

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032319\
 Data File : VF062117.D
 Acq On : 23 Mar 2019 15:10
 Operator : VA/AP
 Sample : K2045-02MS
 Misc : 5.63g/5mL/MSVOA-F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Mar 25 01:28:04 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	4.88	168	19279	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.61	114	21551	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.78	117	11659	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.55	152	3400	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	2709	18.89	ug/l	-0.03
Spiked Amount			Recovery	=	37.78%	
35) Dibromofluoromethane	4.12	113	5167	35.44	ug/l	-0.03
Spiked Amount			Recovery	=	70.88%	
50) Toluene-d8	7.56	98	20911	48.05	ug/l	-0.03
Spiked Amount			Recovery	=	96.10%	
62) 4-Bromofluorobenzene	11.42	95	4009	23.86	ug/l	-0.02
Spiked Amount			Recovery	=	47.72%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	20730	83.934	ug/l	93
3) Chloromethane	1.08	50	14434	55.853	ug/l	90
4) Vinyl Chloride	1.13	62	19635	82.141	ug/l	95
5) Bromomethane	1.30	94	11291	65.710	ug/l	99
6) Chloroethane	1.36	64	8048	66.881	ug/l	97
7) Trichlorofluoromethane	1.45	101	26609	92.169	ug/l	95
8) Diethyl Ether	1.63	74	1178	17.863	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	1.81	101	16742	85.005	ug/l #	94
10) Methyl Iodide	1.85	142	18638	49.798	ug/l	96
11) Tert butyl alcohol	2.55	59	235	29.784	ug/l #	66
12) 1,1-Dichloroethene	1.76	96	13274	71.429	ug/l	97
13) Acrolein	2.00	56	1125	118.573	ug/l	97
14) Allyl chloride	2.10	41	11866	59.806	ug/l	95
15) Acrylonitrile	2.95	53	2267	81.708	ug/l #	74
16) Acetone	2.24	43	4121	136.545	ug/l #	84
17) Carbon Disulfide	1.77	76	43918	77.500	ug/l	97
18) Methyl Acetate	2.37	43	1536	21.336	ug/l #	56
19) Methyl tert-butyl Ether	2.44	73	4430	15.083	ug/l	96
20) Methylene Chloride	2.19	84	5558	29.299	ug/l #	91
21) trans-1,2-Dichloroethene	2.31	96	11147	62.342	ug/l	99
22) Diisopropyl ether	2.80	45	12868	24.737	ug/l #	94
23) Vinyl Acetate	3.19	43	8329	39.107	ug/l	97
24) 1,1-Dichloroethane	2.88	63	12381	39.689	ug/l	98
25) 2-Butanone	4.37	43	6905	109.593	ug/l #	71
26) 2,2-Dichloropropane	3.61	77	14428	114.072	ug/l	98
27) cis-1,2-Dichloroethene	3.48	96	8096	34.169	ug/l	89
28) Bromochloromethane	3.73	49	3201	25.115	ug/l #	74
29) Tetrahydrofuran	4.09	42	2427	88.596	ug/l #	45
30) Chloroform	3.87	83	11686	35.447	ug/l	97
31) Cyclohexane	3.69	56	23706	72.762	ug/l	95
32) 1,1,1-Trichloroethane	4.10	97	17441	86.969	ug/l	99
36) 1,1-Dichloropropene	4.30	75	15851	77.219	ug/l	92
37) Ethyl Acetate	4.11	43	1044	11.637	ug/l #	1
38) Carbon Tetrachloride	4.09	117	1982	14.166	ug/l	92

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

39) Methylcyclohexane	5.46	83	23711	99.525	ug/l	93
40) Benzene	4.64	78	29424	53.469	ug/l	100
41) Methacrylonitrile	4.77	41	1037	21.847	ug/l #	44
42) 1,2-Dichloroethane	4.95	62	3602	27.680	ug/l	70
43) Isopropyl Acetate	6.97	43	807	7.428	ug/l #	42
44) Trichloroethene	5.51	130	11458	68.103	ug/l	97
45) 1,2-Dichloropropane	6.25	63	4454	33.935	ug/l	98
46) Dibromomethane	6.09	93	1378	17.171	ug/l #	85
47) Bromodichloromethane	6.39	83	5189	29.192	ug/l #	82
48) Methyl methacrylate	6.73	41	1058	17.103	ug/l #	65
51) 4-Methyl-2-Pentanone	8.27	43	1230	16.915	ug/l	94
52) Toluene	7.63	92	18063	56.671	ug/l	96
53) t-1,3-Dichloropropene	8.29	75	3087	22.122	ug/l	88
54) cis-1,3-Dichloropropene	7.30	75	4691	23.495	ug/l #	90
55) 1,1,2-Trichloroethane	8.50	97	2167	23.935	ug/l #	84
56) Ethyl methacrylate	8.63	69	835	7.733	ug/l #	68
57) 1,3-Dichloropropane	8.86	76	3086	20.537	ug/l #	88
58) 2-Chloroethyl Vinyl ether	7.29	63	805	49.133	ug/l #	48
59) 2-Hexanone	9.50	43	85	1.595	ug/l #	22
60) Dibromochloromethane	8.72	129	2747	21.826	ug/l	64
61) 1,2-Dibromoethane	8.99	107	1968	20.375	ug/l	91
64) Tetrachloroethene	8.15	164	10977	121.865	ug/l	82
65) Chlorobenzene	9.80	112	17545	80.427	ug/l	92
66) 1,1,1,2-Tetrachloroethane	9.93	131	4753	54.241	ug/l	85
67) Ethyl Benzene	9.91	91	33850	89.225	ug/l	100
68) m/p-Xylenes	10.13	106	23263	164.059	ug/l	88
69) o-Xylene	10.72	106	8857	59.639	ug/l	85
70) Stvrene	10.79	104	8882	39.473	ug/l	98
71) Bromoform	10.77	173	943	21.040	ug/l #	96
73) Isopropylbenzene	11.13	105	39036	163.163	ug/l	91
74) N-amyl acetate	11.41	43	89	1.561	ug/l #	26
75) 1,1,2,2-Tetrachloroethane	11.70	83	2374	57.791	ug/l	73
76) 1,2,3-Trichloropropane	11.79	75	1529	52.889	ug/l	81
77) Bromobenzene	11.50	156	3540	60.563	ug/l	83
78) n-propylbenzene	11.59	91	42252	152.090	ug/l	92
79) 2-Chlorotoluene	11.72	91	16090	104.202	ug/l	98
80) 1,3,5-Trimethylbenzene	11.83	105	22669	115.194	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.90	75	686	58.234	ug/l #	1
82) 4-Chlorotoluene	11.90	91	14054	88.768	ug/l	93
83) tert-Butylbenzene	12.14	119	27930	135.581	ug/l	85
84) 1,2,4-Trimethylbenzene	12.20	105	17615	91.309	ug/l	96
85) sec-Butylbenzene	12.31	105	40466	151.844	ug/l	96
86) p-Isopropyltoluene	12.46	119	29596	128.184	ug/l	95
87) 1,3-Dichlorobenzene	12.47	146	8142	74.975	ug/l	88
88) 1,4-Dichlorobenzene	12.57	146	8982	84.762	ug/l	96
89) n-Butylbenzene	12.85	91	22805	103.528	ug/l	91
90) Hexachloroethane	12.91	117	5908	107.463	ug/l	88
91) 1,2-Dichlorobenzene	12.94	146	9754	95.655	ug/l	92
92) 1,2-Dibromo-3-Chloropropan	13.64	75	98	15.745	ug/l #	51
93) 1,2,4-Trichlorobenzene	14.20	180	1411	19.854	ug/l	84

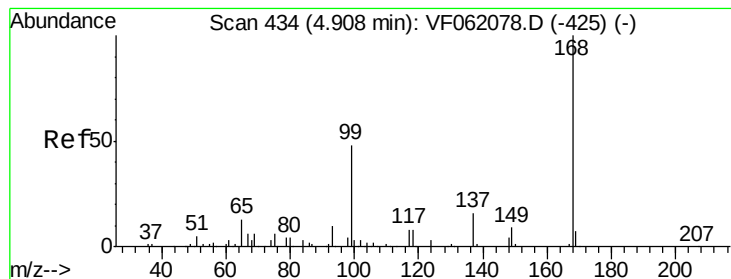
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	14.20	225	3232	68.397	ug/l	84
95) Naphthalene	14.46	128	131	1.052	ug/l #	70
96) 1,2,3-Trichlorobenzene	14.61	180	482	7.246	ug/l	67

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.03 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

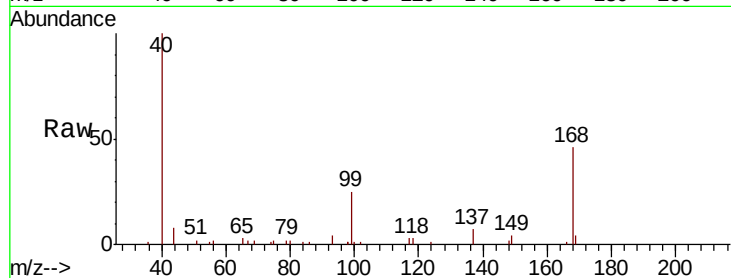
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 19279

Ion Ratio Lower Upper

168 100

99 53.8 38.2 57.4



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

6000

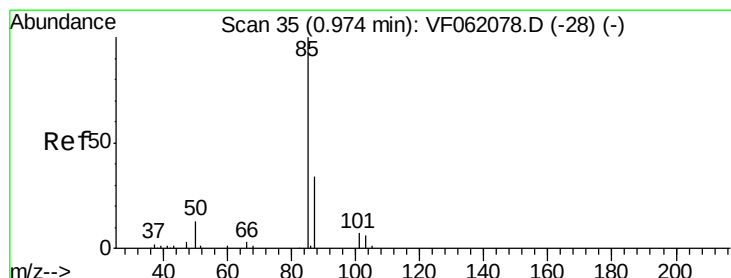
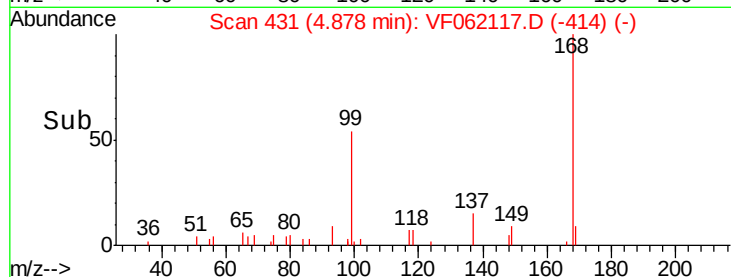
4000

2000

0

Time-->

4.80 4.90 5.00



#2

Dichlorodifluoromethane

Concen: 83.934 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.01 min

Lab File: VF062117.D

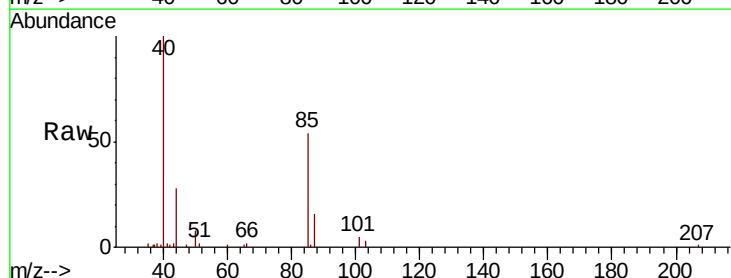
Acq: 23 Mar 2019 15:10

Tgt Ion: 85 Resp: 20730

Ion Ratio Lower Upper

85 100

87 29.9 17.0 51.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

10000

8000

6000

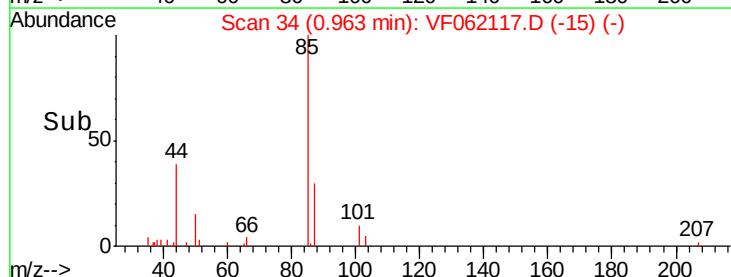
4000

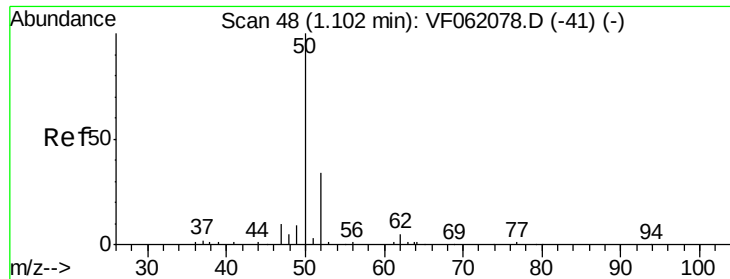
2000

0

Time-->

0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 55.853 ug/l

RT: 1.08 min Scan# 46

Delta R.T. -0.02 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

Instrument :

MSVOA_F

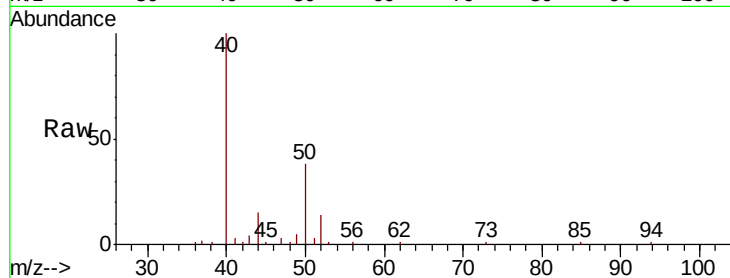
ClientSampled :

Tot Ion: 50 Resp: 14434

Ion Ratio Lower Upper

50 100

52 38.1 26.1 39.1



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.08

6000

5000

4000

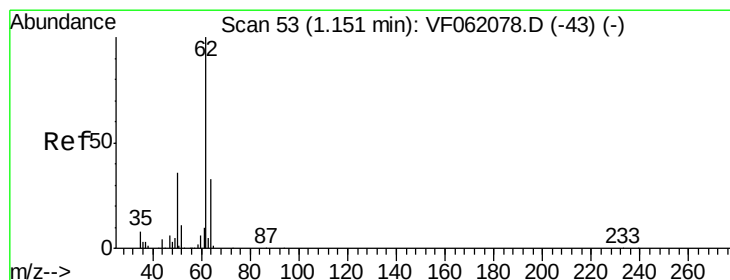
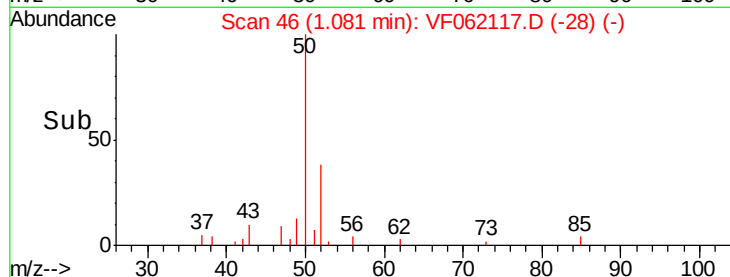
3000

2000

1000

0

Time-->



#4

Vinyl Chloride

Concen: 82.141 ug/l

RT: 1.13 min Scan# 51

Delta R.T. -0.02 min

Lab File: VF062117.D

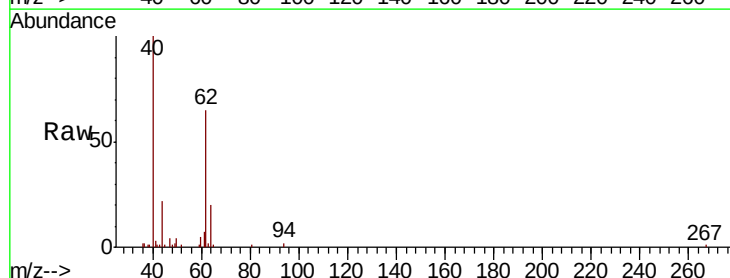
Acq: 23 Mar 2019 15:10

Tgt Ion: 62 Resp: 19635

Ion Ratio Lower Upper

62 100

64 30.0 26.2 39.2



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0

1.13

10000

8000

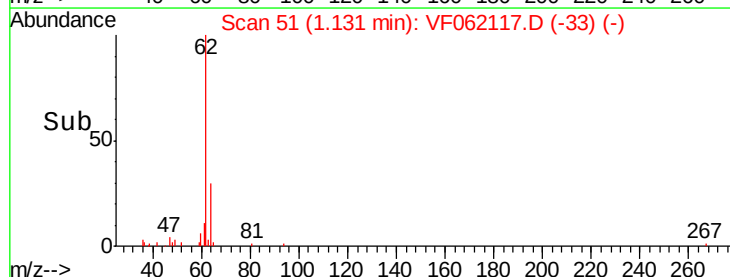
6000

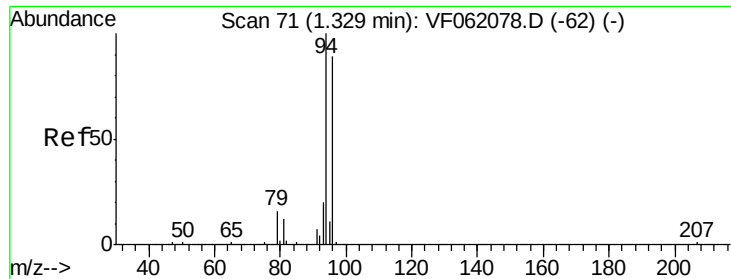
4000

2000

0

Time-->





#5

Bromomethane

Concen: 65.710 ug/l

RT: 1.30 min Scan# 68

Delta R.T. -0.03 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

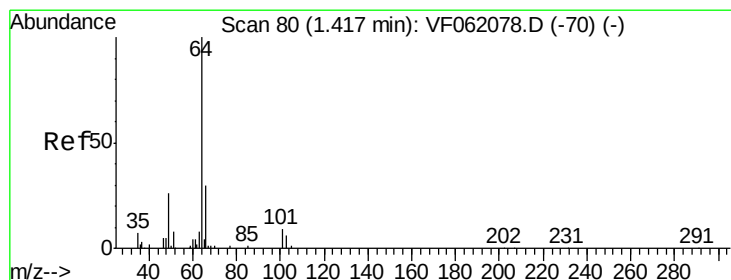
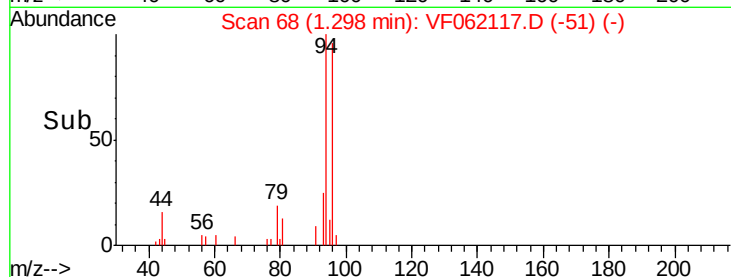
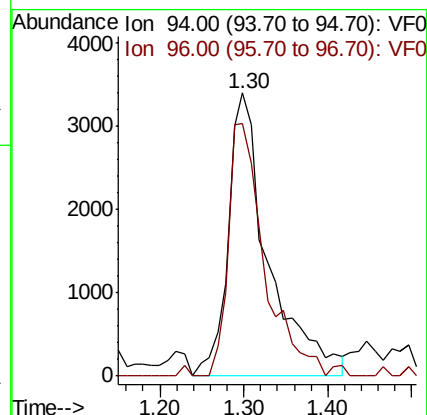
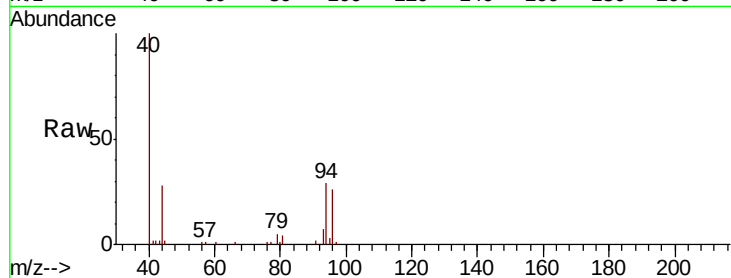
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 94 Resp: 11291

Ion Ratio Lower Upper

94 100

96 89.2 70.9 106.3



#6

Chloroethane

Concen: 66.881 ug/l

RT: 1.36 min Scan# 74

Delta R.T. -0.06 min

Lab File: VF062117.D

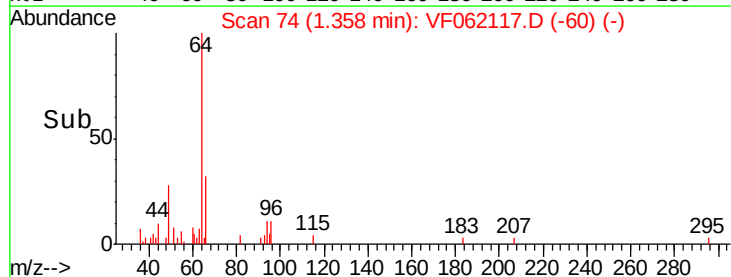
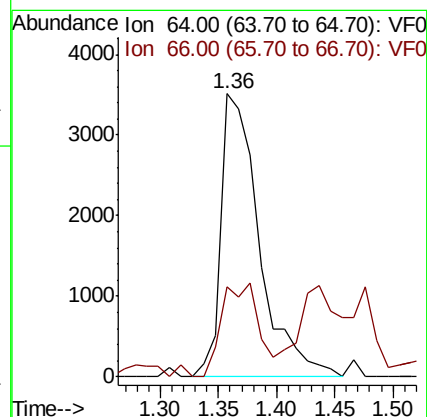
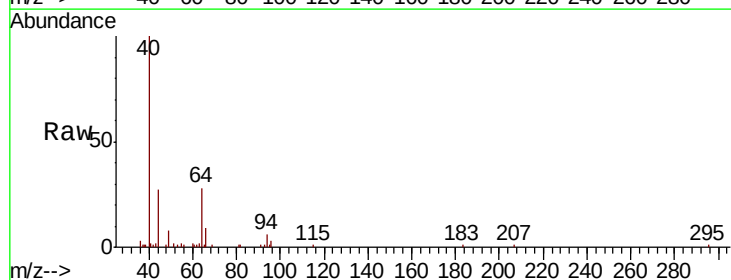
Acq: 23 Mar 2019 15:10

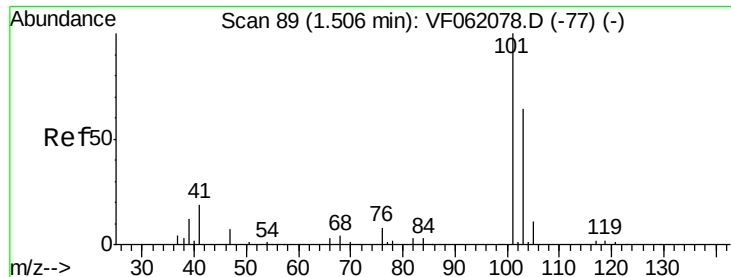
Tgt Ion: 64 Resp: 8048

Ion Ratio Lower Upper

64 100

66 32.0 24.5 36.7





#7

Trichlorofluoromethane

Concen: 92.169 ug/l

RT: 1.45 min Scan# 83

Delta R.T. -0.06 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

Instrument :

MSVOA_F

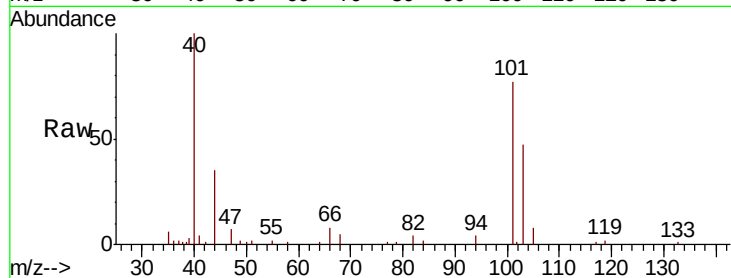
ClientSampleId :

Tot Ion:101 Resp: 26609

Ion Ratio Lower Upper

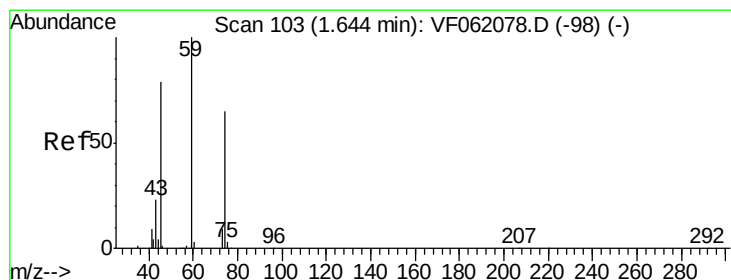
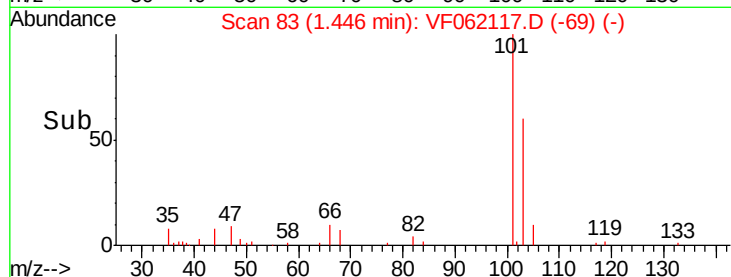
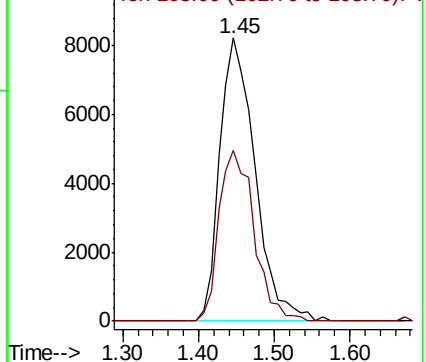
101 100

103 60.3 51.5 77.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 17.863 ug/l

RT: 1.63 min Scan# 102

Delta R.T. -0.01 min

Lab File: VF062117.D

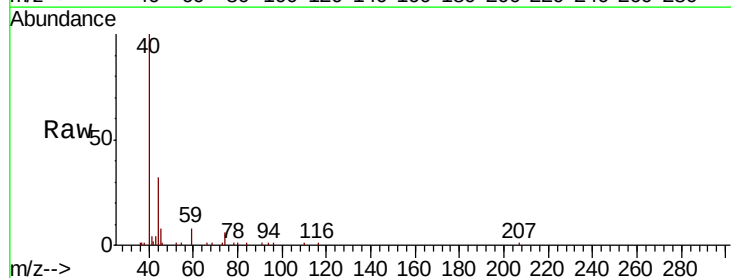
Acq: 23 Mar 2019 15:10

Tgt Ion: 74 Resp: 1178

Ion Ratio Lower Upper

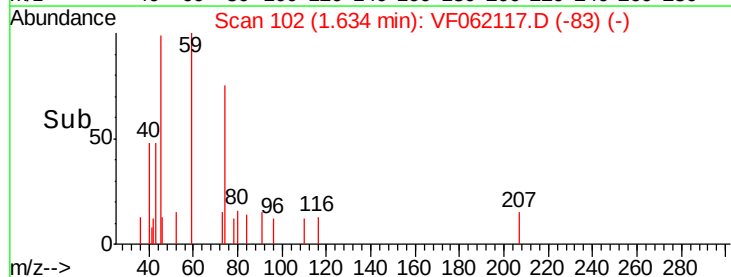
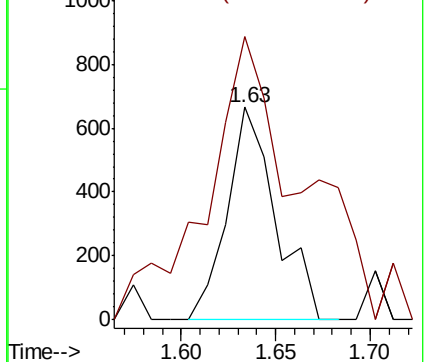
74 100

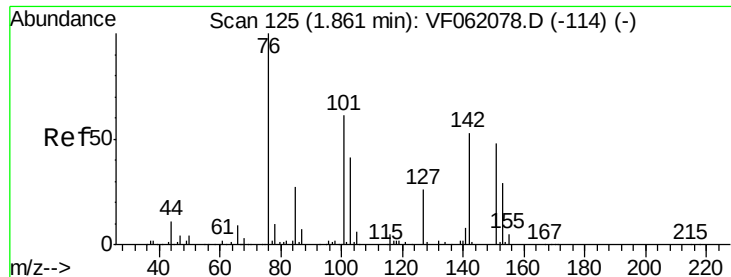
45 133.2 61.4 184.2



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 85.005 ug/l

RT: 1.81 min Scan# 120

Delta R.T. -0.05 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

Instrument :

MSVOA_F

ClientSampled :

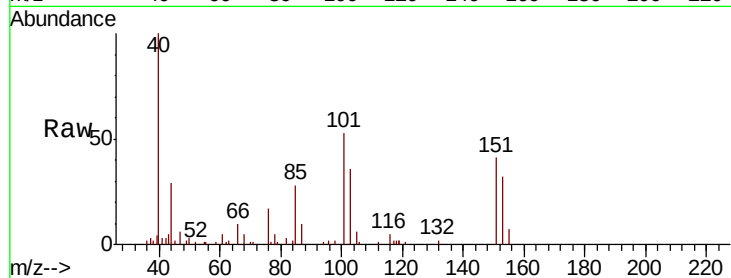
Tot Ion:101 Resp: 16742

Ion Ratio Lower Upper

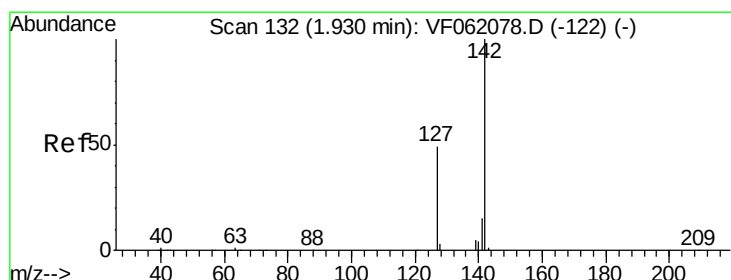
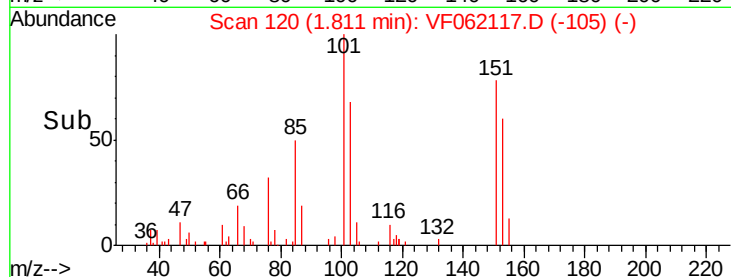
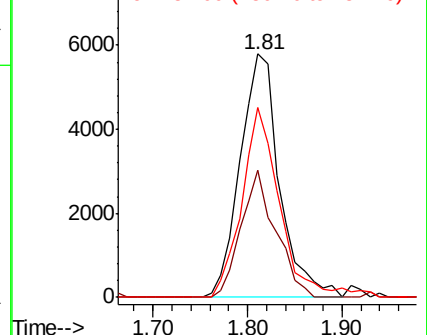
101 100

85 52.3 34.6 52.0#

151 78.0 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: 49.798 ug/l

RT: 1.85 min Scan# 124

Delta R.T. -0.08 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

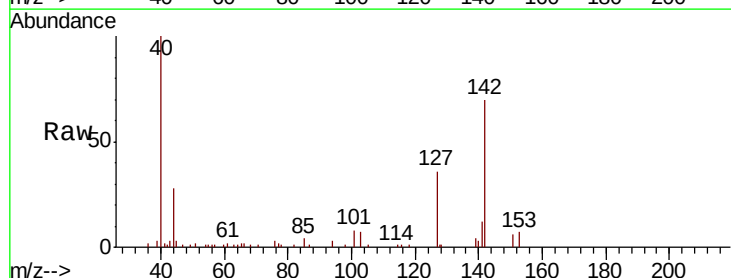
Tgt Ion:142 Resp: 18638

Ion Ratio Lower Upper

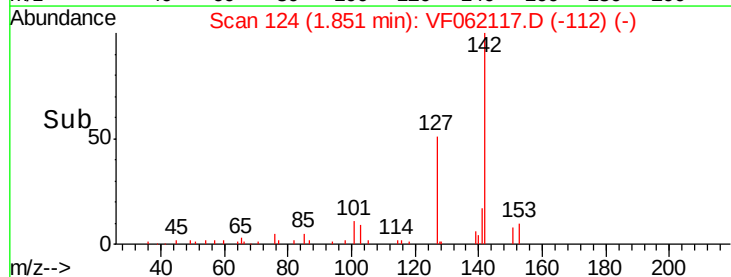
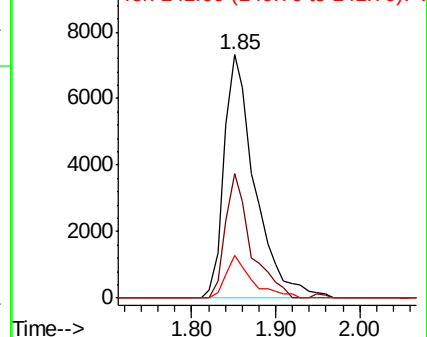
142 100

