47 min Scan# 1201

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

ClientSampleId :

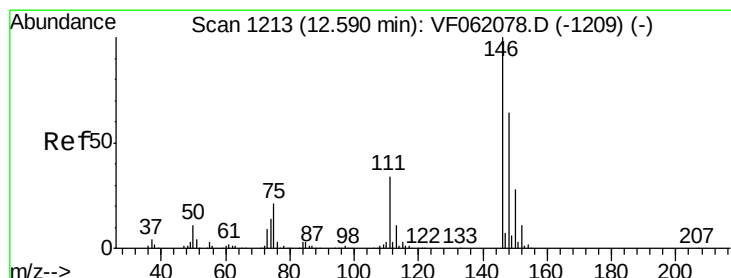
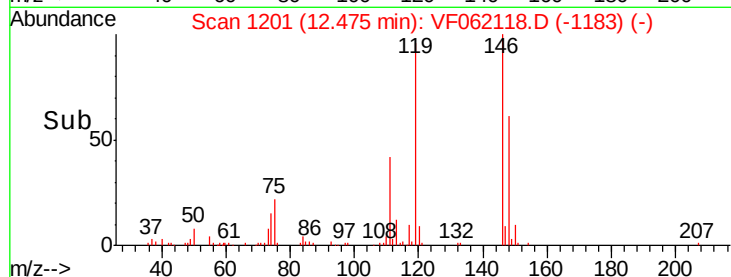
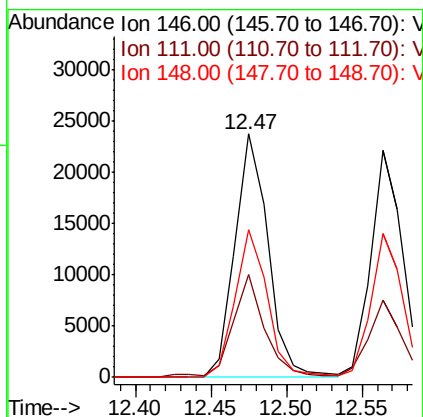
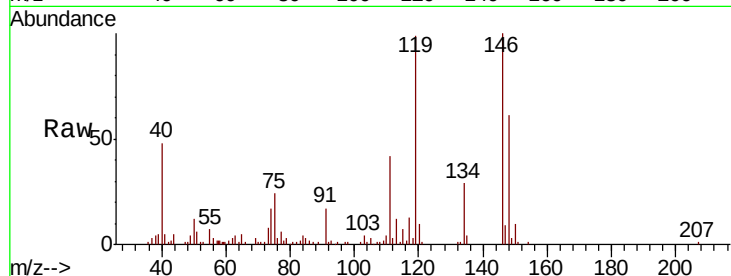
Tot Ion:146 Resp: 36249

