

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF121918\
 Data File : VF061070.D
 Acq On : 18 Dec 2018 19:22
 Operator : VA/AP
 Sample : VSTDIC020
 Misc : 5.00G/5mL/MSVOA-F/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Quant Time: Dec 19 04:19:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 04:15:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	207223	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	349252	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.78	117	318968	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	169591	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	51034	20.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.90%	
35) Dibromofluoromethane	4.11	113	57052	20.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.96%	
50) Toluene-d8	7.56	98	159822	19.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	39.82%	
62) 4-Bromofluorobenzene	11.41	95	75981	20.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.78%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.97	85	93916	27.919	ug/l	96
3) Chloromethane	1.11	50	51098	23.702	ug/l	93
4) Vinyl Chloride	1.14	62	47541	23.826	ug/l #	85
5) Bromomethane	1.36	94	32306	23.287	ug/l	85
6) Chloroethane	1.40	64	20775	24.155	ug/l	99
7) Trichlorofluoromethane	1.50	101	65650	15.870	ug/l	99
8) Diethyl Ether	1.63	74	11981	20.234	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	1.84	101	49960	23.918	ug/l	91
10) Methyl Iodide	1.91	142	62470	19.522	ug/l	99
11) Tert butyl alcohol	2.59	59	11303	111.890	ug/l	99
12) 1,1-Dichloroethene	1.80	96	35168	20.951	ug/l	97
13) Acrolein	1.93	56	278	3.170	ug/l	89
14) Allyl chloride	2.09	41	37686	19.251	ug/l	91
15) Acrylonitrile	2.94	53	26228	113.440	ug/l	94
16) Acetone	2.24	43	51194	109.552	ug/l #	92
17) Carbon Disulfide	1.84	76	74747	16.238	ug/l	98
18) Methyl Acetate	2.43	43	25027	28.921	ug/l	94
19) Methyl tert-butyl Ether	2.43	73	83327	22.231	ug/l	100
20) Methylene Chloride	2.27	84	26996	16.866	ug/l	90
21) trans-1,2-Dichloroethene	2.31	96	25952	16.032	ug/l	88
22) Diisopropyl ether	2.80	45	128390	22.644	ug/l	97
23) Vinyl Acetate	3.19	43	304931	117.178	ug/l	99
24) 1,1-Dichloroethane	2.87	63	76419	22.686	ug/l	99
25) 2-Butanone	4.34	43	83204	105.257	ug/l	97
26) 2,2-Dichloropropane	3.60	77	42947	20.157	ug/l	95
27) cis-1,2-Dichloroethene	3.47	96	60196	22.944	ug/l	91
28) Bromochloromethane	3.72	49	36888	22.308	ug/l	91
29) Tetrahydrofuran	4.07	42	33548	100.632	ug/l	98
30) Chloroform	3.86	83	110710	21.287	ug/l	98
31) Cyclohexane	3.69	56	49340	13.965	ug/l #	93
32) 1,1,1-Trichloroethane	4.08	97	67039	19.473	ug/l	93
36) 1,1-Dichloropropene	4.28	75	82346	21.056	ug/l	93
37) Ethyl Acetate	4.11	43	34678	21.951	ug/l	91
38) Carbon Tetrachloride	3.99	117	64106	19.359	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.45	83	82547	20.305	ug/l	94
40) Benzene	4.63	78	185242	21.532	ug/l	95
41) Methacrylonitrile	4.75	41	18021	19.269	ug/l #	85
42) 1,2-Dichloroethane	4.94	62	69359	22.113	ug/l	99
43) Isopropyl Acetate	6.96	43	39915	18.836	ug/l	97
44) Trichloroethene	5.50	130	61268	21.835	ug/l	98
45) 1,2-Dichloropropane	6.23	63	49848	22.399	ug/l	93
46) Dibromomethane	6.09	93	31368	20.810	ug/l	98
47) Bromodichloromethane	6.38	83	85368	21.271	ug/l	98
48) Methyl methacrylate	6.72	41	28538	20.150	ug/l	95
49) 1,4-Dioxane	6.71	88	4368	426.539	ug/l	91
51) 4-Methyl-2-Pentanone	8.26	43	151182	105.053	ug/l	98
52) Toluene	7.63	92	130338	21.638	ug/l	95
53) t-1,3-Dichloropropene	8.28	75	70280	21.690	ug/l	99
54) cis-1,3-Dichloropropene	7.30	75	90676	22.677	ug/l	99
55) 1,1,2-Trichloroethane	8.49	97	37918	21.876	ug/l	95
56) Ethyl methacrylate	8.62	69	38092	19.929	ug/l #	92
57) 1,3-Dichloropropane	8.86	76	65490	21.526	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.30	63	42710	188.728	ug/l	99
59) 2-Hexanone	9.49	43	103923	102.188	ug/l	99
60) Dibromochloromethane	8.71	129	53390	20.623	ug/l	97
61) 1,2-Dibromoethane	8.99	107	39120	20.762	ug/l	98
64) Tetrachloroethene	8.15	164	53963	22.071	ug/l	96
65) Chlorobenzene	9.80	112	137670	22.342	ug/l	94
66) 1,1,1,2-Tetrachloroethane	9.93	131	58129	22.022	ug/l	96
67) Ethyl Benzene	9.90	91	251784	21.889	ug/l	97
68) m/p-Xylenes	10.13	106	178160	42.915	ug/l	91
69) o-Xylene	10.71	106	96243	21.063	ug/l	98
70) Styrene	10.79	104	138651	22.046	ug/l	99
71) Bromoform	10.77	173	26595	20.962	ug/l	99
73) Isopropylbenzene	11.13	105	303709	22.364	ug/l	98
74) N-amyl acetate	11.37	43	66310	21.366	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.70	83	51430	23.093	ug/l	99
76) 1,2,3-Trichloropropane	11.79	75	37095	22.744	ug/l	88
77) Bromobenzene	11.49	156	66285	22.565	ug/l	91
78) n-propylbenzene	11.59	91	376072	23.634	ug/l	99
79) 2-Chlorotoluene	11.72	91	206766	22.634	ug/l	97
80) 1,3,5-Trimethylbenzene	11.83	105	248832	22.588	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.87	75	22293	28.411	ug/l	96
82) 4-Chlorotoluene	11.90	91	205783	21.485	ug/l	97
83) tert-Butylbenzene	12.13	119	256469	22.760	ug/l	99
84) 1,2,4-Trimethylbenzene	12.20	105	238317	21.884	ug/l	98
85) sec-Butylbenzene	12.30	105	331525	21.704	ug/l	97
86) p-Isopropyltoluene	12.46	119	283712	22.083	ug/l	99
87) 1,3-Dichlorobenzene	12.47	146	124434	22.273	ug/l	95
88) 1,4-Dichlorobenzene	12.57	146	120244	22.073	ug/l	98
89) n-Butylbenzene	12.84	91	289778	22.411	ug/l	93
90) Hexachloroethane	12.91	117	66209	21.485	ug/l	96
91) 1,2-Dichlorobenzene	12.94	146	119318	22.453	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.64	75	9043	21.000	ug/l	91

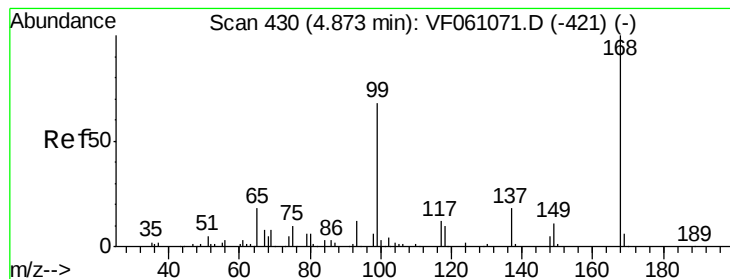
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	83683	22.518	ug/l	99
94) Hexachlorobutadiene	14.19	225	51882	20.970	ug/l	94
95) Naphthalene	14.45	128	146144	17.915	ug/l	97
96) 1,2,3-Trichlorobenzene	14.60	180	74403	21.278	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.00 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

Instrument :

MSVOA_F

ClientSampleId :

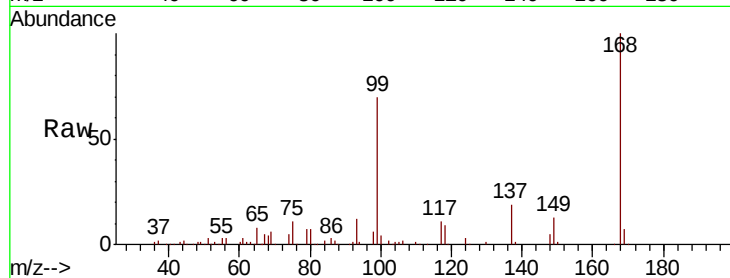
VSTDIC020

Tgt Ion:168 Resp: 207223

Ion Ratio Lower Upper

168 100

99 70.2 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

60000

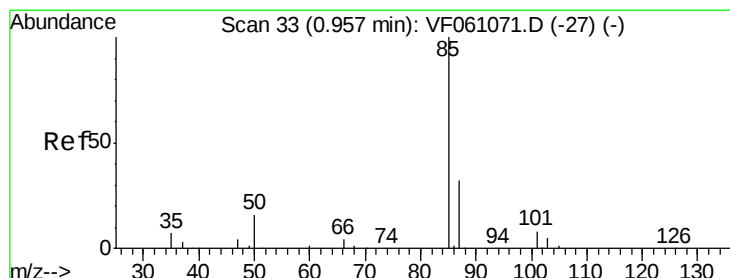
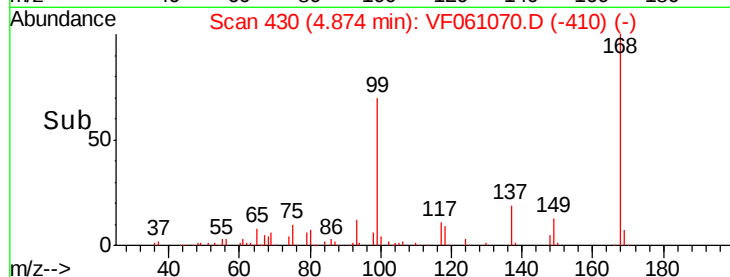
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 27.919 ug/l

RT: 0.97 min Scan# 34

Delta R.T. 0.01 min

Lab File: VF061070.D

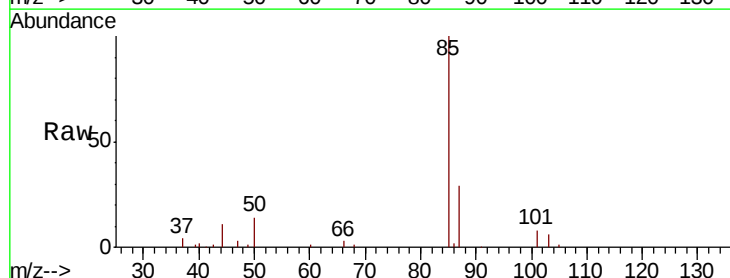
Acq: 18 Dec 2018 19:22

Tgt Ion: 85 Resp: 93916

Ion Ratio Lower Upper

85 100

87 29.3 15.9 47.6



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

25000

20000

15000

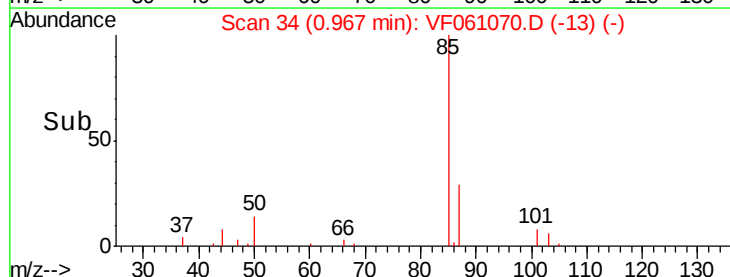
10000

5000

0

Time-->

0.80 0.90 1.00 1.10





#3

Chloromethane

Concen: 23.702 ug/l

RT: 1.11 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

Instrument :

MSVOA_F

ClientSampleId :

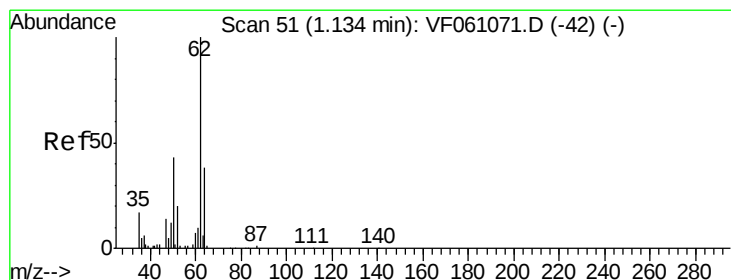
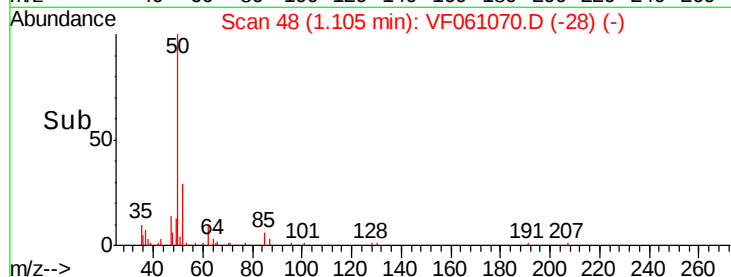
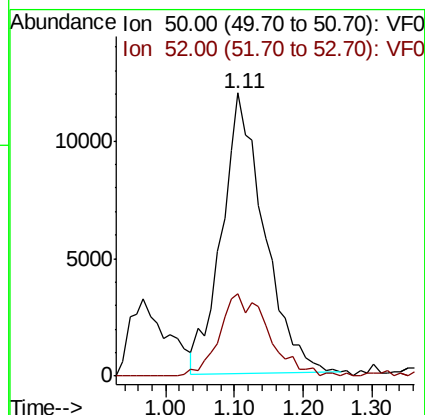
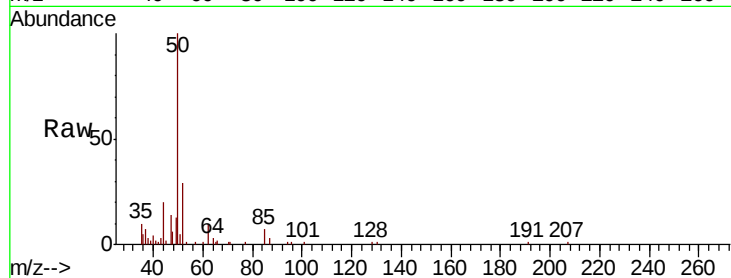
VSTDIC020

Tgt Ion: 50 Resp: 51098

Ion Ratio Lower Upper

50 100

52 29.1 26.3 39.5



#4

Vinyl Chloride

Concen: 23.826 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.01 min

Lab File: VF061070.D

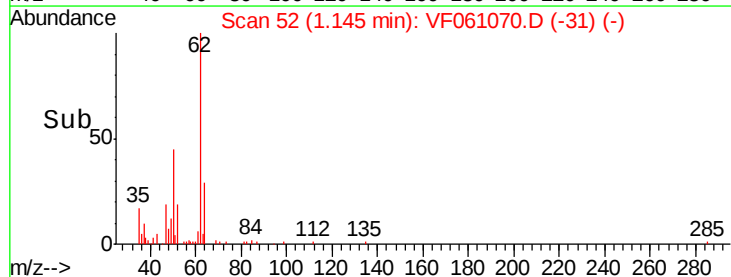
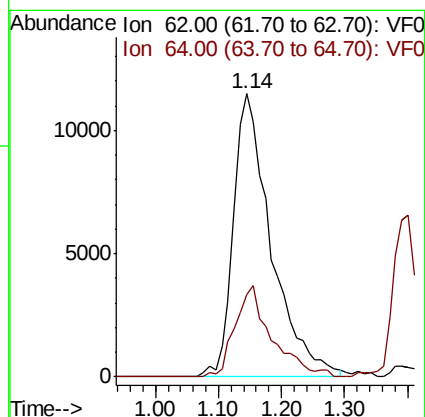
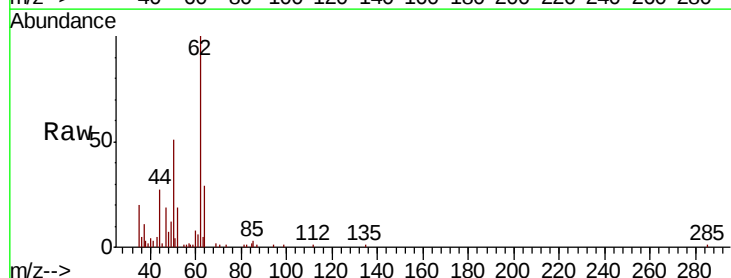
Acq: 18 Dec 2018 19:22

Tgt Ion: 62 Resp: 47541

Ion Ratio Lower Upper

62 100

64 29.1 30.4 45.6#





#5

Bromomethane

Concen: 23.287 ug/l

RT: 1.36 min Scan# 74

Delta R.T. 0.02 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

Instrument :

MSVOA_F

ClientSampleId :

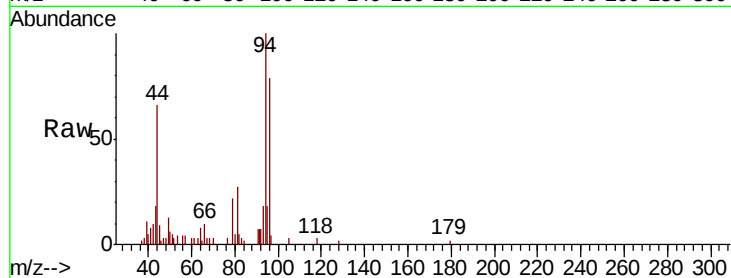
VSTDIC020

Tgt Ion: 94 Resp: 32306

Ion Ratio Lower Upper

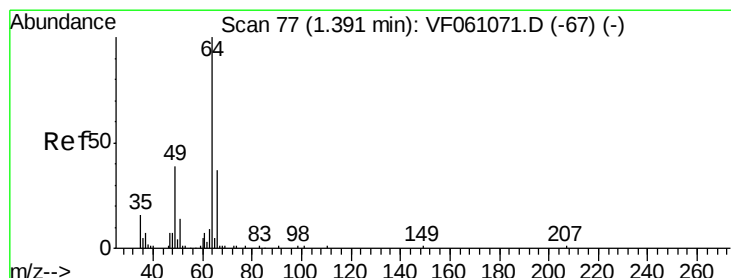
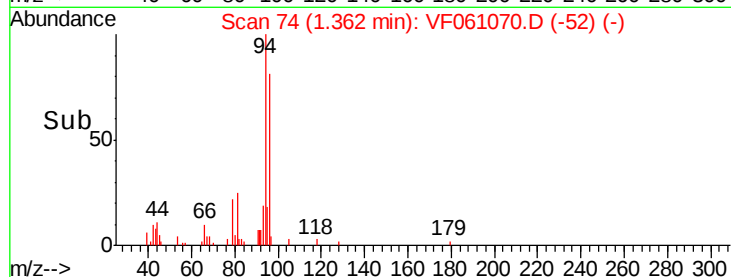
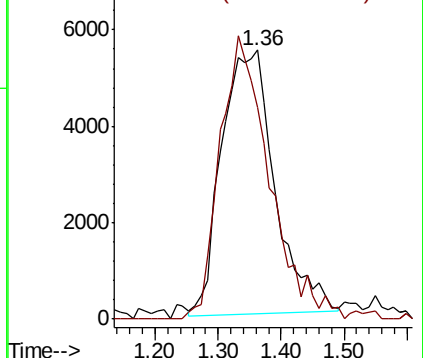
94 100