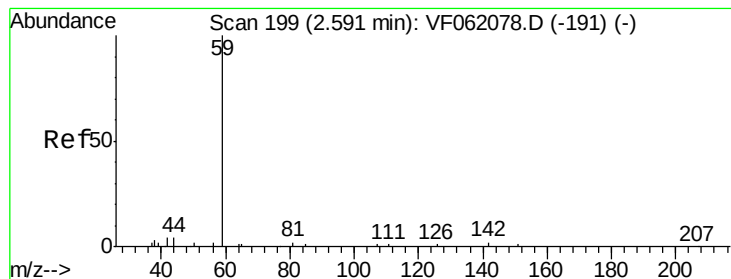
127 51.3 39.1 58.7

141 17.3 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



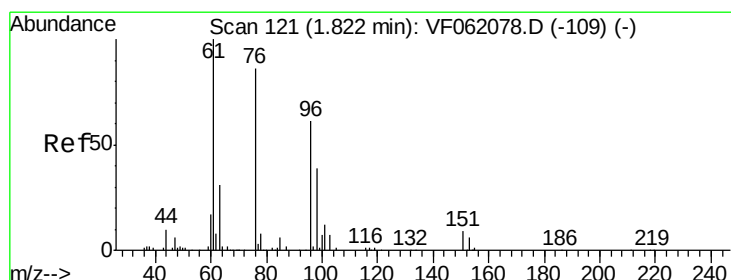
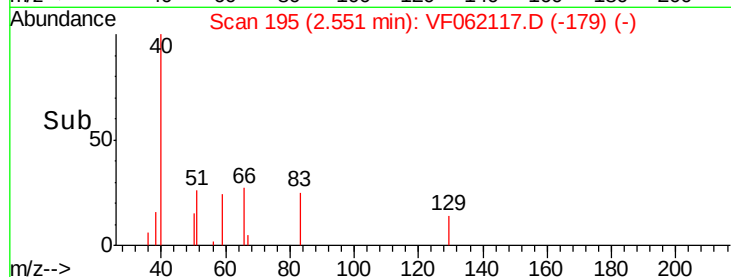
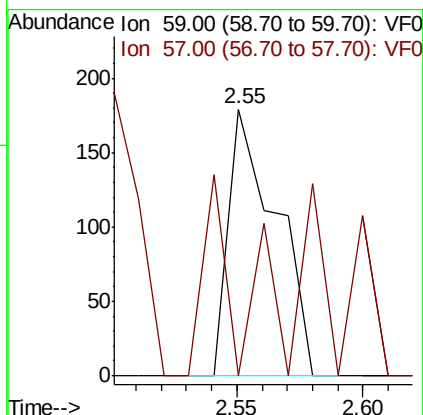
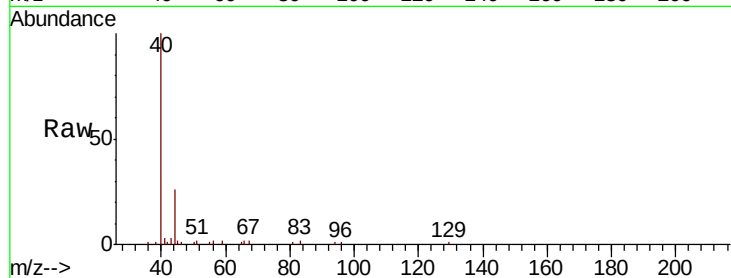


#11

Tert butyl alcohol
 Concen: 29.784 ug/l
 RT: 2.55 min Scan# 195
 Delta R.T. -0.04 min
 Lab File: VF062117.D
 Acq: 23 Mar 2019 15:10

Instrument :
 MSVOA_F
 ClientSampled :

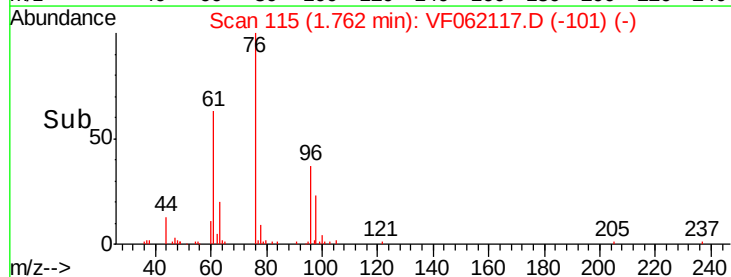
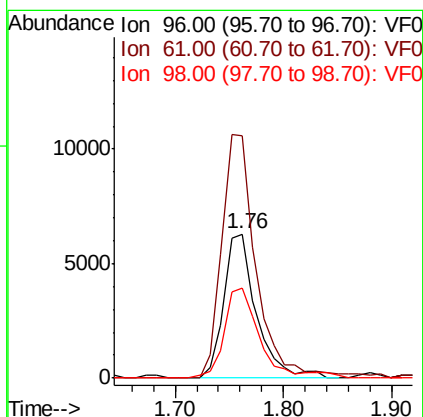
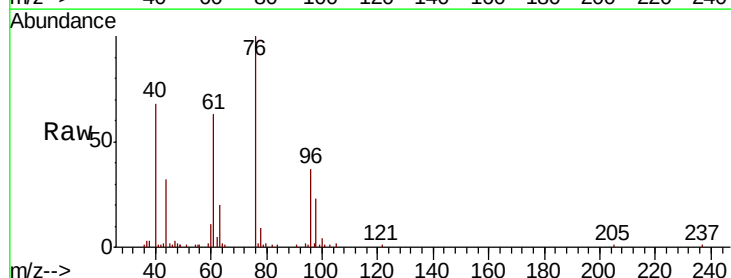
Tot Ion: 59 Resp: 235
 Ion Ratio Lower Upper
 59 100
 57 0.0 11.0 16.4#

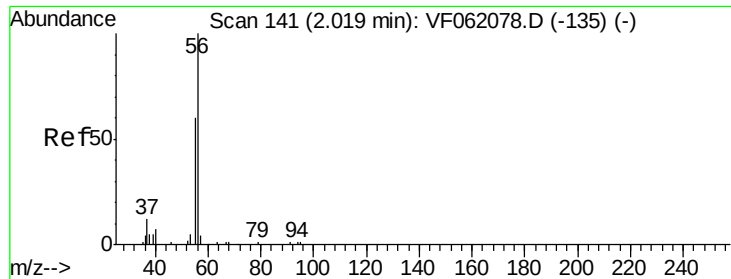


#12

1,1-Dichloroethene
 Concen: 71.429 ug/l
 RT: 1.76 min Scan# 115
 Delta R.T. -0.06 min
 Lab File: VF062117.D
 Acq: 23 Mar 2019 15:10

Tgt Ion: 96 Resp: 13274
 Ion Ratio Lower Upper
 96 100
 61 168.4 131.0 196.6
 98 62.8 51.5 77.3

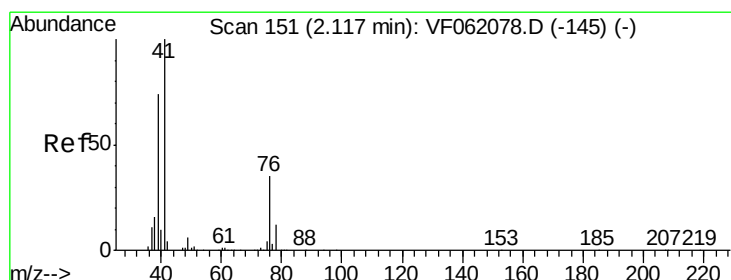
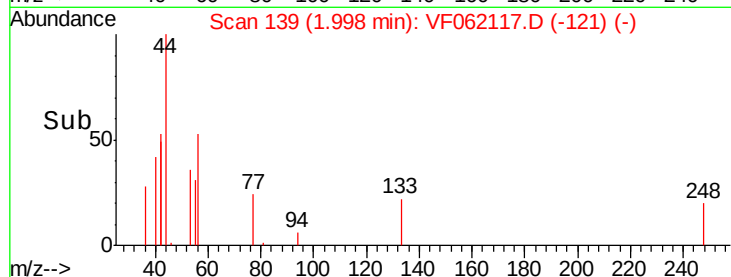
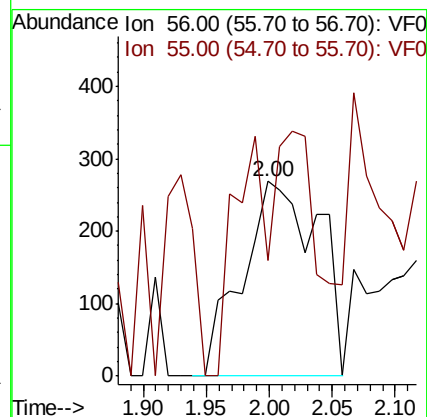
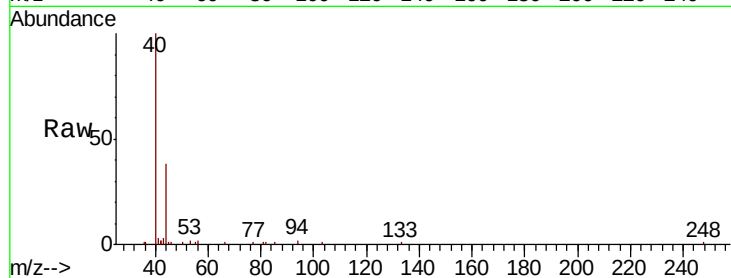




#13
Acrolein
Concen: 118.573 ug/l
RT: 2.00 min Scan# 139
Delta R.T. -0.02 min
Lab File: VF062117.D
Acq: 23 Mar 2019 15:10

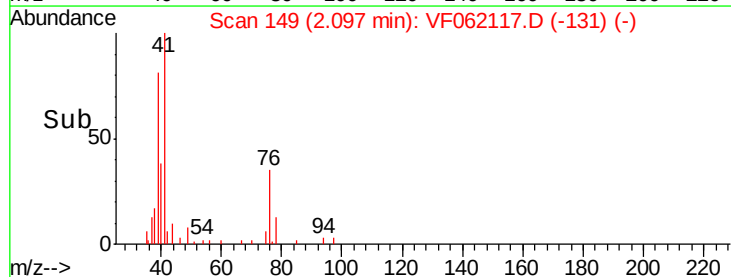
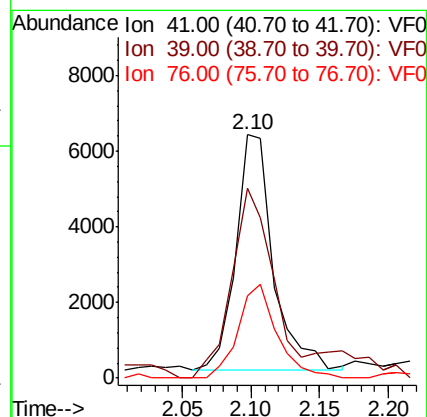
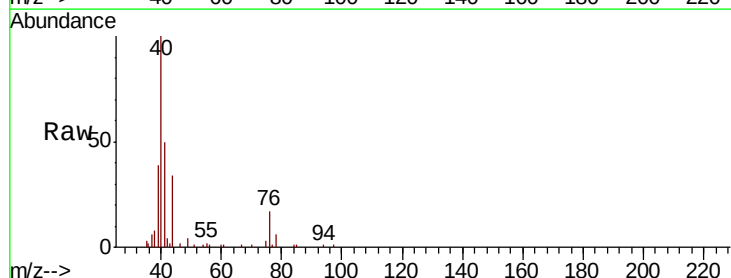
Instrument :
MSVOA_F
ClientSampleId :

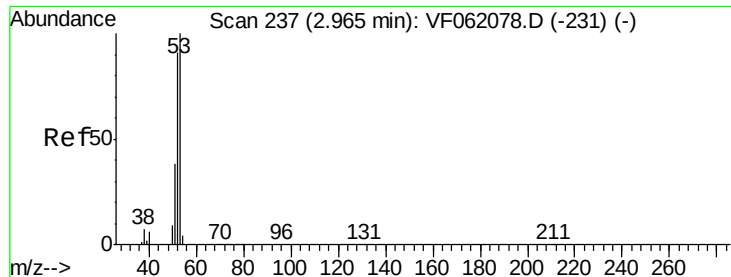
Tot Ion: 56 Resp: 1125
Ion Ratio Lower Upper
56 100
55 59.1 49.0 73.4



#14
Allyl chloride
Concen: 59.806 ug/l
RT: 2.10 min Scan# 149
Delta R.T. -0.02 min
Lab File: VF062117.D
Acq: 23 Mar 2019 15:10

Tgt Ion: 41 Resp: 11866
Ion Ratio Lower Upper
41 100
39 78.1 59.8 89.8
76 33.9 30.0 45.0





#15

Acrylonitrile

Concen: 81.708 ug/l

RT: 2.95 min Scan# 236

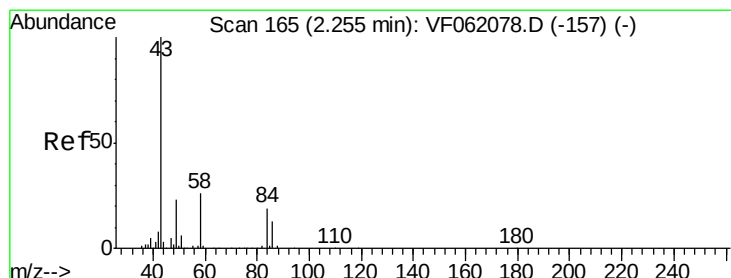
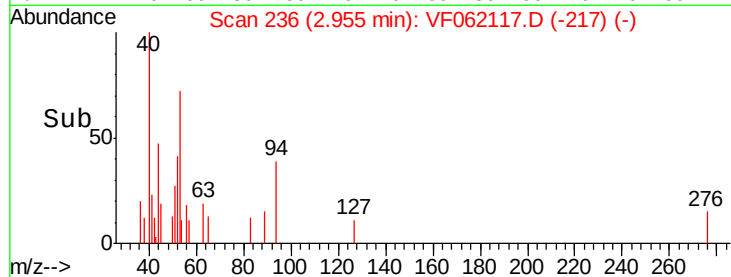
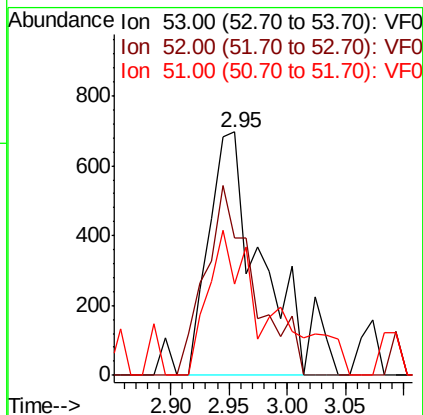
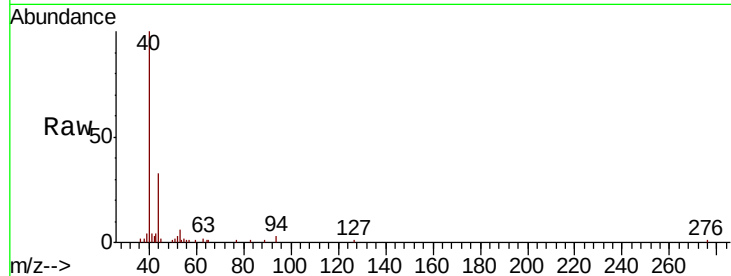
Delta R.T. -0.01 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	53	Resp:	2267
Ion	Ratio	Lower	Upper
53	100		
52	56.5	72.3	108.5#
51	37.4	30.4	45.6



#16

Acetone

Concen: 136.545 ug/l

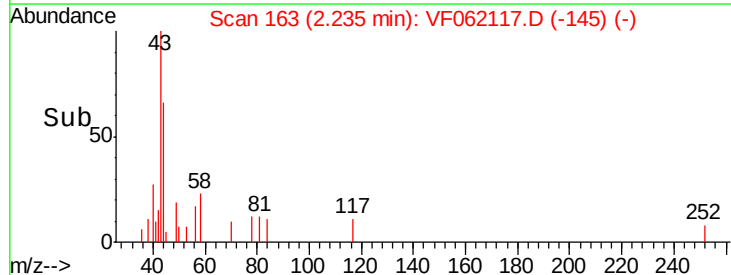
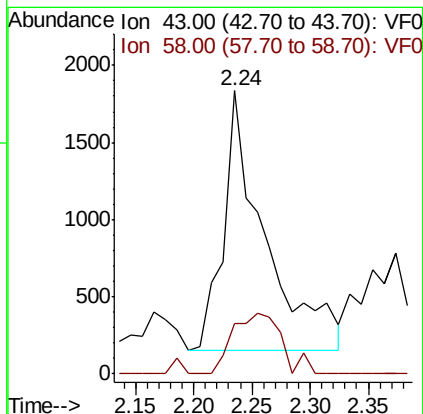
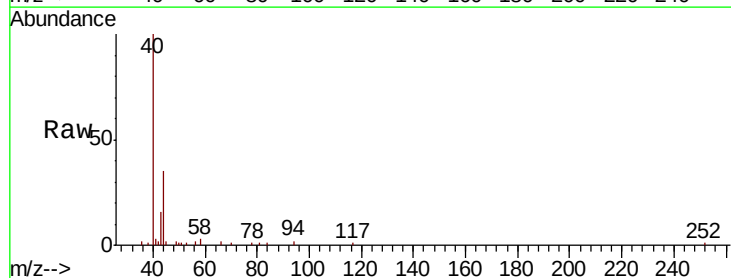
RT: 2.24 min Scan# 163

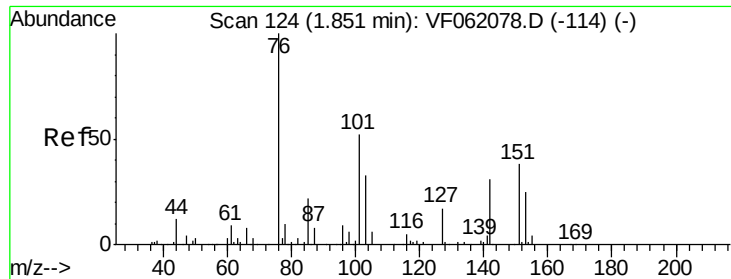
Delta R.T. -0.02 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

Tgt Ion:	43	Resp:	4121
Ion	Ratio	Lower	Upper
43	100		
58	18.0	20.8	31.2#





#17

Carbon Disulfide

Concen: 77.500 ug/l

RT: 1.77 min Scan# 116

Delta R.T. -0.08 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

Instrument :

MSVOA_F

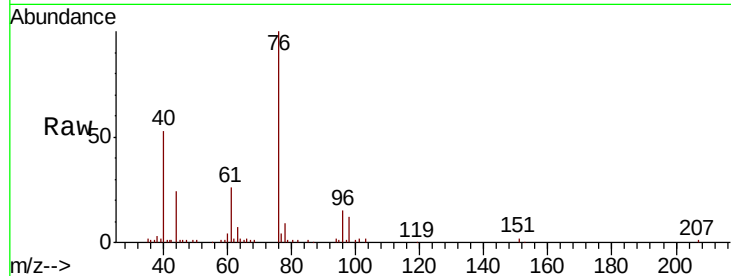
ClientSampled :

Tot Ion: 76 Resp: 43918

Ion Ratio Lower Upper

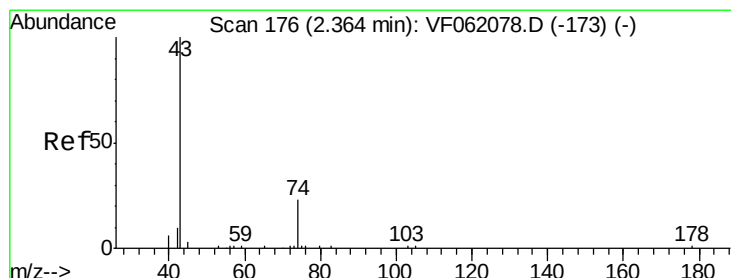
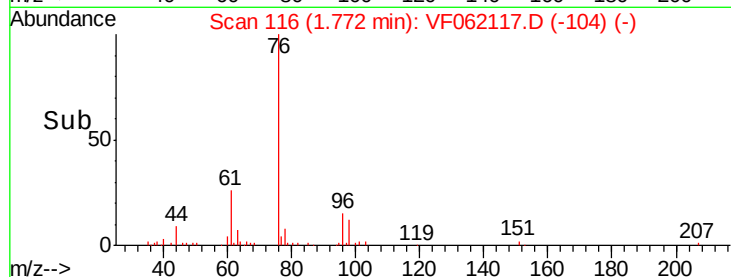
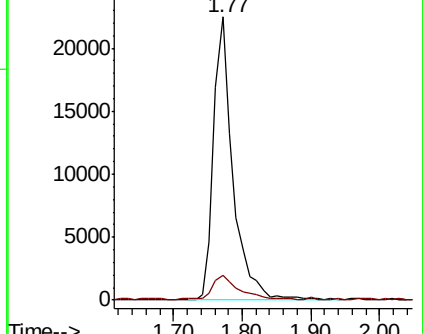
76 100

78 8.9 7.9 11.9



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#18

Methyl Acetate

Concen: 21.336 ug/l

RT: 2.37 min Scan# 177

Delta R.T. 0.01 min

Lab File: VF062117.D

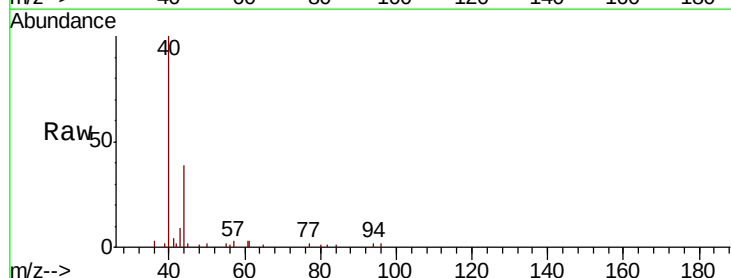
Acq: 23 Mar 2019 15:10

Tgt Ion: 43 Resp: 1536

Ion Ratio Lower Upper

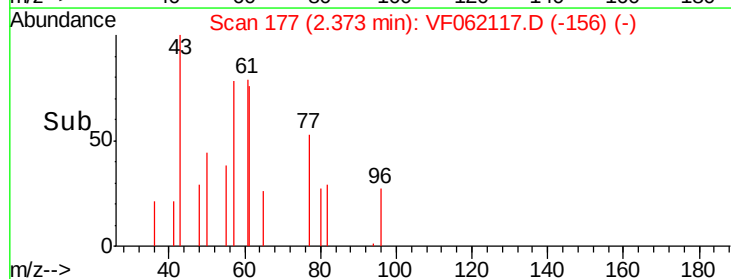
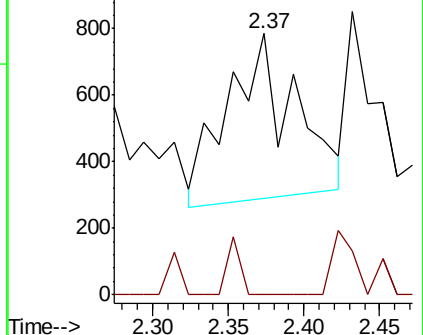
43 100

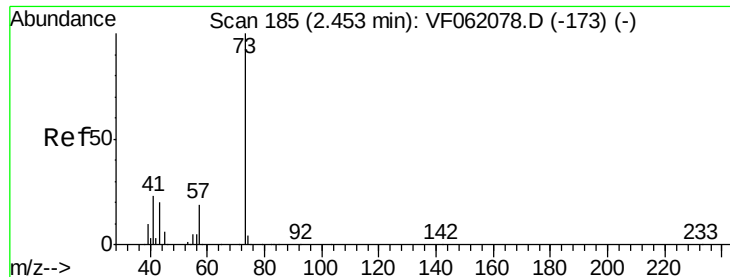
74 0.0 16.3 24.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

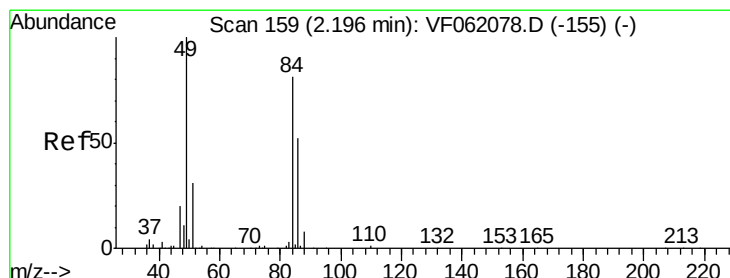
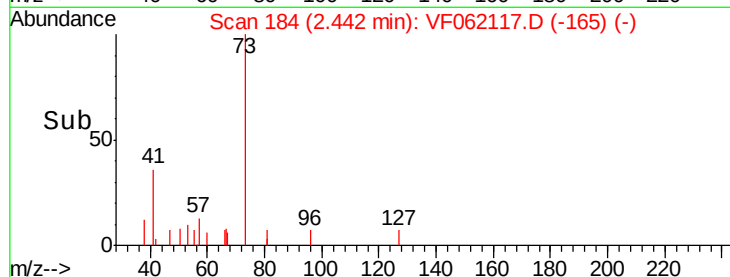
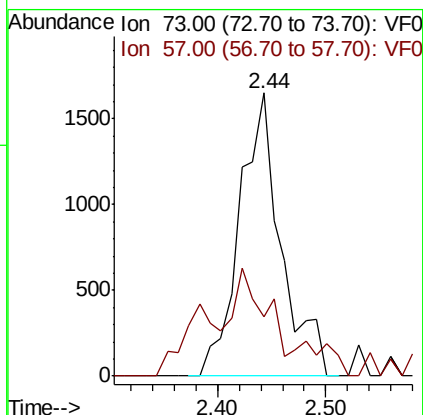
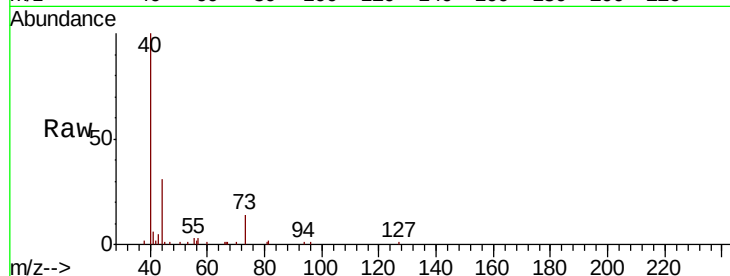




#19
Methyl tert-butyl Ether
Concen: 15.083 ug/l
RT: 2.44 min Scan# 184
Delta R.T. -0.01 min
Lab File: VF062117.D
Acq: 23 Mar 2019 15:10

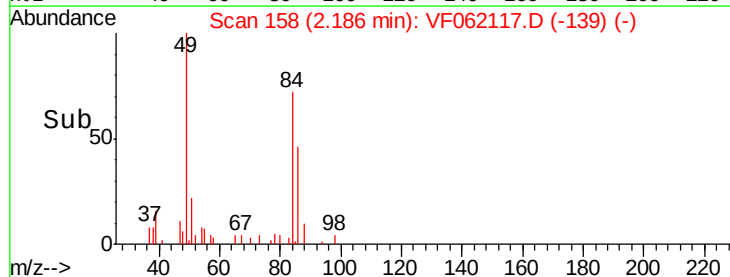
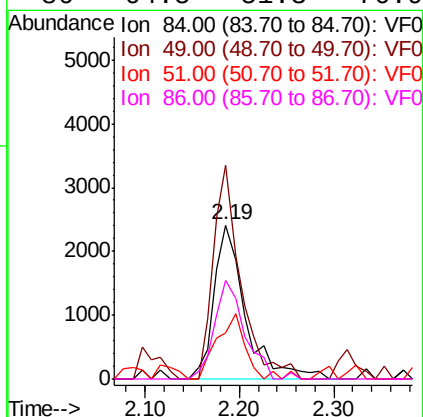
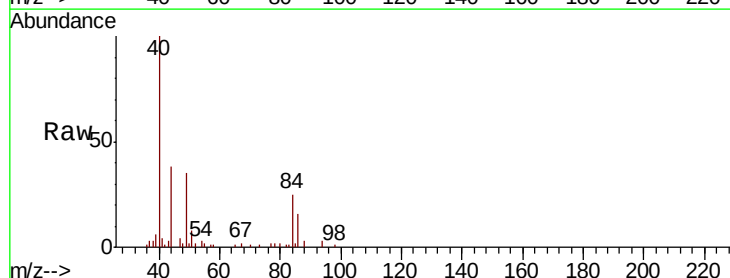
Instrument :
MSVOA_F
ClientSampleId :

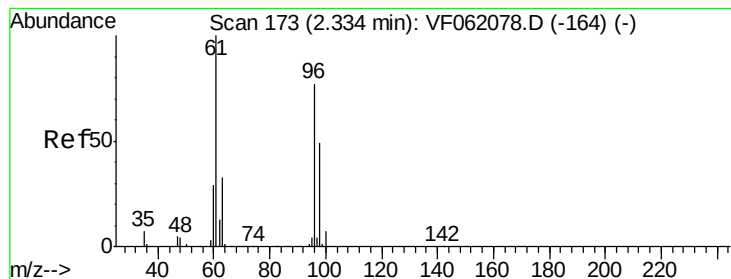
Tot Ion: 73 Resp: 4430
Ion Ratio Lower Upper
73 100
57 20.8 15.1 22.7



#20
Methylene Chloride
Concen: 29.299 ug/l
RT: 2.19 min Scan# 158
Delta R.T. -0.01 min
Lab File: VF062117.D
Acq: 23 Mar 2019 15:10

Tgt Ion: 84 Resp: 5558
Ion Ratio Lower Upper
84 100
49 138.9 100.4 150.6
51 30.2 31.0 46.6#
86 64.5 51.3 76.9





#21

trans-1,2-Dichloroethene

Concen: 62.342 ug/l

RT: 2.31 min Scan# 171

Delta R.T. -0.02 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

Instrument :

MSVOA_F

ClientSampleId :

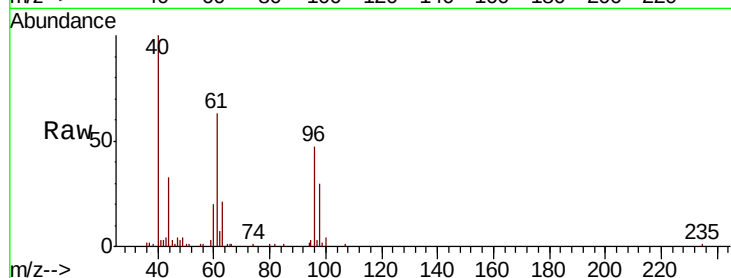
Tot Ion: 96 Resp: 11147

Ion Ratio Lower Upper

96 100

61 132.5 104.5 156.7

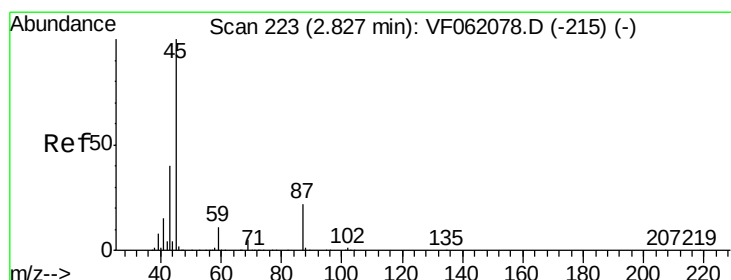
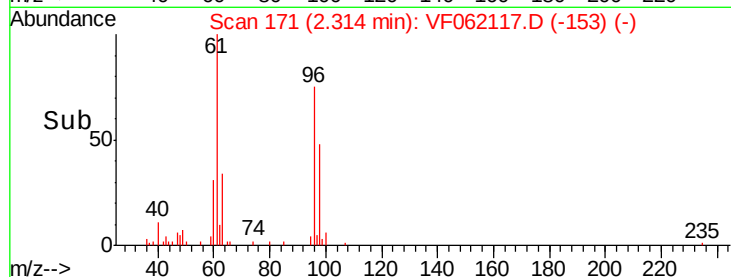
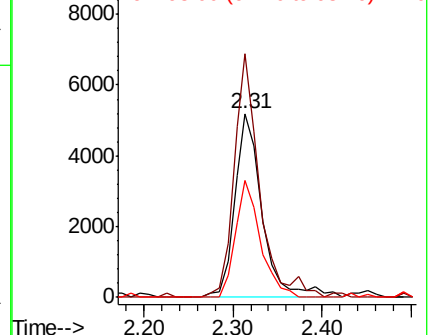
98 63.9 51.2 76.8



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: 24.737 ug/l

RT: 2.80 min Scan# 220

Delta R.T. -0.03 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

Tgt Ion: 45 Resp: 12868

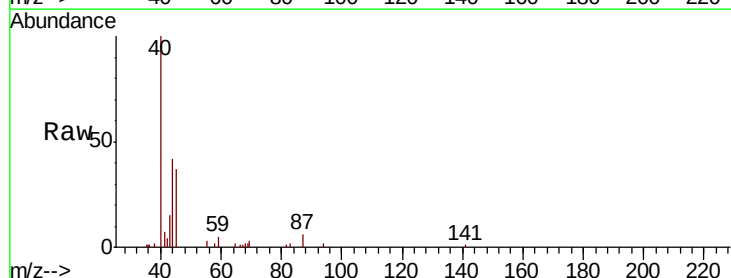
Ion Ratio Lower Upper

45 100

43 39.9 32.5 48.7

87 15.4 17.4 26.2#

59 13.4 8.6 12.8#

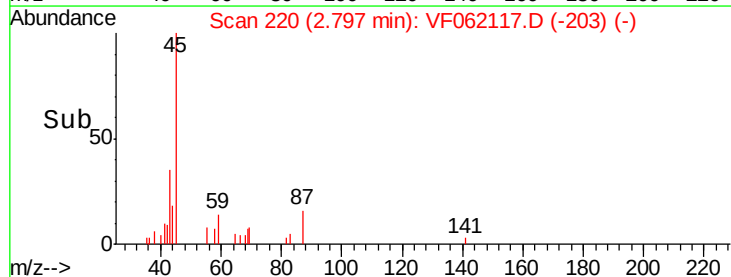
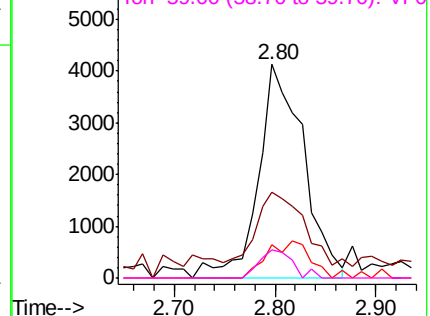