Ion Ratio Lower Upper

146 100

111 42.5 16.1 48.3

148 60.9 31.9 95.7



#88

1,4-Dichlorobenzene

Concen: 61.169 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

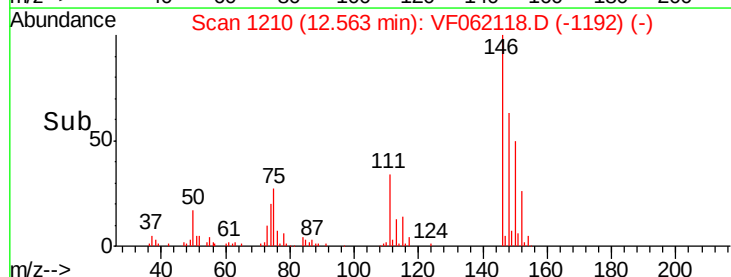
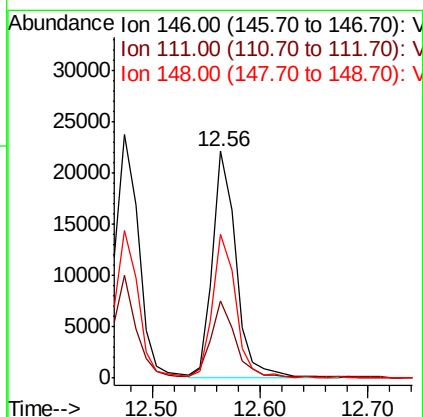
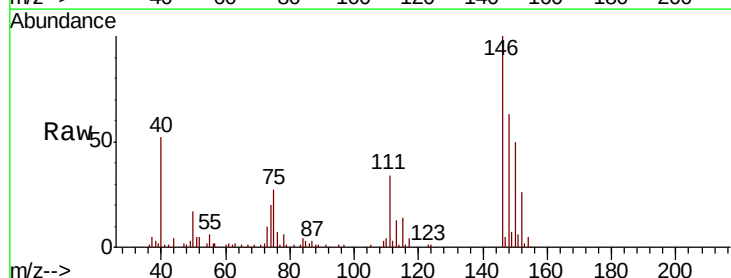
Tgt Ion:146 Resp: 33872

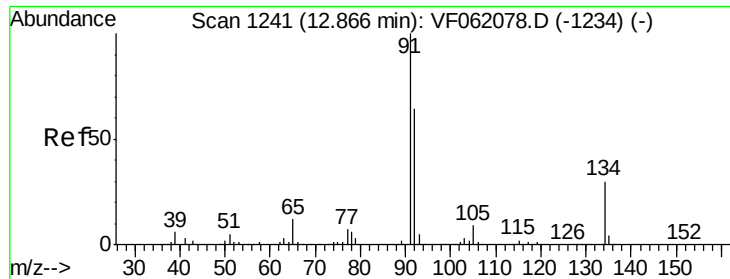
Ion Ratio Lower Upper

146 100

111 34.2 16.9 50.6

148 63.3 31.9 95.7





#89

n-Butylbenzene

Concen: 74.854 ug/l

RT: 12.85 min Scan# 1239

Delta R.T. -0.02 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

ClientSampled :

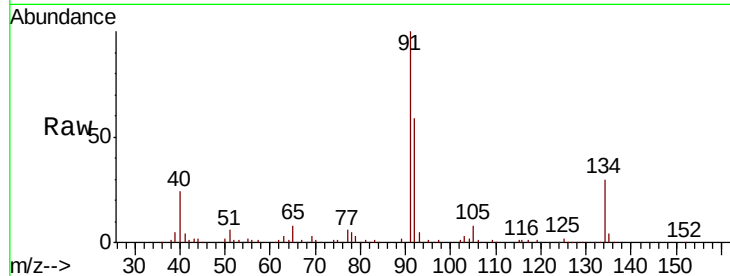
Tot Ion: 91 Resp: 86164

Ion Ratio Lower Upper

91 100

92 58.8 31.9 95.5

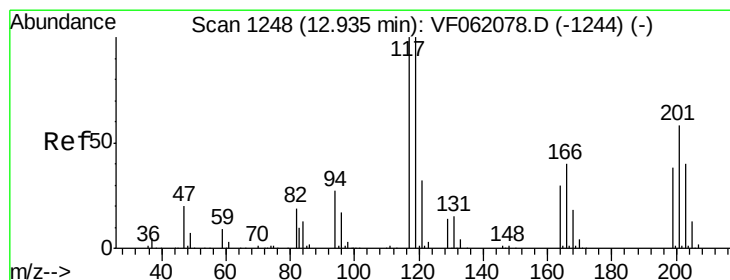
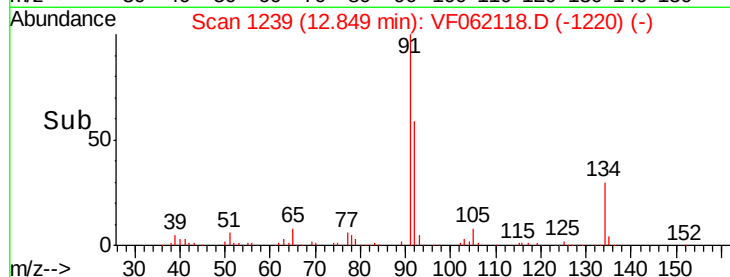
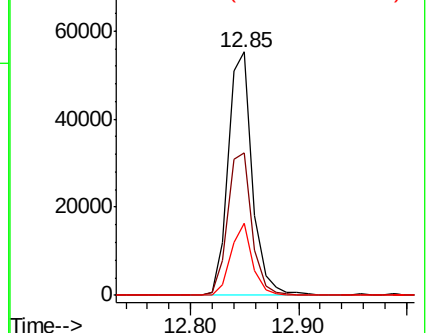
134 29.8 14.9 44.9