96 78.6 74.4 111.6



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 24.155 ug/l

RT: 1.40 min Scan# 78

Delta R.T. 0.01 min

Lab File: VF061070.D

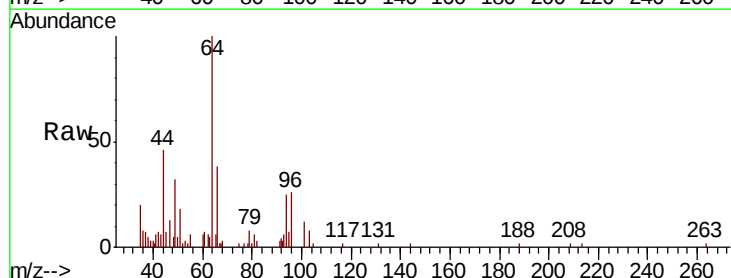
Acq: 18 Dec 2018 19:22

Tgt Ion: 64 Resp: 20775

Ion Ratio Lower Upper

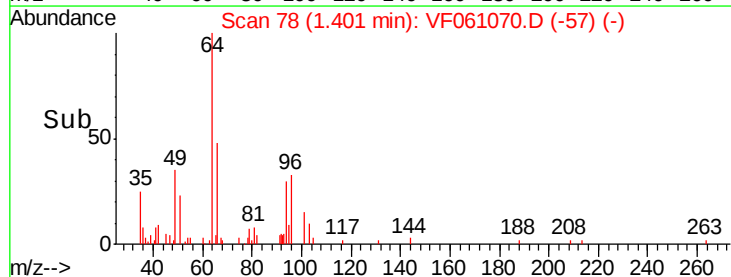
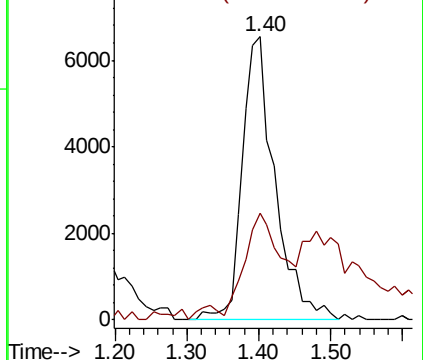
64 100

66 37.9 30.9 46.3



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

Trichlorofluoromethane

Concen: 15.870 ug/l

RT: 1.50 min Scan# 88

Delta R.T. 0.00 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

Instrument :

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ClientSampleId :

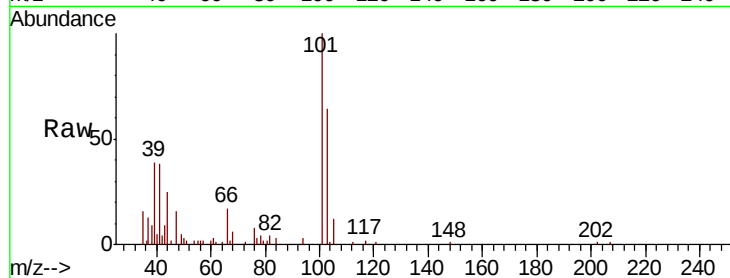
VSTDIC020

Tgt Ion:101 Resp: 65650

Ion Ratio Lower Upper

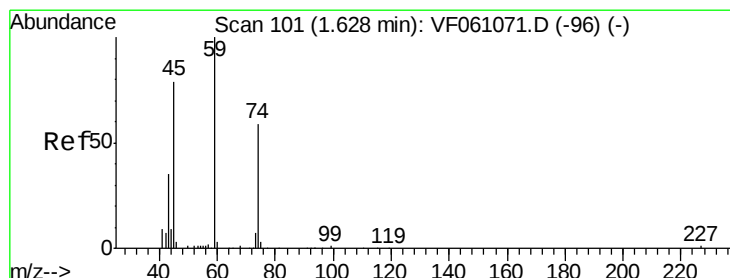
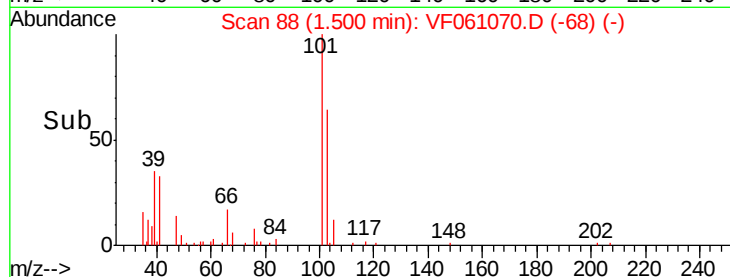
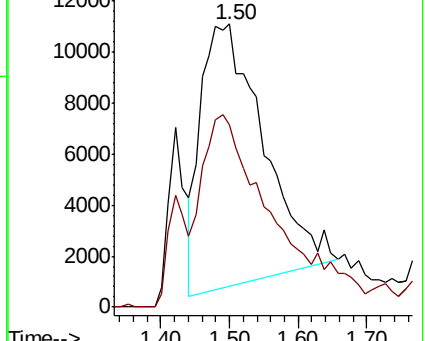
101 100

103 64.2 50.7 76.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 20.234 ug/l

RT: 1.63 min Scan# 101

Delta R.T. 0.00 min

Lab File: VF061070.D

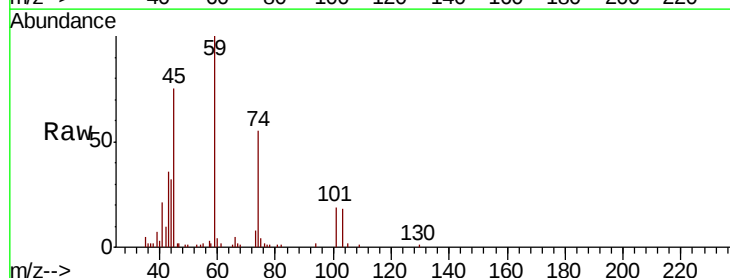
Acq: 18 Dec 2018 19:22

Tgt Ion: 74 Resp: 11981

Ion Ratio Lower Upper

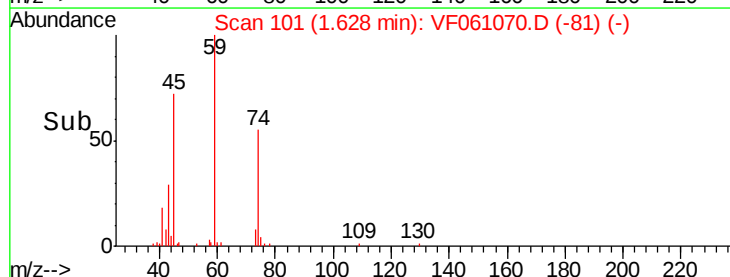
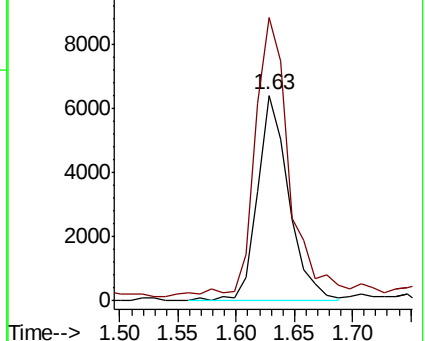
74 100

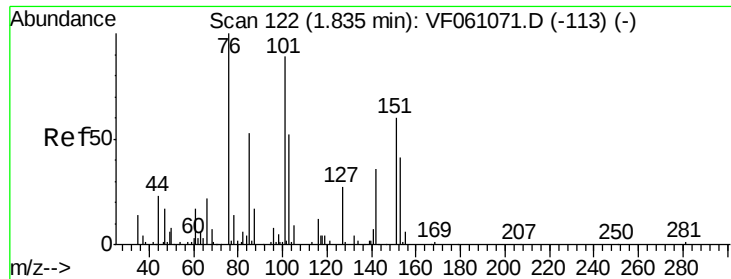
45 137.5 67.8 203.4



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: 23.918 ug/l

RT: 1.84 min Scan# 122

Delta R.T. 0.00 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

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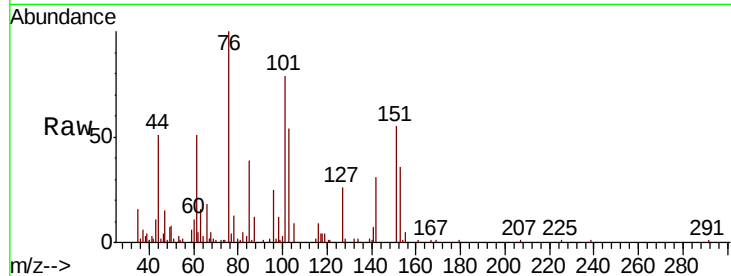
Tgt Ion:101 Resp: 49960

Ion Ratio Lower Upper

101 100

85 49.1 44.5 66.7

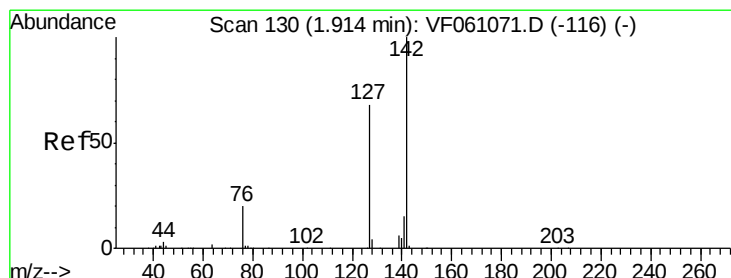
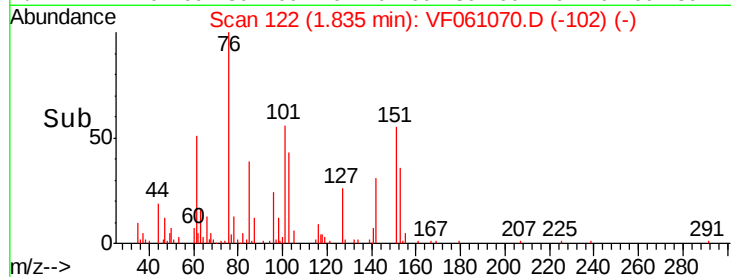
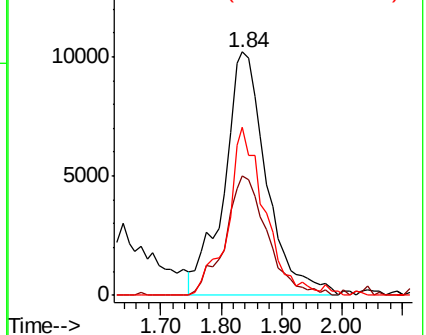
151 69.0 49.9 74.9



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: 19.522 ug/l

RT: 1.91 min Scan# 130

Delta R.T. 0.00 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

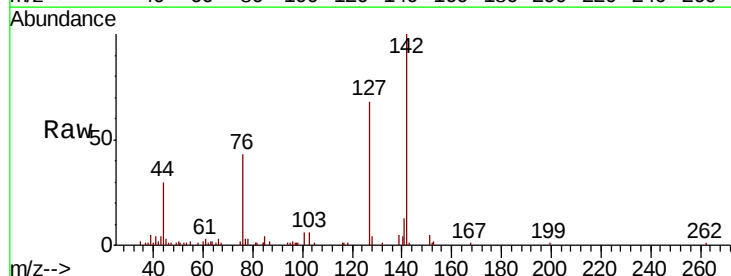
Tgt Ion:142 Resp: 62470

Ion Ratio Lower Upper

142 100

127 68.2 54.7 82.1

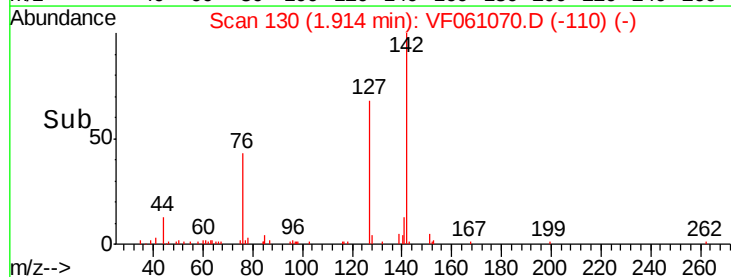
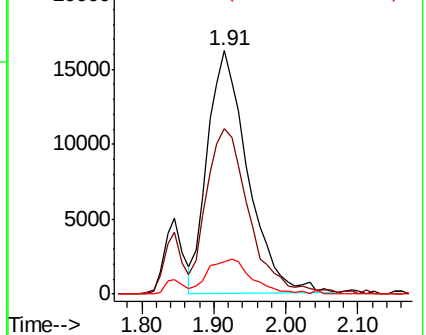
141 13.4 12.2 18.2

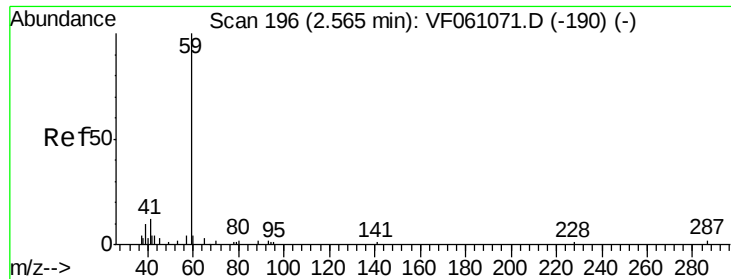


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



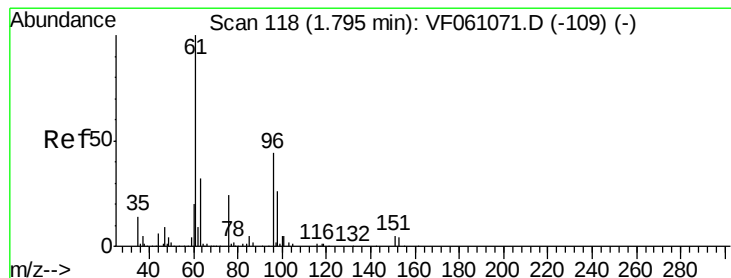
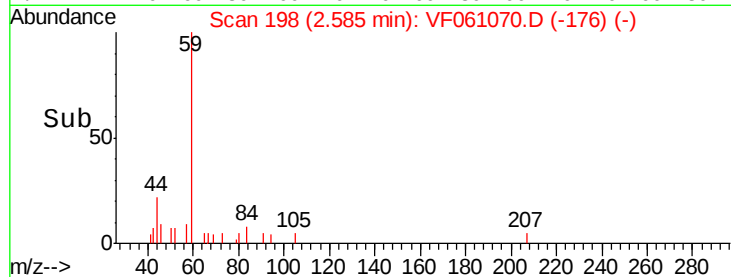
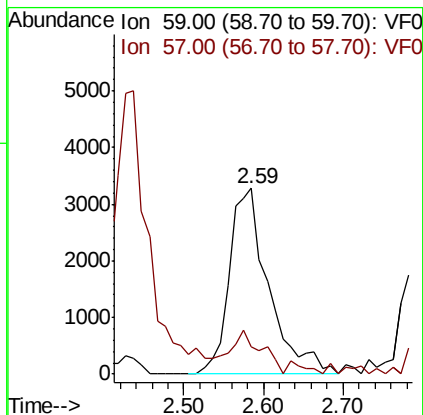
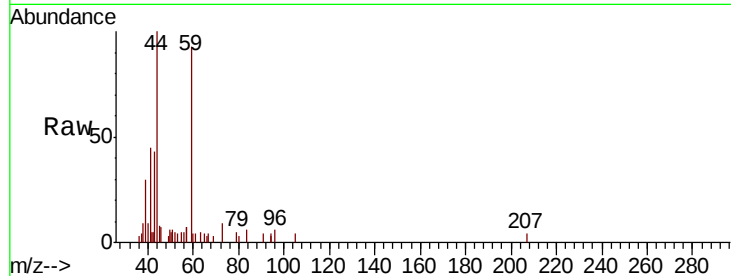


#11

Tert butyl alcohol
Concen: 111.890 ug/l
RT: 2.59 min Scan# 198
Delta R.T. 0.02 min
Lab File: VF061070.D
Acq: 18 Dec 2018 19:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

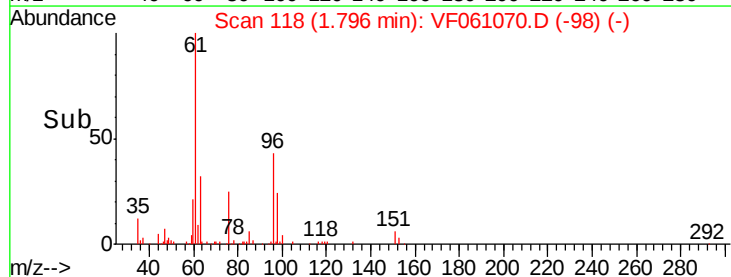
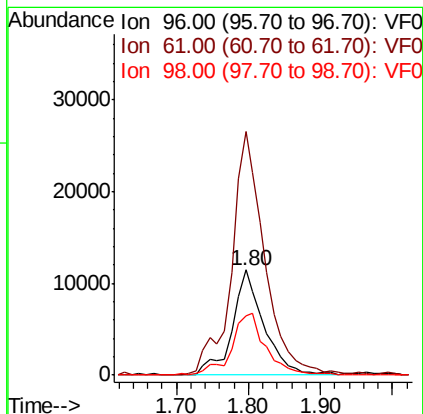
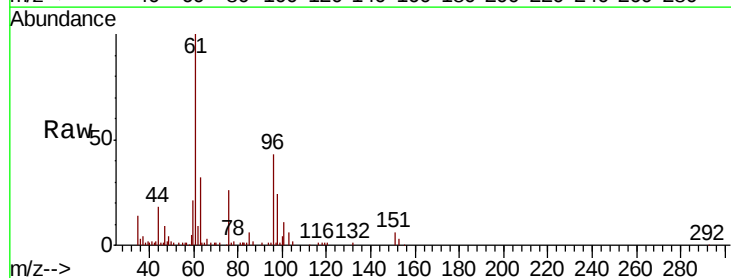
Tgt Ion: 59 Resp: 11303
Ion Ratio Lower Upper
59 100
57 14.8 11.5 17.3