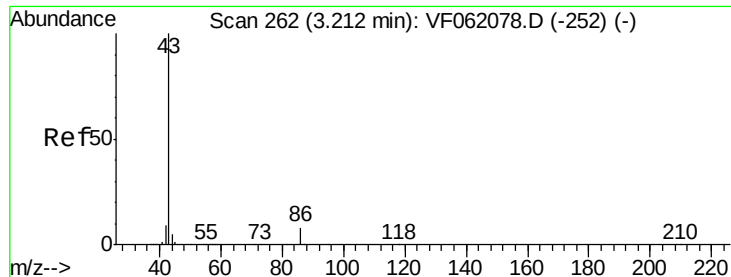
Abundance Ion 45.00 (44.70 to 45.70): VF0

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: 39.107 ug/l

RT: 3.19 min Scan# 260

Delta R.T. -0.02 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

Instrument :

MSVOA_F

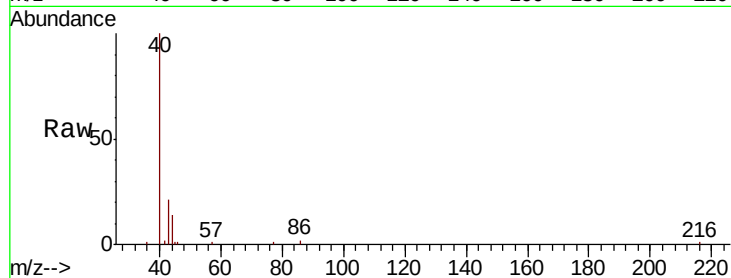
ClientSampleId :

Tot Ion: 43 Resp: 8329

Ion Ratio Lower Upper

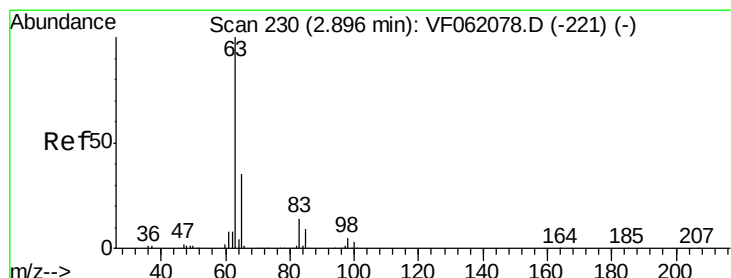
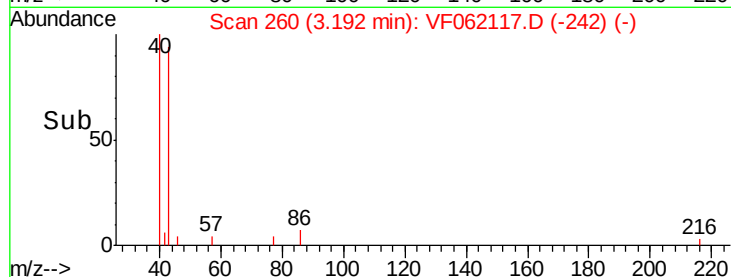
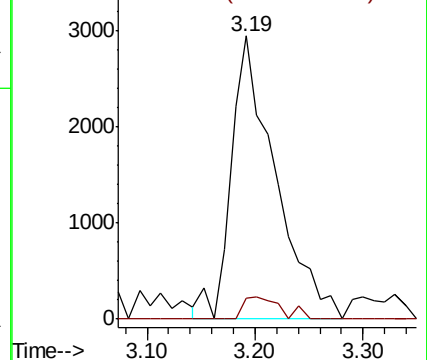
43 100

86 7.5 6.8 10.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 39.689 ug/l

RT: 2.88 min Scan# 228

Delta R.T. -0.02 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

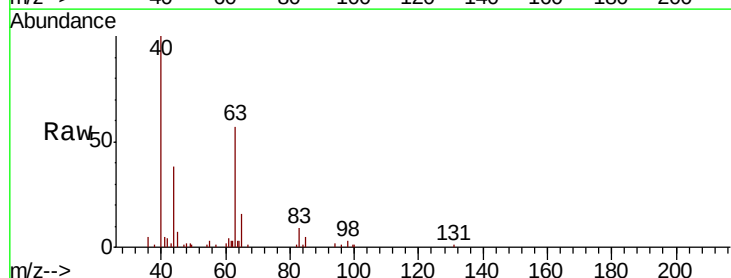
Tgt Ion: 63 Resp: 12381

Ion Ratio Lower Upper

63 100

98 5.7 2.7 8.1

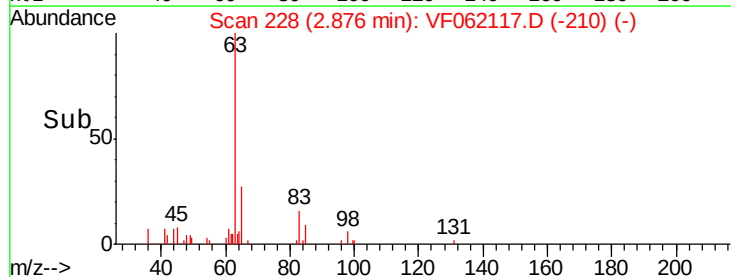
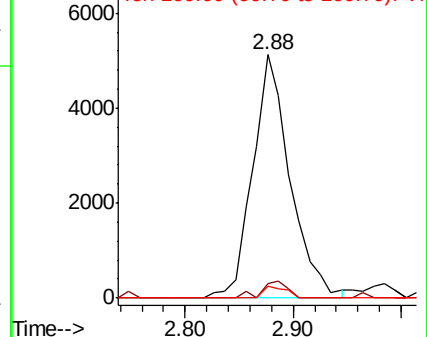
100 4.6 1.7 5.1

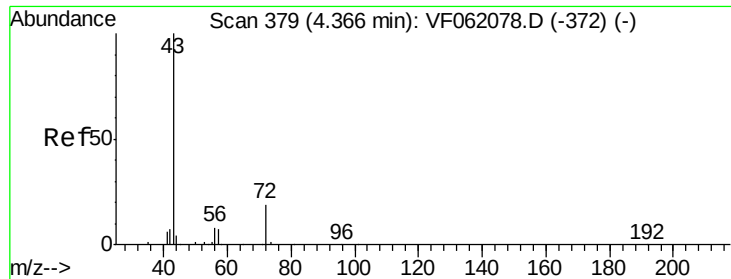


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 109.593 ug/l

RT: 4.37 min Scan# 380

Delta R.T. 0.01 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

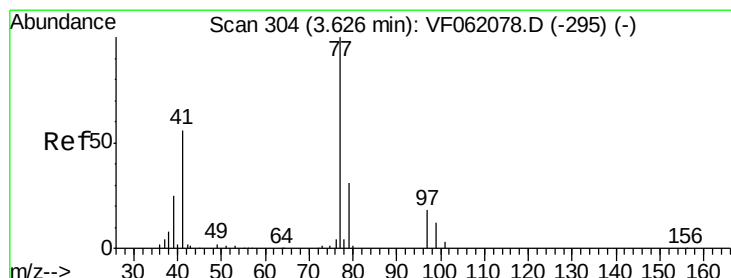
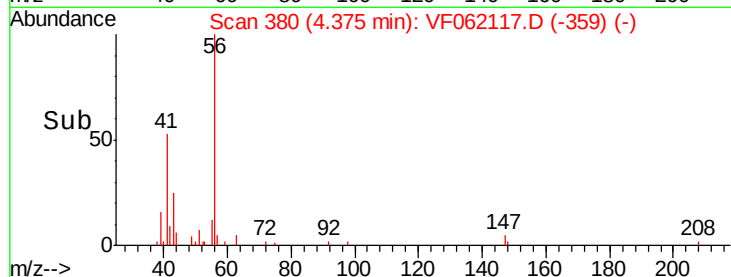
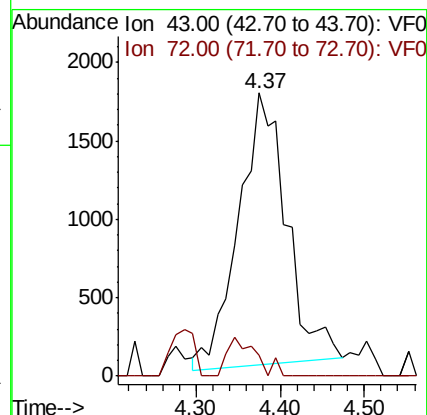
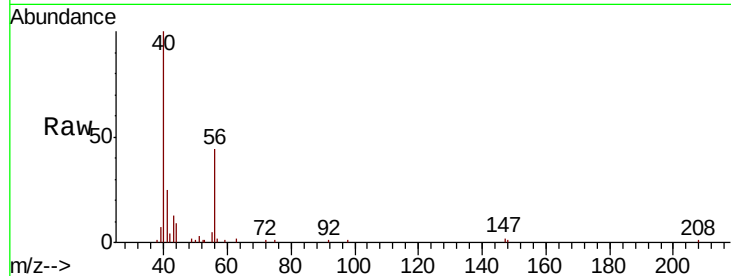
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 6905

Ion Ratio Lower Upper

43 100

72 7.3 16.7 25.1#



#26

2,2-Dichloropropane

Concen: 114.072 ug/l

RT: 3.61 min Scan# 302

Delta R.T. -0.02 min

Lab File: VF062117.D

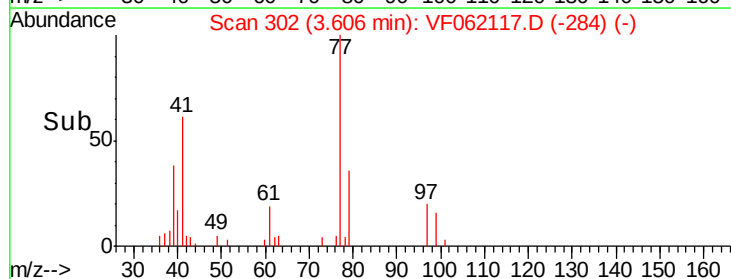
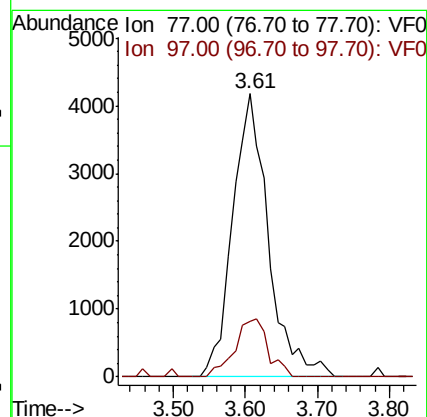
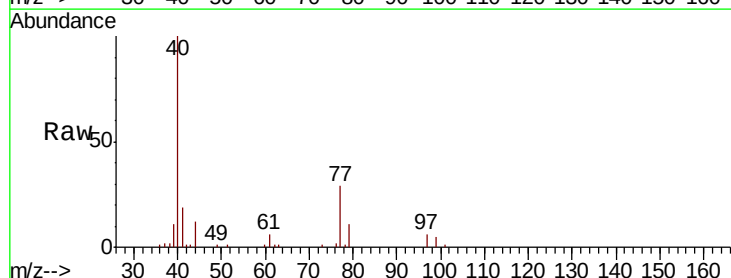
Acq: 23 Mar 2019 15:10

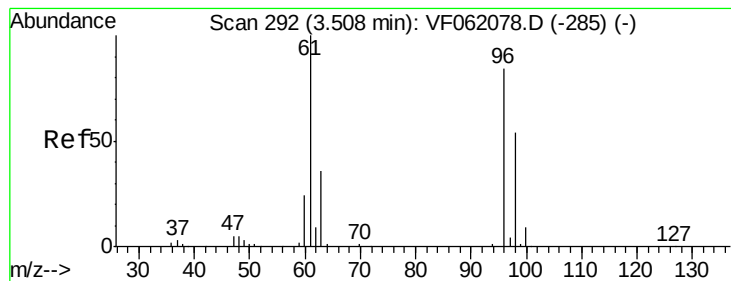
Tgt Ion: 77 Resp: 14428

Ion Ratio Lower Upper

77 100

97 19.7 10.3 30.9



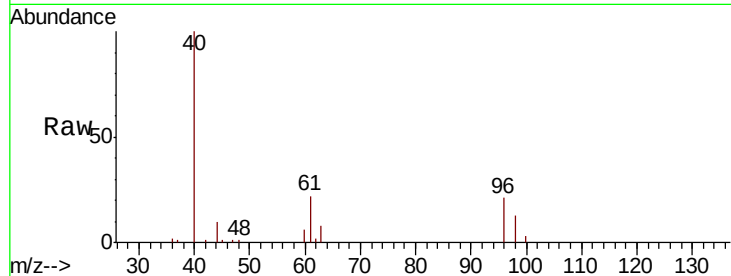


#27

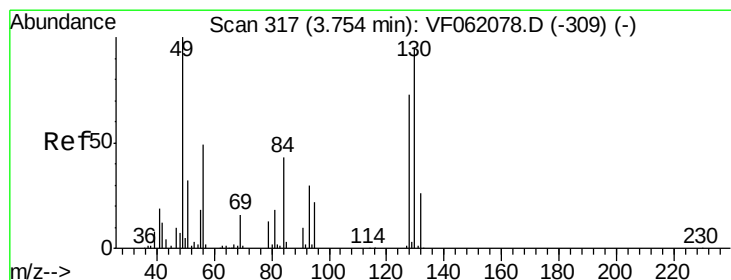
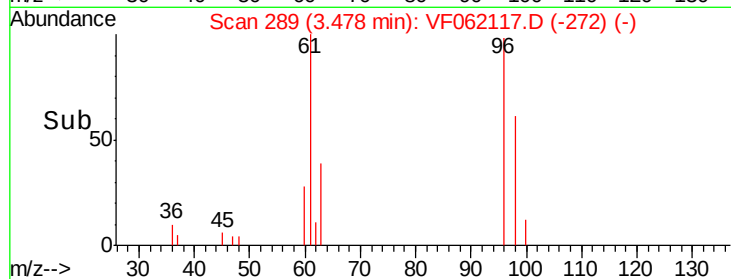
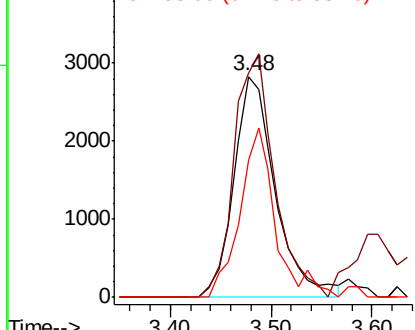
cis-1,2-Dichloroethene
 Concen: 34.169 ug/l
 RT: 3.48 min Scan# 289
 Delta R.T. -0.03 min
 Lab File: VF062117.D
 Acq: 23 Mar 2019 15:10

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	101.9	0.0	239.0
98	62.0	0.0	128.2



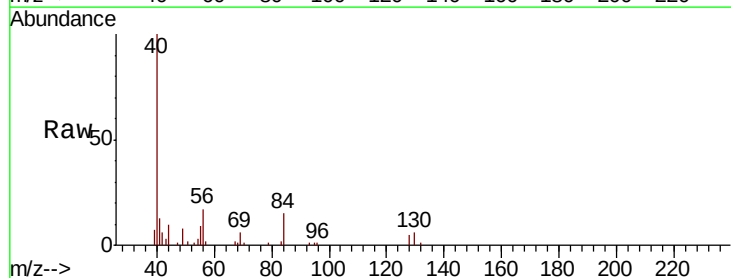
Abundance Ion 96.00 (95.70 to 96.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 98.00 (97.70 to 98.70): VF0



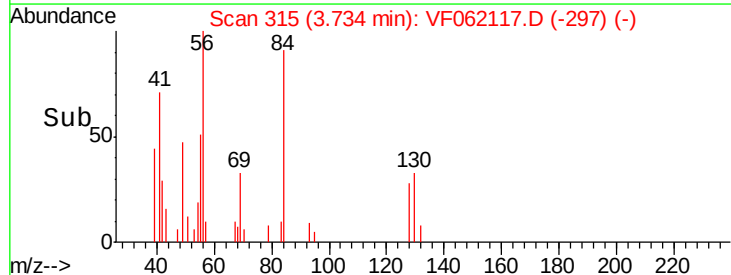
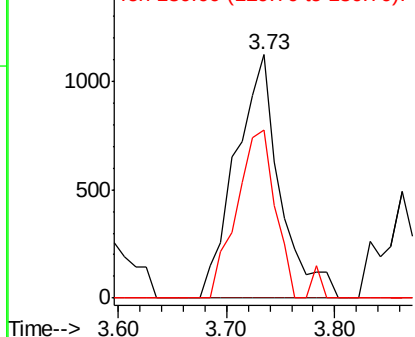
#28

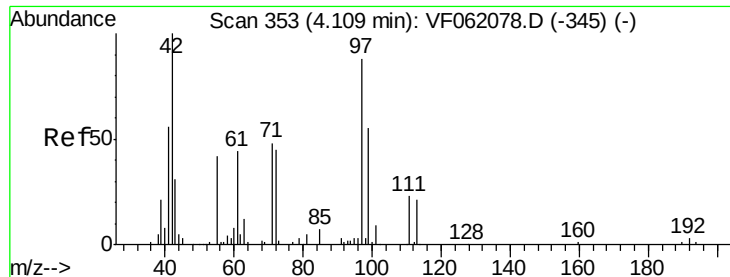
Bromochloromethane
 Concen: 25.115 ug/l
 RT: 3.73 min Scan# 315
 Delta R.T. -0.02 min
 Lab File: VF062117.D
 Acq: 23 Mar 2019 15:10

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	5.6
130	69.0	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: 88.596 ug/l

RT: 4.09 min Scan# 351

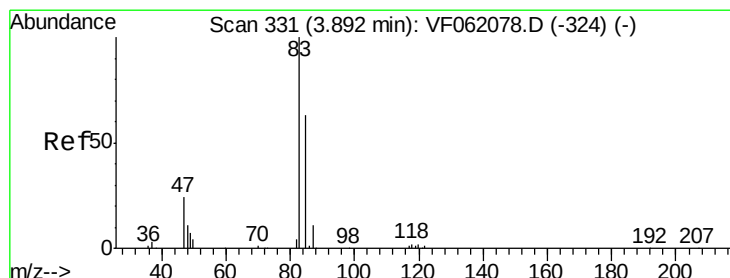
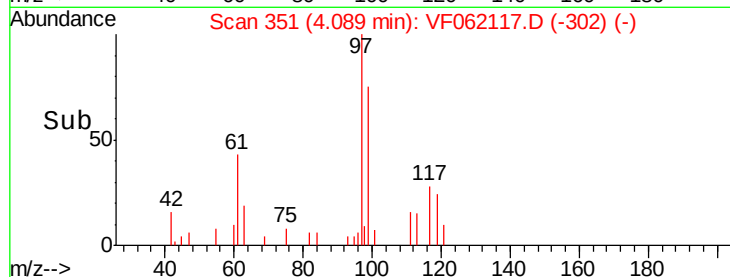
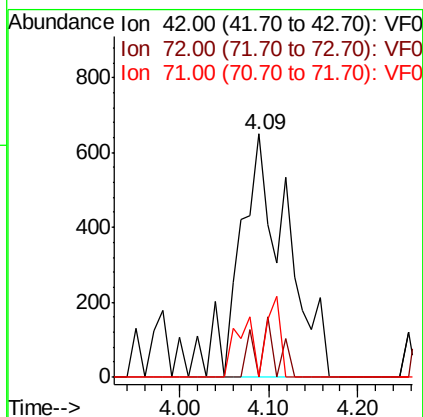
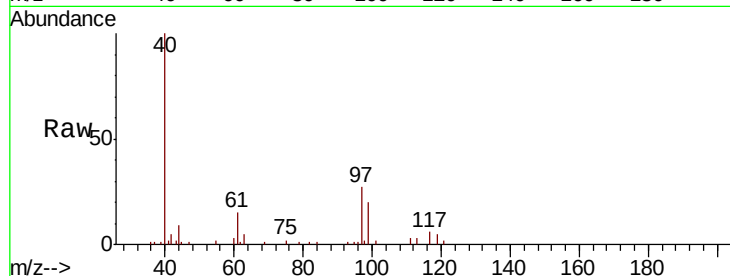
Delta R.T. -0.02 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:	42	Resp:	2427
Ion	Ratio	Lower	Upper
42	100		
72	6.4	33.3	49.9#
71	9.0	35.0	52.4#



#30

Chloroform

Concen: 35.447 ug/l

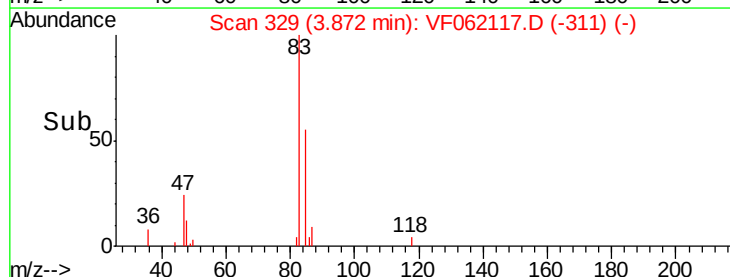
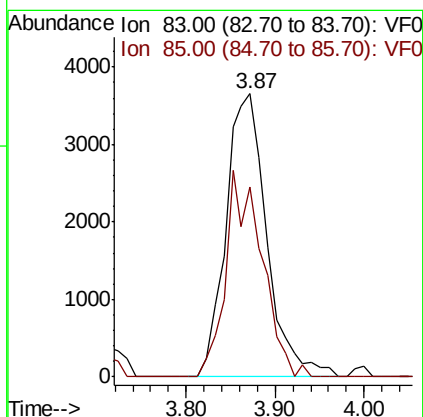
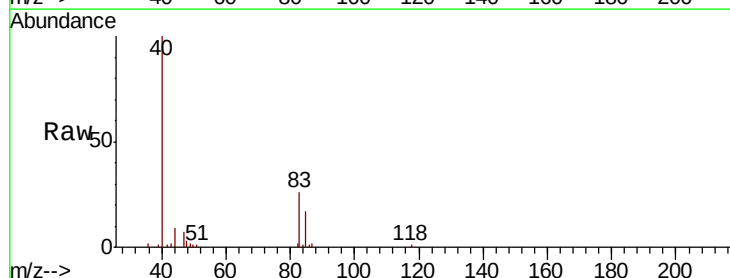
RT: 3.87 min Scan# 329

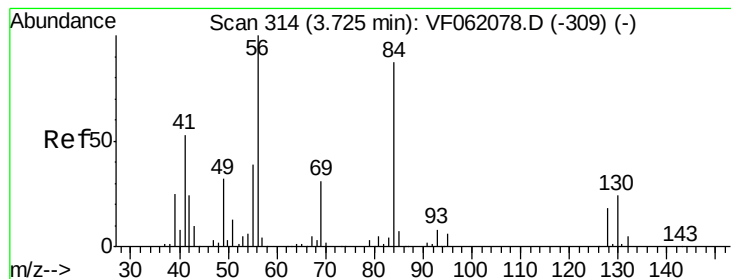
Delta R.T. -0.02 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

Tgt Ion:	83	Resp:	11686
Ion	Ratio	Lower	Upper
83	100		
85	66.9	51.5	77.3





#31

Cyclohexane

Concen: 72.762 ug/l

RT: 3.69 min Scan# 311

Delta R.T. -0.03 min

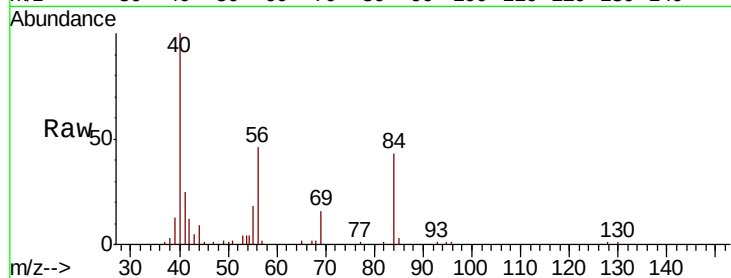
Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 23706

Ion	Ratio	Lower	Upper
56	100		
69	34.1	25.9	38.9
84	94.2	71.1	106.7

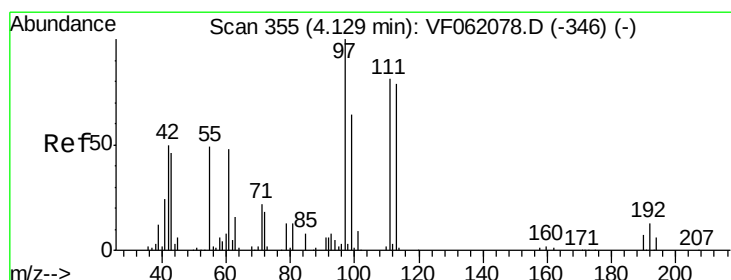
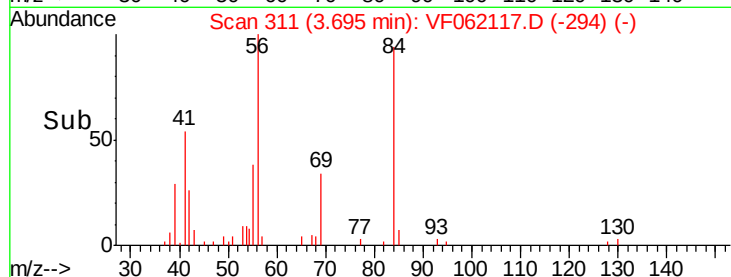
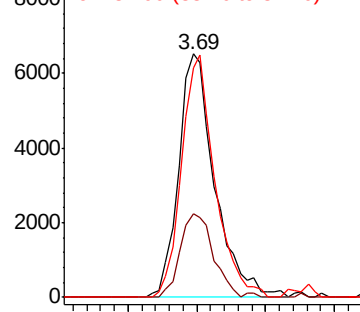


Abundance

Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0



#32

1,1,1-Trichloroethane

Concen: 86.969 ug/l

RT: 4.10 min Scan# 352

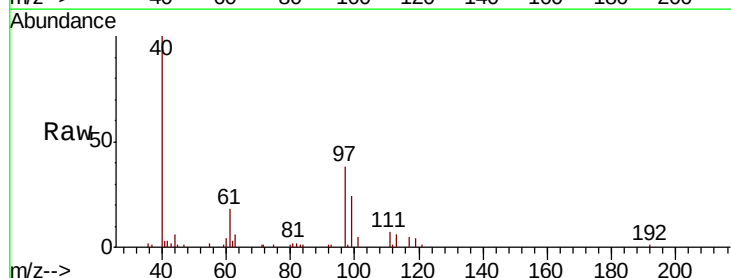
Delta R.T. -0.03 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

Tgt Ion: 97 Resp: 17441

Ion	Ratio	Lower	Upper
97	100		
99	62.7	51.3	76.9
61	48.5	39.0	58.6

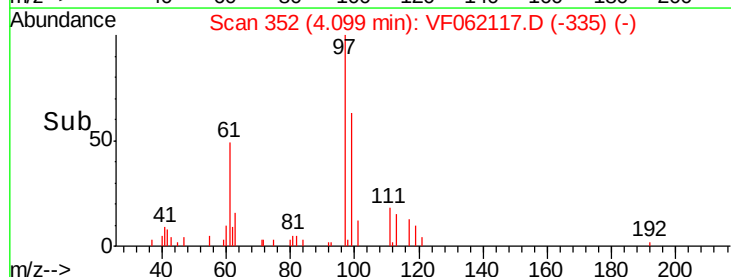
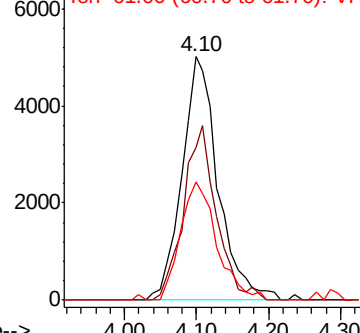


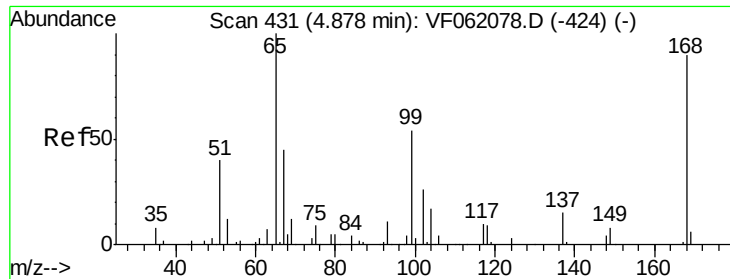
Abundance

Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

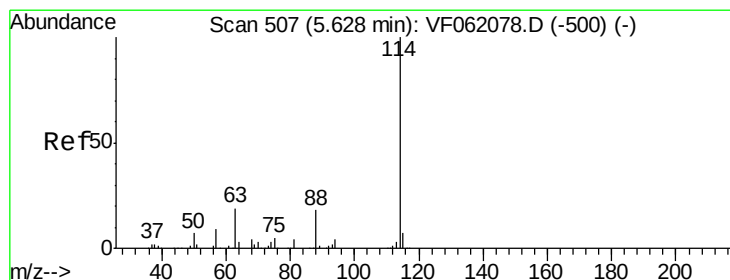
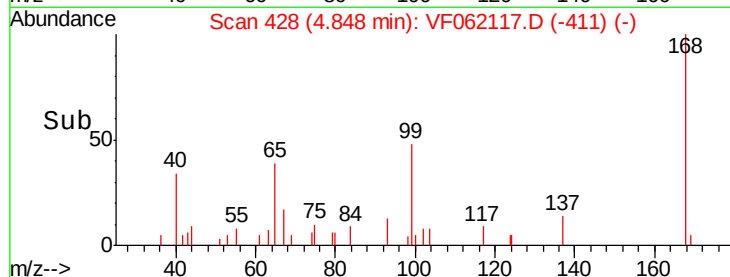
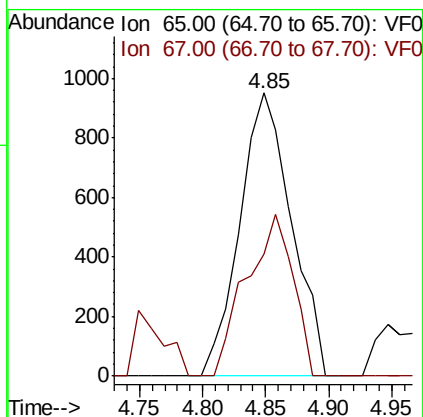
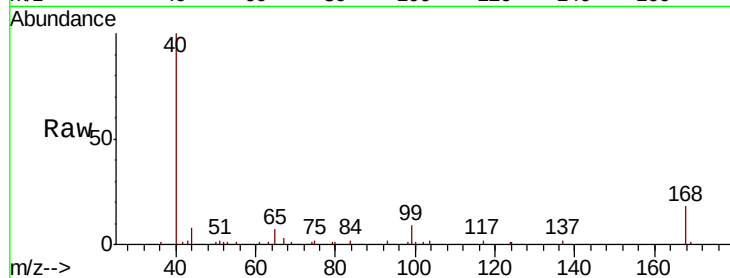




#33
 1,2-Dichloroethane-d4
 Concen: 18.891 ug/l
 RT: 4.85 min Scan# 428
 Delta R.T. -0.03 min
 Lab File: VF062117.D
 Acq: 23 Mar 2019 15:10

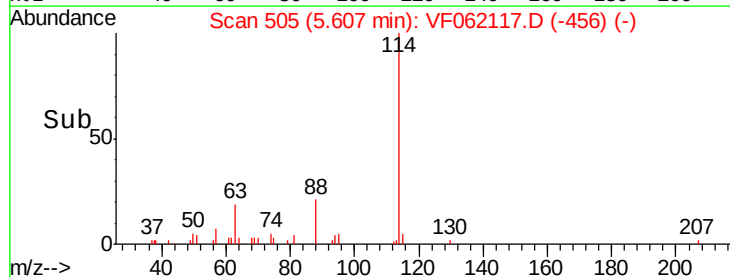
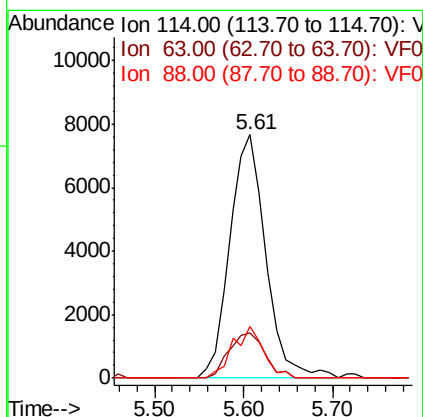
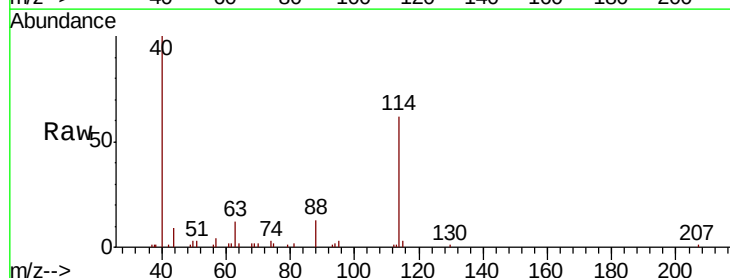
Instrument :
 MSVOA_F
 ClientSampleId :

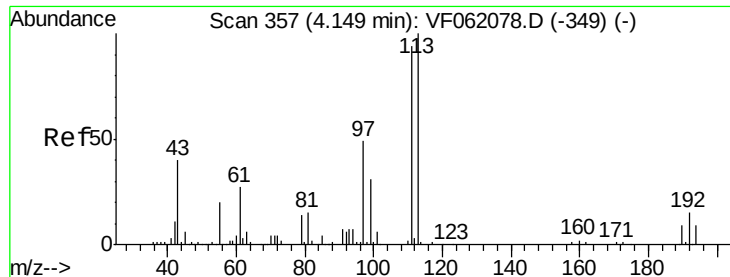
Tot Ion: 65 Resp: 2709
 Ion Ratio Lower Upper
 65 100
 67 43.3 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.61 min Scan# 505
 Delta R.T. -0.02 min
 Lab File: VF062117.D
 Acq: 23 Mar 2019 15:10

Tgt Ion: 114 Resp: 21551
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 37.8
 88 21.0 0.0 36.4