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: 77.222 ug/l

RT: 12.92 min Scan# 1246

Delta R.T. -0.02 min

Lab File: VF062118.D

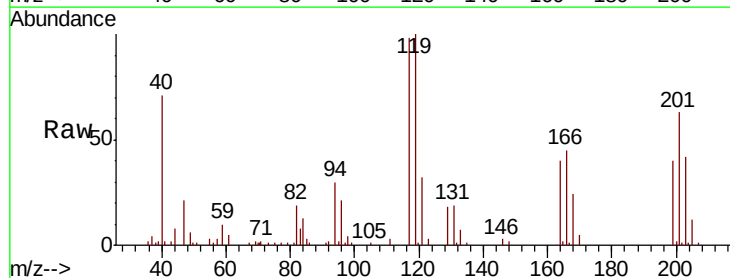
Acq: 23 Mar 2019 15:39

Tgt Ion: 117 Resp: 22185

Ion Ratio Lower Upper

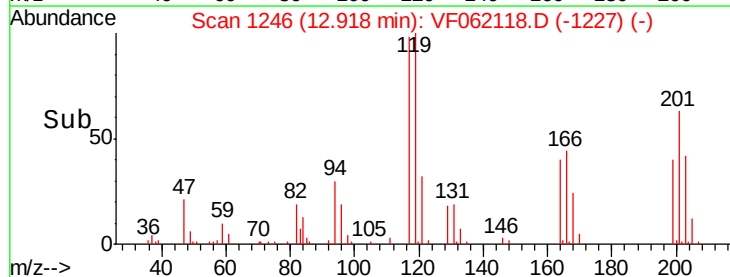
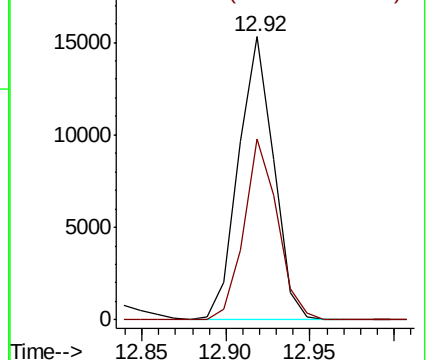
117 100

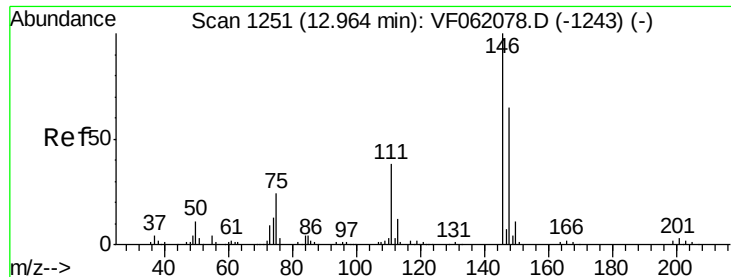
201 64.0 28.7 86.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