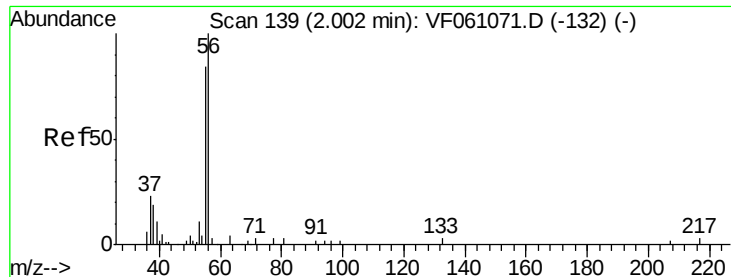


#12

1,1-Dichloroethene
Concen: 20.951 ug/l
RT: 1.80 min Scan# 118
Delta R.T. 0.00 min
Lab File: VF061070.D
Acq: 18 Dec 2018 19:22

Tgt Ion: 96 Resp: 35168
Ion Ratio Lower Upper
96 100
61 231.8 182.0 273.0
98 55.9 46.5 69.7





#13

Acrolein

Concen: 3.170 ug/l

RT: 1.93 min Scan# 132

Delta R.T. -0.07 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

Instrument :

MSVOA_F

ClientSampleId :

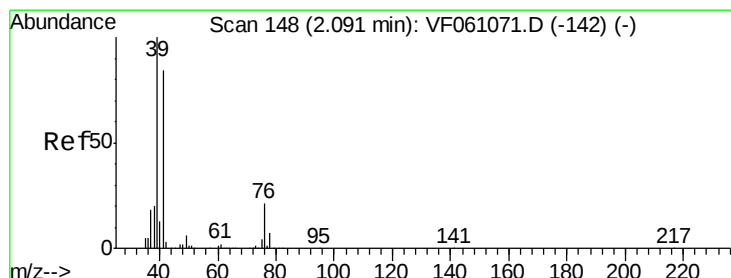
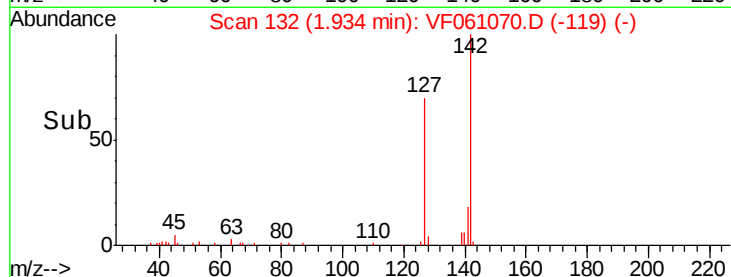
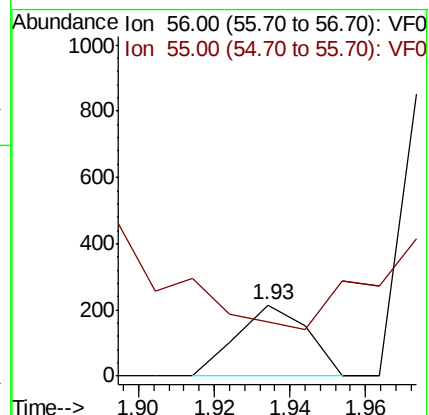
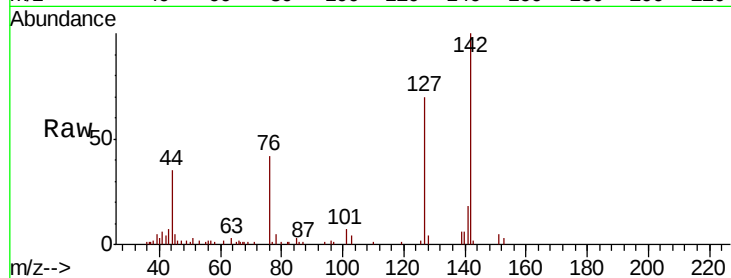
VSTDIC020

Tgt Ion: 56 Resp: 278

Ion Ratio Lower Upper

56 100

55 77.1 70.2 105.2



#14

Allyl chloride

Concen: 19.251 ug/l

RT: 2.09 min Scan# 148

Delta R.T. 0.00 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

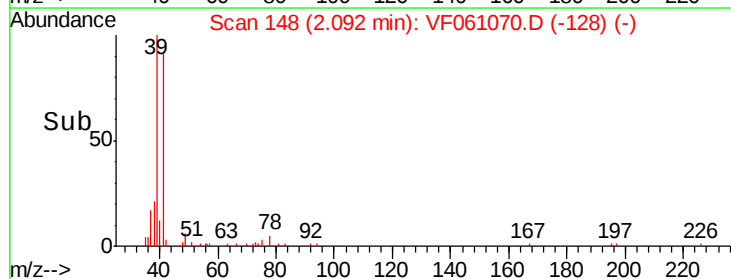
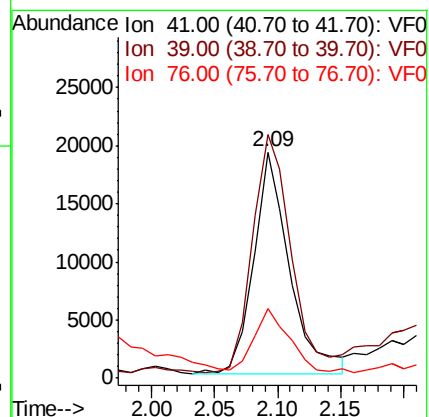
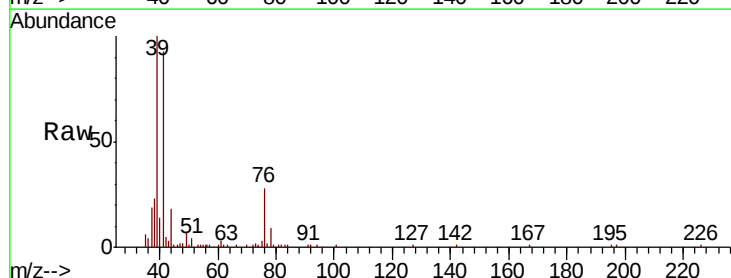
Tgt Ion: 41 Resp: 37686

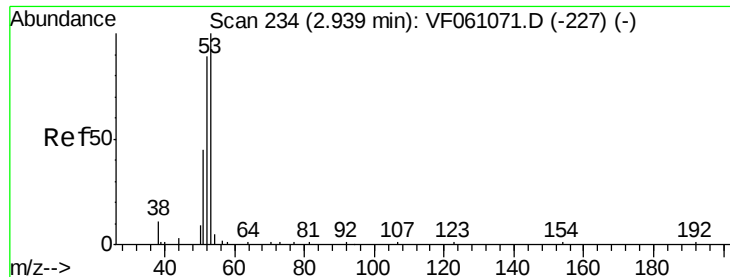
Ion Ratio Lower Upper

41 100

39 107.7 96.4 144.6

76 30.7 25.4 38.0





#15

Acrylonitrile

Concen: 113.440 ug/l

RT: 2.94 min Scan# 234

Delta R.T. 0.00 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

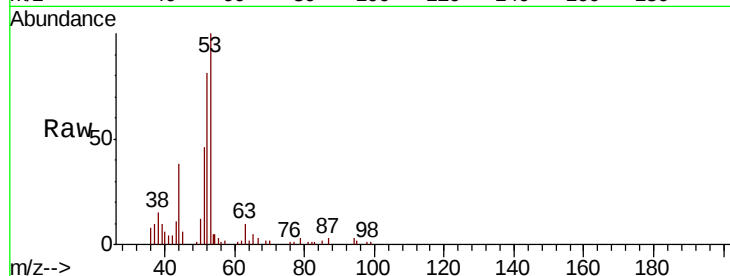
Tgt Ion: 53 Resp: 26228

Ion Ratio Lower Upper

53 100

52 80.6 71.3 106.9

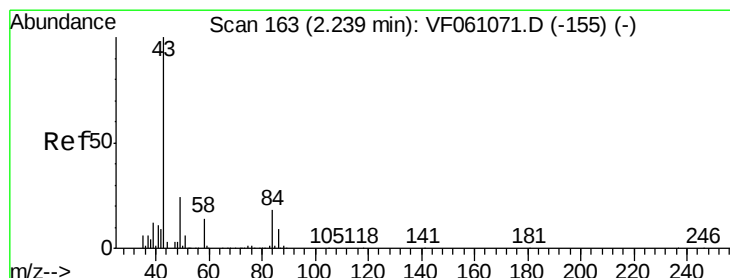
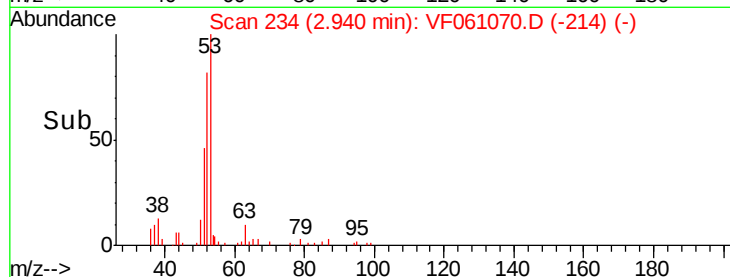
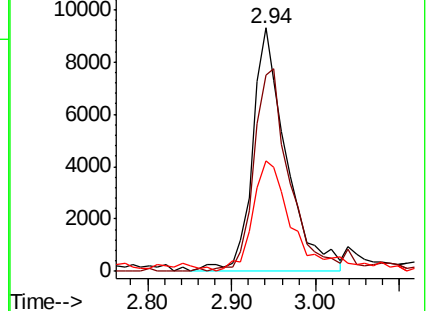
51 45.5 36.8 55.2



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 109.552 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.00 min

Lab File: VF061070.D

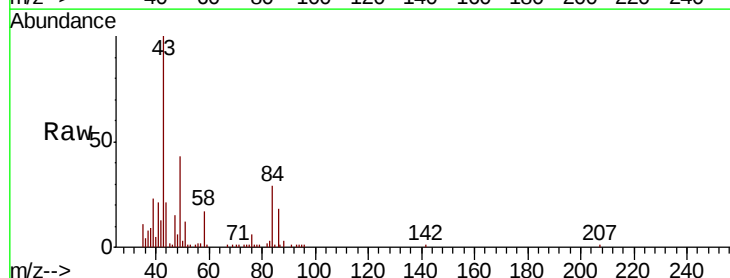
Acq: 18 Dec 2018 19:22

Tgt Ion: 43 Resp: 51194

Ion Ratio Lower Upper

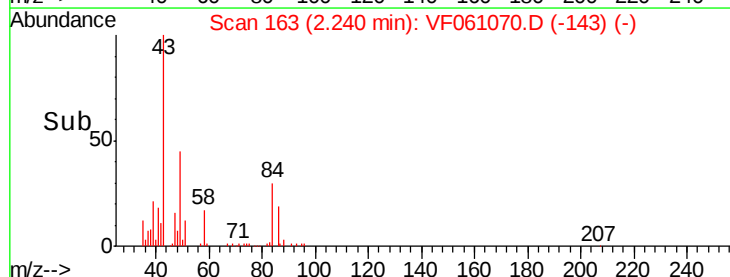
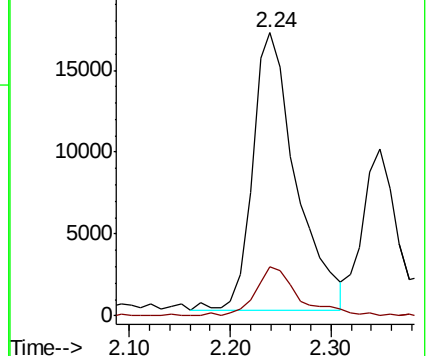
43 100

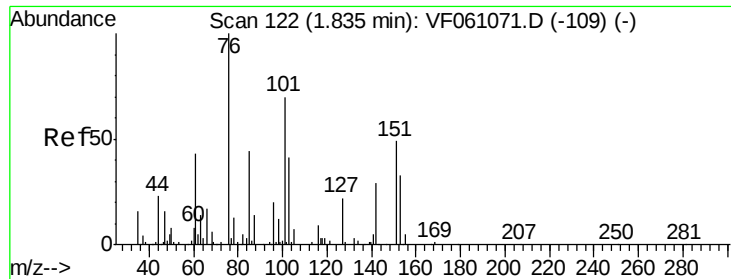
58 17.3 11.1 16.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

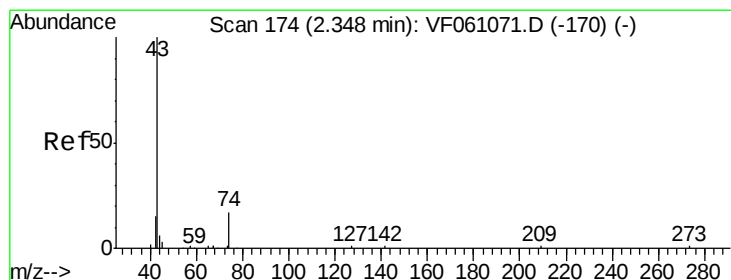
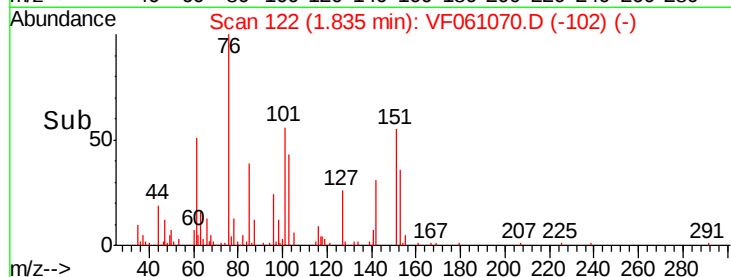
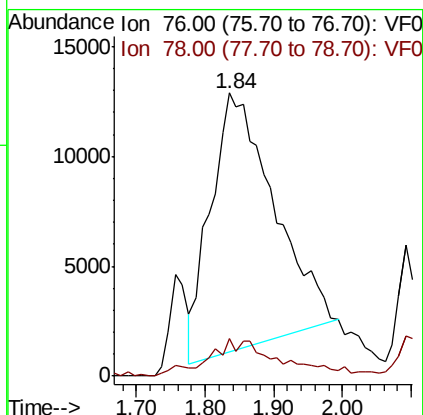
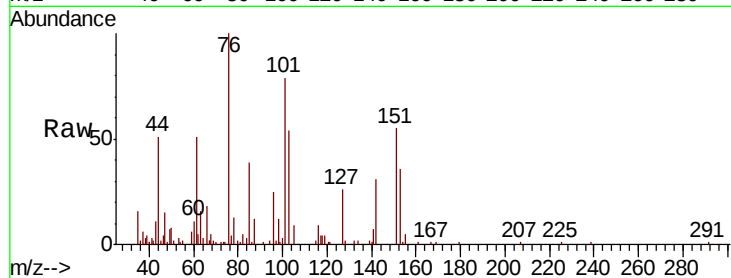




#17
Carbon Disulfide
Concen: 16.238 ug/l
RT: 1.84 min Scan# 122
Delta R.T. 0.00 min
Lab File: VF061070.D
Acq: 18 Dec 2018 19:22

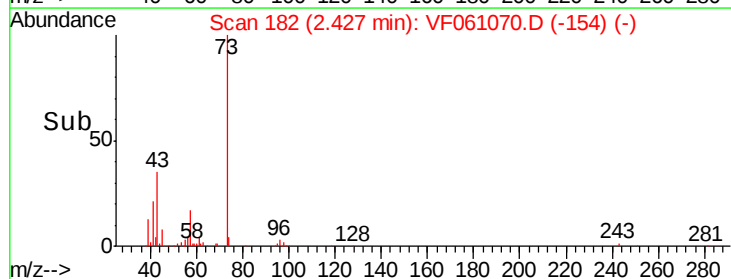
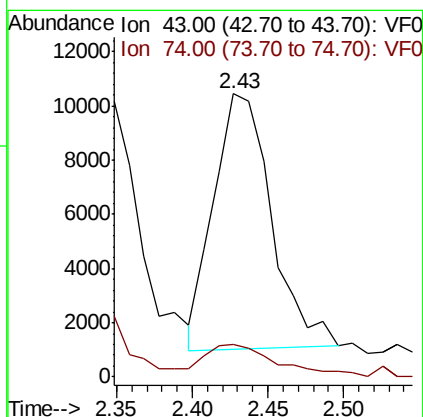
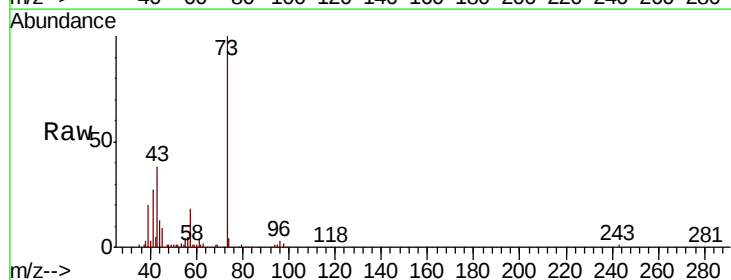
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

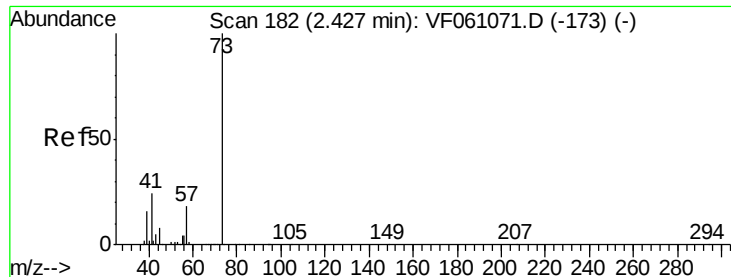
Tgt Ion: 76 Resp: 74747
Ion Ratio Lower Upper
76 100
78 13.4 10.2 15.4