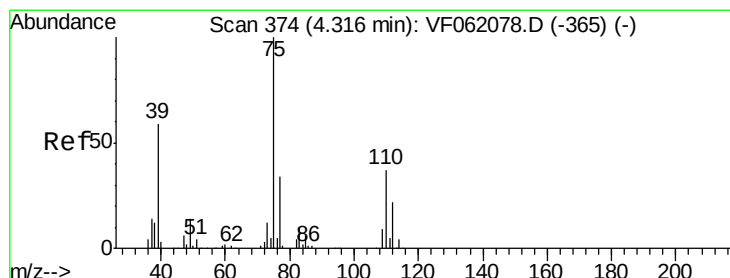
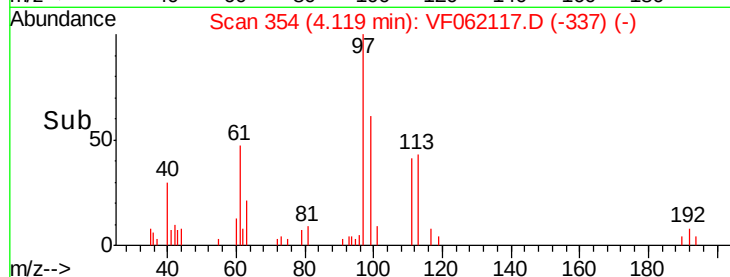
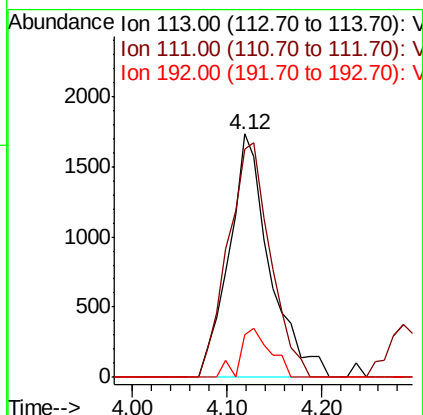
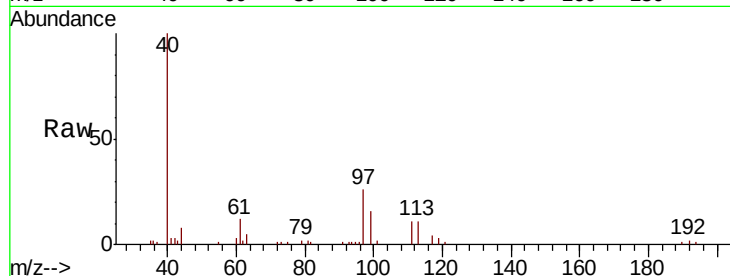




#35
 Dibromofluoromethane
 Concen: 35.443 ug/l
 RT: 4.12 min Scan# 354
 Delta R.T. -0.03 min
 Lab File: VF062117.D
 Acq: 23 Mar 2019 15:10

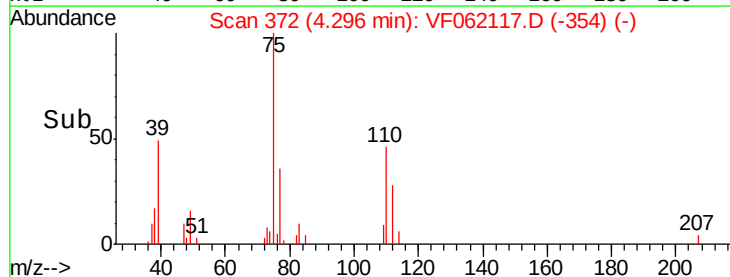
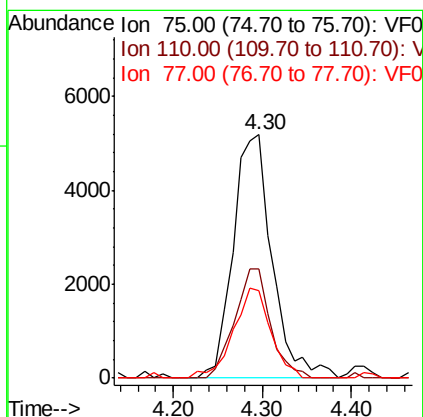
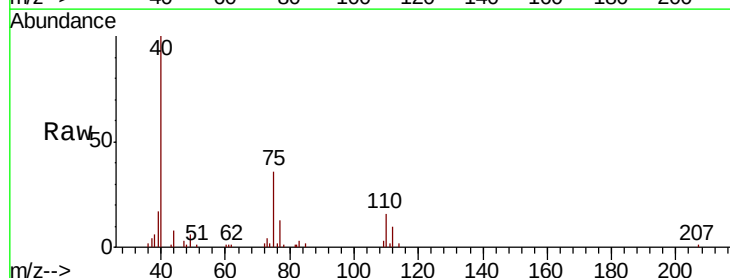
Instrument :
 MSVOA_F
 ClientSampleId :

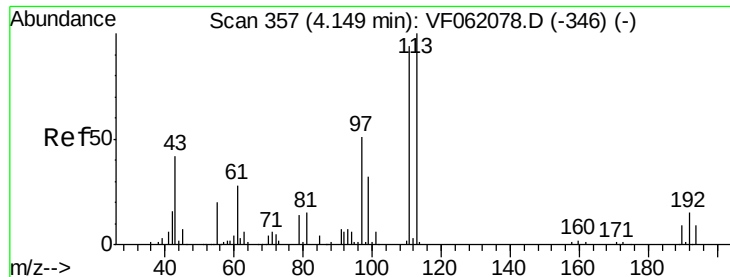
Tot Ion:113 Resp: 5167
 Ion Ratio Lower Upper
 113 100
 111 93.9 75.4 113.0
 192 17.7 12.3 18.5



#36
 1,1-Dichloropropene
 Concen: 77.219 ug/l
 RT: 4.30 min Scan# 372
 Delta R.T. -0.02 min
 Lab File: VF062117.D
 Acq: 23 Mar 2019 15:10

Tgt Ion: 75 Resp: 15851
 Ion Ratio Lower Upper
 75 100
 110 44.9 18.5 55.5
 77 35.7 27.4 41.0

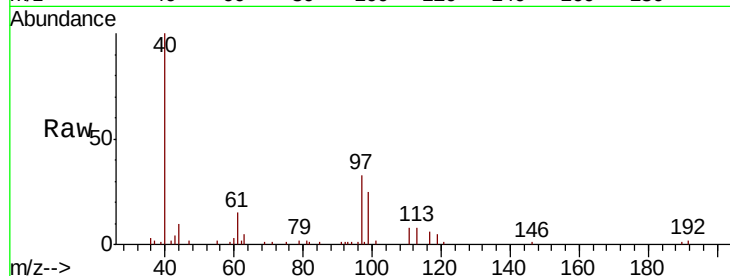




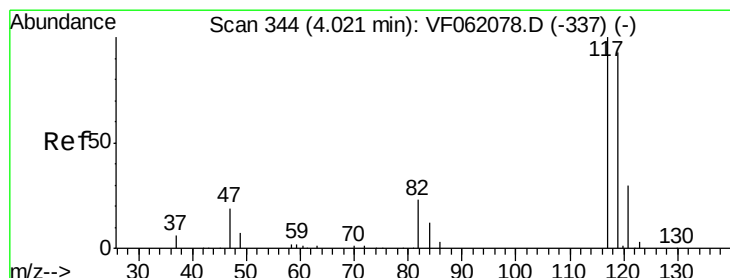
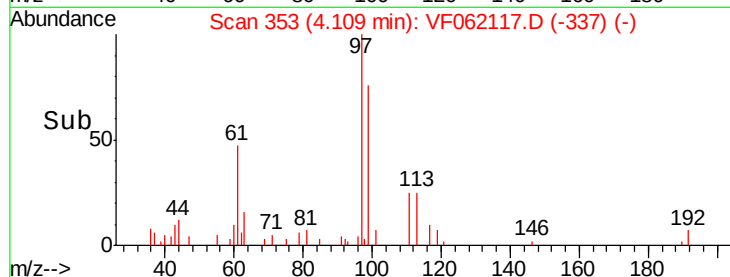
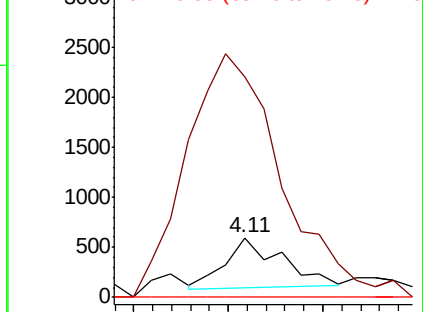
#37
Ethyl Acetate
Concen: 11.637 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.04 min
Lab File: VF062117.D
Acq: 23 Mar 2019 15:10

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 1044
Ion Ratio Lower Upper
43 100
61 371.9 53.6 80.4#
70 0.0 9.0 13.6#

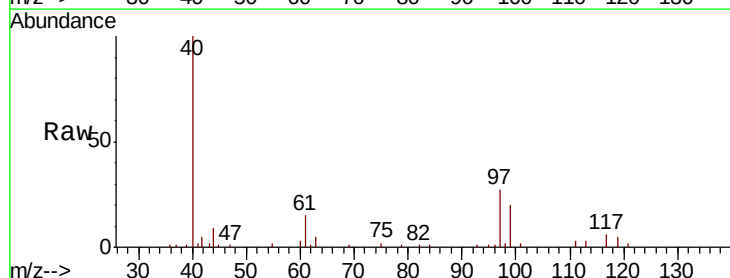


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0

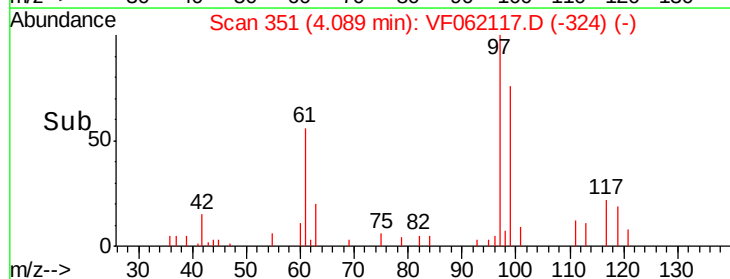
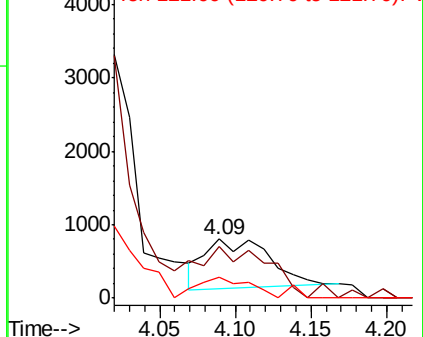


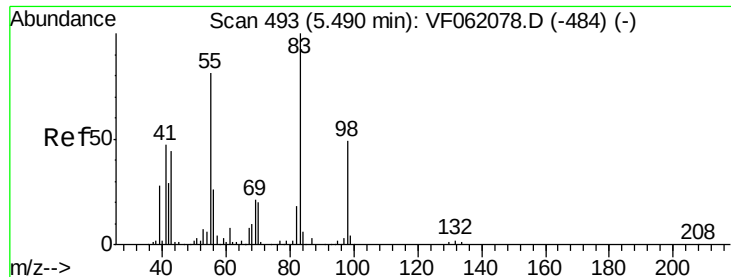
#38
Carbon Tetrachloride
Concen: 14.166 ug/l
RT: 4.09 min Scan# 351
Delta R.T. 0.07 min
Lab File: VF062117.D
Acq: 23 Mar 2019 15:10

Tgt Ion:117 Resp: 1982
Ion Ratio Lower Upper
117 100
119 86.2 74.7 112.1
121 35.3 23.6 35.4



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

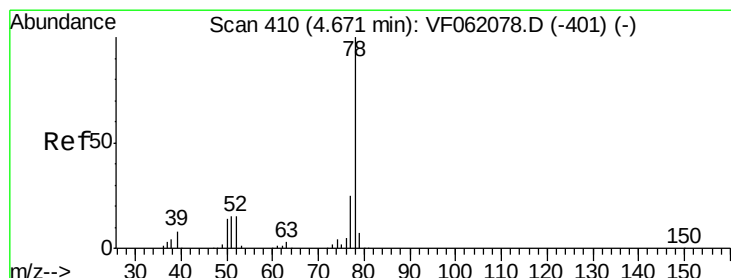
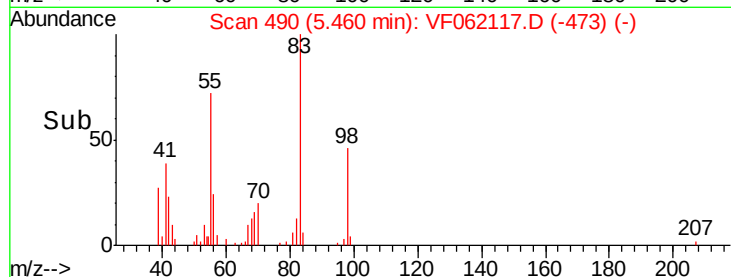
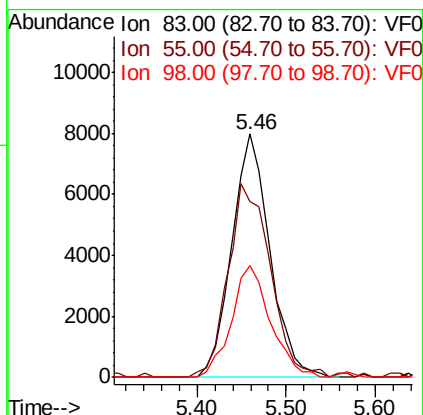
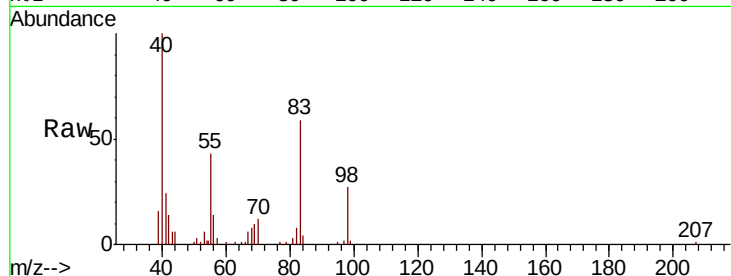




#39
Methylvlcyclohexane
Concen: 99.525 ug/l
RT: 5.46 min Scan# 490
Delta R.T. -0.03 min
Lab File: VF062117.D
Acq: 23 Mar 2019 15:10

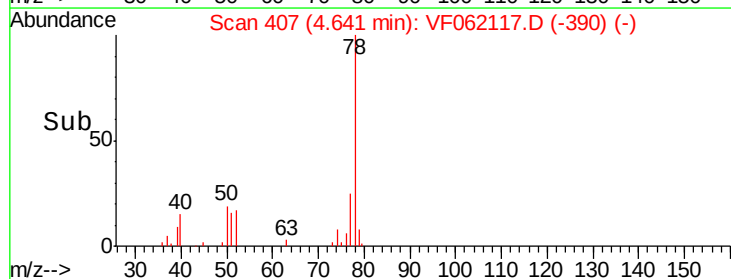
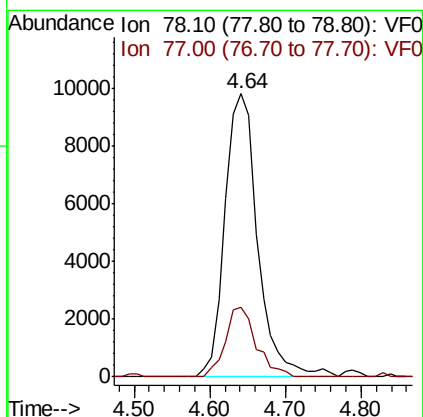
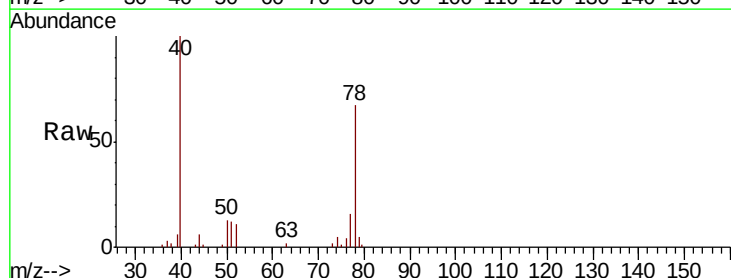
Instrument :
MSVOA_F
ClientSampleId :

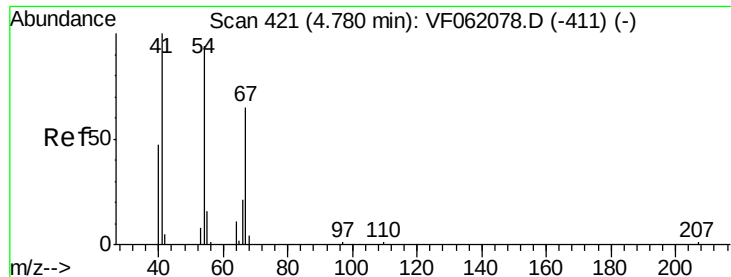
Tot Ion: 83 Resp: 23711
Ion Ratio Lower Upper
83 100
55 72.2 64.5 96.7
98 46.0 39.1 58.7



#40
Benzene
Concen: 53.469 ug/l
RT: 4.64 min Scan# 407
Delta R.T. -0.03 min
Lab File: VF062117.D
Acq: 23 Mar 2019 15:10

Tgt Ion: 78 Resp: 29424
Ion Ratio Lower Upper
78 100
77 24.6 19.8 29.6

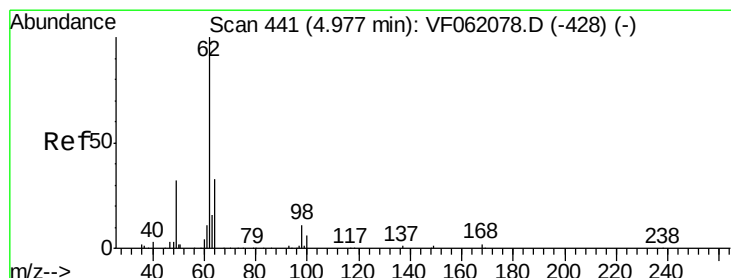
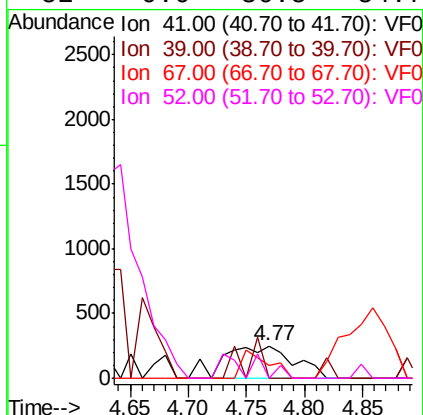
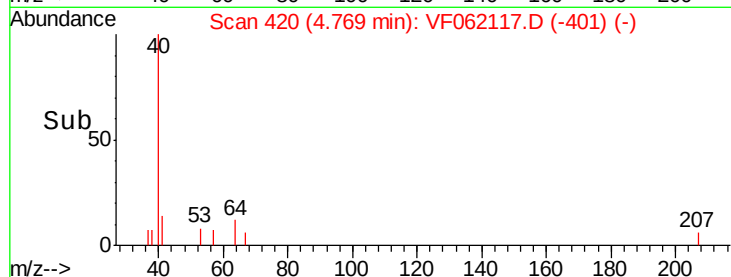
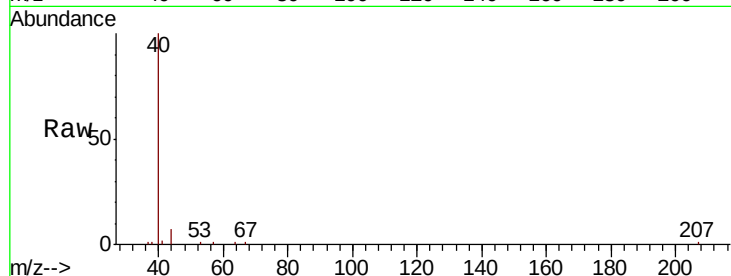




#41
Methacrylonitrile
Concen: 21.847 ug/l
RT: 4.77 min Scan# 420
Delta R.T. -0.01 min
Lab File: VF062117.D
Acq: 23 Mar 2019 15:10

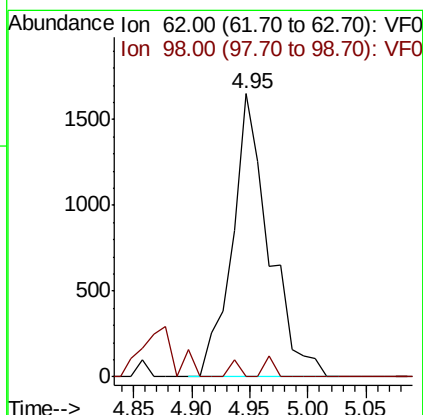
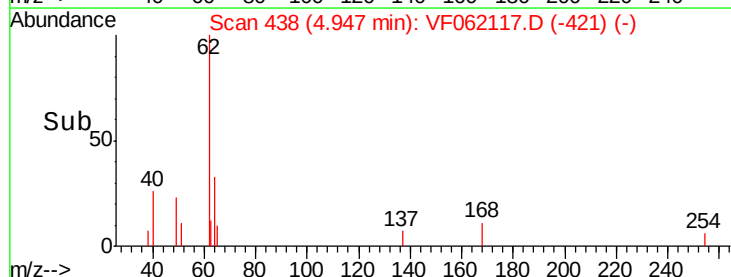
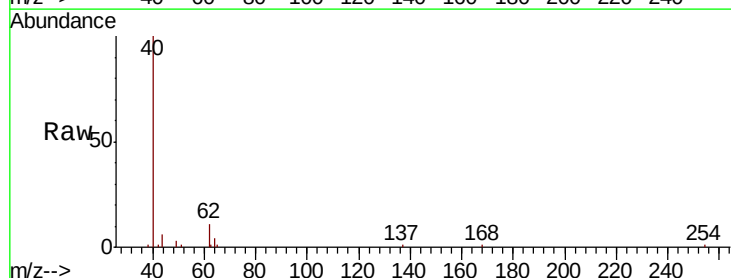
Instrument :
MSVOA_F
ClientSampleId :

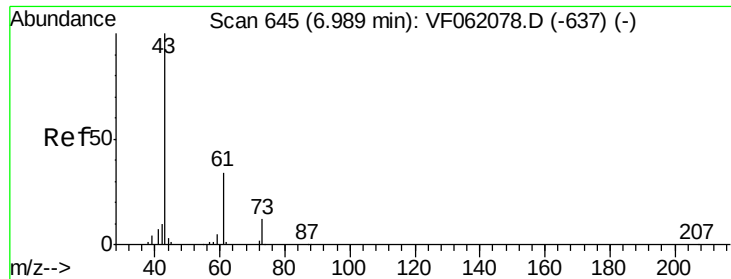
Tot Ion:	41	Resp:	1037
Ion	Ratio	Lower	Upper
41	100		
39	0.0	43.5	65.3#
67	40.1	51.6	77.4#
52	0.0	36.5	54.7#



#42
1,2-Dichloroethane
Concen: 27.680 ug/l
RT: 4.95 min Scan# 438
Delta R.T. -0.03 min
Lab File: VF062117.D
Acq: 23 Mar 2019 15:10

Tgt Ion:	62	Resp:	3602
Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	23.2

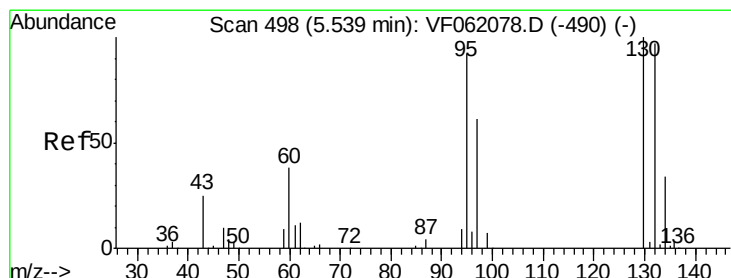
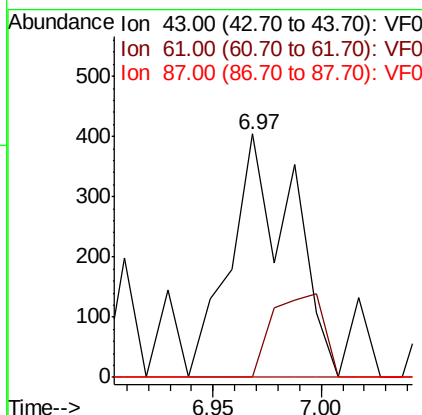
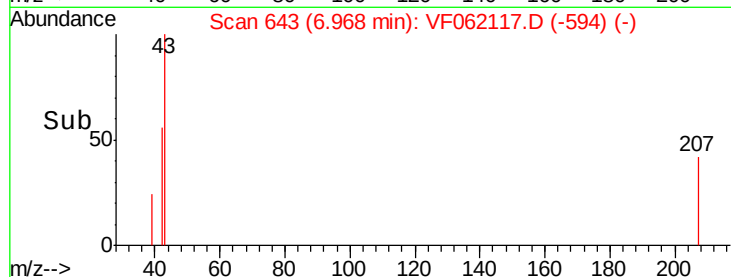
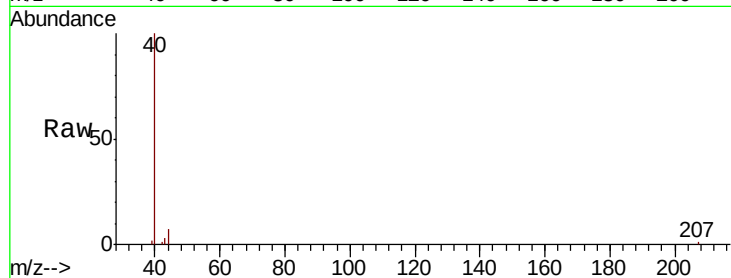




#43
Isopropyl Acetate
Concen: 7.428 ug/l
RT: 6.97 min Scan# 643
Delta R.T. -0.02 min
Lab File: VF062117.D
Acq: 23 Mar 2019 15:10

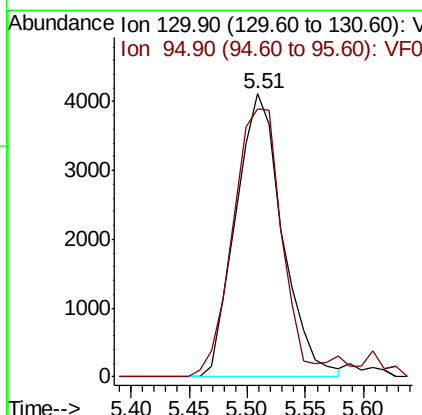
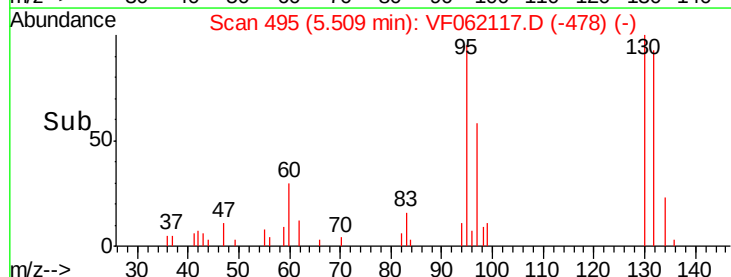
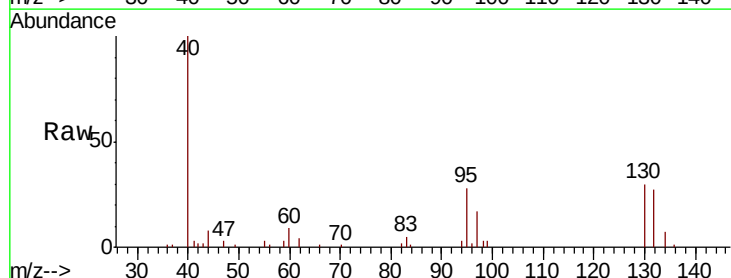
Instrument :
MSVOA_F
ClientSampled :

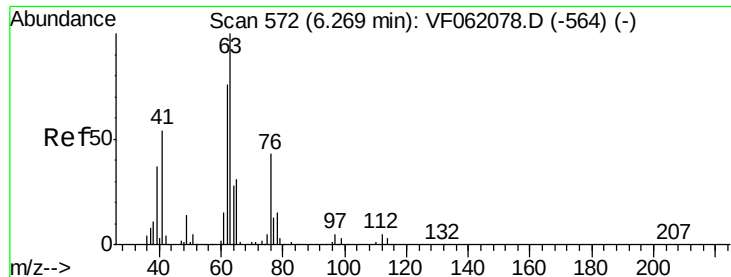
Tot Ion: 43 Resp: 807
Ion Ratio Lower Upper
43 100
61 0.0 27.0 40.4#
87 0.0 0.4 0.6#



#44
Trichloroethene
Concen: 68.103 ug/l
RT: 5.51 min Scan# 495
Delta R.T. -0.03 min
Lab File: VF062117.D
Acq: 23 Mar 2019 15:10

Tgt Ion: 130 Resp: 11458
Ion Ratio Lower Upper
130 100
95 94.8 0.0 183.4





#45

1,2-Dichloropropane

Concen: 33.935 ug/l

RT: 6.25 min Scan# 570

Delta R.T. -0.02 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

Instrument :

MSVOA_F

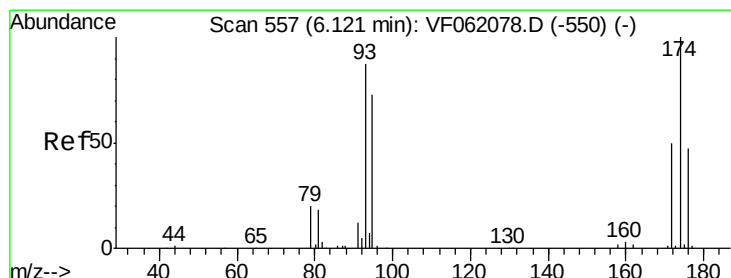
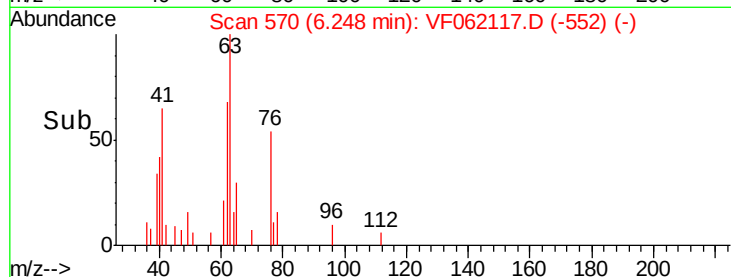
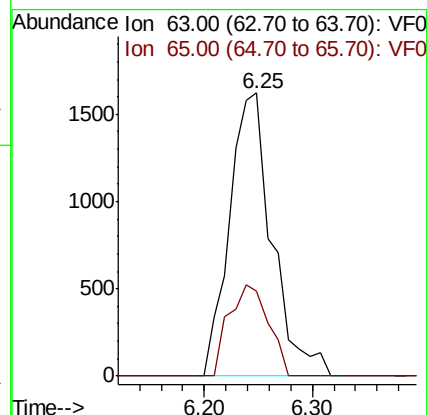
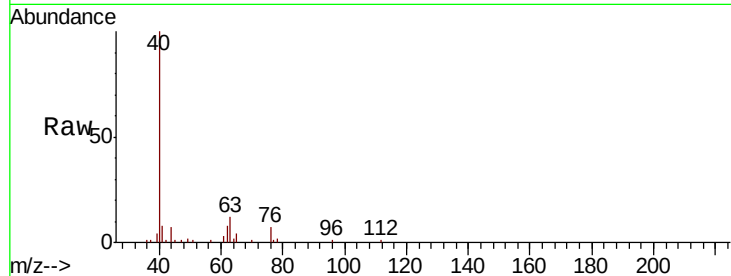
ClientSampleId :

Tot Ion: 63 Resp: 4454

Ion Ratio Lower Upper

63 100

65 30.2 24.9 37.3



#46

Dibromomethane

Concen: 17.171 ug/l

RT: 6.09 min Scan# 554

Delta R.T. -0.03 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

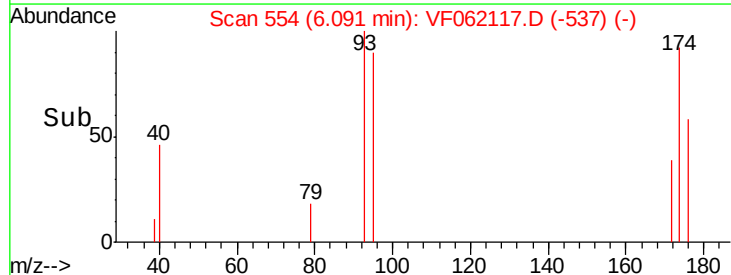
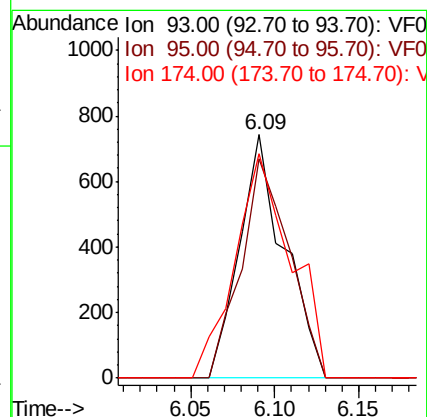
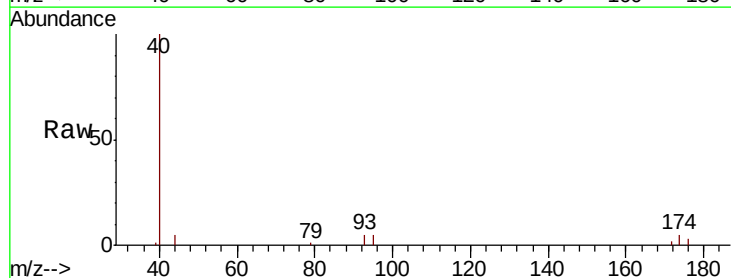
Tgt Ion: 93 Resp: 1378