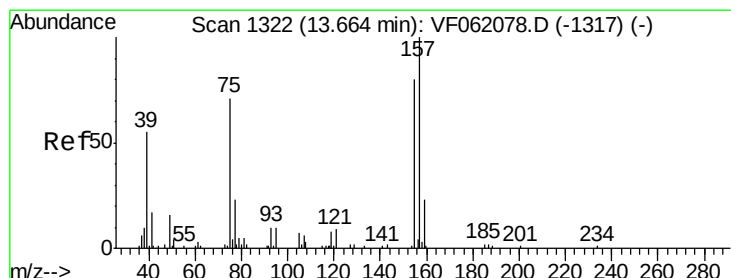
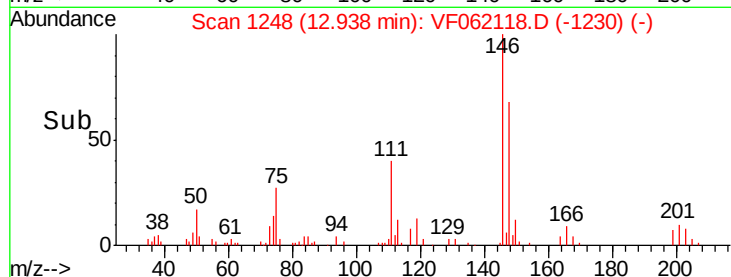
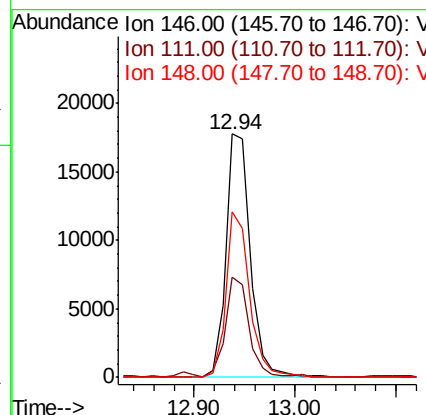
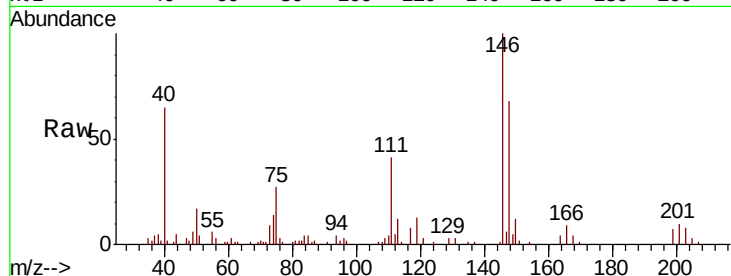




#91
 1,2-Dichlorobenzene
 Concen: 56.043 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. -0.03 min
 Lab File: VF062118.D
 Acq: 23 Mar 2019 15:39

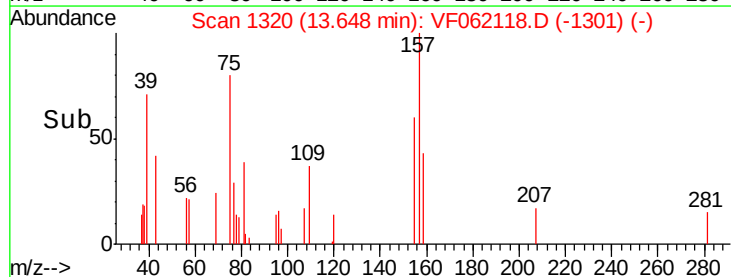
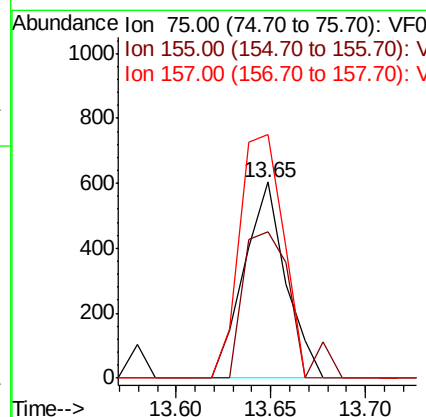
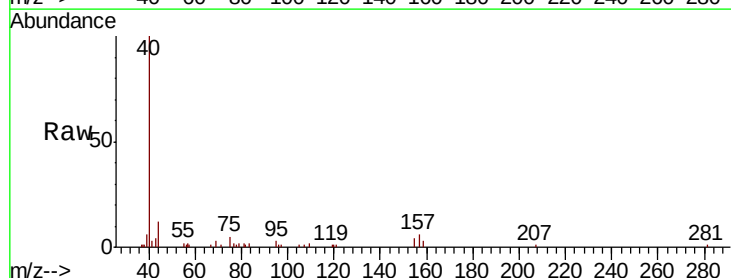
Instrument :
 MSVOA_F
 ClientSampleId :