#18
Methyl Acetate
Concen: 28.921 ug/l
RT: 2.43 min Scan# 182
Delta R.T. 0.08 min
Lab File: VF061070.D
Acq: 18 Dec 2018 19:22

Tgt Ion: 43 Resp: 25027
Ion Ratio Lower Upper
43 100
74 11.6 11.0 16.6

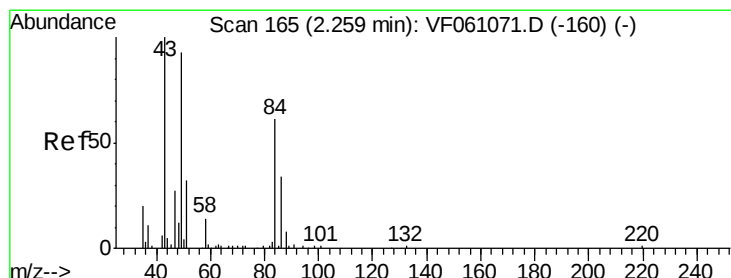
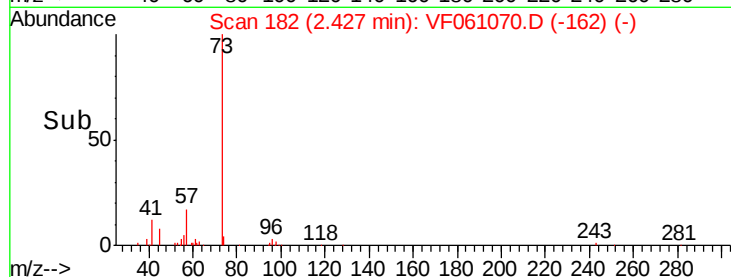
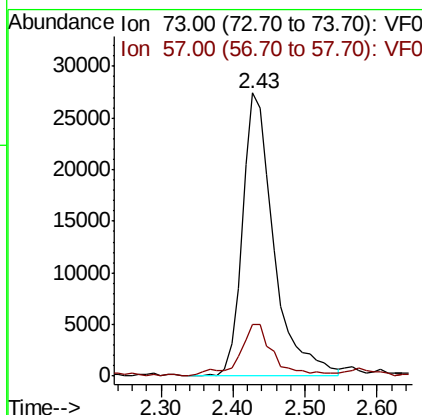
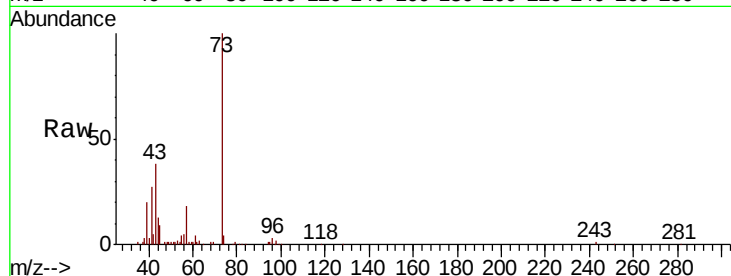




#19
Methyl tert-butyl Ether
Concen: 22.231 ug/l
RT: 2.43 min Scan# 182
Delta R.T. 0.00 min
Lab File: VF061070.D
Acq: 18 Dec 2018 19:22

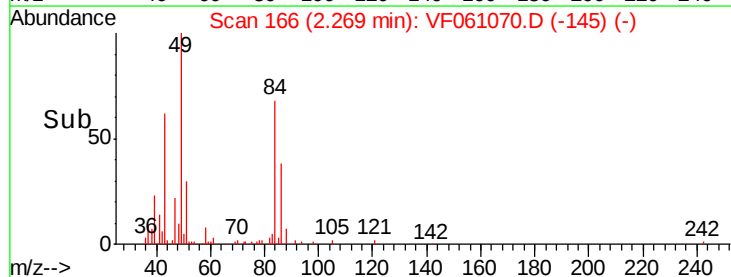
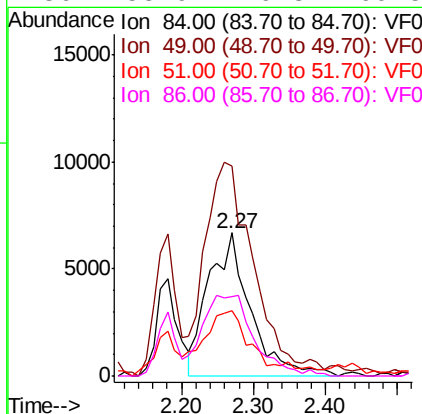
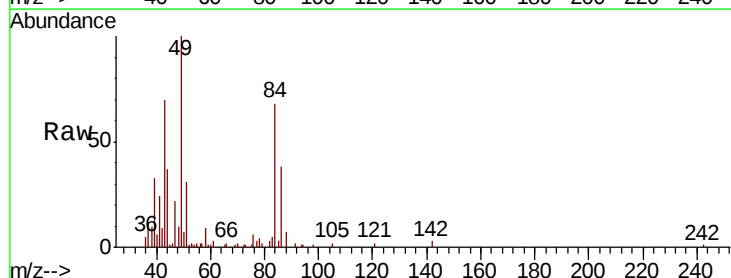
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

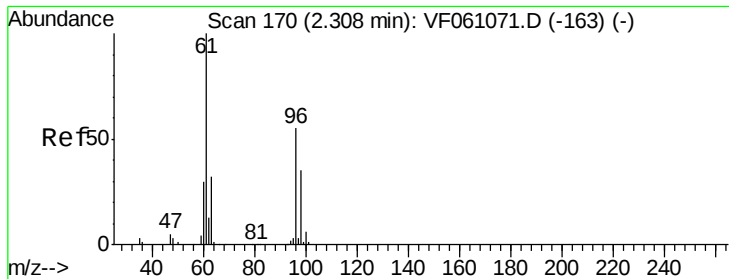
Tgt Ion: 73 Resp: 83327
Ion Ratio Lower Upper
73 100
57 18.1 14.5 21.7



#20
Methylene Chloride
Concen: 16.866 ug/l
RT: 2.27 min Scan# 166
Delta R.T. 0.01 min
Lab File: VF061070.D
Acq: 18 Dec 2018 19:22

Tgt Ion: 84 Resp: 26996
Ion Ratio Lower Upper
84 100
49 146.9 129.4 194.2
51 45.3 44.0 66.0
86 55.9 46.3 69.5





#21

trans-1,2-Dichloroethene

Concen: 16.032 ug/l

RT: 2.31 min Scan# 170

Delta R.T. 0.00 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

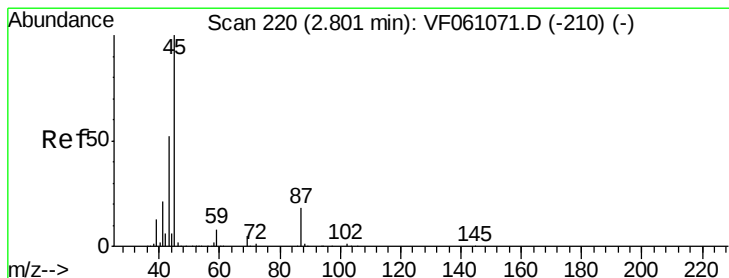
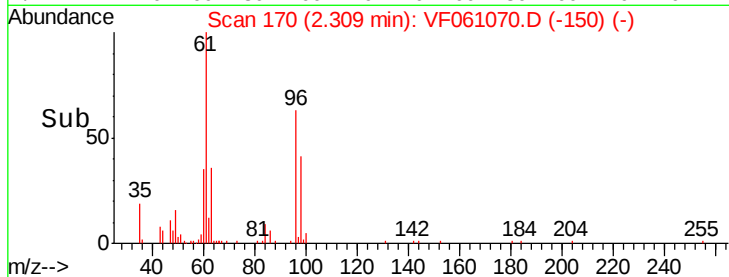
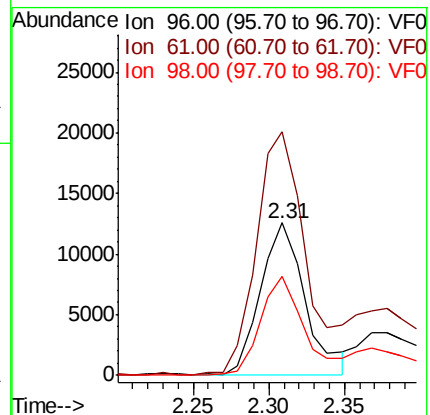
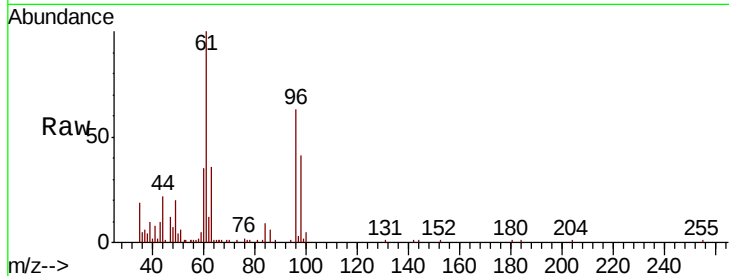
Tgt Ion: 96 Resp: 25952

Ion Ratio Lower Upper

96 100

61 159.9 146.0 219.0

98 65.2 51.6 77.4



#22

Diisopropyl ether

Concen: 22.644 ug/l

RT: 2.80 min Scan# 220

Delta R.T. 0.00 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

Tgt Ion: 45 Resp: 128390

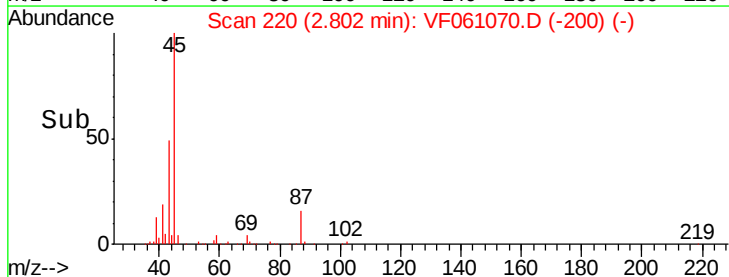
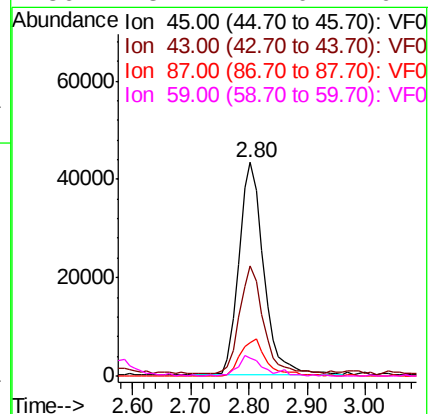
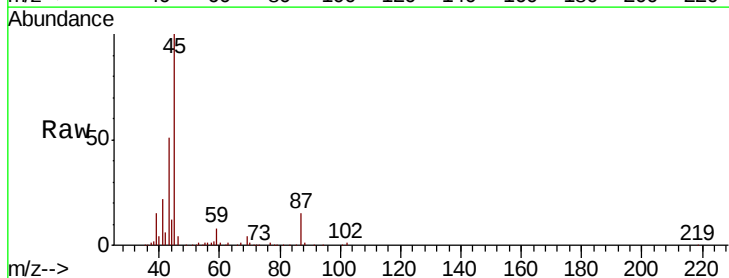
Ion Ratio Lower Upper

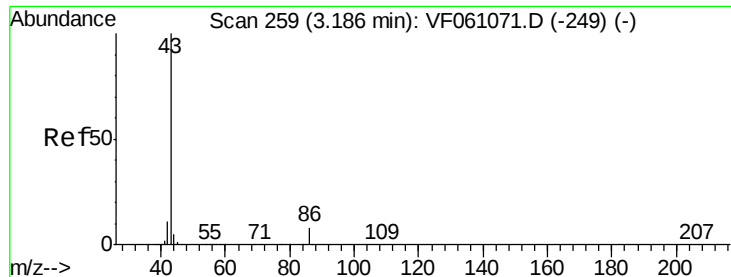
45 100

43 51.3 42.2 63.2

87 15.5 14.6 22.0

59 8.2 7.0 10.4

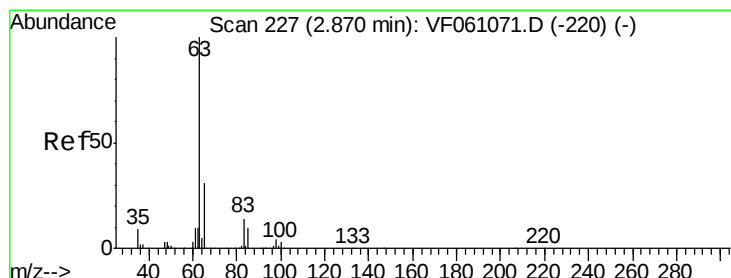
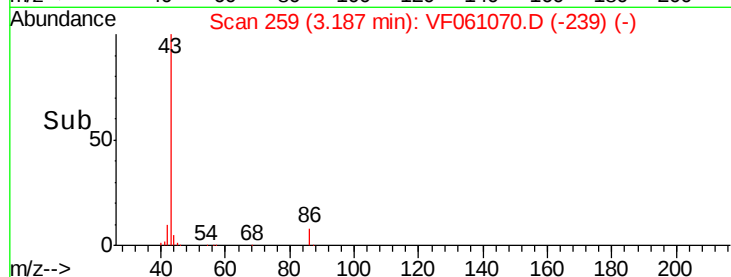
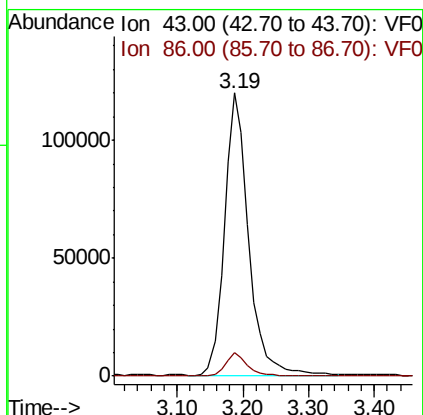
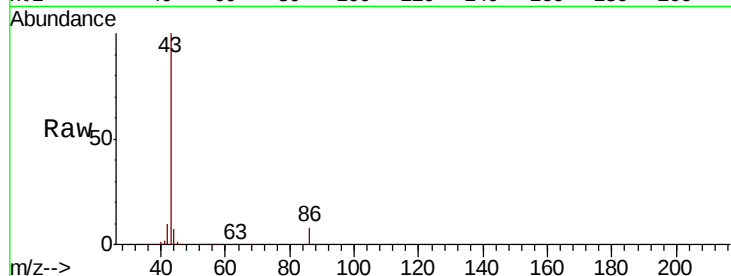




#23
 Vinyl Acetate
 Concen: 117.178 ug/l
 RT: 3.19 min Scan# 259
 Delta R.T. 0.00 min
 Lab File: VF061070.D
 Acq: 18 Dec 2018 19:22

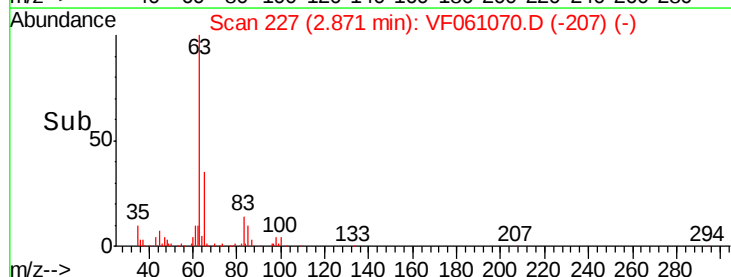
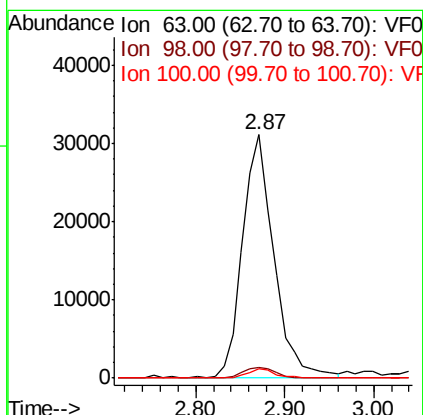
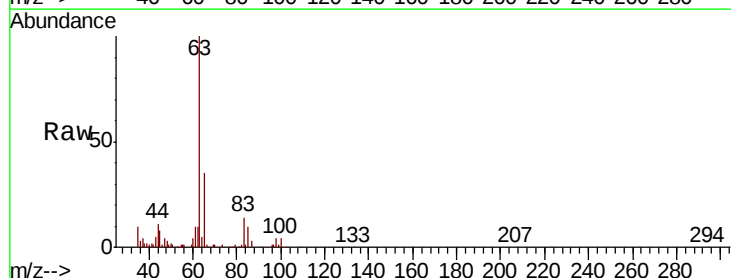
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

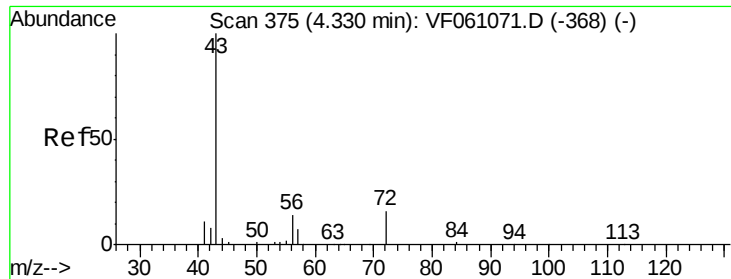
Tgt Ion: 43 Resp: 304931
 Ion Ratio Lower Upper
 43 100
 86 8.3 6.3 9.5



#24
 1,1-Dichloroethane
 Concen: 22.686 ug/l
 RT: 2.87 min Scan# 227
 Delta R.T. 0.00 min
 Lab File: VF061070.D
 Acq: 18 Dec 2018 19:22

Tgt Ion: 63 Resp: 76419
 Ion Ratio Lower Upper
 63 100
 98 4.2 2.1 6.5
 100 4.0 1.7 5.1





#25

2-Butanone

Concen: 105.257 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.01 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

Instrument :

MSVOA_F

ClientSampleId :