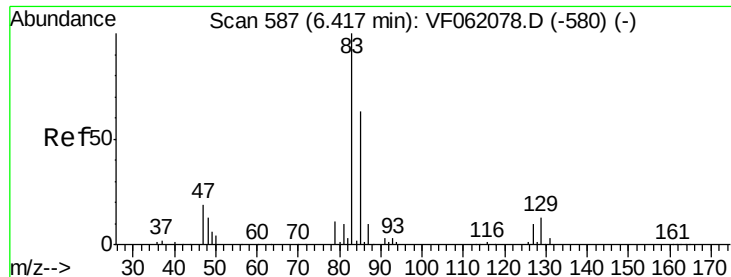
Ion Ratio Lower Upper

93 100

95 90.0 67.4 101.2

174 91.9 92.0 138.0#





#47

Bromodichloromethane

Concen: 29.192 ug/l

RT: 6.39 min Scan# 584

Delta R.T. -0.03 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

Instrument :

MSVOA_F

ClientSampled :

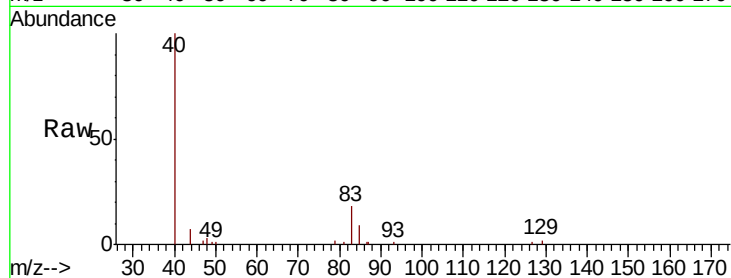
Tot Ion: 83 Resp: 5189

Ion Ratio Lower Upper

83 100

85 48.6 50.7 76.1#

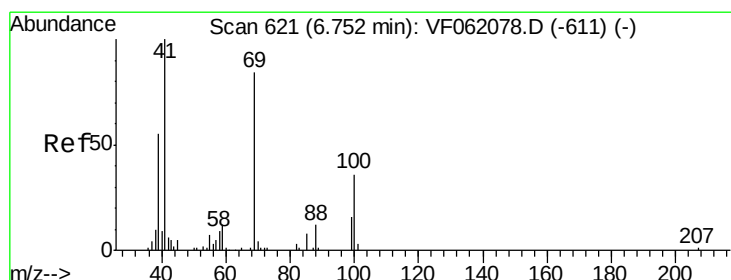
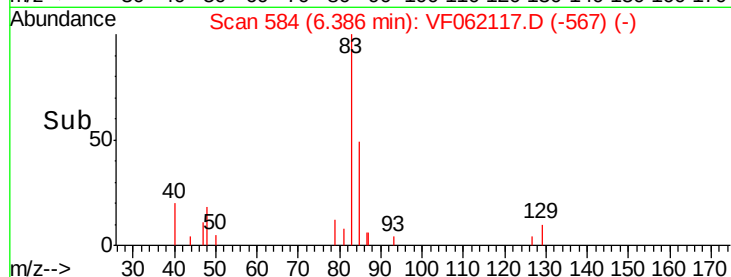
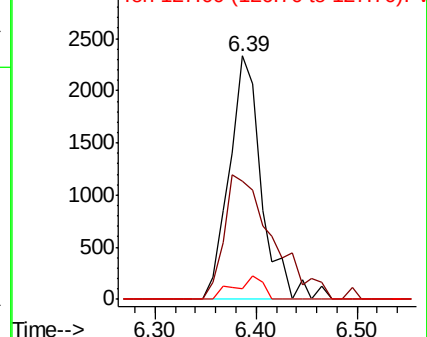
127 4.4 7.8 11.6#



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: 17.103 ug/l

RT: 6.73 min Scan# 619

Delta R.T. -0.02 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

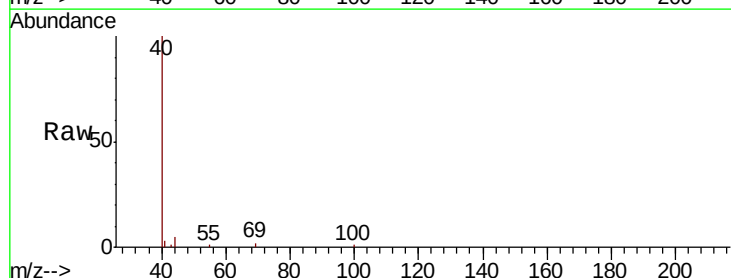
Tgt Ion: 41 Resp: 1058

Ion Ratio Lower Upper

41 100

69 75.8 66.6 100.0

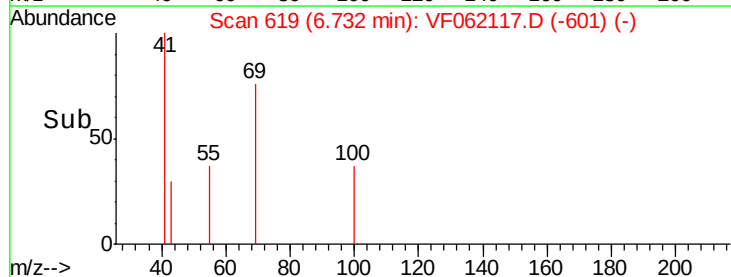
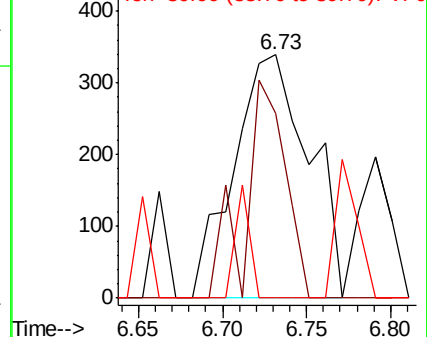
39 0.0 43.6 65.4#

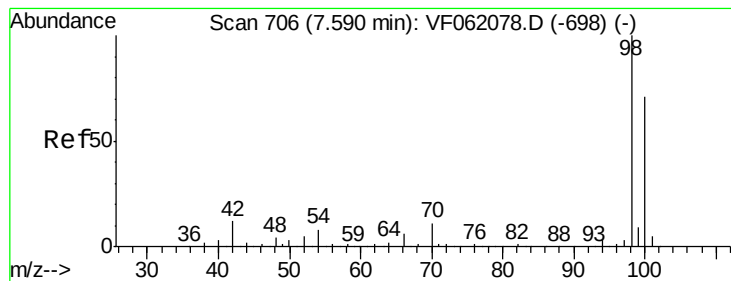


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#50

Toluene-d8

Concen: 48.053 ug/l

RT: 7.56 min Scan# 703

Delta R.T. -0.03 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

Instrument :

MSVOA_F

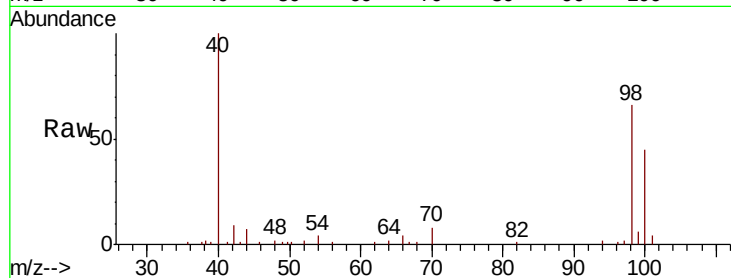
ClientSampleId :

Tot Ion: 98 Resp: 20911

Ion Ratio Lower Upper

98 100

100 68.5 57.0 85.6



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.56

8000

6000

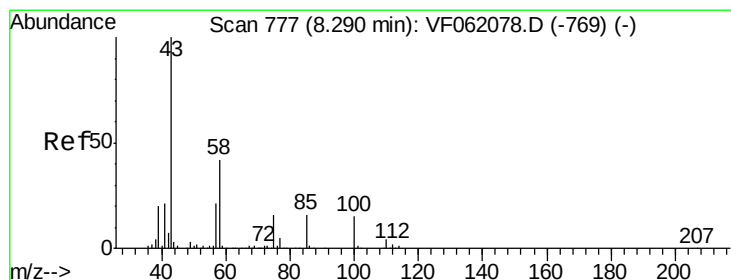
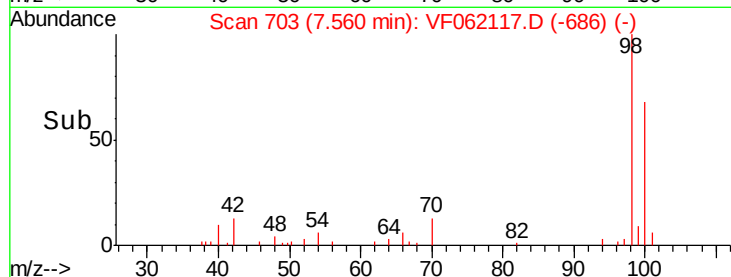
4000

2000

0

Time-->

7.45 7.50 7.55 7.60 7.65



#51

4-Methyl-2-Pentanone

Concen: 16.915 ug/l

RT: 8.27 min Scan# 775

Delta R.T. -0.02 min

Lab File: VF062117.D

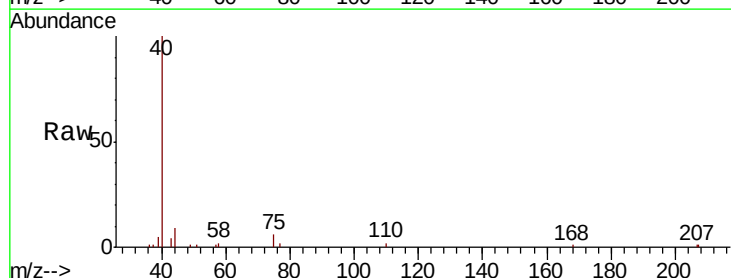
Acq: 23 Mar 2019 15:10

Tgt Ion: 43 Resp: 1230

Ion Ratio Lower Upper

43 100

58 46.4 33.8 50.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.27

500

400

300

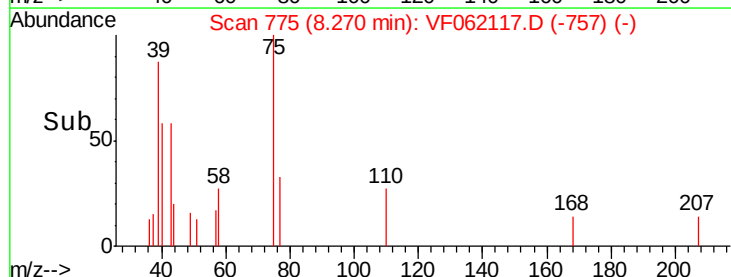
200

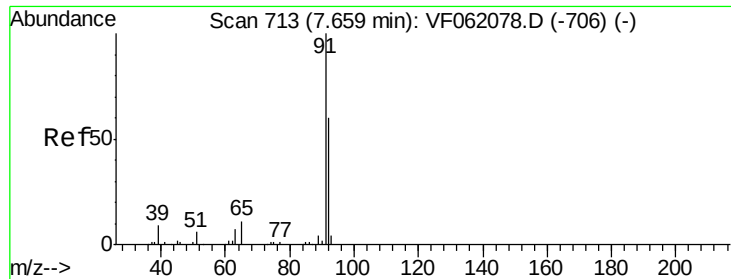
100

0

Time-->

8.20 8.25 8.30 8.35





#52

Toluene

Concen: 56.671 ug/l

RT: 7.63 min Scan# 710

Delta R.T. -0.03 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

Instrument :

MSVOA_F

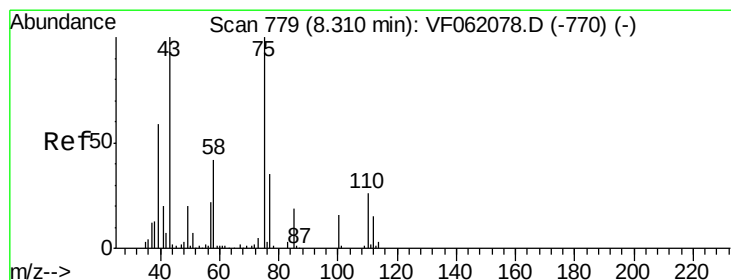
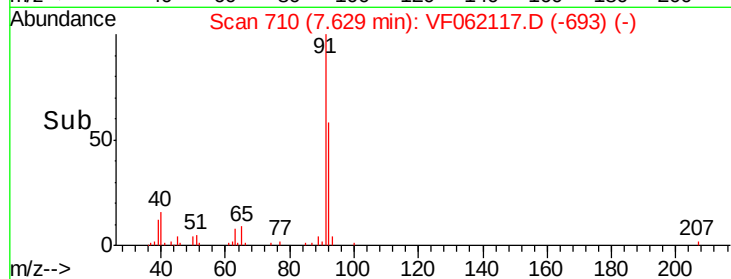
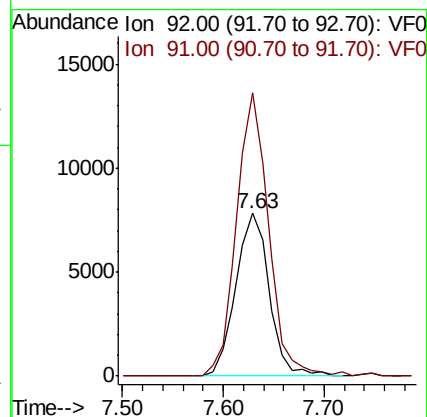
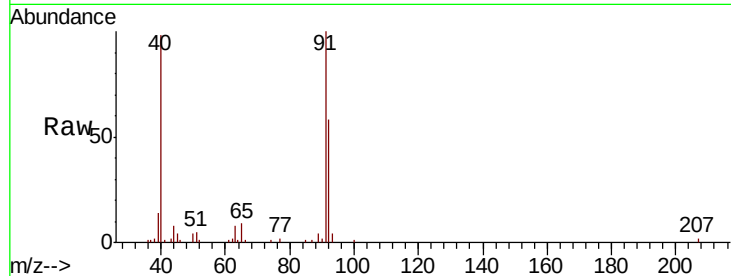
ClientSampled :

Tot Ion: 92 Resp: 18063

Ion Ratio Lower Upper

92 100

91 173.7 134.1 201.1



#53

t-1,3-Dichloropropene

Concen: 22.122 ug/l

RT: 8.29 min Scan# 777

Delta R.T. -0.02 min

Lab File: VF062117.D

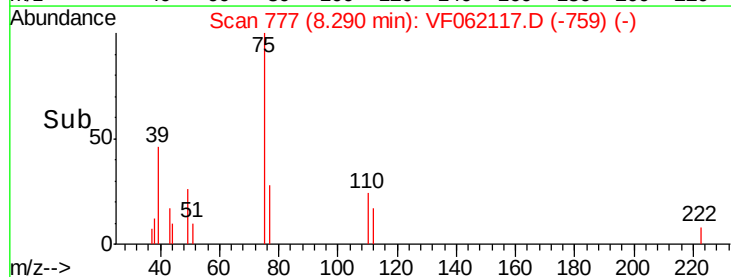
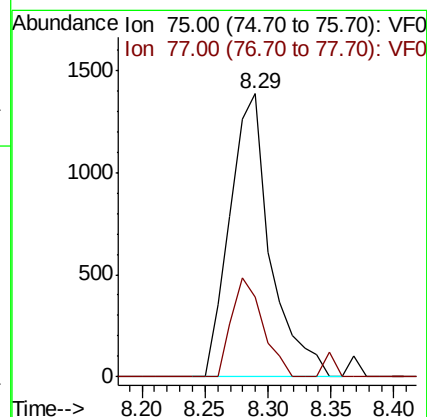
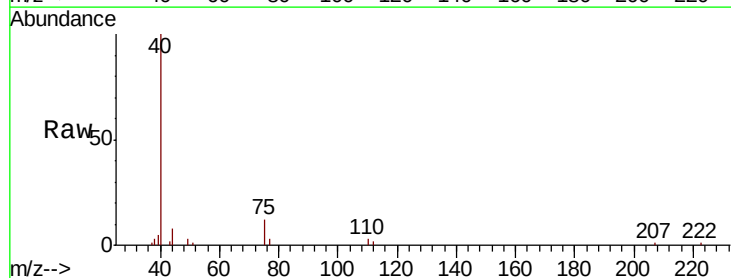
Acq: 23 Mar 2019 15:10

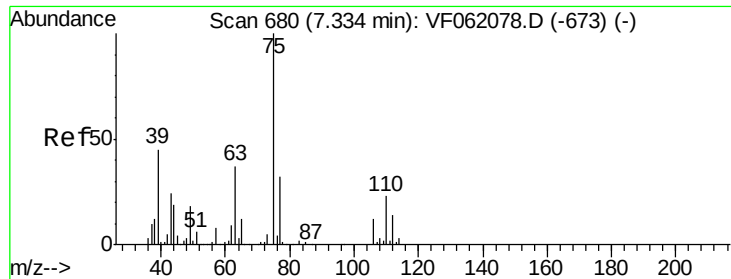
Tgt Ion: 75 Resp: 3087

Ion Ratio Lower Upper

75 100

77 28.0 28.0 42.0





#54

cis-1,3-Dichloropropene

Concen: 23.495 ug/l

RT: 7.30 min Scan# 677

Delta R.T. -0.03 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

Instrument :

MSVOA_F

ClientSampled :

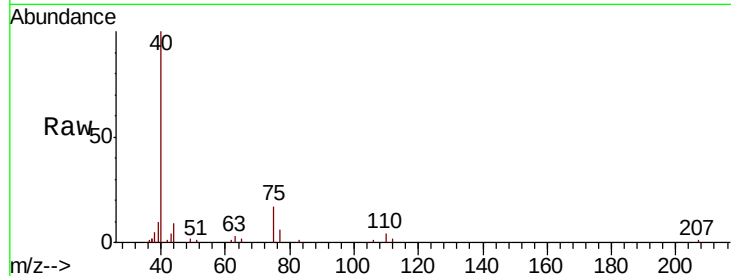
Tot Ion: 75 Resp: 4691

Ion Ratio Lower Upper

75 100

77 32.8 25.8 38.6

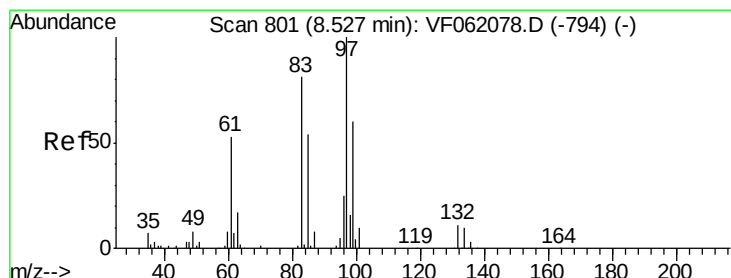
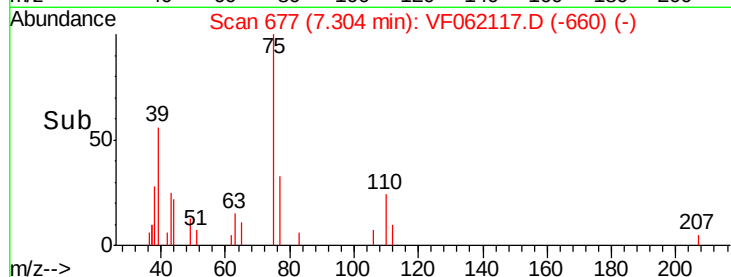
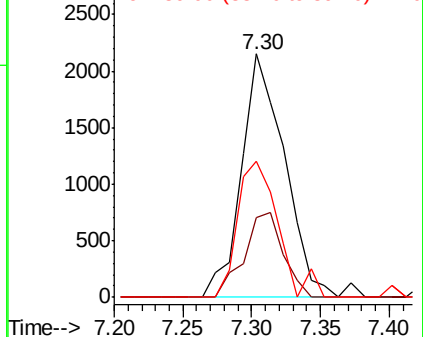
39 55.6 35.9 53.9#



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: 23.935 ug/l

RT: 8.50 min Scan# 798

Delta R.T. -0.03 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

Tgt Ion: 97 Resp: 2167

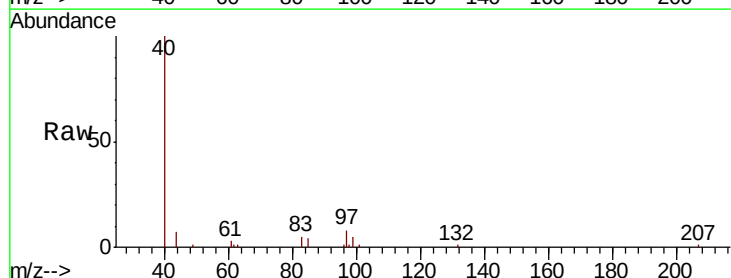
Ion Ratio Lower Upper

97 100

83 60.4 64.6 97.0#

85 43.0 43.6 65.4#

99 55.3 48.2 72.2

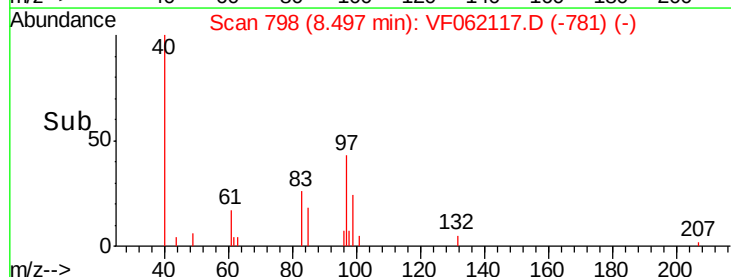
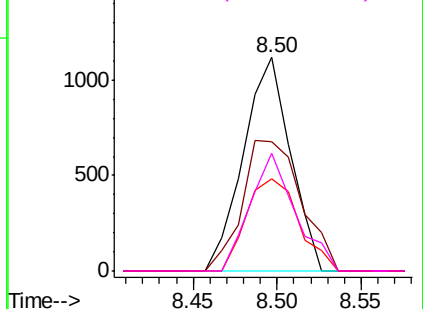


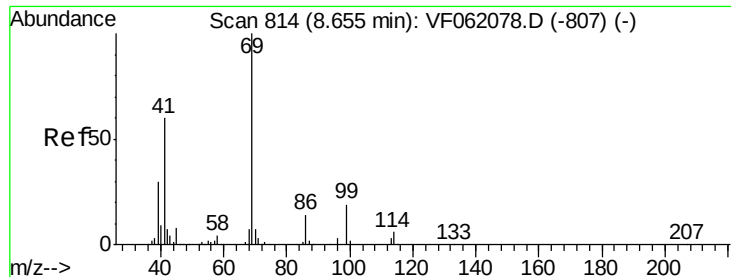
Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 7.733 ug/l

RT: 8.63 min Scan# 812

Delta R.T. -0.02 min

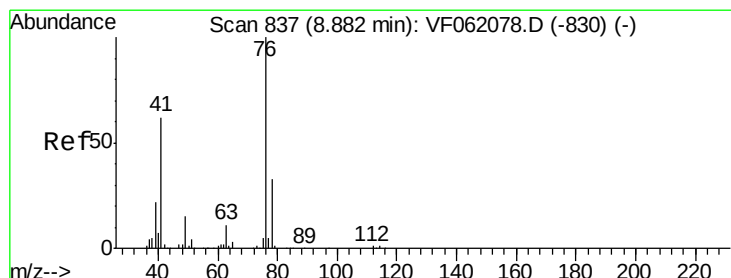
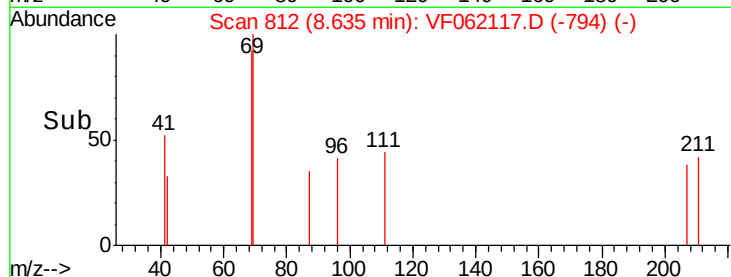
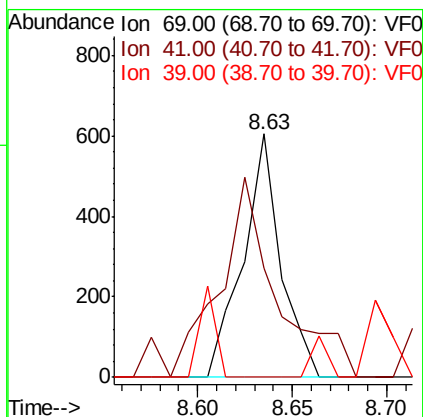
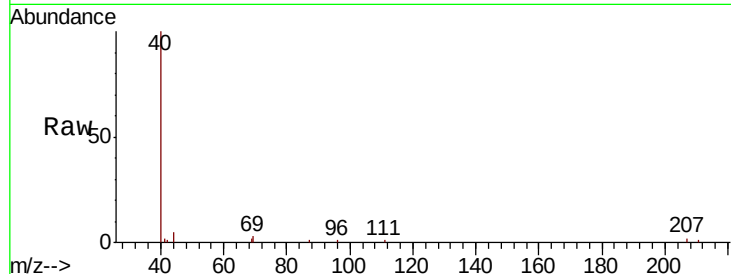
Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 69 Resp: 835

Ion	Ratio	Lower	Upper
69	100		
41	44.6	48.2	72.2#
39	0.0	24.0	36.0#



#57

1,3-Dichloropropane

Concen: 20.537 ug/l

RT: 8.86 min Scan# 835

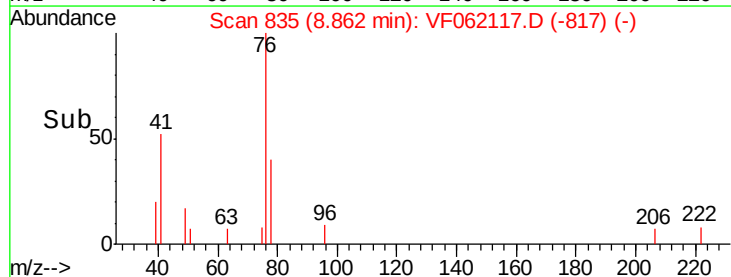
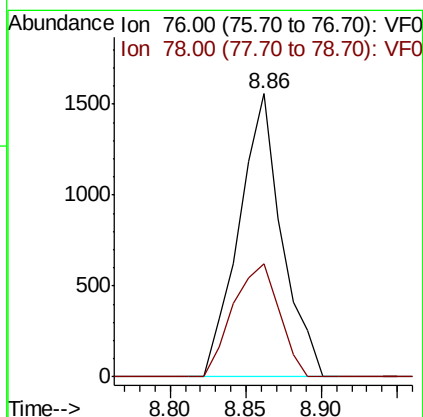
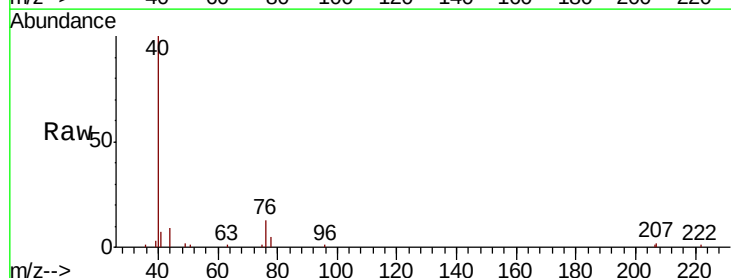
Delta R.T. -0.02 min

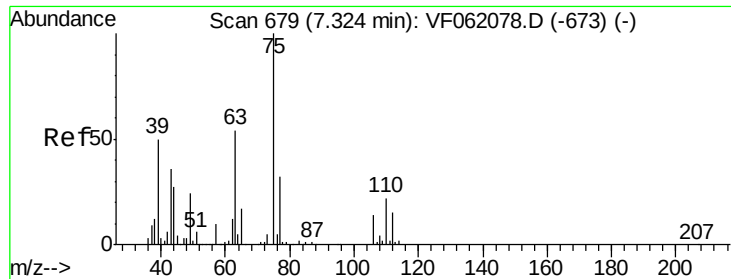
Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

Tgt Ion: 76 Resp: 3086

Ion	Ratio	Lower	Upper
76	100		
78	39.9	26.6	39.8#





#58

2-Chloroethyl Vinyl ether

Concen: 49.133 ug/l

RT: 7.29 min Scan# 676

Delta R.T. -0.03 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

Instrument :

MSVOA_F

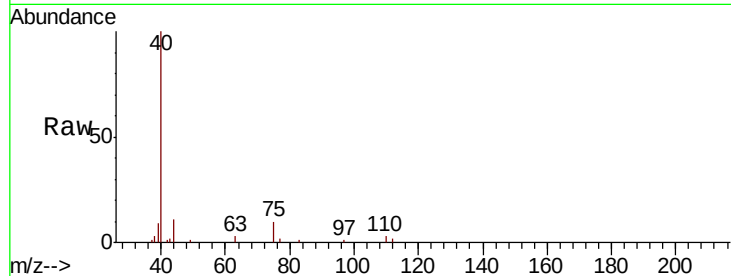
ClientSampled :

Tot Ion: 63 Resp: 805

Ion Ratio Lower Upper

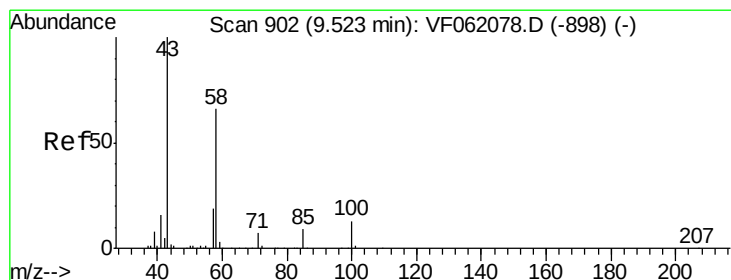
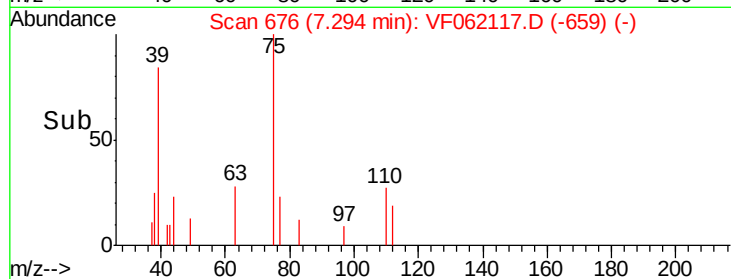
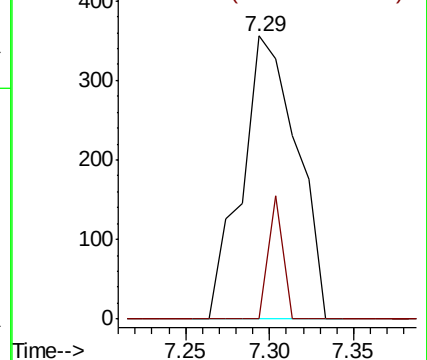
63 100

106 0.0 21.5 32.3#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): VF0



#59

2-Hexanone

Concen: 1.595 ug/l

RT: 9.50 min Scan# 900

Delta R.T. -0.02 min

Lab File: VF062117.D

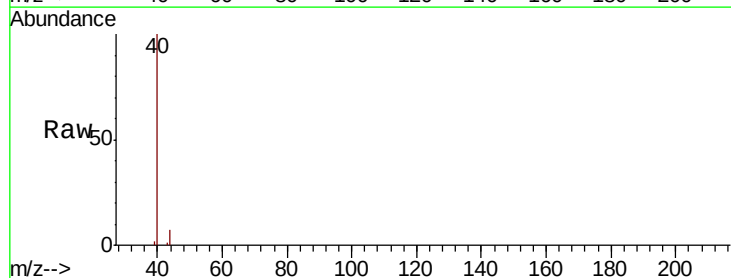
Acq: 23 Mar 2019 15:10

Tgt Ion: 43 Resp: 85

Ion Ratio Lower Upper

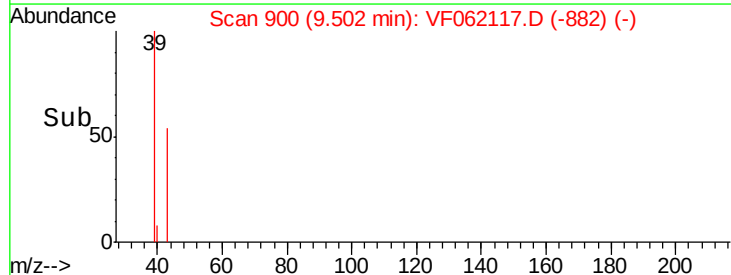
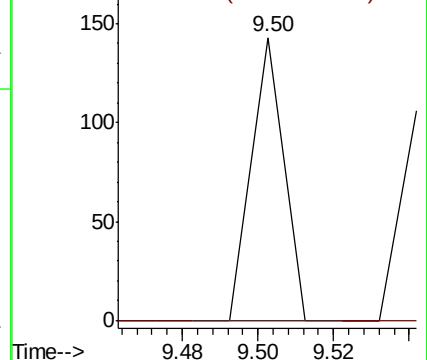
43 100

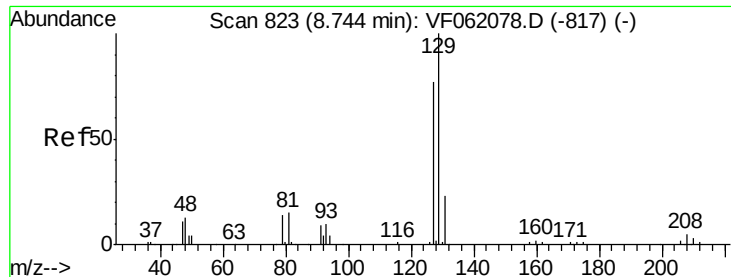
58 0.0 28.8 86.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#60

Dibromochloromethane

Concen: 21.826 ug/l

RT: 8.72 min Scan# 821

Delta R.T. -0.02 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

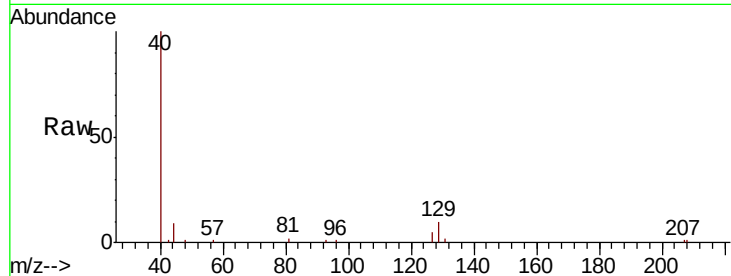
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:129 Resp: 2747