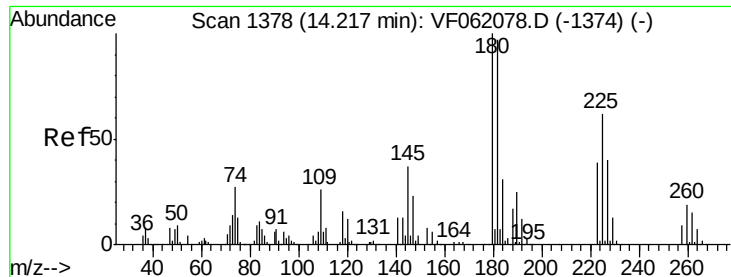
Tot Ion:146 Resp: 29863
 Ion Ratio Lower Upper
 146 100
 111 40.9 19.1 57.3
 148 68.2 32.8 98.3



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 28.347 ug/l
 RT: 13.65 min Scan# 1320
 Delta R.T. -0.02 min
 Lab File: VF062118.D
 Acq: 23 Mar 2019 15:39

Tgt Ion: 75 Resp: 922
 Ion Ratio Lower Upper
 75 100
 155 75.0 56.1 168.4
 157 124.4 70.4 211.2

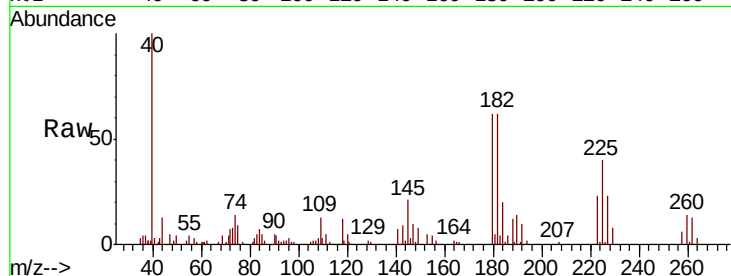




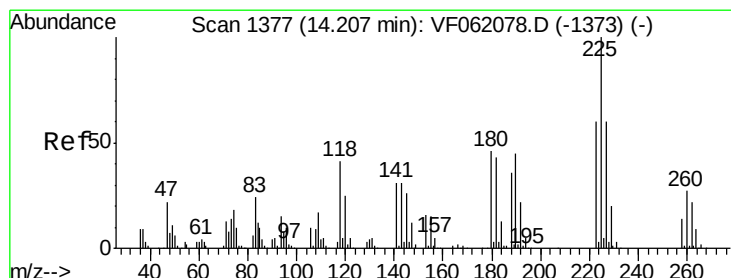
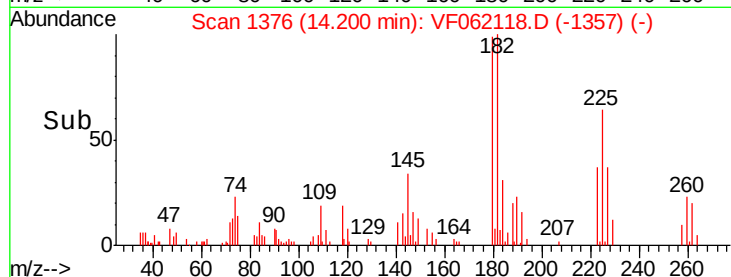
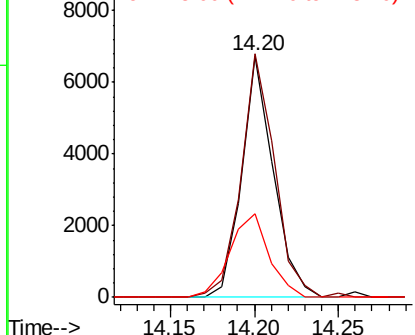
#93
 1,2,4-Trichlorobenzene
 Concen: 23.680 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.02 min
 Lab File: VF062118.D
 Acq: 23 Mar 2019 15:39