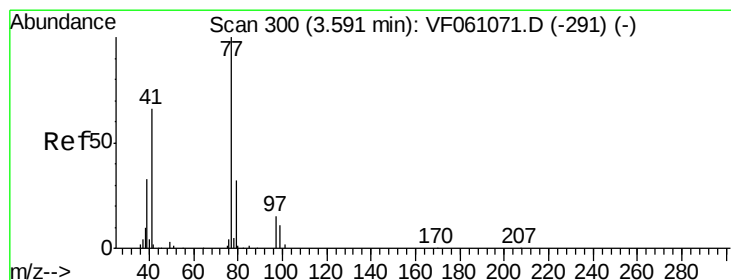
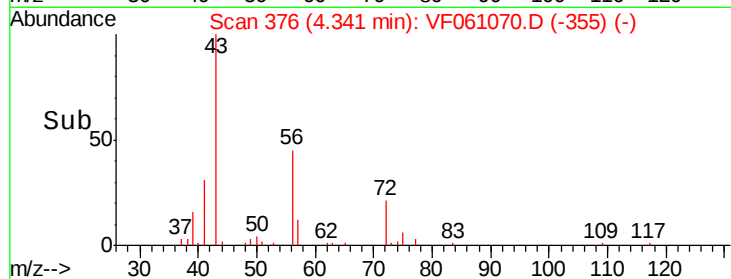
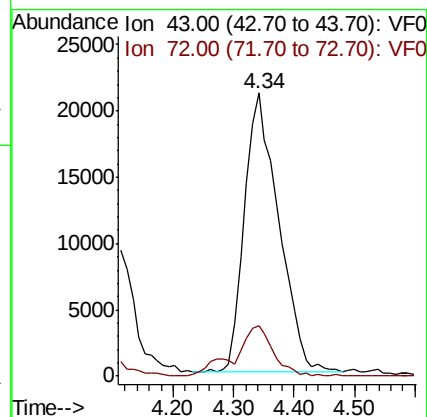
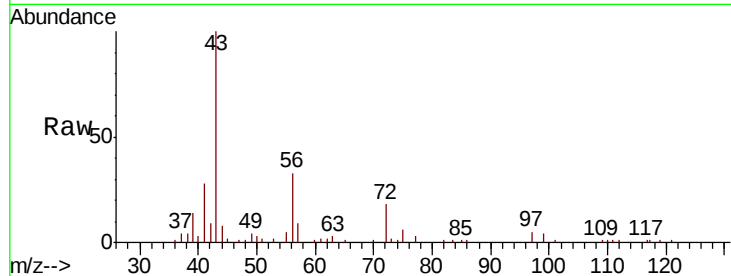
VSTDIC020

Tgt Ion: 43 Resp: 83204

Ion Ratio Lower Upper

43 100

72 17.9 15.6 23.4



#26

2,2-Dichloropropane

Concen: 20.157 ug/l

RT: 3.60 min Scan# 301

Delta R.T. 0.01 min

Lab File: VF061070.D

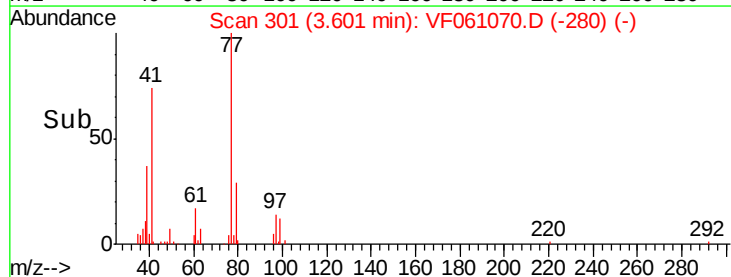
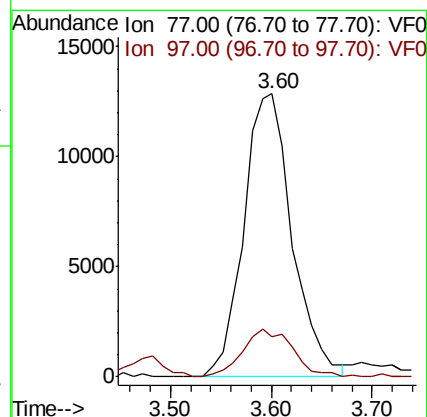
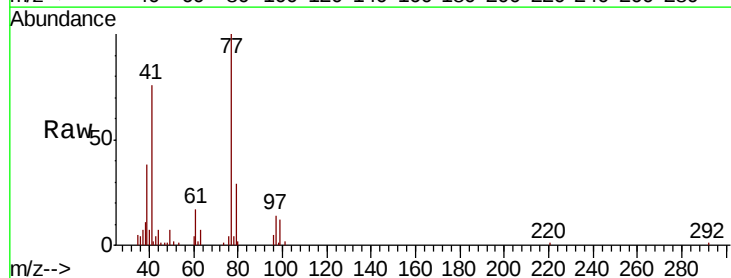
Acq: 18 Dec 2018 19:22

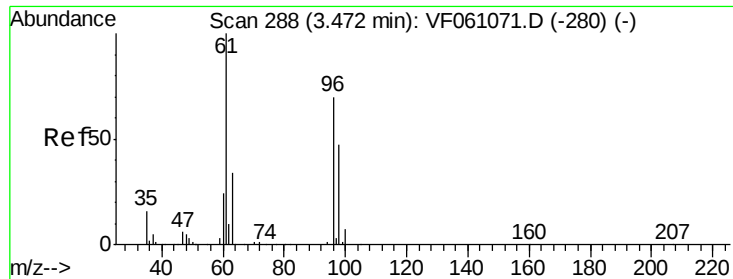
Tgt Ion: 77 Resp: 42947

Ion Ratio Lower Upper

77 100

97 14.0 8.2 24.4



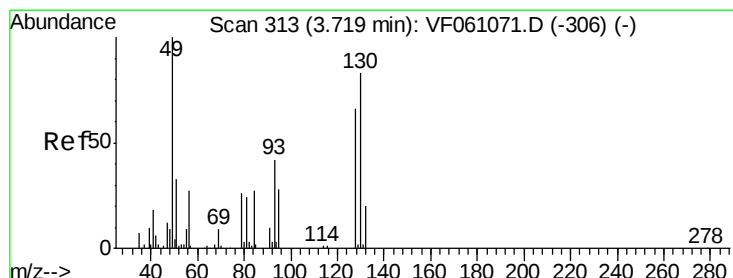
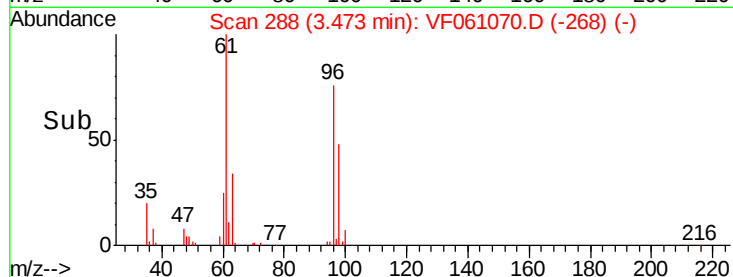
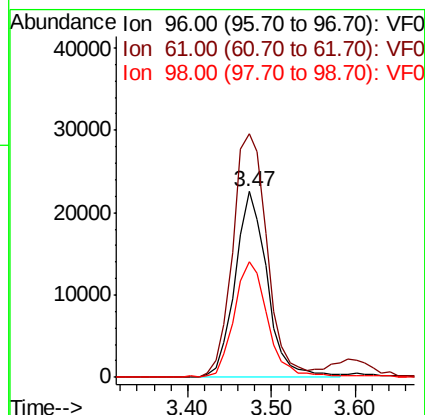
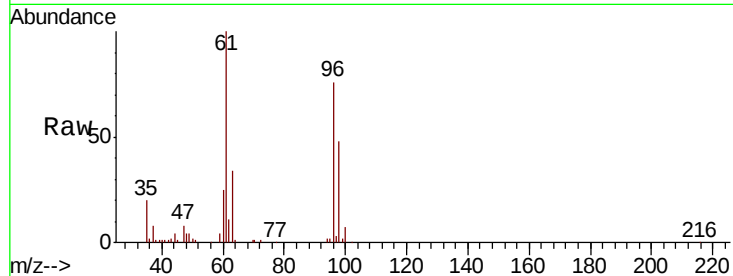


#27

cis-1,2-Dichloroethene
Concen: 22.944 ug/l
RT: 3.47 min Scan# 288
Delta R.T. 0.00 min
Lab File: VF061070.D
Acq: 18 Dec 2018 19:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

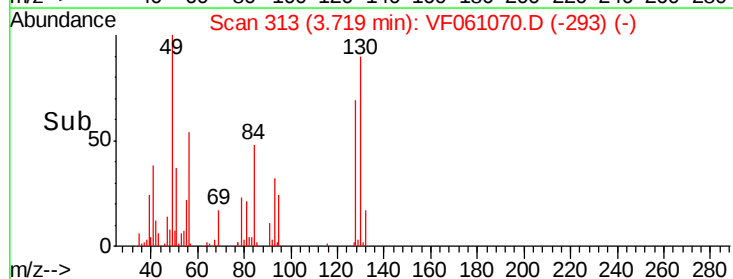
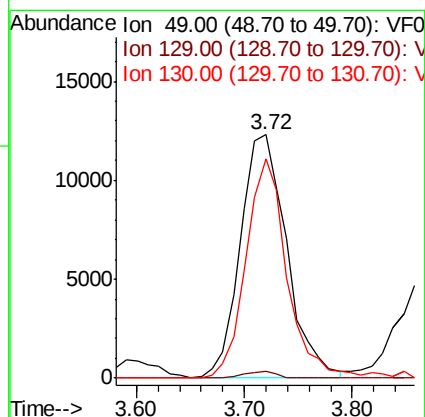
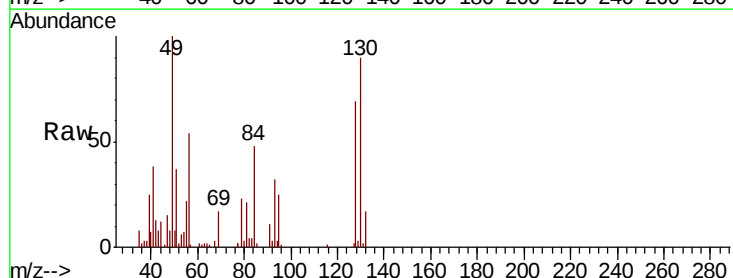
Tgt Ion: 96 Resp: 60196
Ion Ratio Lower Upper
96 100
61 131.3 0.0 287.8
98 62.4 0.0 134.2

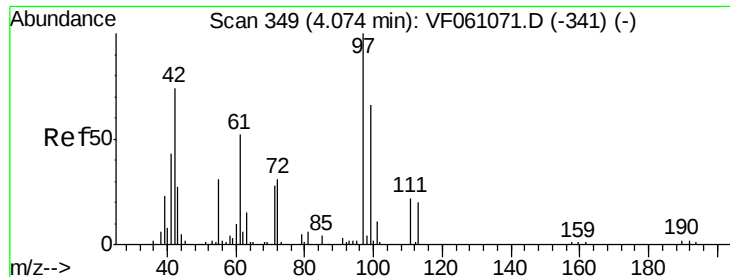


#28

Bromochloromethane
Concen: 22.308 ug/l
RT: 3.72 min Scan# 313
Delta R.T. 0.00 min
Lab File: VF061070.D
Acq: 18 Dec 2018 19:22

Tgt Ion: 49 Resp: 36888
Ion Ratio Lower Upper
49 100
129 2.8 0.0 3.6
130 90.1 65.8 98.6





#29

Tetrahydrofuran

Concen: 100.632 ug/l

RT: 4.07 min Scan# 349

Delta R.T. 0.00 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

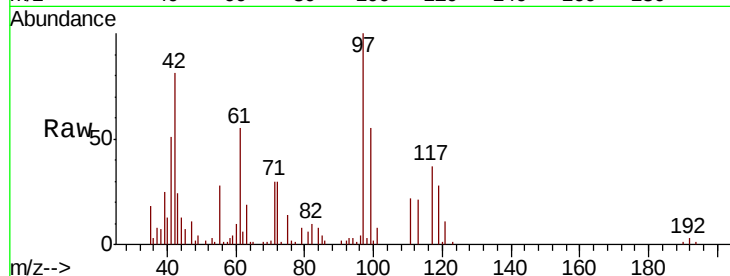
Tgt Ion: 42 Resp: 33548

Ion Ratio Lower Upper

42 100

72 40.1 31.8 47.8

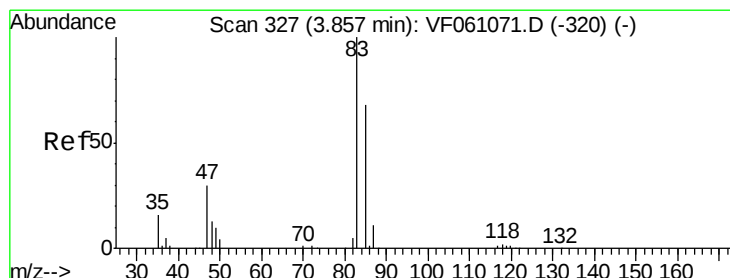
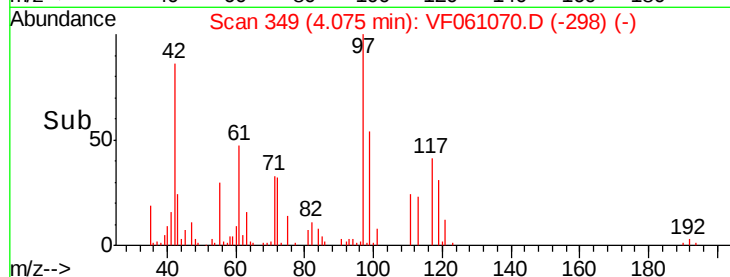
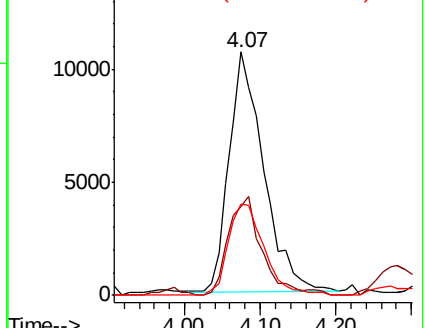
71 39.5 29.7 44.5



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 21.287 ug/l

RT: 3.86 min Scan# 327

Delta R.T. 0.00 min

Lab File: VF061070.D

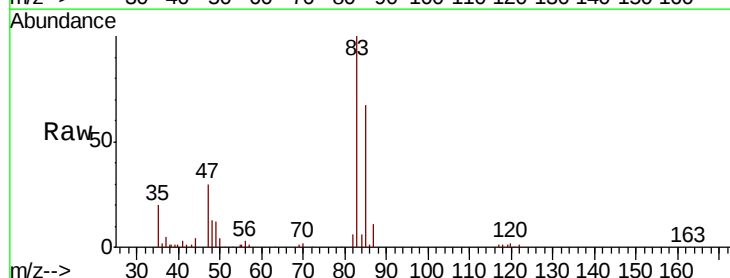
Acq: 18 Dec 2018 19:22

Tgt Ion: 83 Resp: 110710

Ion Ratio Lower Upper

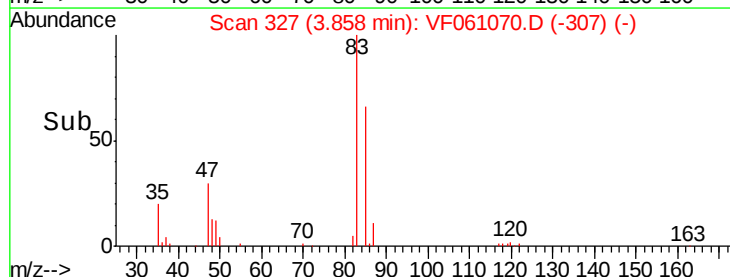
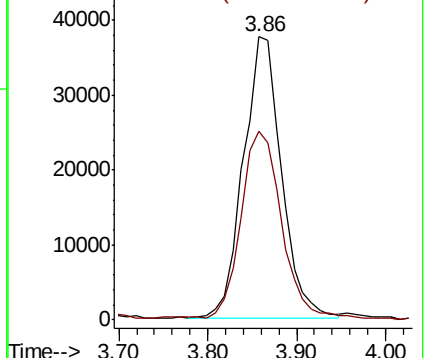
83 100

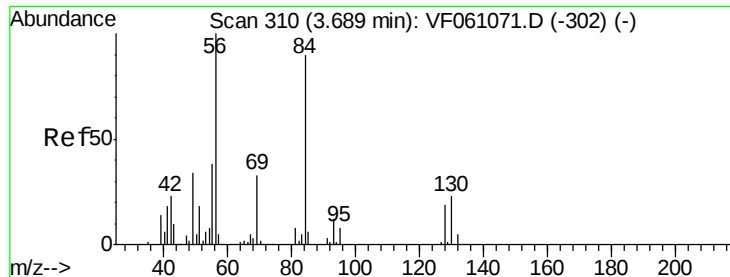
85 66.6 54.5 81.7



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

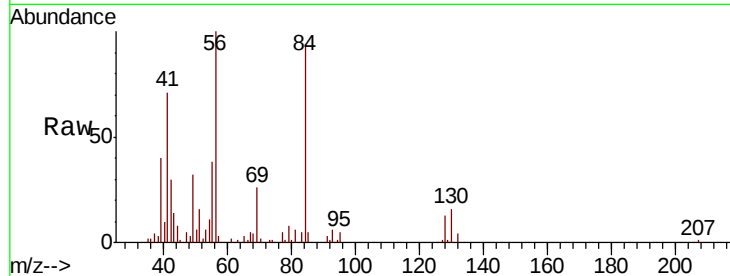




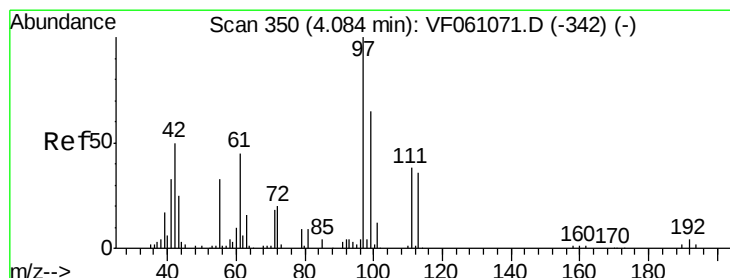
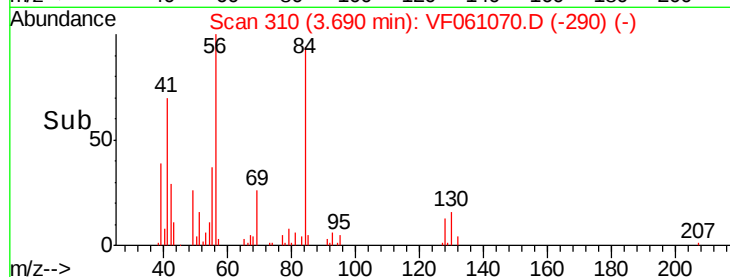
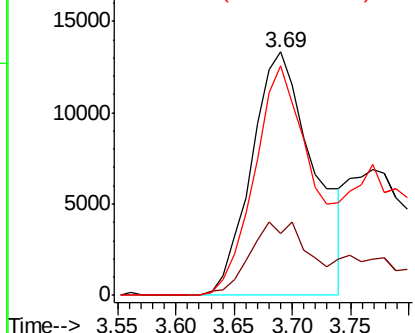
#31
Cyclohexane
Concen: 13.965 ug/l
RT: 3.69 min Scan# 310
Delta R.T. 0.00 min
Lab File: VF061070.D
Acq: 18 Dec 2018 19:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tgt Ion: 56 Resp: 49340
Ion Ratio Lower Upper
56 100
69 25.6 26.0 39.0#
84 94.1 71.4 107.2