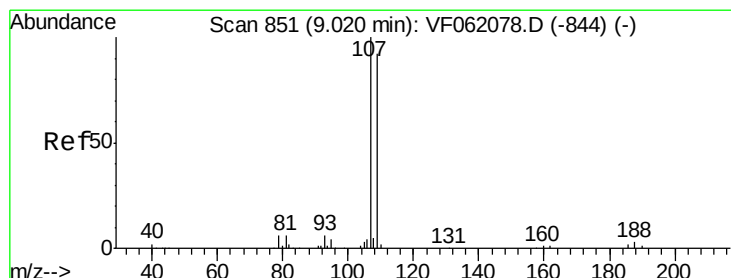
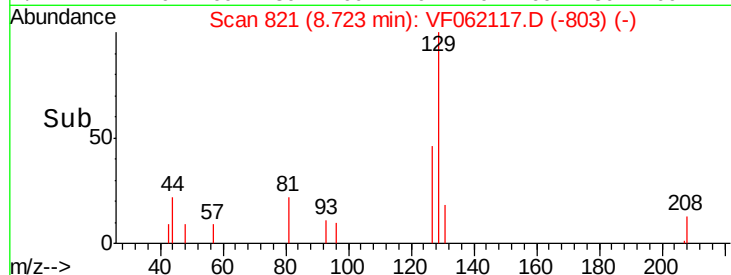
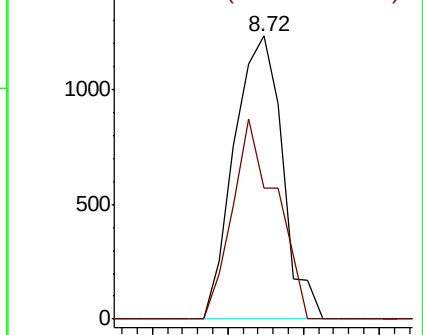
Ion Ratio Lower Upper

129 100

127 46.4 38.7 116.1



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



#61

1,2-Dibromoethane

Concen: 20.375 ug/l

RT: 8.99 min Scan# 848

Delta R.T. -0.03 min

Lab File: VF062117.D

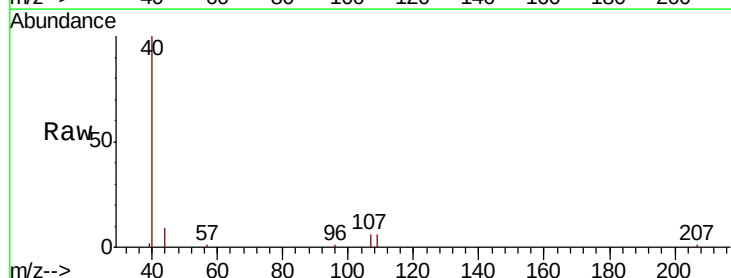
Acq: 23 Mar 2019 15:10

Tgt Ion:107 Resp: 1968

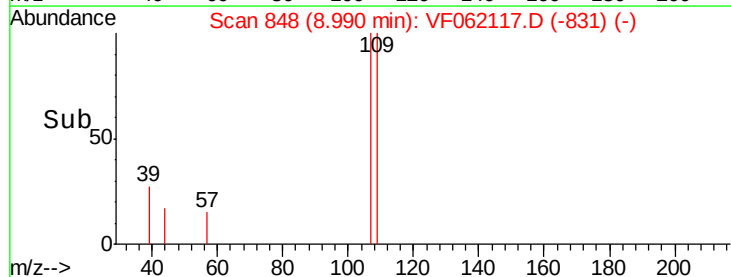
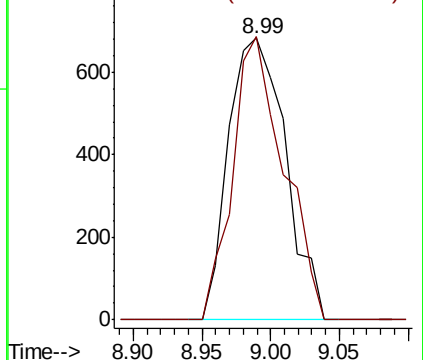
Ion Ratio Lower Upper

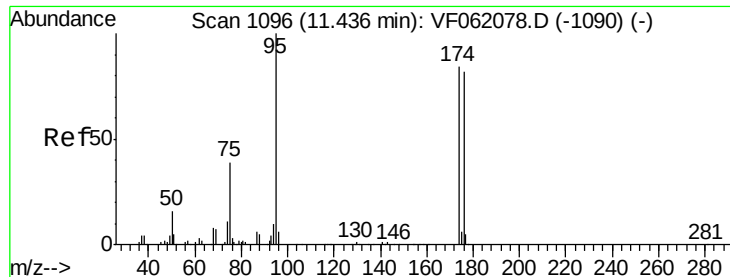
107 100

109 100.4 73.4 110.0



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V

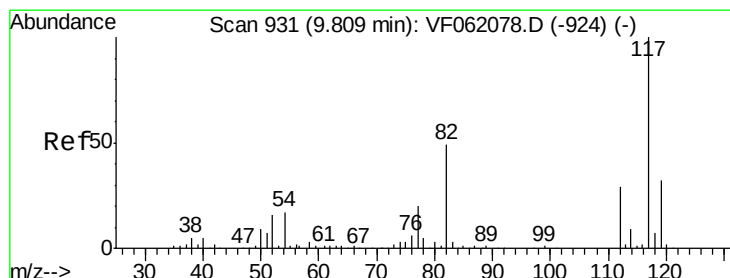
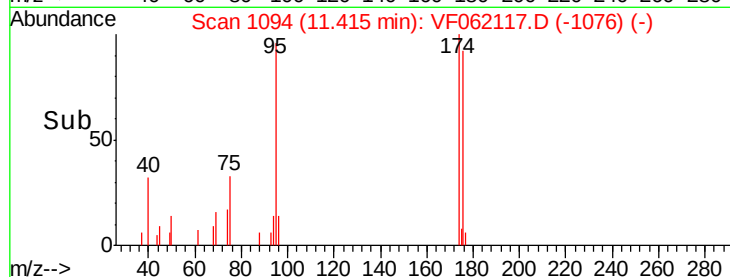
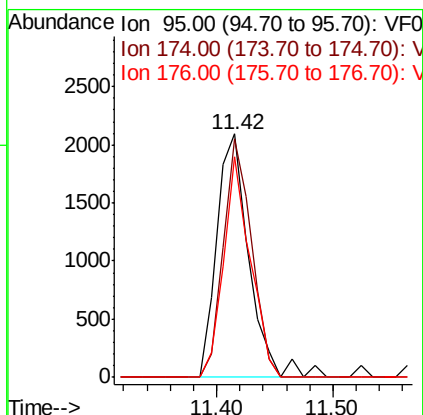
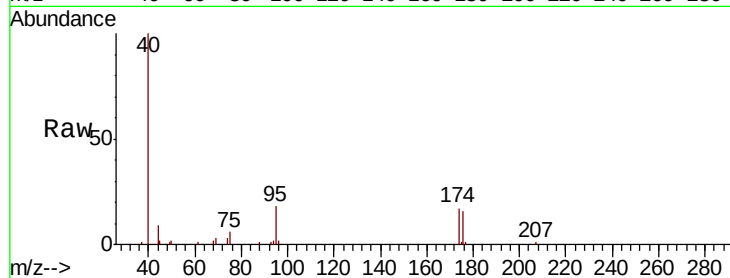




#62
4-Bromofluorobenzene
Concen: 23.863 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. -0.02 min
Lab File: VF062117.D
Acq: 23 Mar 2019 15:10

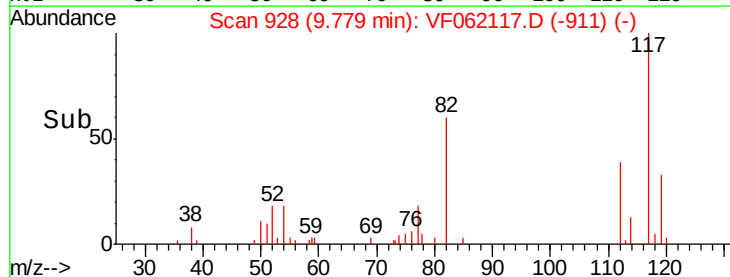
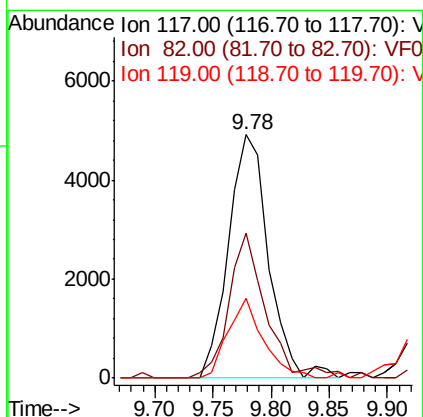
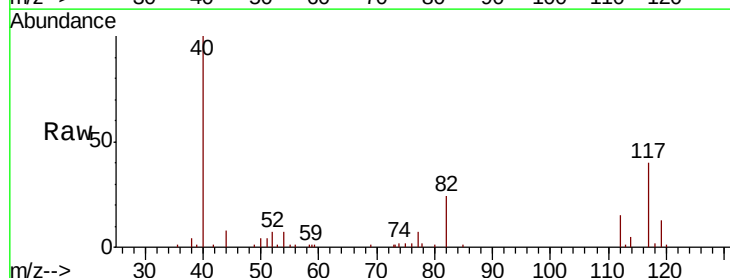
Instrument :
MSVOA_F
ClientSampleId :

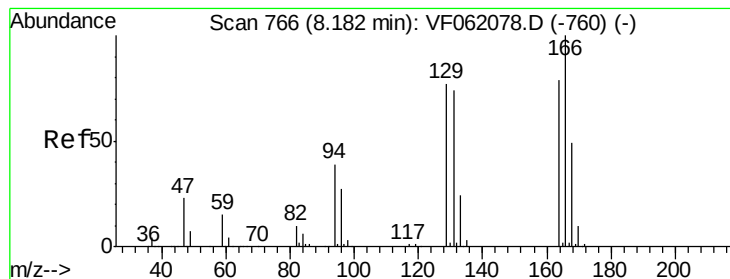
Tot Ion: 95 Resp: 4009
Ion Ratio Lower Upper
95 100
174 97.9 0.0 168.2
176 90.4 0.0 164.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.03 min
Lab File: VF062117.D
Acq: 23 Mar 2019 15:10

Tgt Ion: 117 Resp: 11659
Ion Ratio Lower Upper
117 100
82 59.6 39.2 58.8#
119 32.9 25.4 38.2





#64

Tetrachloroethene

Concen: 121.865 ug/l

RT: 8.15 min Scan# 763

Delta R.T. -0.03 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:164 Resp: 10977

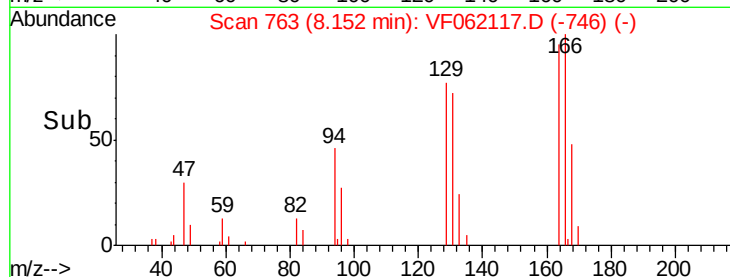
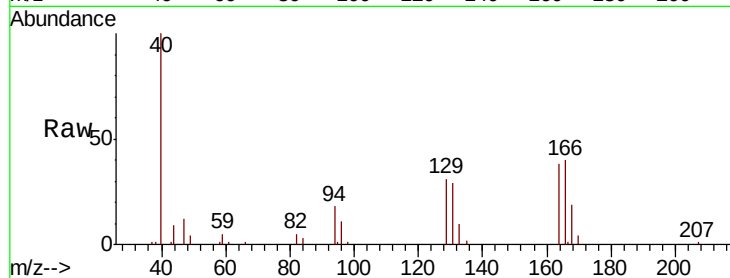
Ion Ratio Lower Upper

164 100

166 105.4 100.9 151.3

129 80.8 77.9 116.9

131 76.3 74.6 112.0

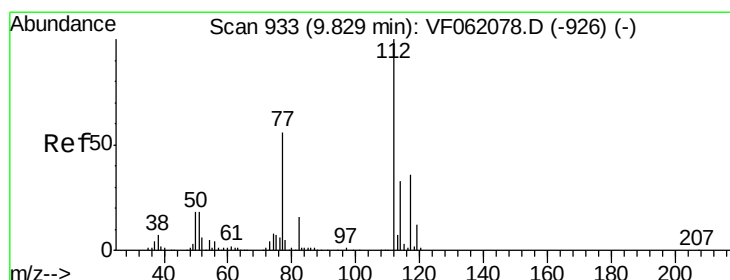
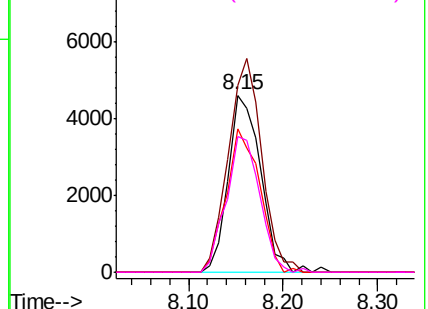


Abundance Ion 163.85 (163.55 to 164.55): V

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: 80.427 ug/l

RT: 9.80 min Scan# 930

Delta R.T. -0.03 min

Lab File: VF062117.D

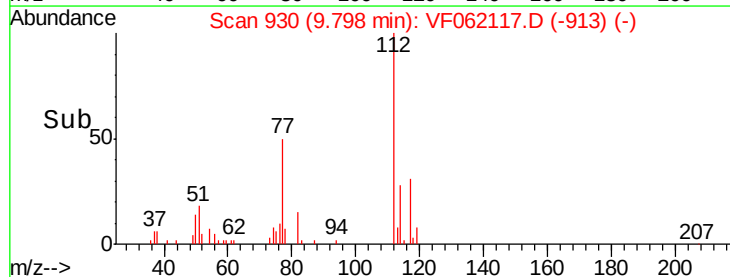
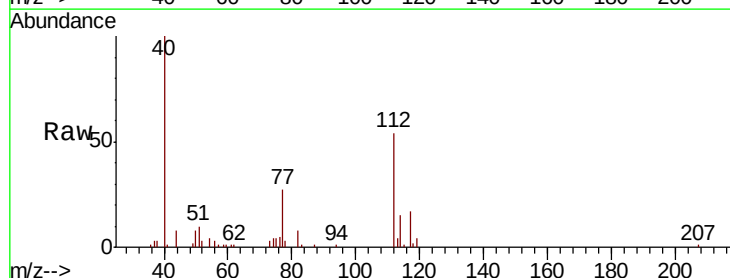
Acq: 23 Mar 2019 15:10

Tgt Ion:112 Resp: 17545

Ion Ratio Lower Upper

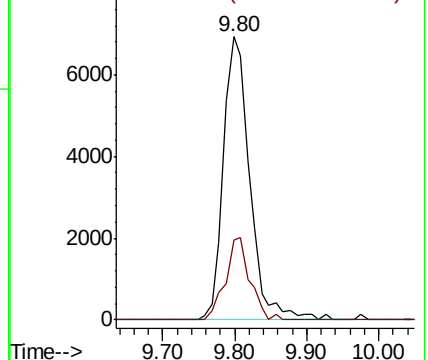
112 100

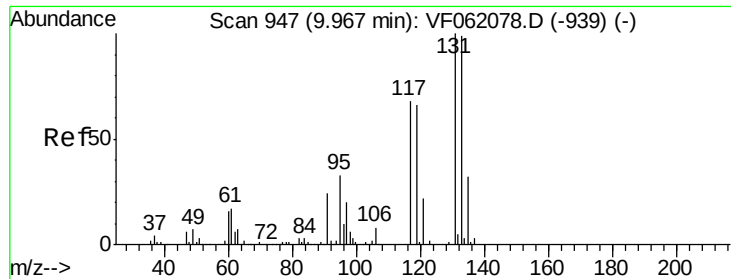
114 28.2 26.0 39.0



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V





#66

1,1,1,2-Tetrachloroethane

Concen: 54.241 ug/l

RT: 9.93 min Scan# 943

Delta R.T. -0.04 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

Instrument :

MSVOA_F

ClientSampleId :

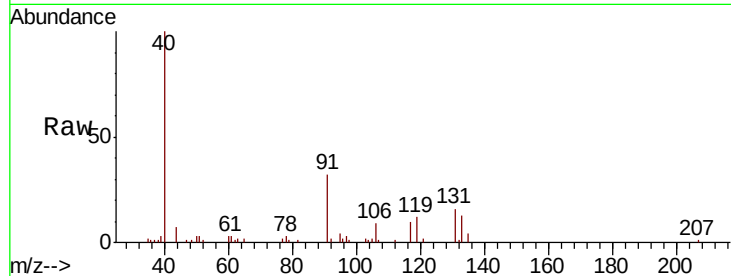
Tot Ion:131 Resp: 4753

Ion Ratio Lower Upper

131 100

133 83.4 49.3 147.8

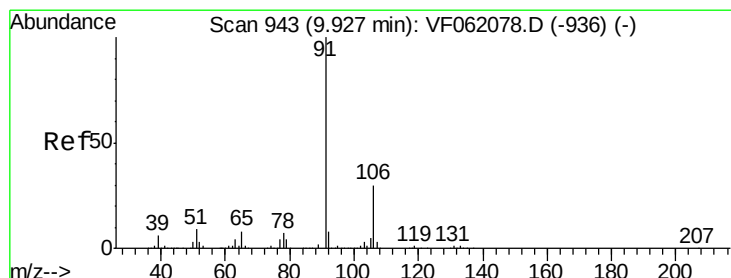
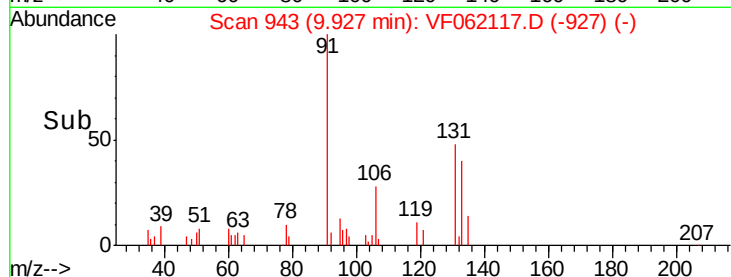
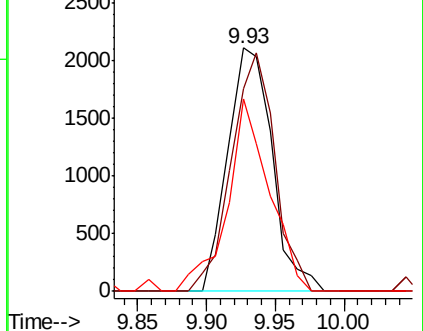
119 79.0 33.5 100.4



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#67

Ethyl Benzene

Concen: 89.225 ug/l

RT: 9.91 min Scan# 941

Delta R.T. -0.02 min

Lab File: VF062117.D

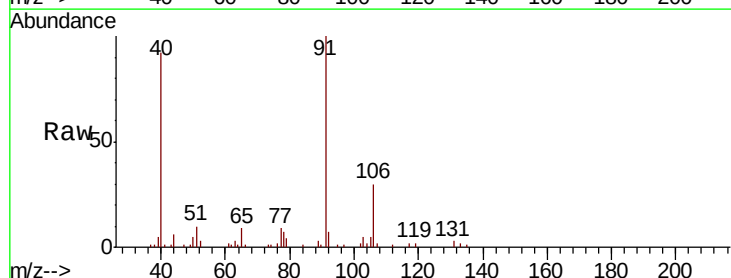
Acq: 23 Mar 2019 15:10

Tgt Ion: 91 Resp: 33850

Ion Ratio Lower Upper

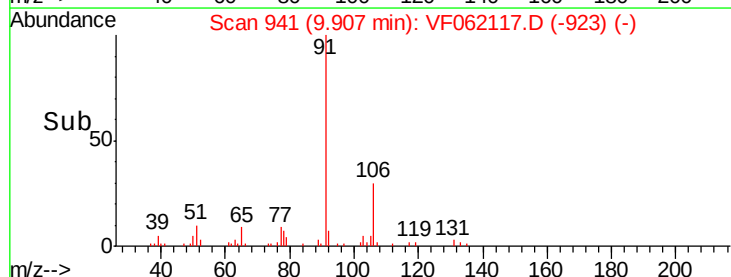
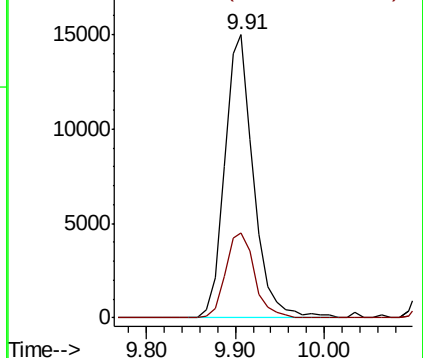
91 100

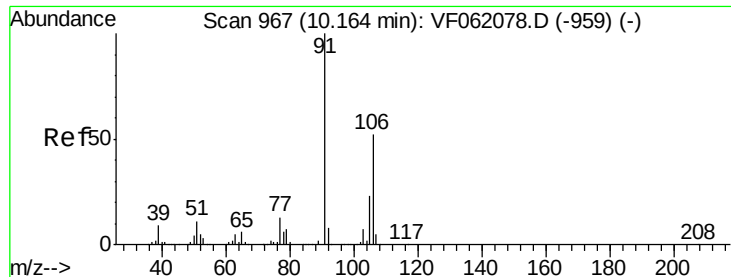
106 30.1 24.0 36.0



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

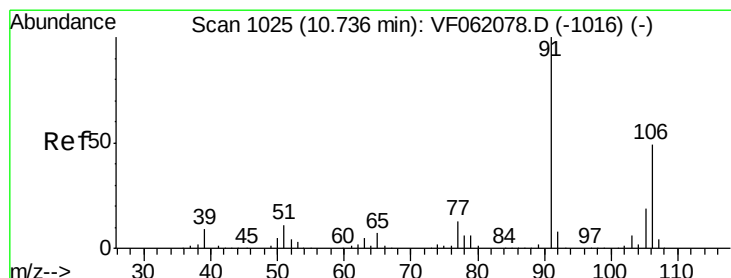
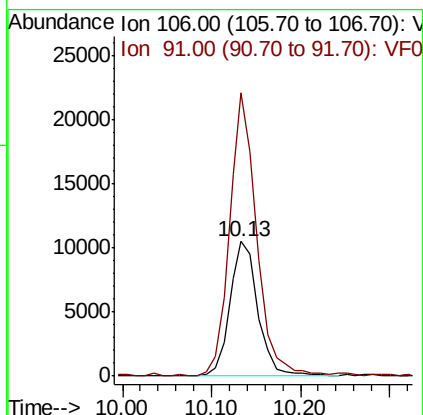
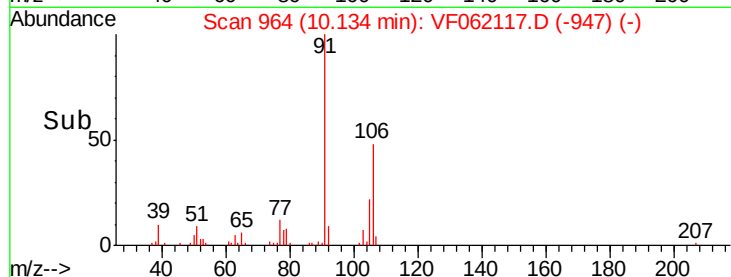
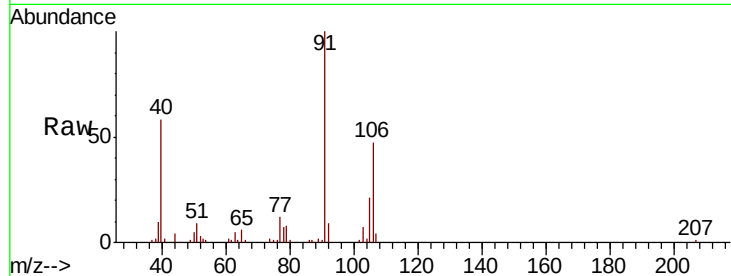




#68
m/p-Xylenes
Concen: 164.059 ug/l
RT: 10.13 min Scan# 964
Delta R.T. -0.03 min
Lab File: VF062117.D
Acq: 23 Mar 2019 15:10

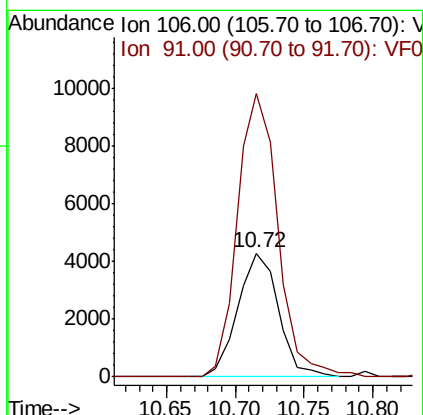
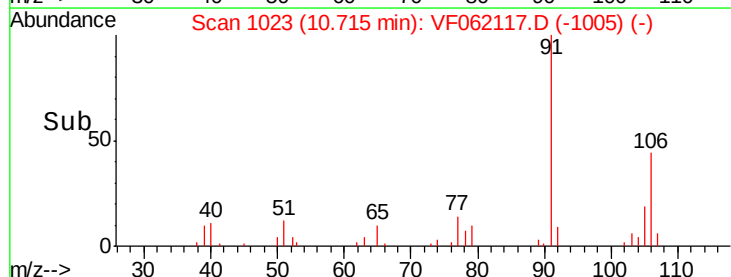
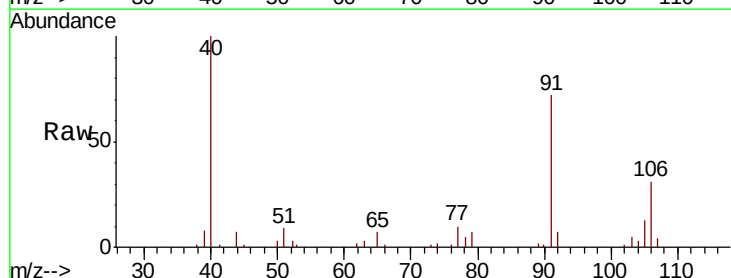
Instrument :
MSVOA_F
ClientSampled :

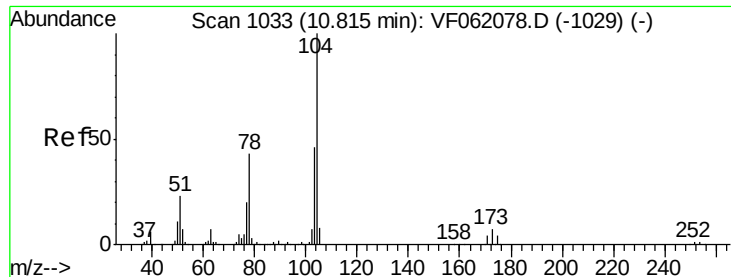
Tot Ion:106 Resp: 23263
Ion Ratio Lower Upper
106 100
91 210.6 154.4 231.6



#69
o-Xylene
Concen: 59.639 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. -0.02 min
Lab File: VF062117.D
Acq: 23 Mar 2019 15:10

Tgt Ion:106 Resp: 8857
Ion Ratio Lower Upper
106 100
91 228.7 102.6 307.8

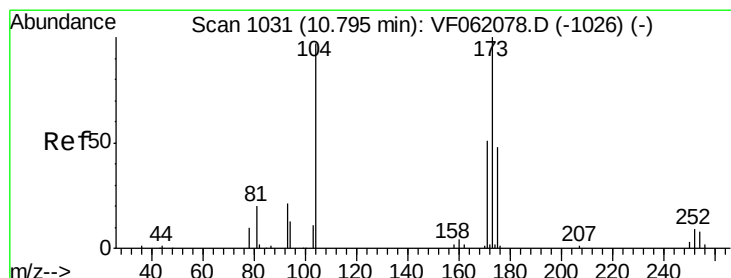
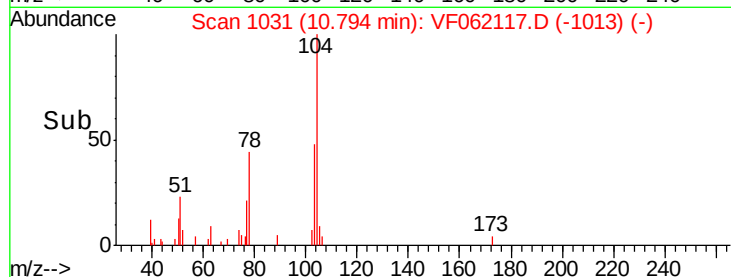
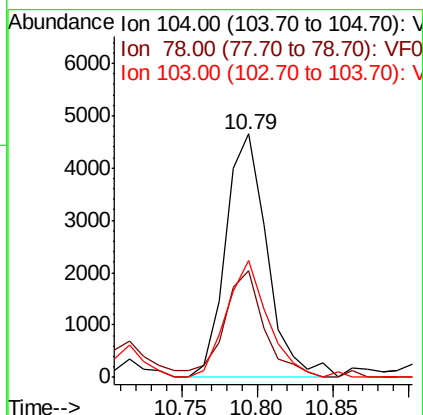
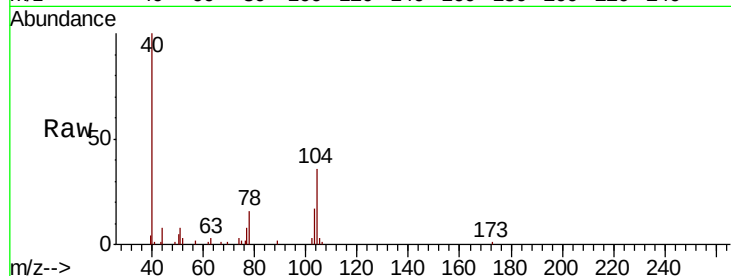




#70
Stvrene
Concen: 39.473 ug/l
RT: 10.79 min Scan# 1031
Delta R.T. -0.02 min
Lab File: VF062117.D
Acq: 23 Mar 2019 15:10

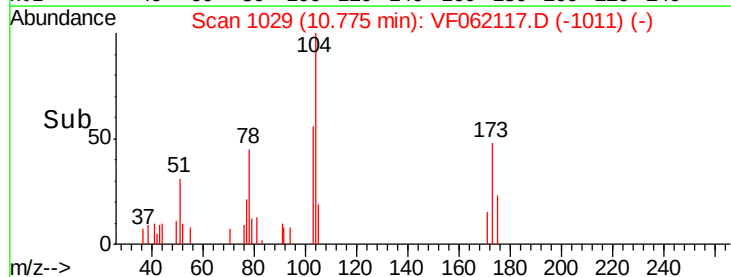
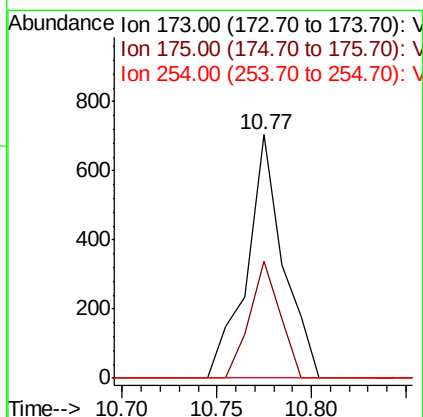
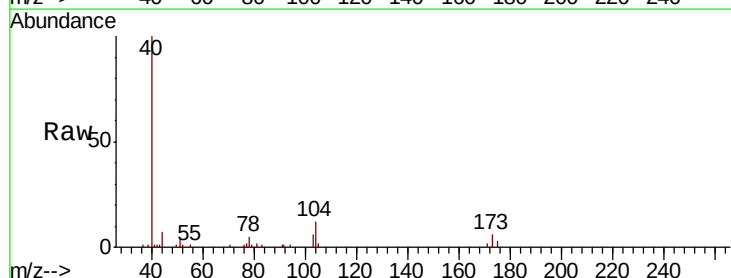
Instrument :
MSVOA_F
ClientSampleId :

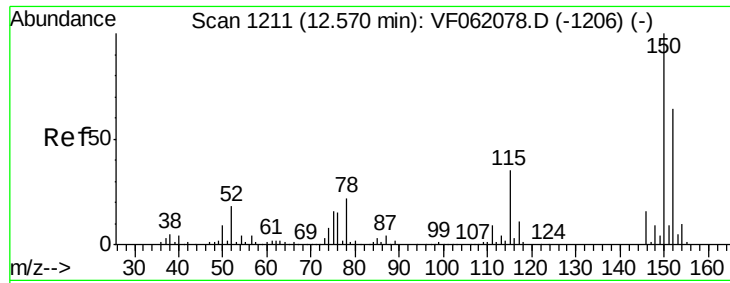
Tot Ion:104 Resp: 8882
Ion Ratio Lower Upper
104 100
78 43.6 34.3 51.5
103 47.9 36.9 55.3



#71
Bromoform
Concen: 21.040 ug/l
RT: 10.77 min Scan# 1029
Delta R.T. -0.02 min
Lab File: VF062117.D
Acq: 23 Mar 2019 15:10

Tgt Ion:173 Resp: 943
Ion Ratio Lower Upper
173 100
175 47.8 24.1 72.4
254 0.0 6.2 9.4#