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion:180 Resp: 8794
 Ion Ratio Lower Upper
 180 100
 182 100.8 48.7 146.1
 145 34.6 18.3 54.8

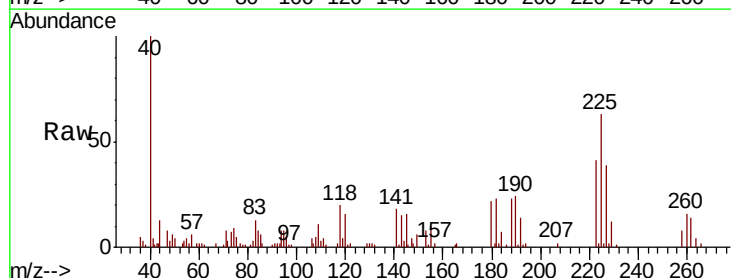


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

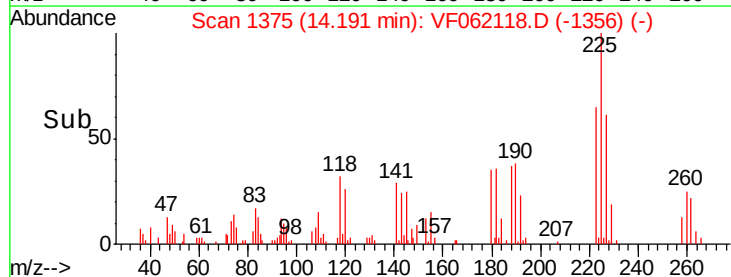
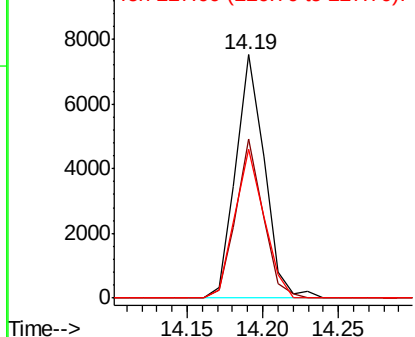


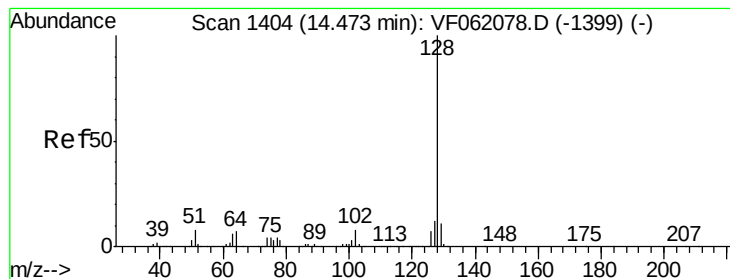
#94
 Hexachlorobutadiene
 Concen: 40.376 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.02 min
 Lab File: VF062118.D
 Acq: 23 Mar 2019 15:39