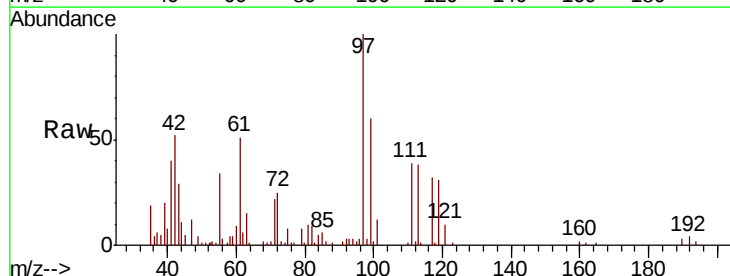


Abundance Ion 56.00 (55.70 to 56.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 84.00 (83.70 to 84.70): VF0

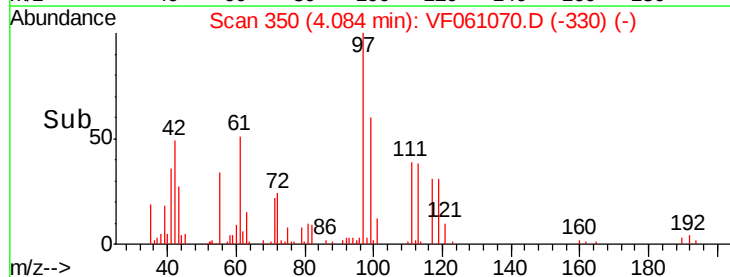
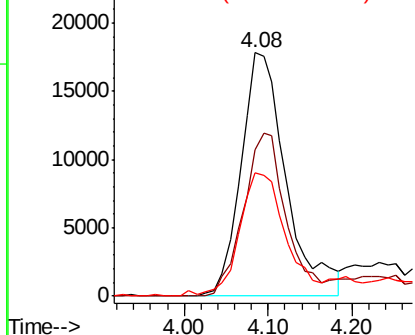


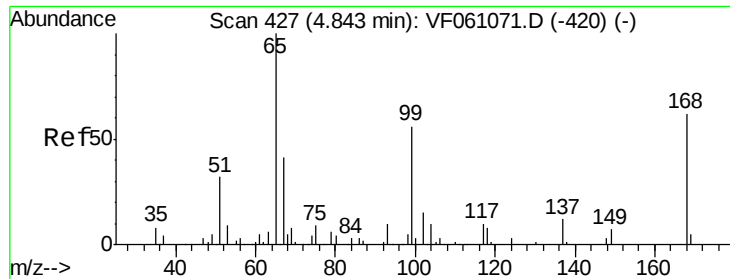
#32
1,1,1-Trichloroethane
Concen: 19.473 ug/l
RT: 4.08 min Scan# 350
Delta R.T. 0.00 min
Lab File: VF061070.D
Acq: 18 Dec 2018 19:22

Tgt Ion: 97 Resp: 67039
Ion Ratio Lower Upper
97 100
99 60.0 51.6 77.4
61 50.6 36.2 54.2



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: 20.947 ug/l

RT: 4.84 min Scan# 427

Delta R.T. 0.00 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

Instrument :

MSVOA_F

ClientSampleId :

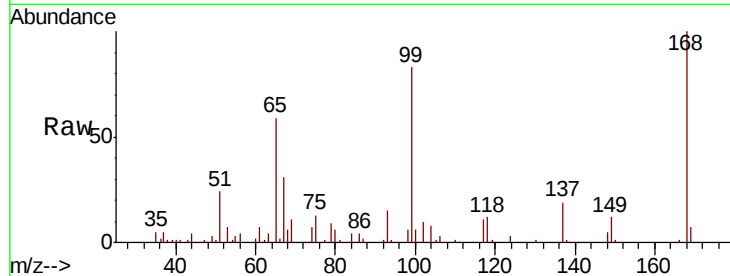
VSTDIC020

Tgt Ion: 65 Resp: 51034

Ion Ratio Lower Upper

65 100

67 53.4 0.0 94.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

20000

15000

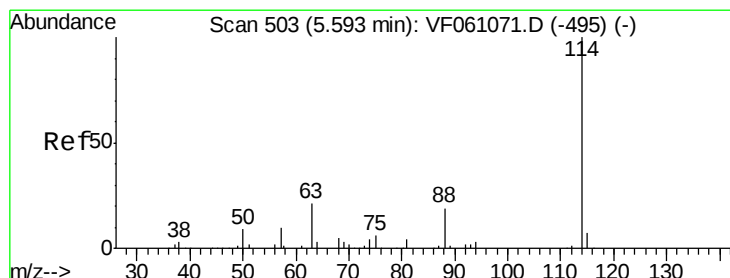
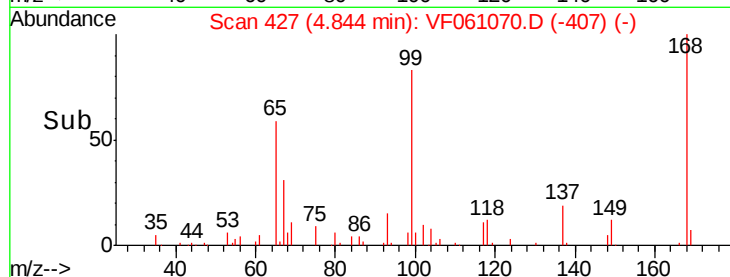
10000

5000

0

4.70 4.80 4.90

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. 0.01 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

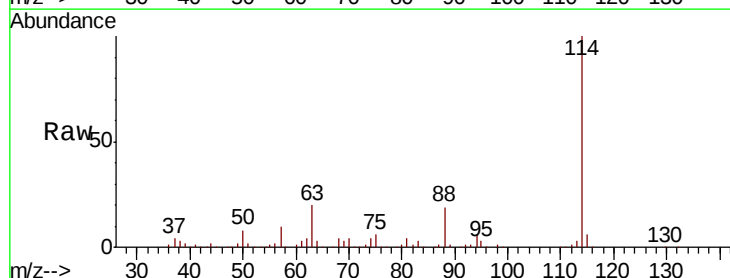
Tgt Ion: 114 Resp: 349252

Ion Ratio Lower Upper

114 100

63 20.1 0.0 41.6

88 18.6 0.0 38.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

150000

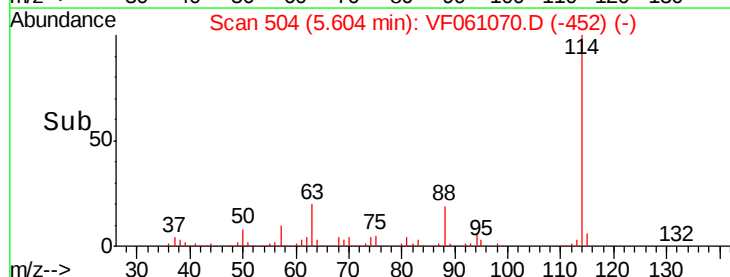
100000

50000

0

5.50 5.60 5.70 5.80

Time-->





#35

Dibromofluoromethane

Concen: 20.978 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.00 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

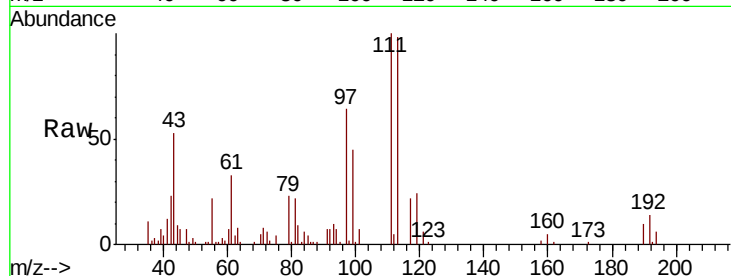
Tgt Ion: 113 Resp: 57052

Ion Ratio Lower Upper

113 100

111 101.8 85.2 127.8

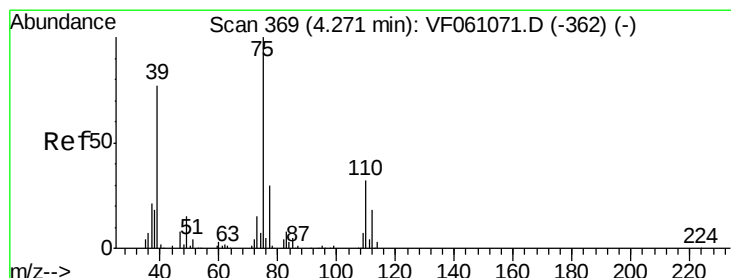
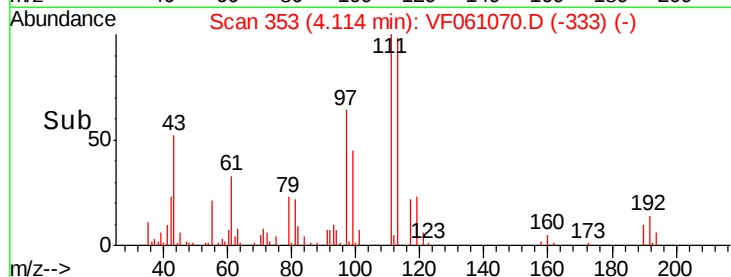
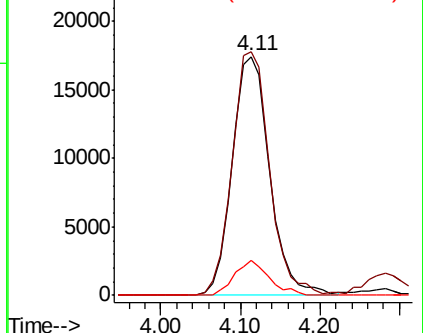
192 15.4 12.8 19.2



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 21.056 ug/l

RT: 4.28 min Scan# 370

Delta R.T. 0.01 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

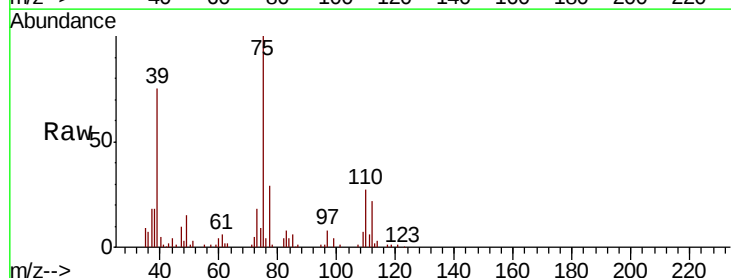
Tgt Ion: 75 Resp: 82346

Ion Ratio Lower Upper

75 100

110 26.5 16.1 48.2

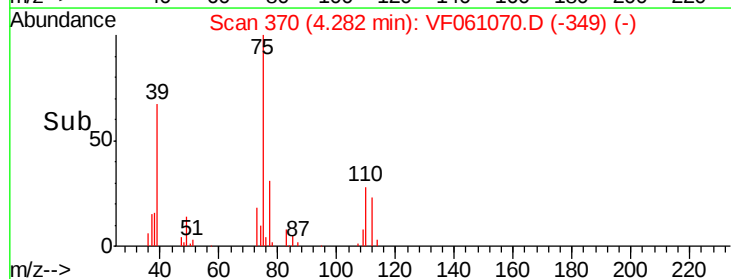
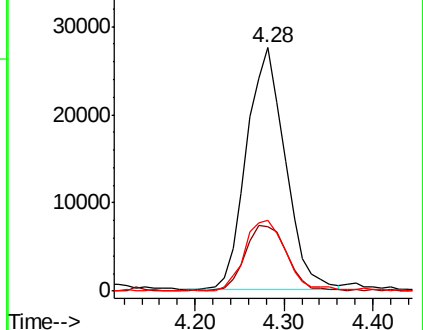
77 28.9 24.5 36.7

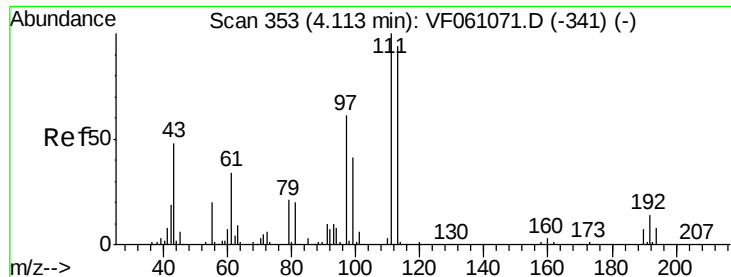


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0

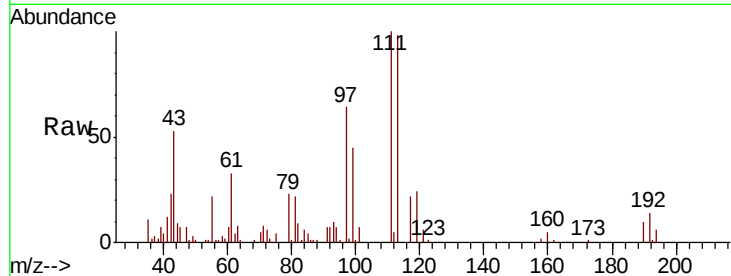




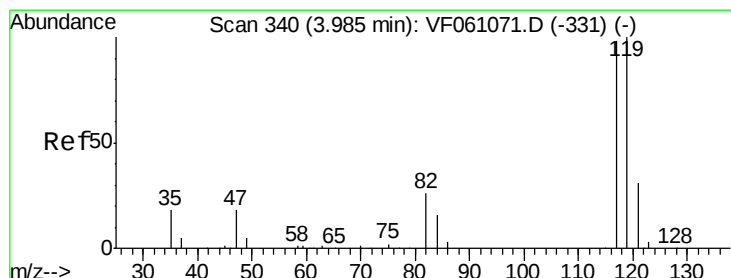
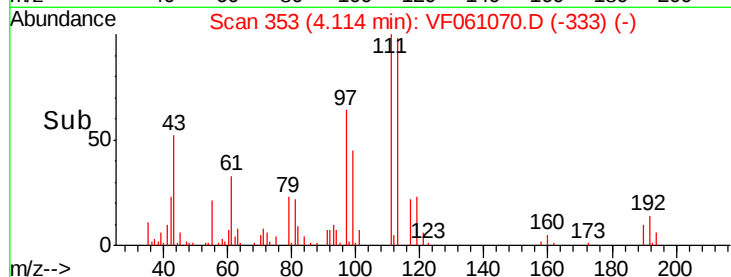
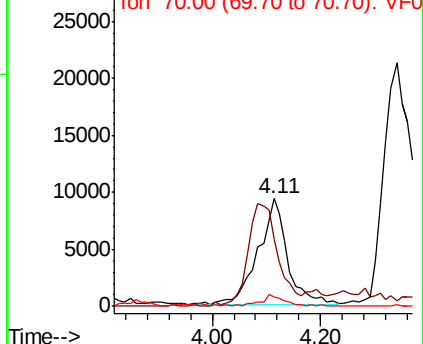
#37
Ethyl Acetate
Concen: 21.951 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.00 min
Lab File: VF061070.D
Acq: 18 Dec 2018 19:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tgt Ion: 43 Resp: 34678
Ion Ratio Lower Upper
43 100
61 62.3 56.6 84.8
70 8.9 6.3 9.5

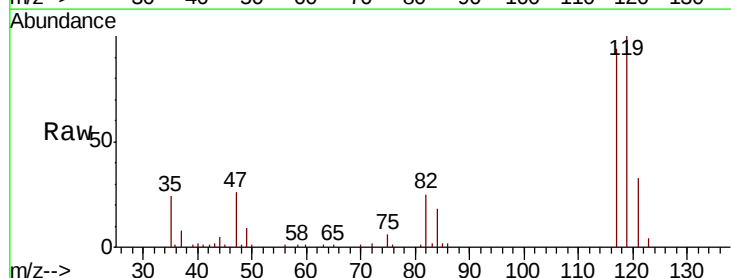


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0

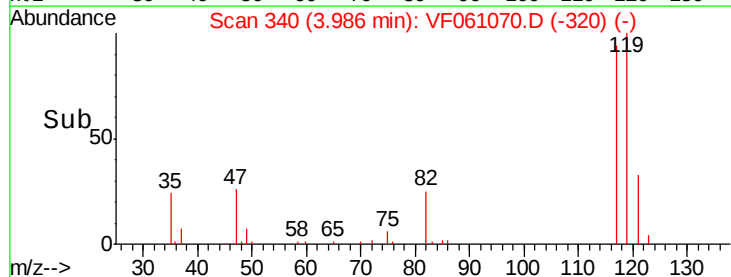
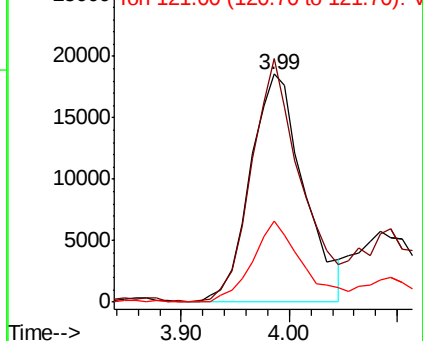


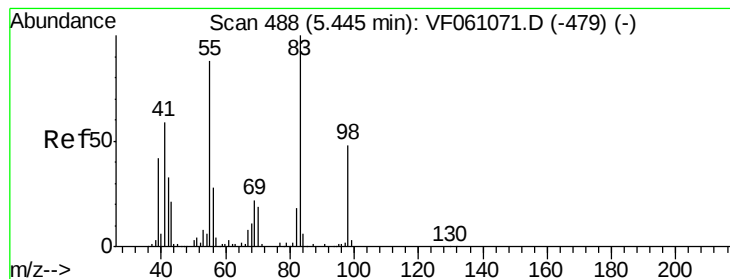
#38
Carbon Tetrachloride
Concen: 19.359 ug/l
RT: 3.99 min Scan# 340
Delta R.T. 0.00 min
Lab File: VF061070.D
Acq: 18 Dec 2018 19:22