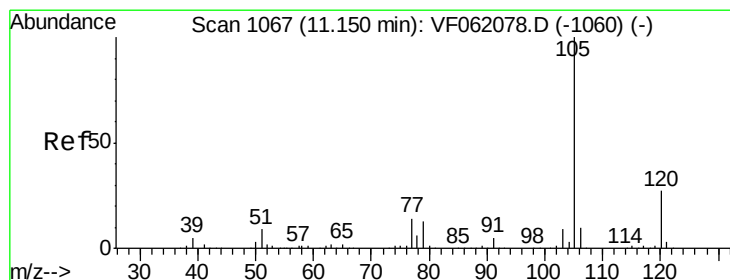
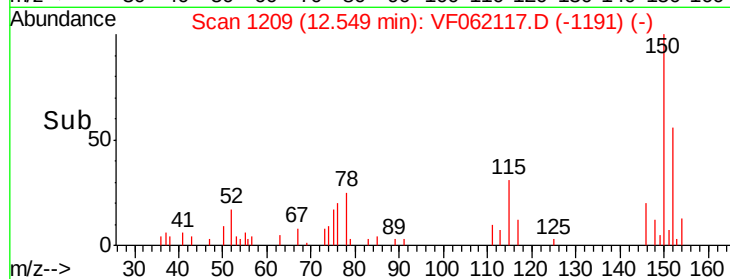
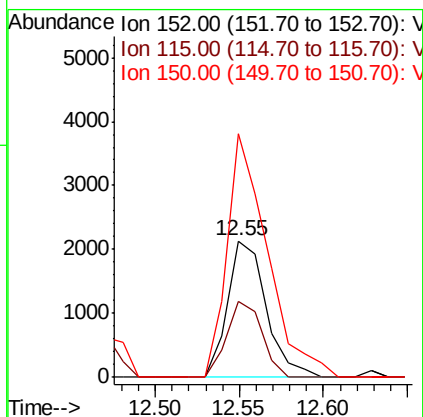
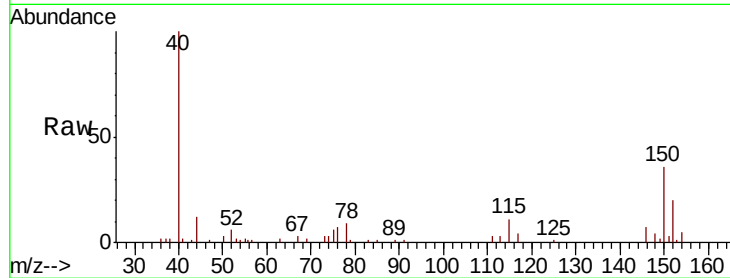




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. -0.02 min
 Lab File: VF062117.D
 Acq: 23 Mar 2019 15:10

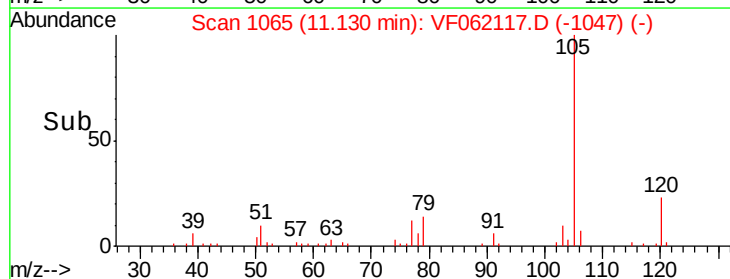
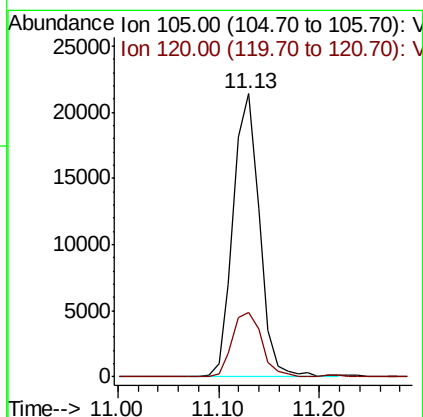
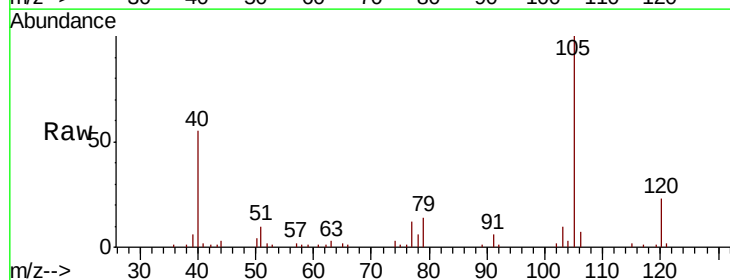
Instrument :
 MSVOA_F
 ClientSampled :

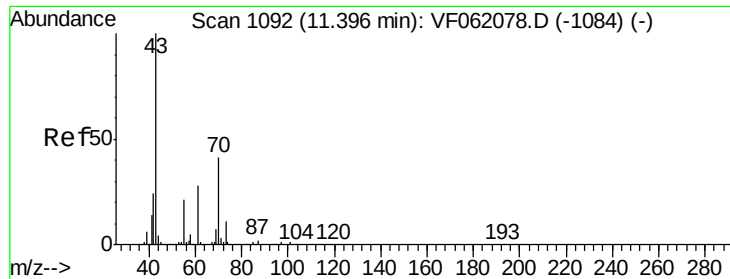
Tot Ion:152 Resp: 3400
 Ion Ratio Lower Upper
 152 100
 115 55.8 27.7 83.1
 150 178.6 0.0 313.2



#73
 Isopropylbenzene
 Concen: 163.163 ug/l
 RT: 11.13 min Scan# 1065
 Delta R.T. -0.02 min
 Lab File: VF062117.D
 Acq: 23 Mar 2019 15:10

Tgt Ion:105 Resp: 39036
 Ion Ratio Lower Upper
 105 100
 120 22.6 13.8 41.3





#74

N-amvl acetate

Concen: 1.561 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

Instrument :

MSVOA_F

ClientSampled :

Tot Ion: 43 Resp: 89

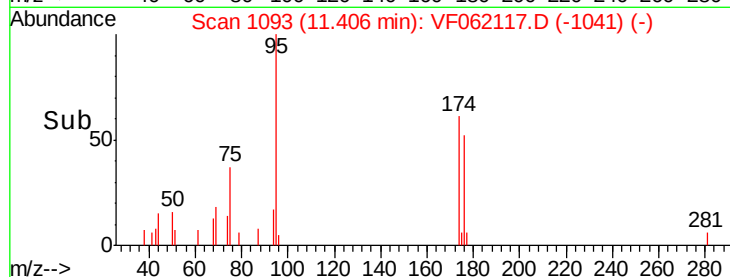
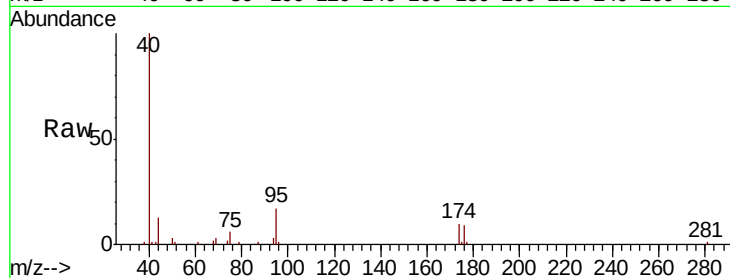
Ion Ratio Lower Upper

43 100

70 0.0 32.9 49.3#

55 0.0 17.1 25.7#

61 84.8 22.2 33.2#

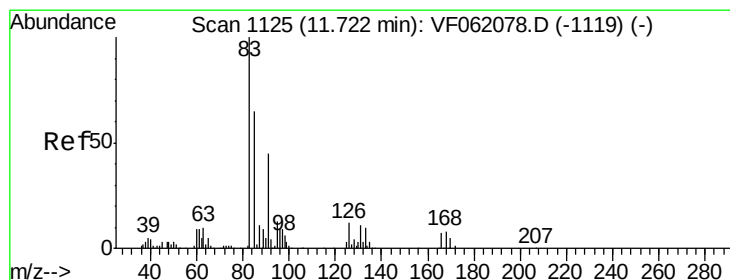
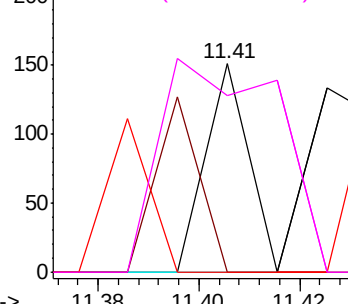


Abundance Ion 43.00 (42.70 to 43.70): VF0

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



#75

1,1,2,2-Tetrachloroethane

Concen: 57.791 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. -0.02 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

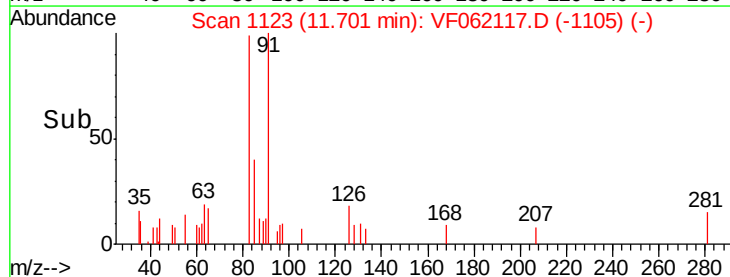
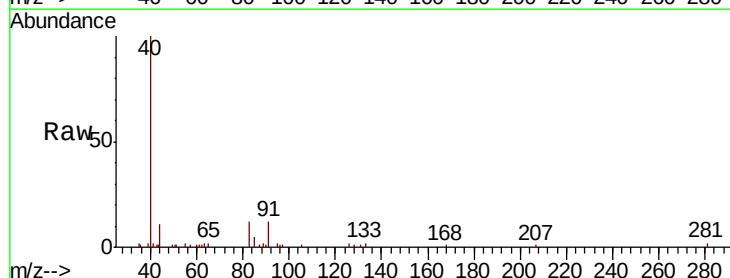
Tgt Ion: 83 Resp: 2374

Ion Ratio Lower Upper

83 100

131 10.6 5.3 15.8

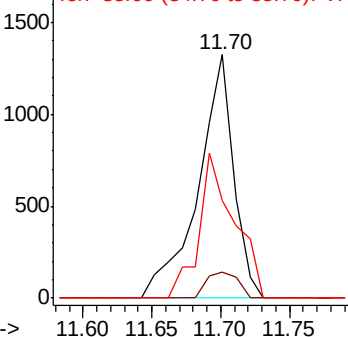
85 40.2 32.6 98.0

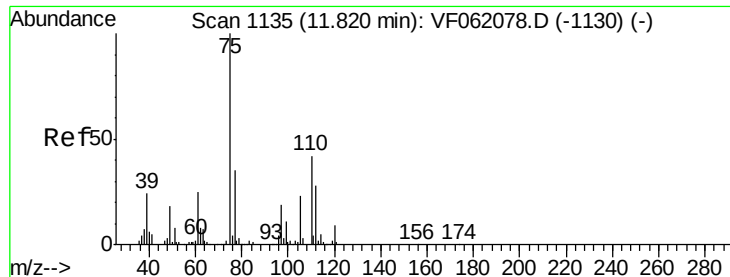


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0

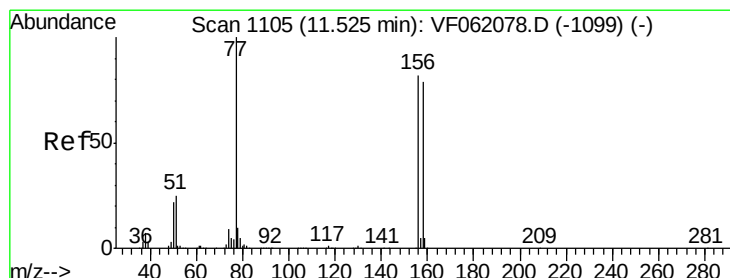
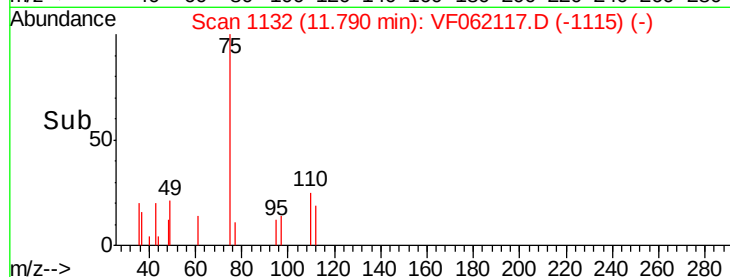
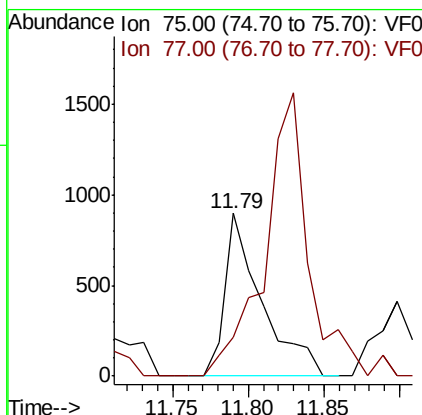
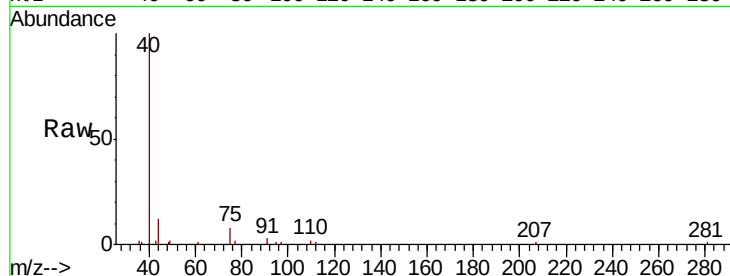




#76
 1,2,3-Trichloropropane
 Concen: 52.889 ug/l
 RT: 11.79 min Scan# 1132
 Delta R.T. -0.03 min
 Lab File: VF062117.D
 Acq: 23 Mar 2019 15:10

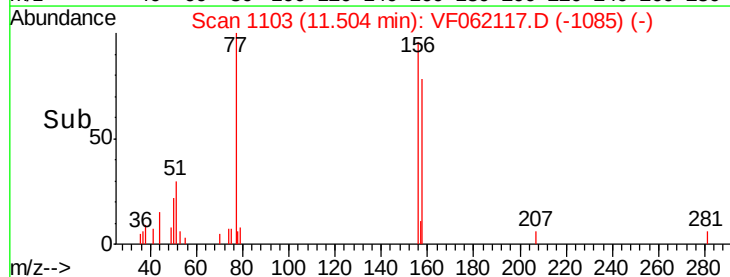
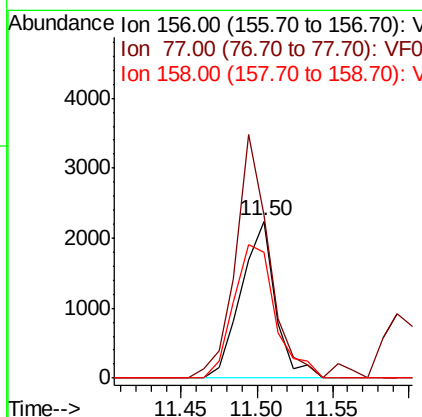
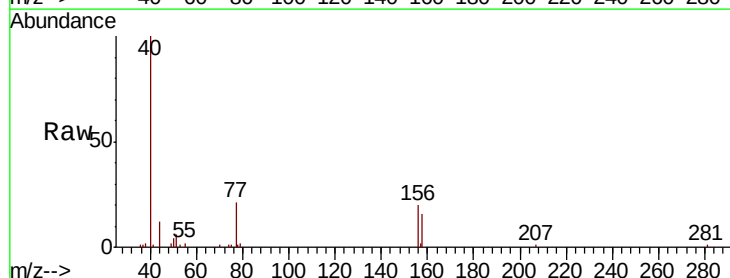
Instrument :
 MSVOA_F
 ClientSampleId :

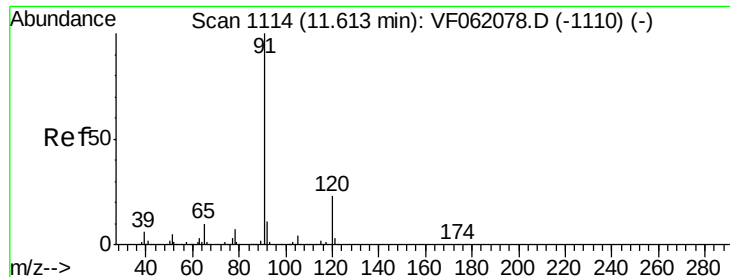
Tot Ion: 75 Resp: 1529
 Ion Ratio Lower Upper
 75 100
 77 24.2 17.8 53.3



#77
 Bromobenzene
 Concen: 60.563 ug/l
 RT: 11.50 min Scan# 1103
 Delta R.T. -0.02 min
 Lab File: VF062117.D
 Acq: 23 Mar 2019 15:10

Tgt Ion: 156 Resp: 3540
 Ion Ratio Lower Upper
 156 100
 77 103.7 61.3 183.9
 158 80.5 48.6 145.9





#78

n-propylbenzene

Concen: 152.090 ug/l

RT: 11.59 min Scan# 1112

Delta R.T. -0.02 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

Instrument :

MSVOA_F

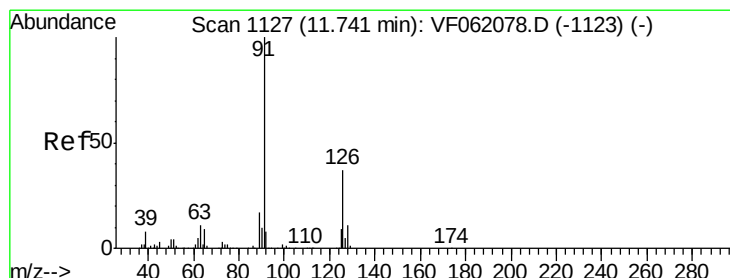
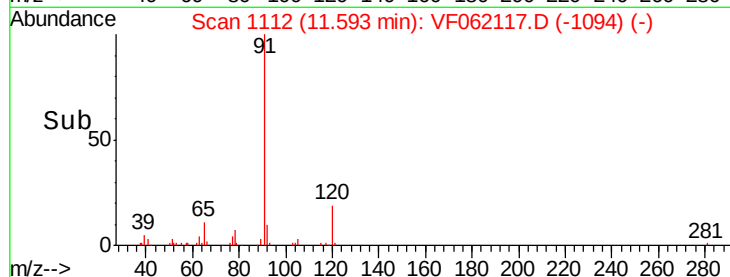
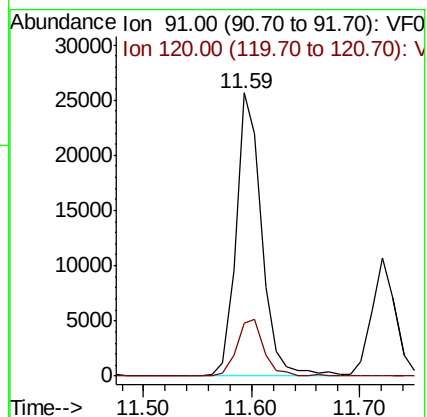
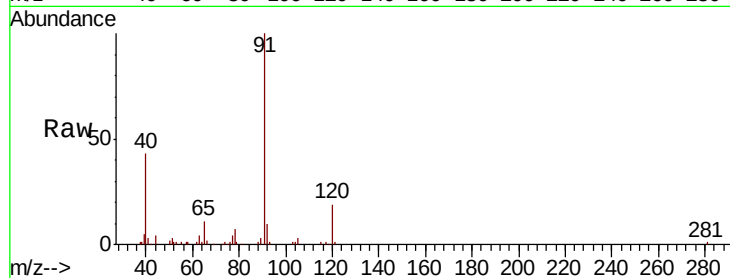
ClientSampleId :

Tot Ion: 91 Resp: 42252

Ion Ratio Lower Upper

91 100

120 18.7 11.3 33.8



#79

2-Chlorotoluene

Concen: 104.202 ug/l

RT: 11.72 min Scan# 1125

Delta R.T. -0.02 min

Lab File: VF062117.D

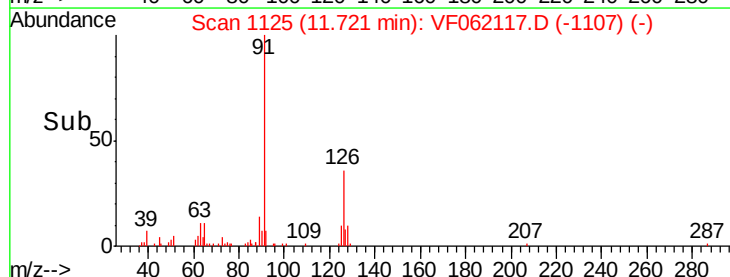
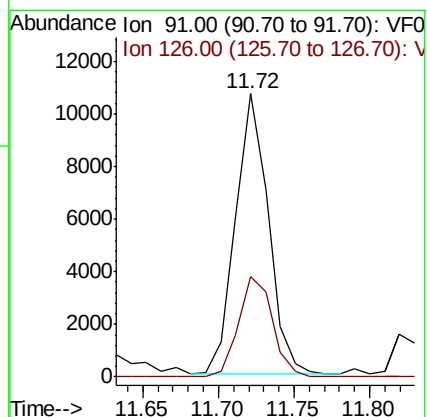
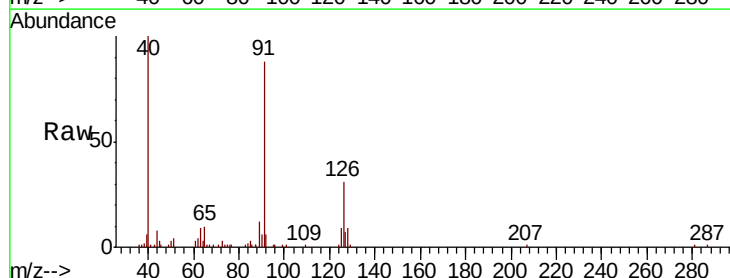
Acq: 23 Mar 2019 15:10

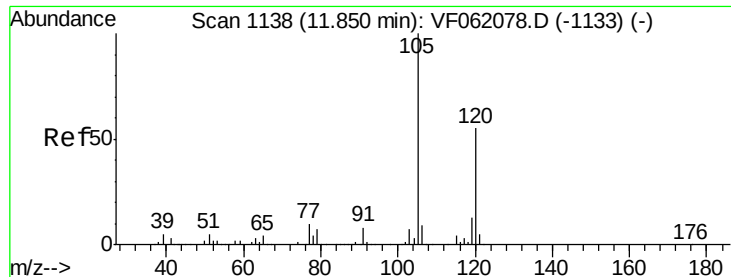
Tgt Ion: 91 Resp: 16090

Ion Ratio Lower Upper

91 100

126 35.6 18.3 54.8





#80

1,3,5-Trimethylbenzene

Concen: 115.194 ug/l

RT: 11.83 min Scan# 1136

Delta R.T. -0.02 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

Instrument :

MSVOA_F

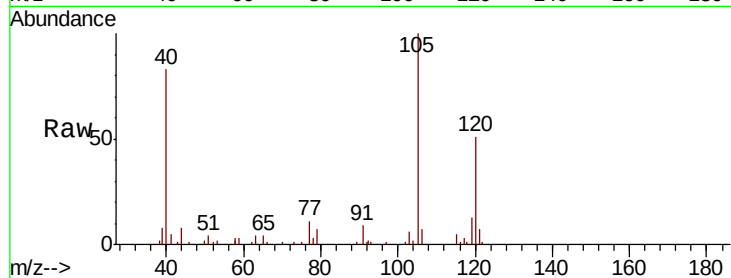
ClientSampleId :

Tot Ion:105 Resp: 22669

Ion Ratio Lower Upper

105 100

120 51.1 27.8 83.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.83

15000

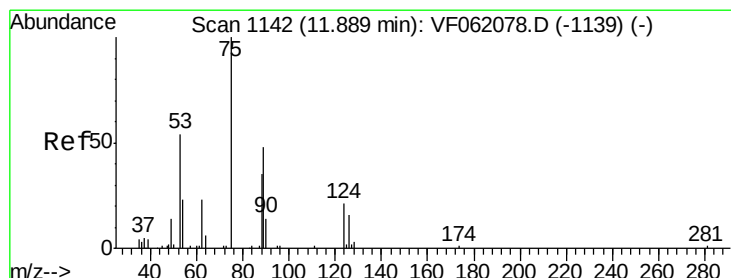
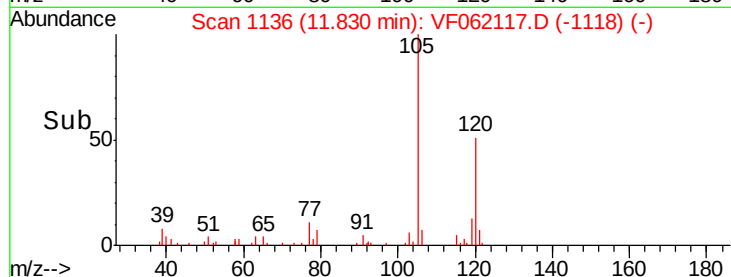
10000

5000

0

Time-->

11.75 11.80 11.85 11.90



#81

trans-1,4-Dichloro-2-butene

Concen: 58.234 ug/l

RT: 11.90 min Scan# 1143

Delta R.T. 0.01 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

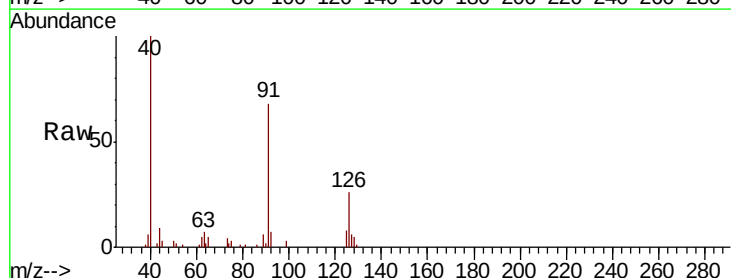
Tgt Ion: 75 Resp: 686

Ion Ratio Lower Upper

75 100

53 0.0 49.4 74.0#

89 170.7 40.6 60.8#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0

1000

800

600

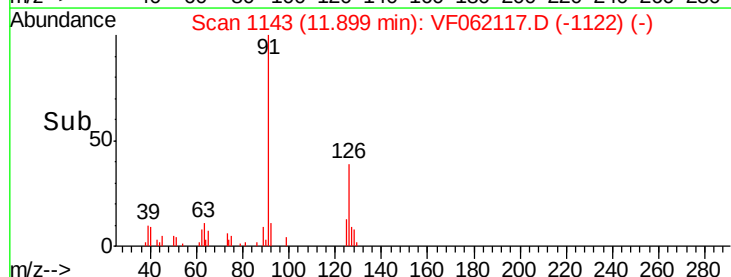
400

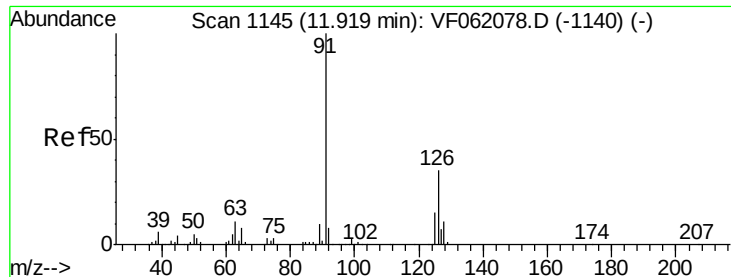
200

0

Time-->

11.85 11.90 11.95





#82

4-Chlorotoluene

Concen: 88.768 ug/l

RT: 11.90 min Scan# 1143

Delta R.T. -0.02 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

Instrument :

MSVOA_F

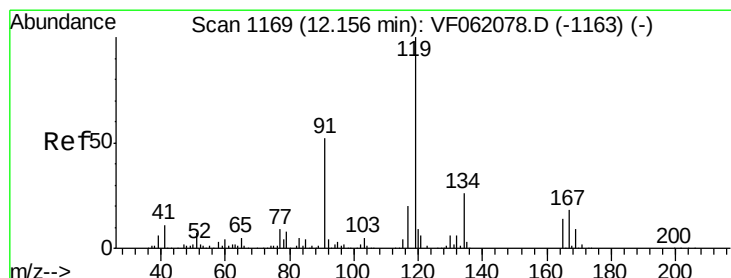
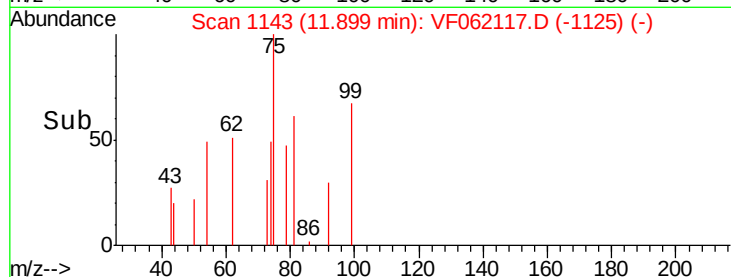
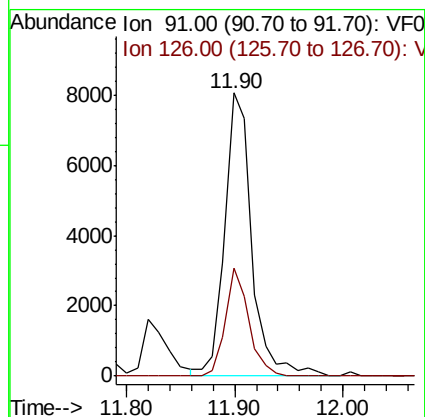
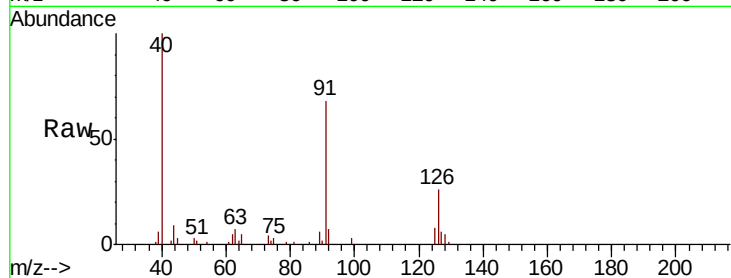
ClientSampleId :

Tot Ion: 91 Resp: 14054

Ion Ratio Lower Upper

91 100

126 38.3 17.2 51.6



#83

tert-Butylbenzene

Concen: 135.581 ug/l

RT: 12.14 min Scan# 1167

Delta R.T. -0.02 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

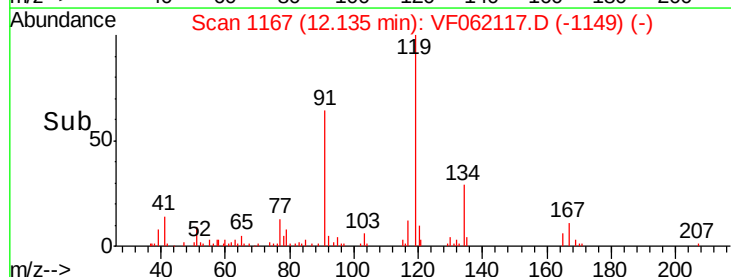
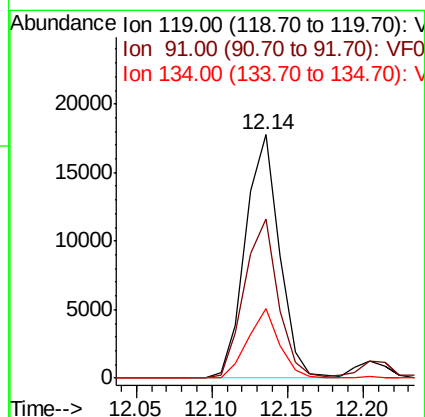
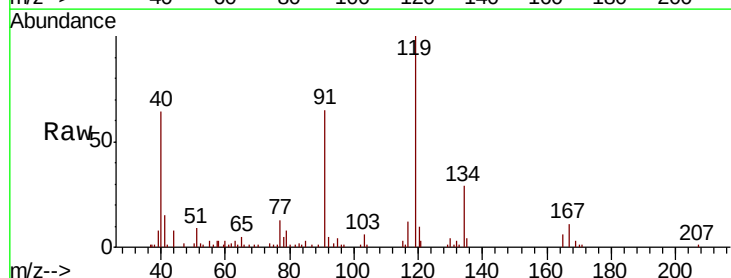
Tgt Ion: 119 Resp: 27930

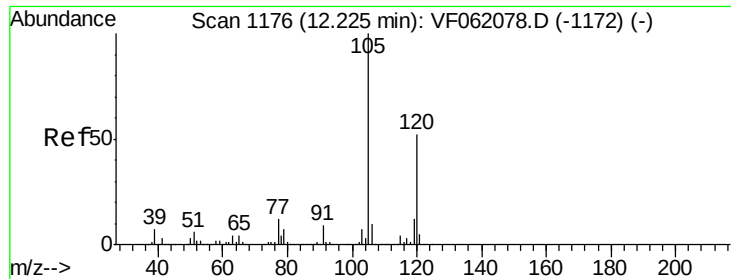
Ion Ratio Lower Upper

119 100

91 65.2 26.1 78.2

134 28.7 12.8 38.4

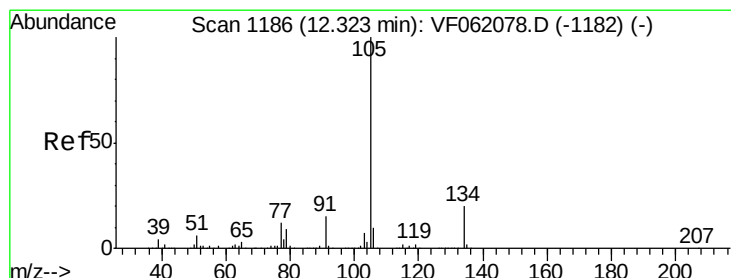
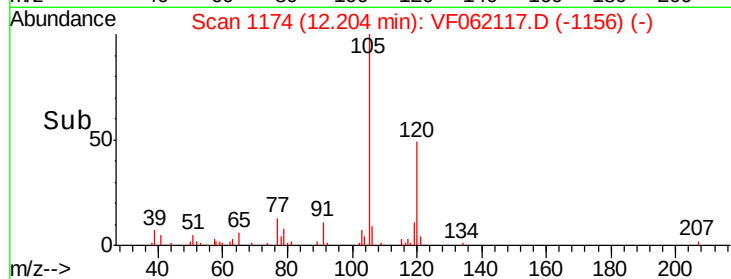
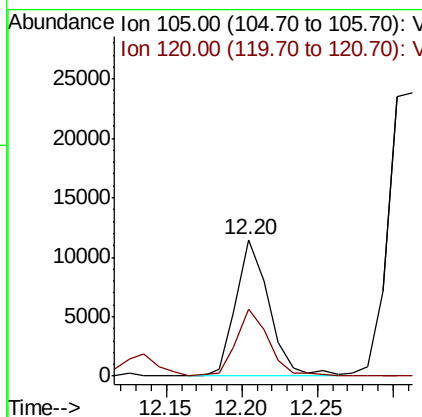
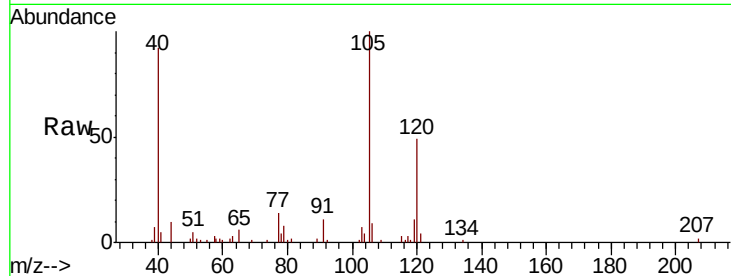