Tgt Ion:225 Resp: 9970
 Ion Ratio Lower Upper
 225 100
 223 65.5 30.0 90.0
 227 61.4 30.2 90.6



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 9.797 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. -0.02 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

ClientSampleId :

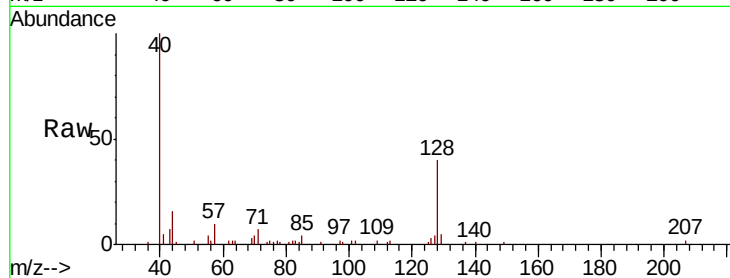
Tot Ion:128 Resp: 6376

Ion Ratio Lower Upper

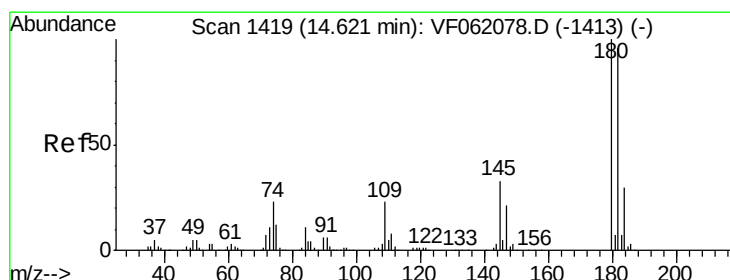
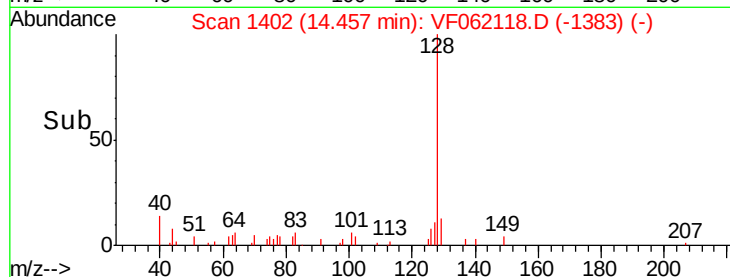
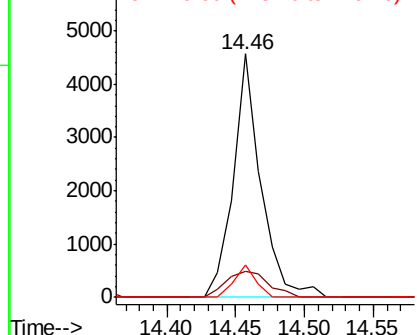
128 100

127 10.9 9.5 14.3

129 13.2 8.7 13.1#



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: 16.515 ug/l

RT: 14.60 min Scan# 1417

Delta R.T. -0.02 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

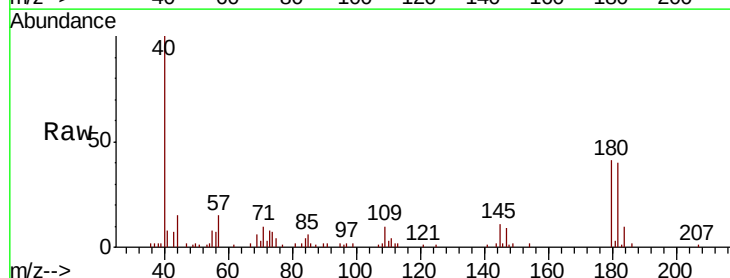
Tgt Ion:180 Resp: 5741

Ion Ratio Lower Upper

180 100

182 99.4 47.9 143.7

145 28.1 16.6 49.7



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