Tgt Ion: 117 Resp: 64106
Ion Ratio Lower Upper
117 100
119 106.8 82.1 123.1
121 35.7 25.5 38.3



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

Methylcyclohexane

Concen: 20.305 ug/l

RT: 5.45 min Scan# 488

Delta R.T. 0.00 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

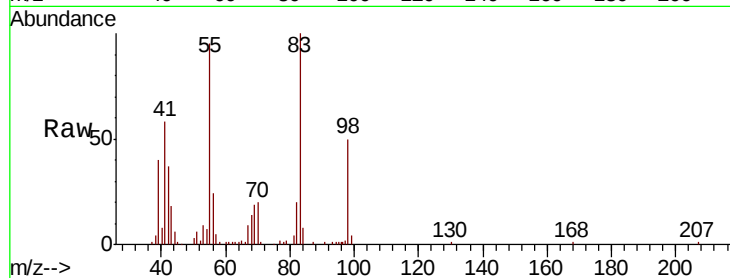
Tgt Ion: 83 Resp: 82547

Ion Ratio Lower Upper

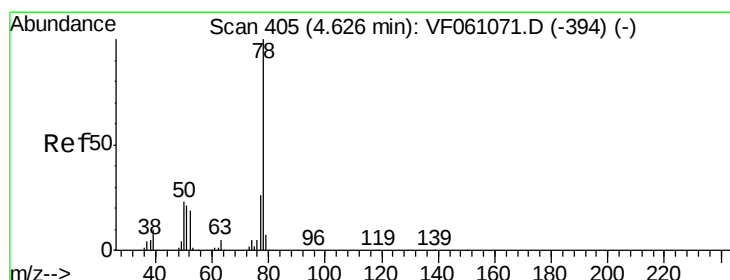
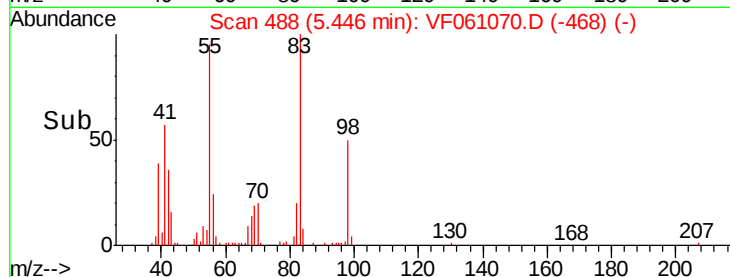
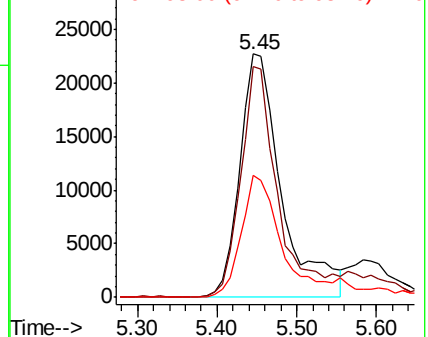
83 100

55 95.0 70.6 105.8

98 50.3 38.5 57.7



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



#40

Benzene

Concen: 21.532 ug/l

RT: 4.63 min Scan# 405

Delta R.T. 0.00 min

Lab File: VF061070.D

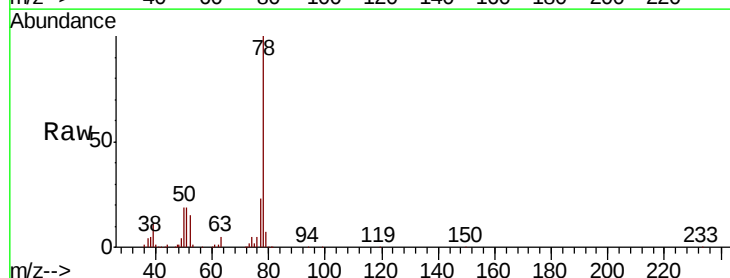
Acq: 18 Dec 2018 19:22

Tgt Ion: 78 Resp: 185242

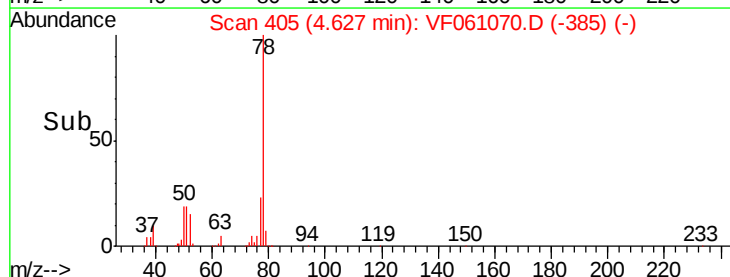
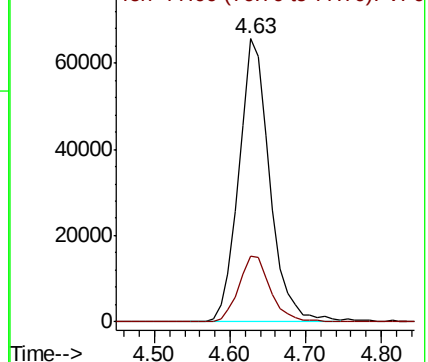
Ion Ratio Lower Upper

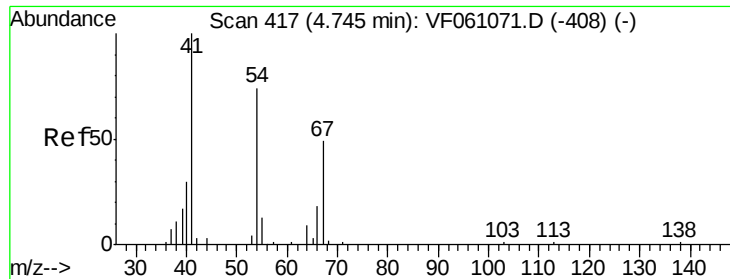
78 100

77 23.3 20.7 31.1



Abundance Ion 78.10 (77.80 to 78.80): VF0
Ion 77.00 (76.70 to 77.70): VF0





#41

Methacrylonitrile

Concen: 19.269 ug/l

RT: 4.75 min Scan# 417

Delta R.T. 0.00 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tgt Ion: 41 Resp: 18021

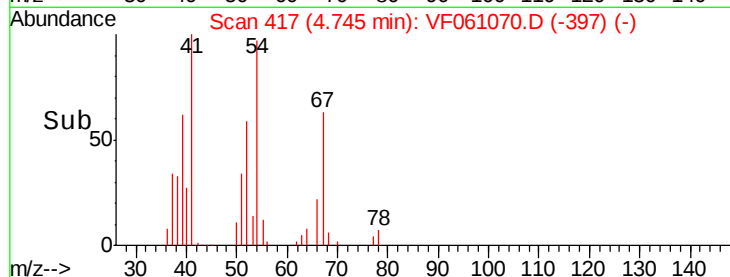
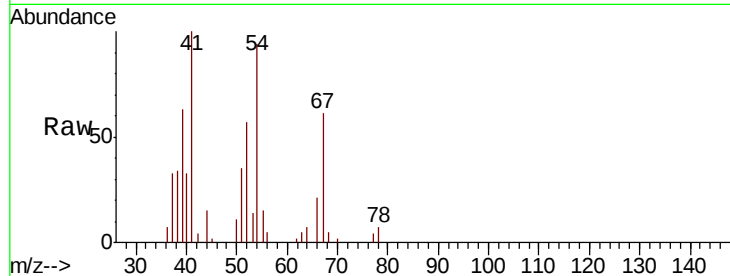
Ion Ratio Lower Upper

41 100

39 62.5 45.7 68.5

67 61.1 38.9 58.3#

52 57.5 35.2 52.8#

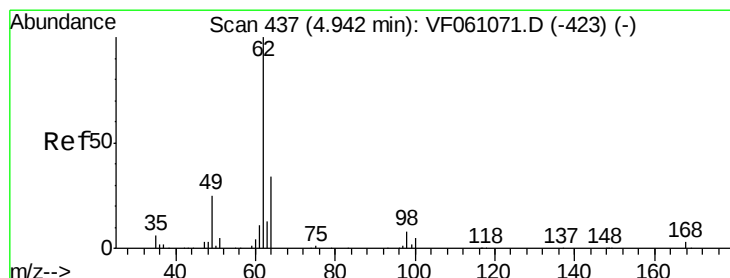
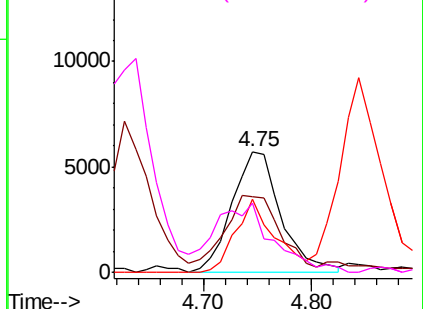


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 22.113 ug/l

RT: 4.94 min Scan# 437

Delta R.T. 0.00 min

Lab File: VF061070.D

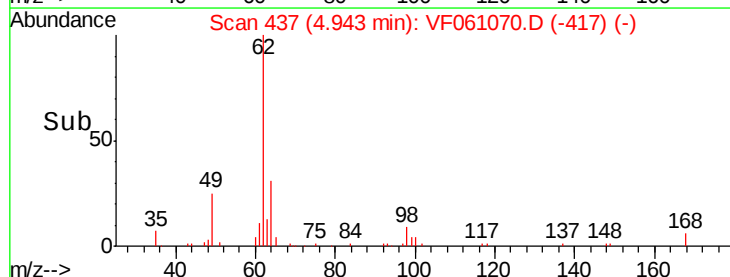
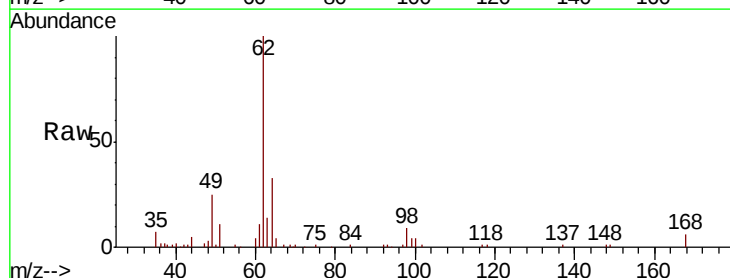
Acq: 18 Dec 2018 19:22

Tgt Ion: 62 Resp: 69359

Ion Ratio Lower Upper

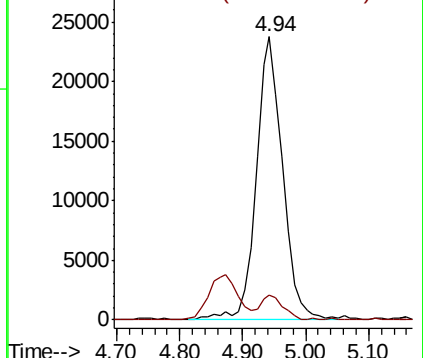
62 100

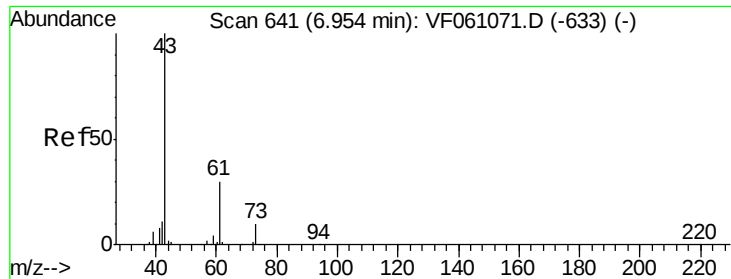
98 8.7 0.0 16.6



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

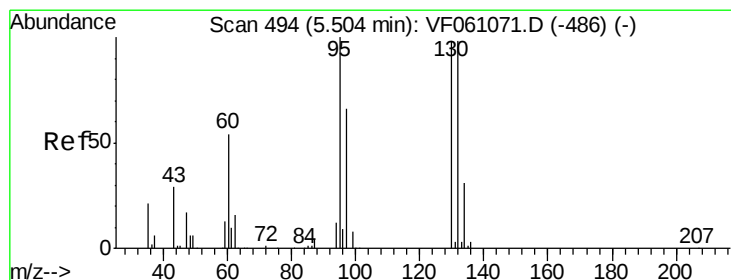
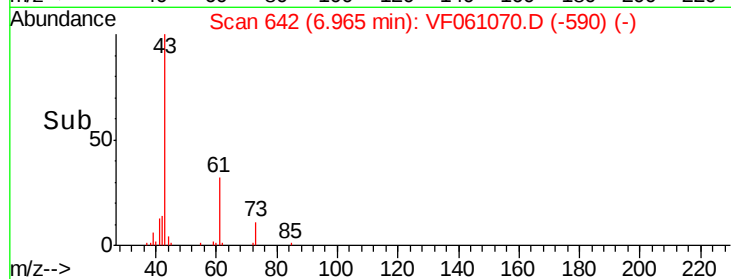
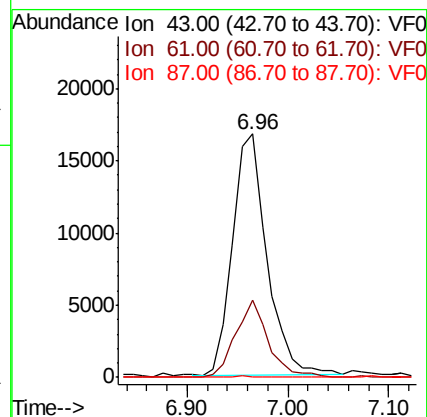
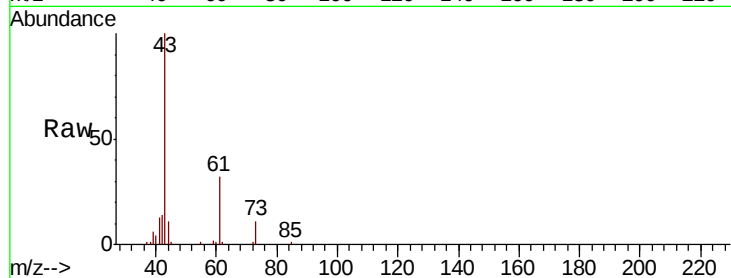




#43
Isopropyl Acetate
Concen: 18.836 ug/l
RT: 6.96 min Scan# 642
Delta R.T. 0.01 min
Lab File: VF061070.D
Acq: 18 Dec 2018 19:22

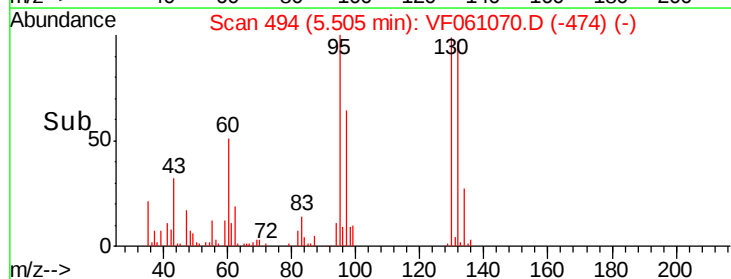
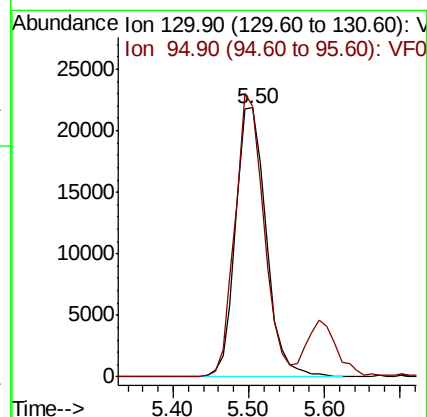
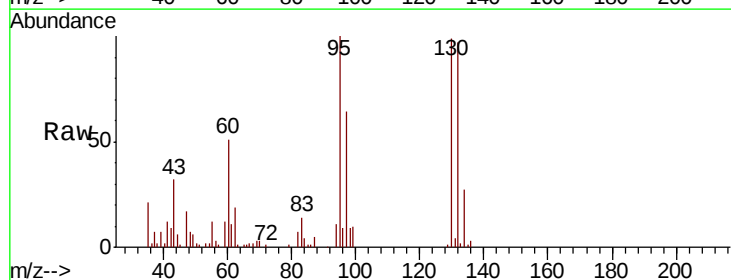
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tgt Ion: 43 Resp: 39915
Ion Ratio Lower Upper
43 100
61 31.7 23.8 35.8
87 0.0 0.0 0.0



#44
Trichloroethene
Concen: 21.835 ug/l
RT: 5.50 min Scan# 494
Delta R.T. 0.00 min
Lab File: VF061070.D
Acq: 18 Dec 2018 19:22

Tgt Ion: 130 Resp: 61268
Ion Ratio Lower Upper
130 100
95 100.5 0.0 205.2





#45

1,2-Dichloropropane

Concen: 22.399 ug/l

RT: 6.23 min Scan# 568

Delta R.T. 0.00 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

Instrument :

MSVOA_F

ClientSampleId :

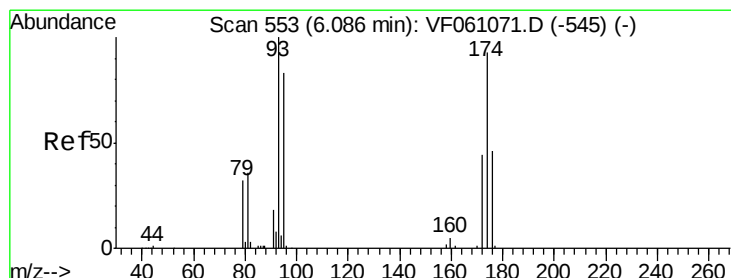
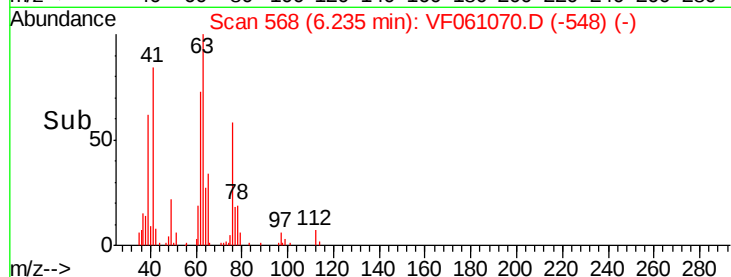
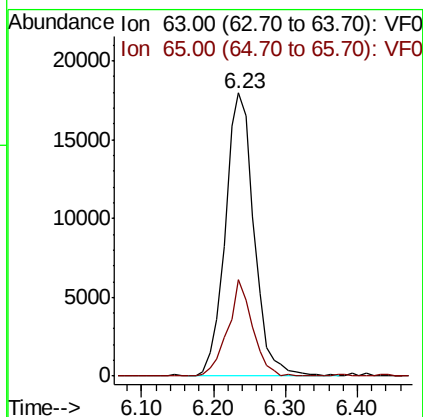
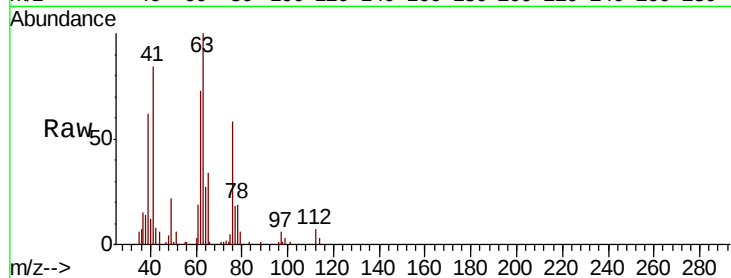
VSTDIC020