#84
 1,2,4-Trimethylbenzene
 Concen: 91.309 ug/l
 RT: 12.20 min Scan# 1174
 Delta R.T. -0.02 min
 Lab File: VF062117.D
 Acq: 23 Mar 2019 15:10

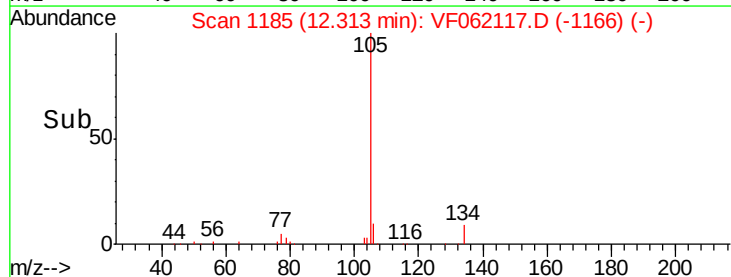
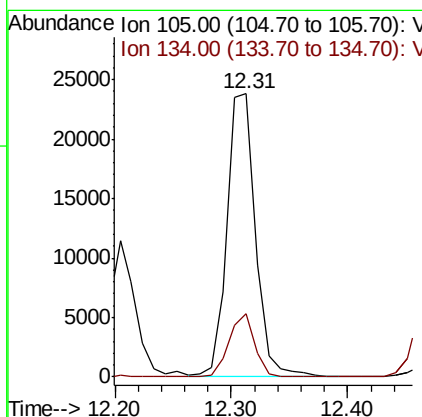
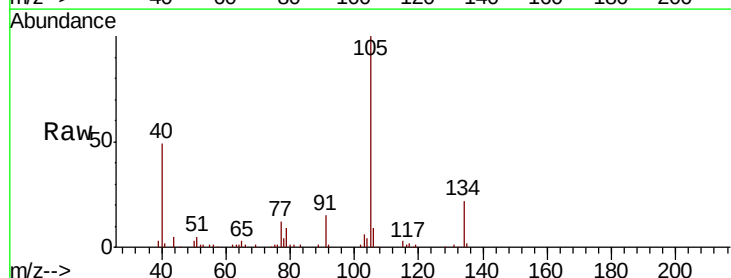
Instrument :
 MSVOA_F
 ClientSampleId :

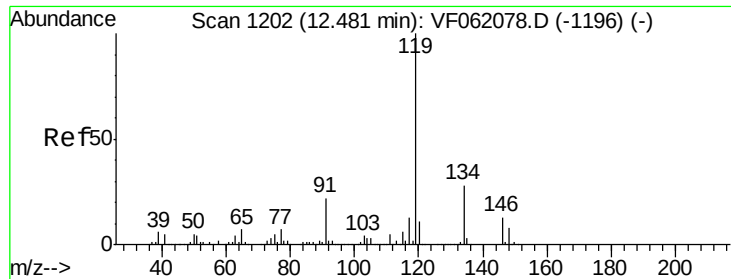
Tot Ion:105 Resp: 17615
 Ion Ratio Lower Upper
 105 100
 120 49.4 26.1 78.2



#85
 sec-Butylbenzene
 Concen: 151.844 ug/l
 RT: 12.31 min Scan# 1185
 Delta R.T. -0.01 min
 Lab File: VF062117.D
 Acq: 23 Mar 2019 15:10

Tgt Ion:105 Resp: 40466
 Ion Ratio Lower Upper
 105 100
 134 22.2 10.2 30.4

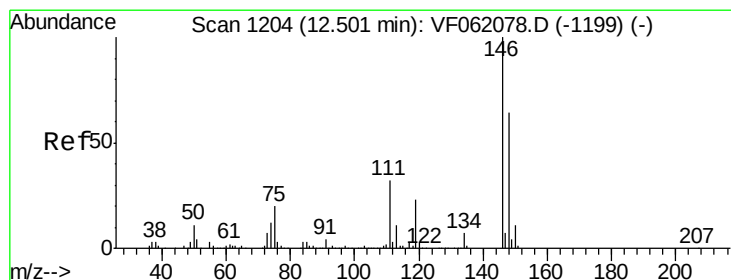
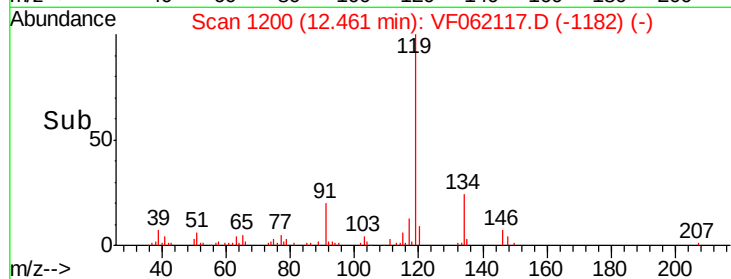
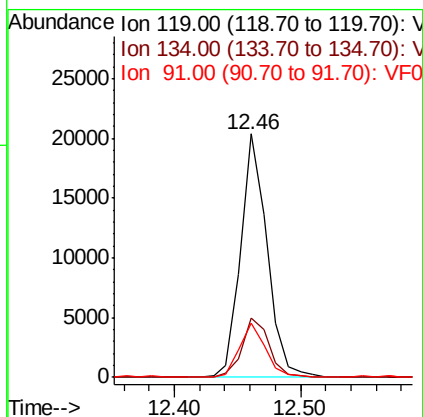
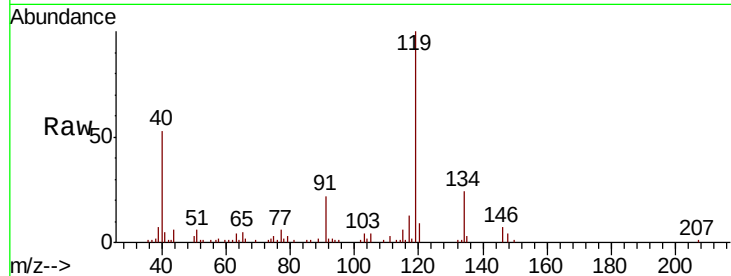




#86
 p-Isopropyltoluene
 Concen: 128.184 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.02 min
 Lab File: VF062117.D
 Acq: 23 Mar 2019 15:10

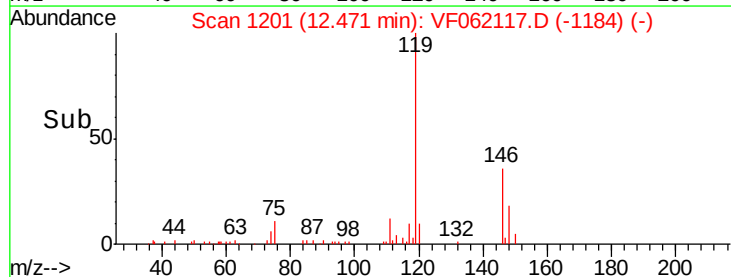
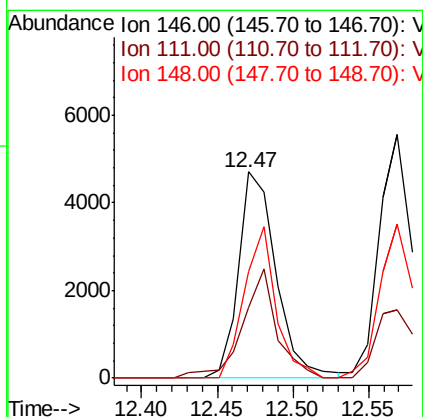
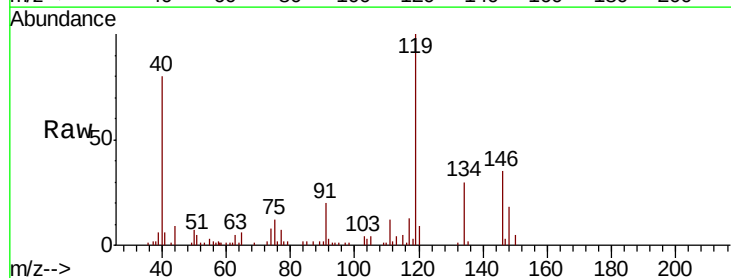
Instrument :
 MSVOA_F
 ClientSampled :

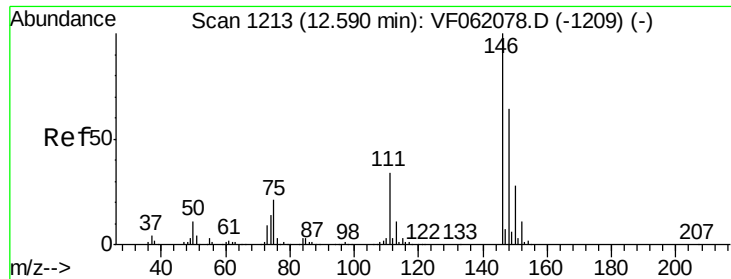
Tot Ion:119 Resp: 29596
 Ion Ratio Lower Upper
 119 100
 134 24.2 14.0 42.0
 91 22.1 10.8 32.4



#87
 1,3-Dichlorobenzene
 Concen: 74.975 ug/l
 RT: 12.47 min Scan# 1201
 Delta R.T. -0.03 min
 Lab File: VF062117.D
 Acq: 23 Mar 2019 15:10

Tgt Ion:146 Resp: 8142
 Ion Ratio Lower Upper
 146 100
 111 34.6 16.1 48.3
 148 51.8 31.9 95.7

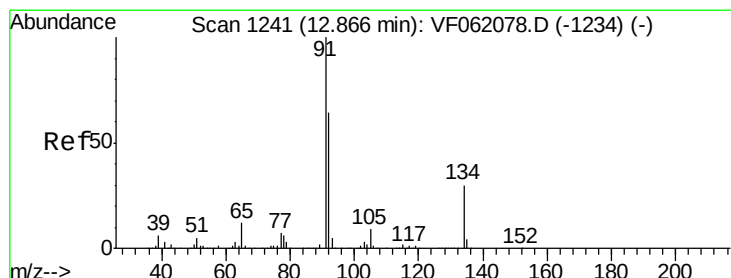
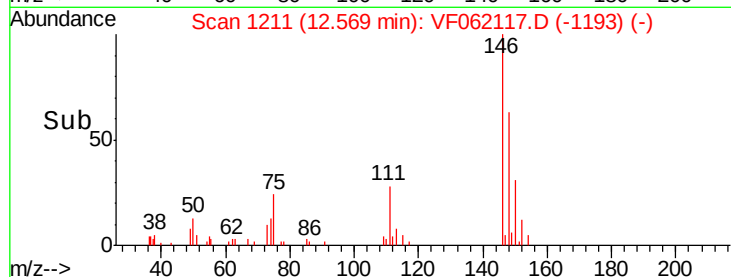
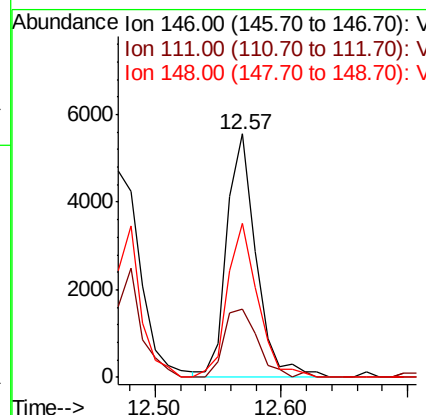
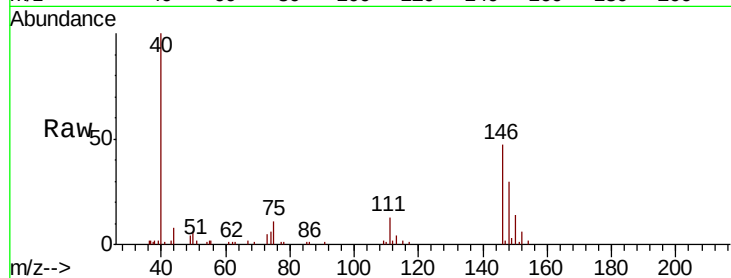




#88
 1,4-Dichlorobenzene
 Concen: 84.762 ug/l
 RT: 12.57 min Scan# 1211
 Delta R.T. -0.02 min
 Lab File: VF062117.D
 Acq: 23 Mar 2019 15:10

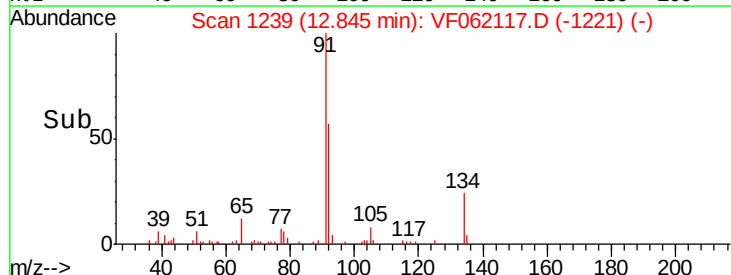
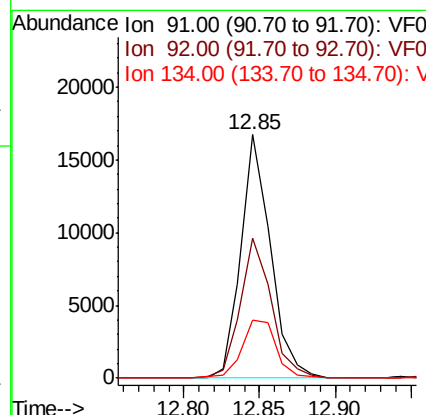
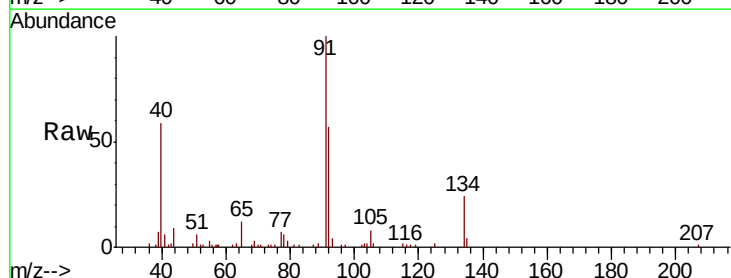
Instrument :
 MSVOA_F
 ClientSampleId :

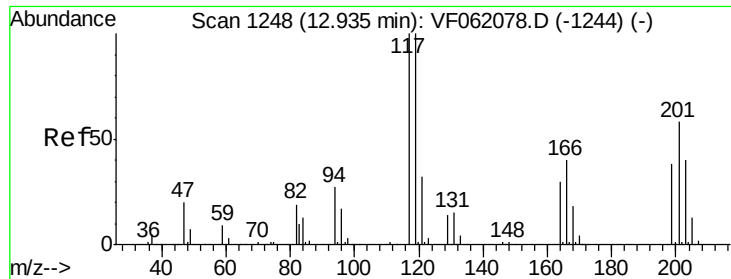
Tot Ion:146 Resp: 8982
 Ion Ratio Lower Upper
 146 100
 111 28.2 16.9 50.6
 148 63.1 31.9 95.7



#89
 n-Butylbenzene
 Concen: 103.528 ug/l
 RT: 12.85 min Scan# 1239
 Delta R.T. -0.02 min
 Lab File: VF062117.D
 Acq: 23 Mar 2019 15:10

Tgt Ion: 91 Resp: 22805
 Ion Ratio Lower Upper
 91 100
 92 57.4 31.9 95.5
 134 23.7 14.9 44.9

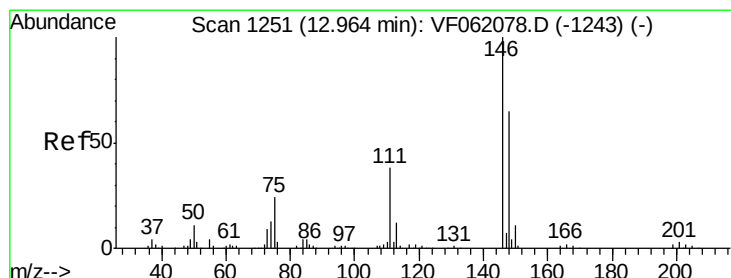
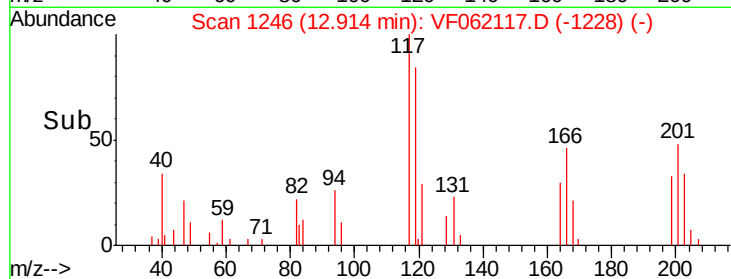
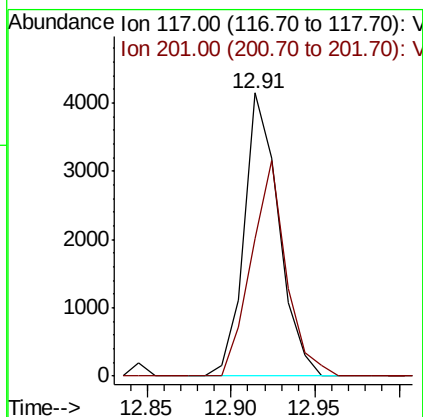
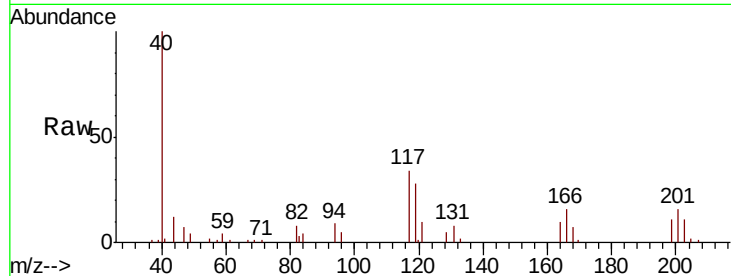




#90
Hexachloroethane
Concen: 107.463 ug/l
RT: 12.91 min Scan# 1246
Delta R.T. -0.02 min
Lab File: VF062117.D
Acq: 23 Mar 2019 15:10

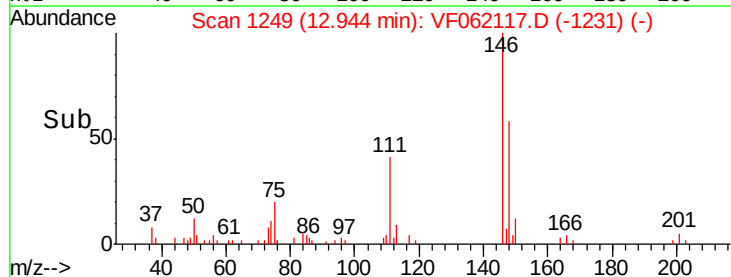
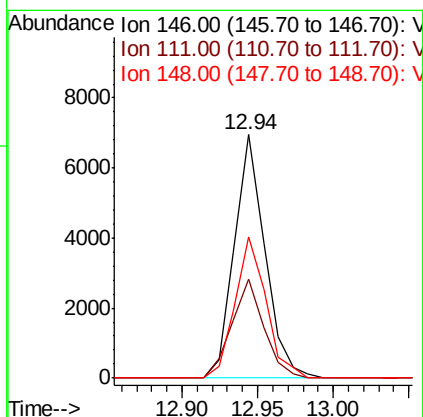
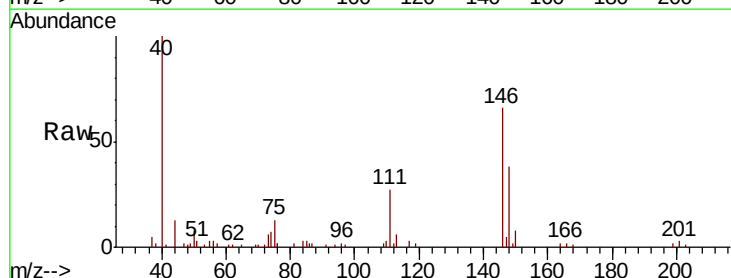
Instrument :
MSVOA_F
ClientSampleId :

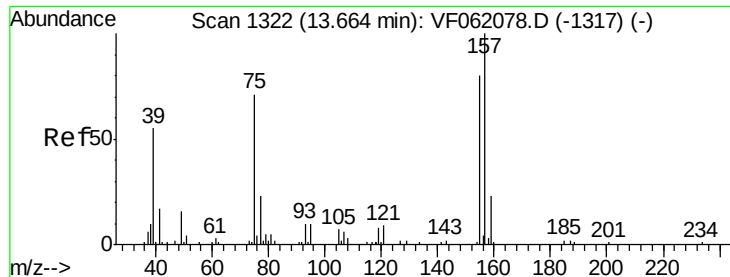
Tot Ion:117 Resp: 5908
Ion Ratio Lower Upper
117 100
201 48.5 28.7 86.1



#91
1,2-Dichlorobenzene
Concen: 95.655 ug/l
RT: 12.94 min Scan# 1249
Delta R.T. -0.02 min
Lab File: VF062117.D
Acq: 23 Mar 2019 15:10

Tgt Ion:146 Resp: 9754
Ion Ratio Lower Upper
146 100
111 40.8 19.1 57.3
148 57.9 32.8 98.3





#92

1,2-Dibromo-3-Chloropropane

Concen: 15.745 ug/l

RT: 13.64 min Scan# 1320

Delta R.T. -0.02 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

Instrument :

MSVOA_F

ClientSampleId :

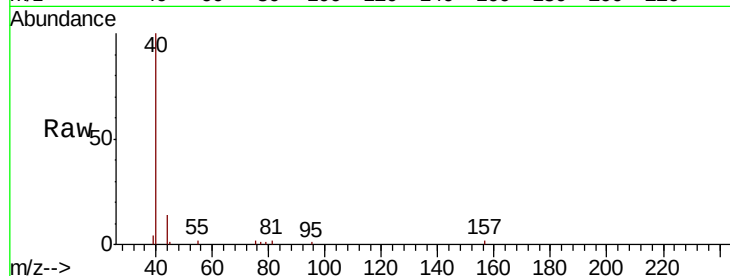
Tot Ion: 75 Resp: 98

Ion Ratio Lower Upper

75 100

155 0.0 56.1 168.4#

157 134.9 70.4 211.2

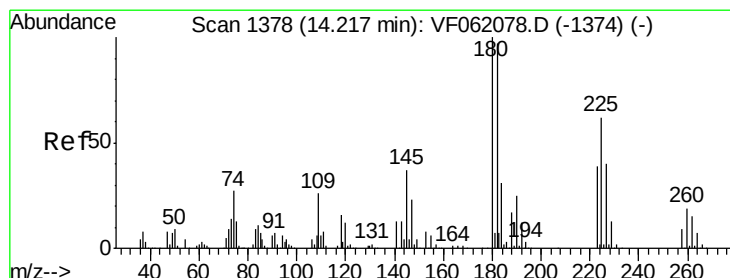
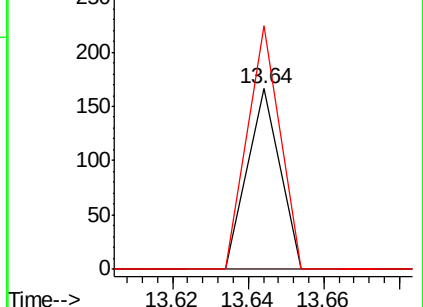
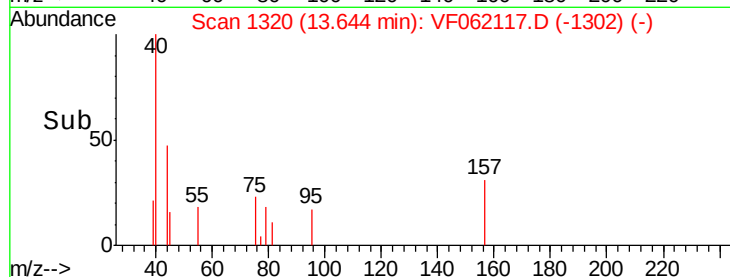


Abundance Ion 75.00 (74.70 to 75.70): VF062117.D (-1302) (-)

Ion 155.00 (154.70 to 155.70): VF062117.D (-1302) (-)

Ion 157.00 (156.70 to 157.70): VF062117.D (-1302) (-)

13.64



#93

1,2,4-Trichlorobenzene

Concen: 19.854 ug/l

RT: 14.20 min Scan# 1376

Delta R.T. -0.02 min

Lab File: VF062117.D

Acq: 23 Mar 2019 15:10

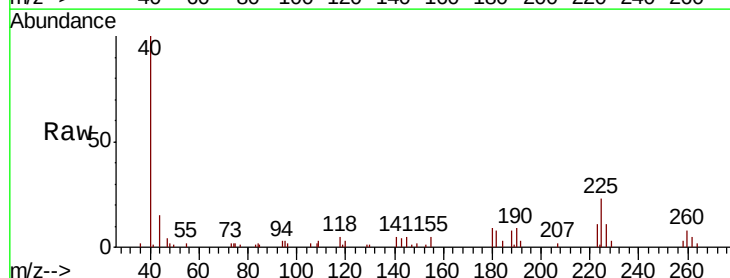
Tgt Ion: 180 Resp: 1411

Ion Ratio Lower Upper

180 100

182 84.9 48.7 146.1

145 51.2 18.3 54.8

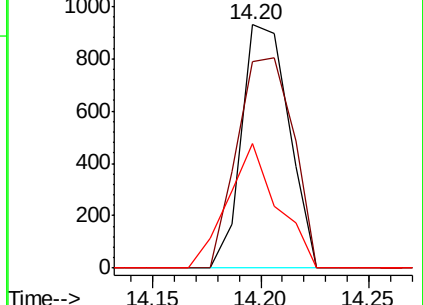
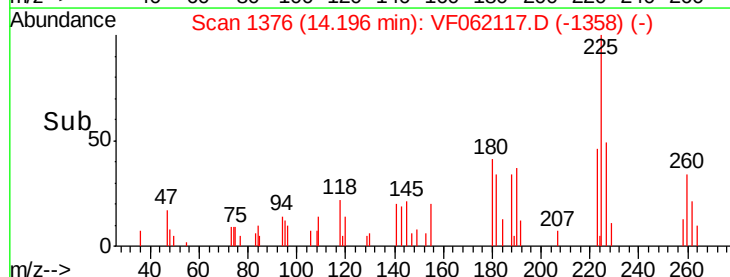


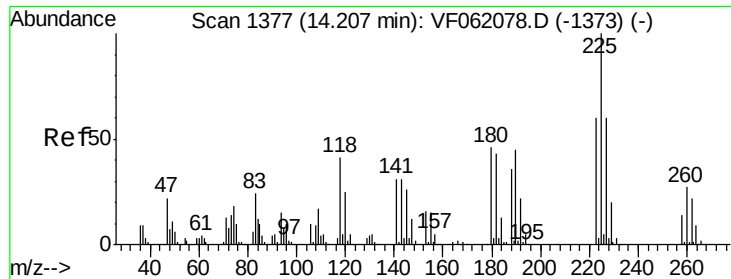
Abundance Ion 180.00 (179.70 to 180.70): VF062117.D (-1358) (-)

Ion 182.00 (181.70 to 182.70): VF062117.D (-1358) (-)

Ion 145.00 (144.70 to 145.70): VF062117.D (-1358) (-)

14.20





#94

Hexachlorobutadiene

Concen: 68.397 ug/l

RT: 14.20 min Scan# 1376

Delta R.T. -0.01 min

Lab File: VF062117.D

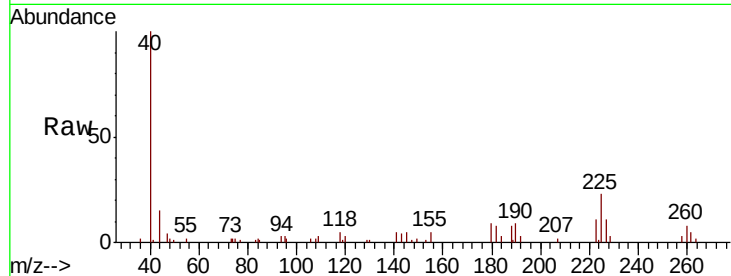
Acq: 23 Mar 2019 15:10

Instrument :

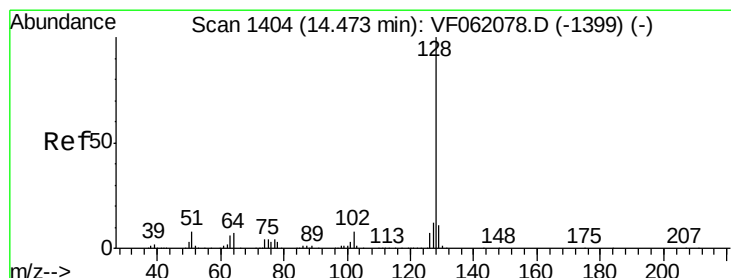
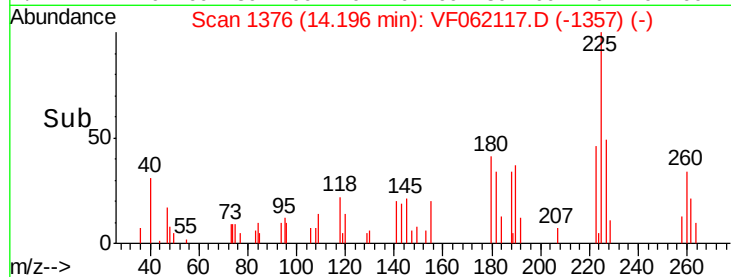
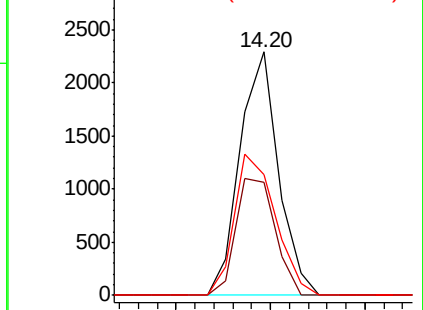
MSVOA_F

ClientSampleId :

Tot Ion:	225	Resp:	3232
Ion	Ratio	Lower	Upper
225	100		
223	46.2	30.0	90.0
227	49.4	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: 1.052 ug/l

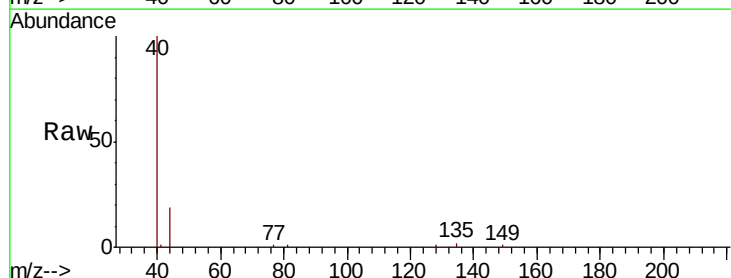
RT: 14.46 min Scan# 1403

Delta R.T. -0.01 min

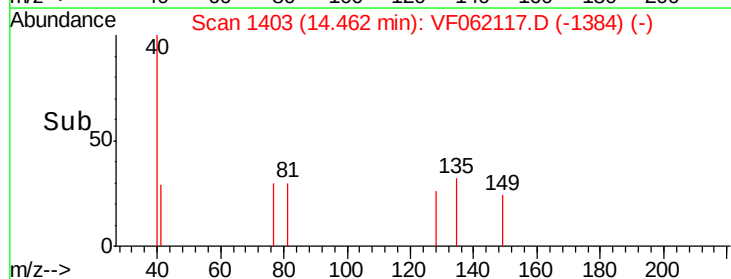
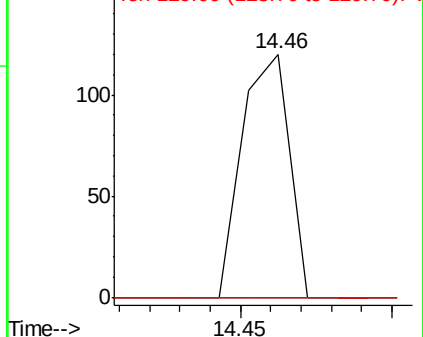
Lab File: VF062117.D

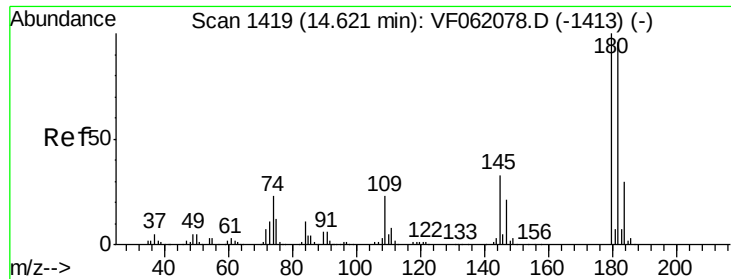
Acq: 23 Mar 2019 15:10

Tgt Ion:	128	Resp:	131
Ion	Ratio	Lower	Upper
128	100		
127	0.0	9.5	14.3#
129	0.0	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: 7.246 ug/l
 RT: 14.61 min Scan# 1418
 Delta R.T. -0.01 min
 Lab File: VF062117.D
 Acq: 23 Mar 2019 15:10

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ion	Ratio	Lower	Upper
180	100			
182	56.3	47.9	143.7	
145	26.1	16.6	49.7	