Tgt Ion: 63 Resp: 49848

Ion Ratio Lower Upper

63 100

65 34.3 24.4 36.6



#46

Dibromomethane

Concen: 20.810 ug/l

RT: 6.09 min Scan# 553

Delta R.T. 0.00 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

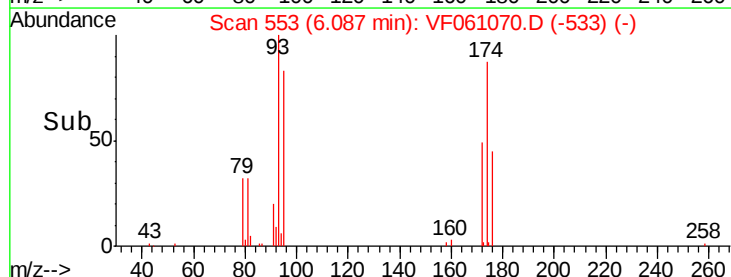
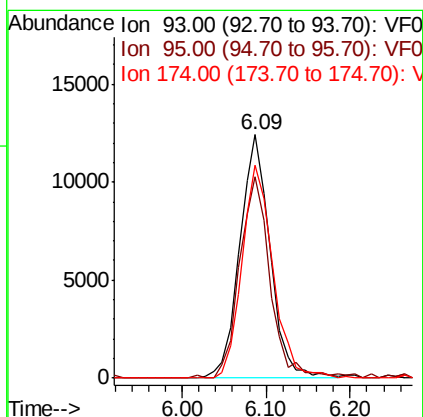
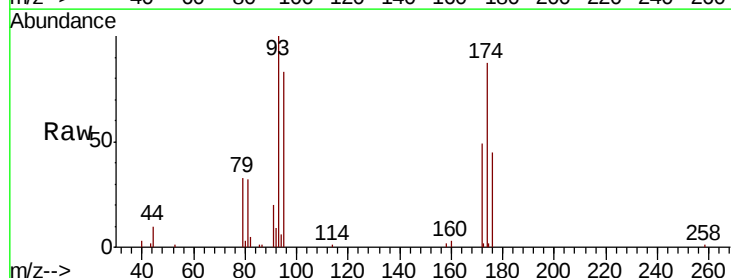
Tgt Ion: 93 Resp: 31368

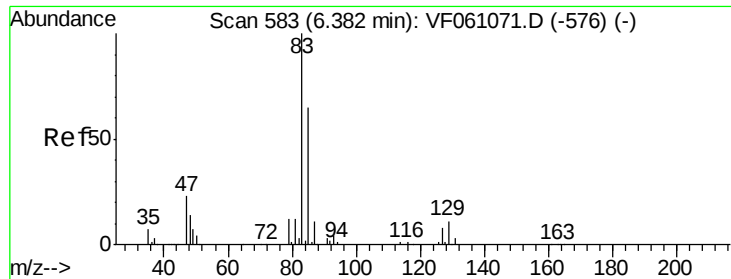
Ion Ratio Lower Upper

93 100

95 82.8 66.9 100.3

174 89.5 74.1 111.1





#47

Bromodichloromethane

Concen: 21.271 ug/l

RT: 6.38 min Scan# 583

Delta R.T. 0.00 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

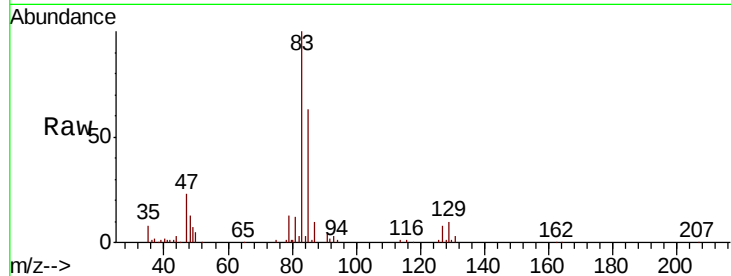
Tgt Ion: 83 Resp: 85368

Ion Ratio Lower Upper

83 100

85 63.3 52.2 78.4

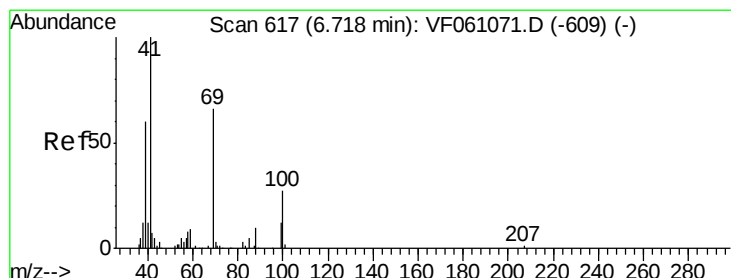
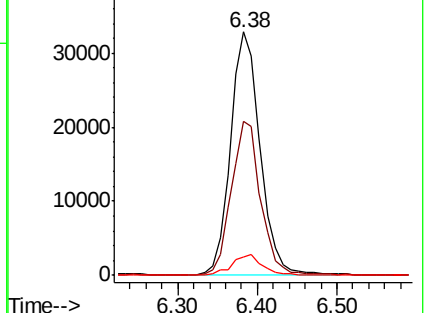
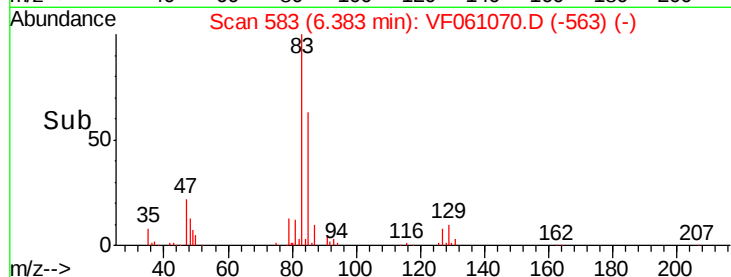
127 7.7 6.1 9.1



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: 20.150 ug/l

RT: 6.72 min Scan# 617

Delta R.T. 0.00 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

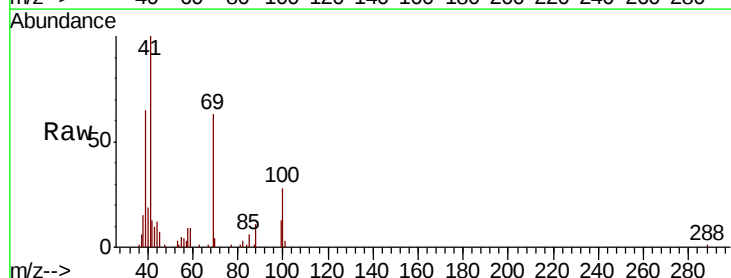
Tgt Ion: 41 Resp: 28538

Ion Ratio Lower Upper

41 100

69 63.3 52.7 79.1

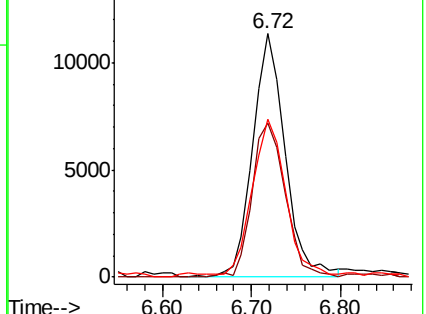
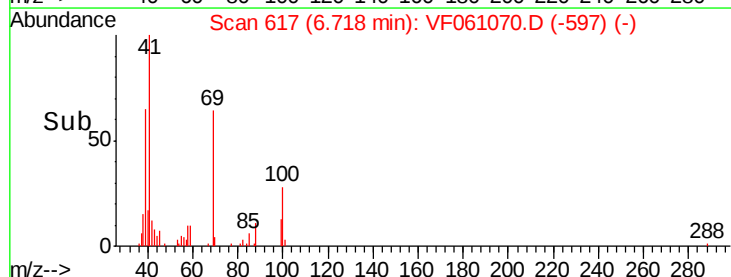
39 64.6 47.8 71.6



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 426.539 ug/l

RT: 6.71 min Scan# 616

Delta R.T. 0.00 min

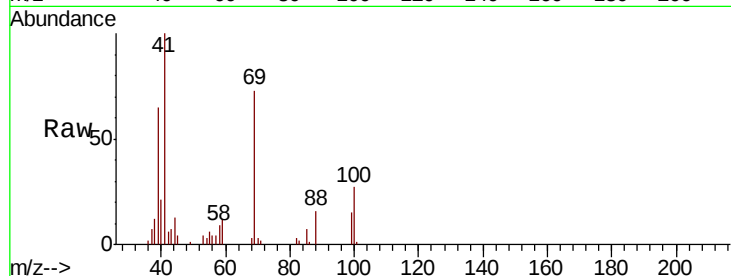
Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

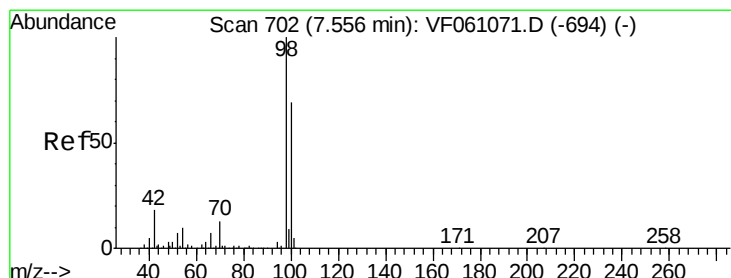
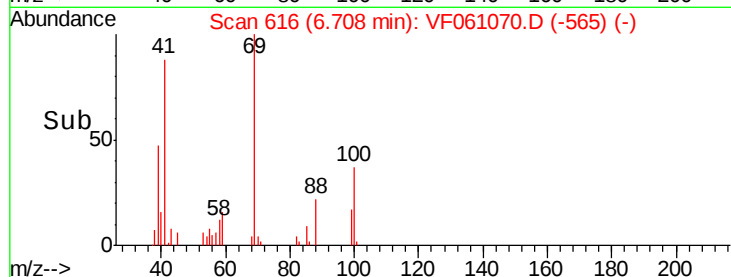
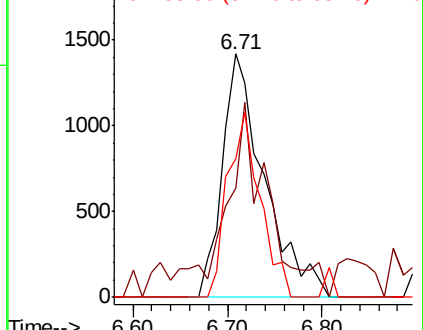
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tgt Ion: 88 Resp: 4368

Ion	Ratio	Lower	Upper
88	100		
43	44.7	33.3	49.9
58	56.8	53.2	79.8



Abundance Ion 88.00 (87.70 to 88.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 19.905 ug/l

RT: 7.56 min Scan# 702

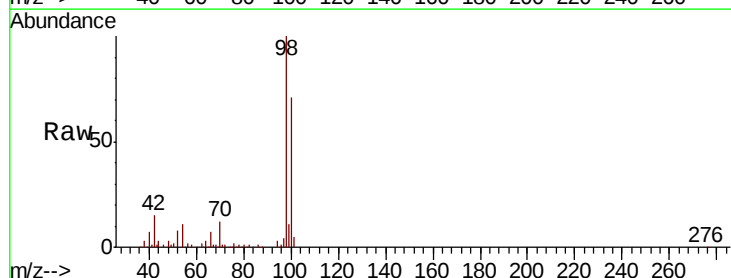
Delta R.T. 0.00 min

Lab File: VF061070.D

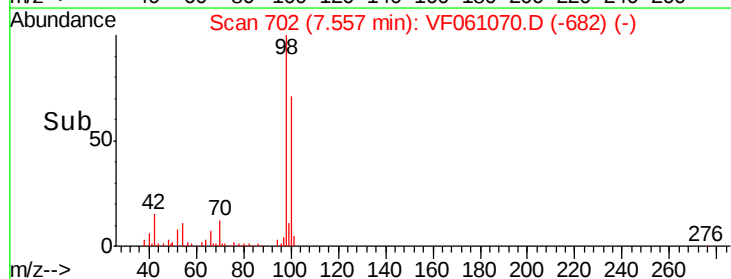
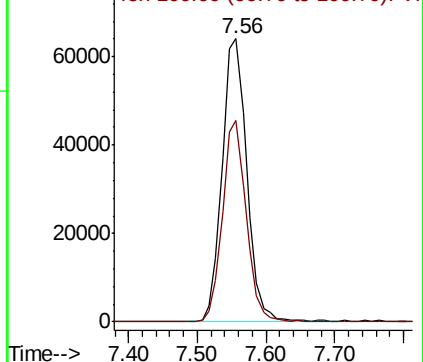
Acq: 18 Dec 2018 19:22

Tgt Ion: 98 Resp: 159822

Ion	Ratio	Lower	Upper
98	100		
100	71.1	55.3	82.9



Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF0

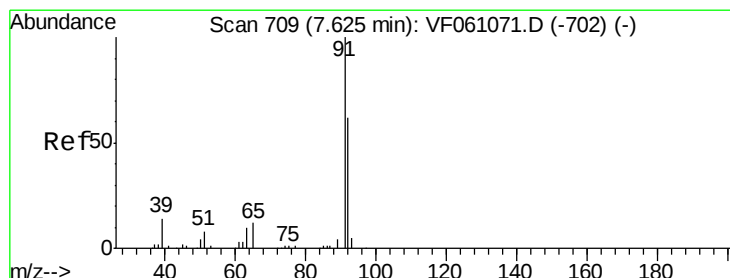
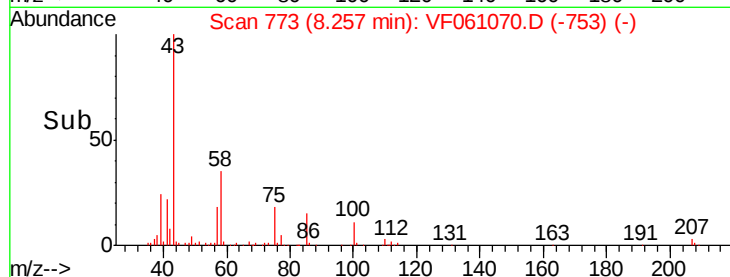
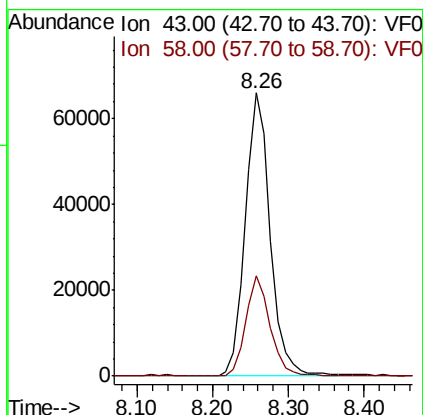
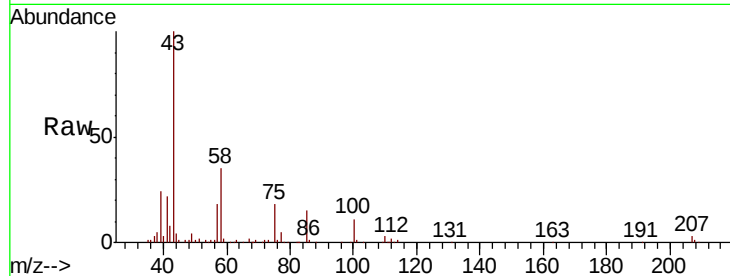




#51
 4-Methyl-2-Pentanone
 Concen: 105.053 ug/l
 RT: 8.26 min Scan# 773
 Delta R.T. 0.00 min
 Lab File: VF061070.D
 Acq: 18 Dec 2018 19:22

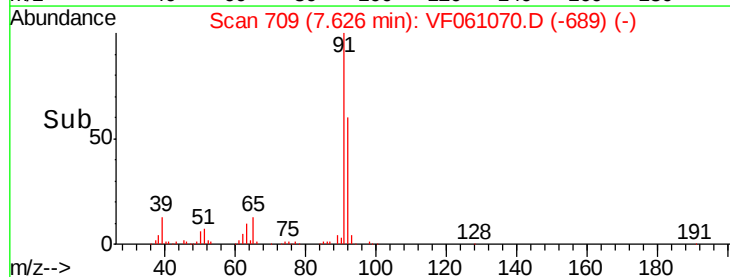
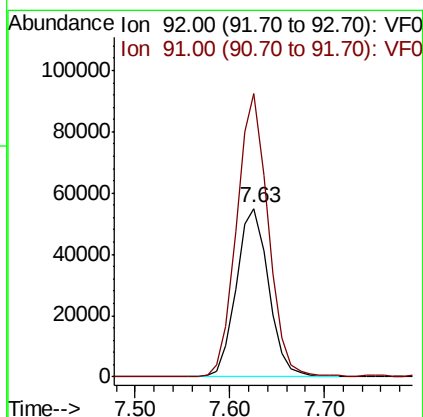
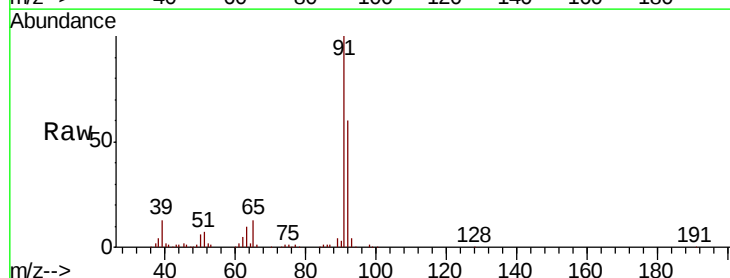
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

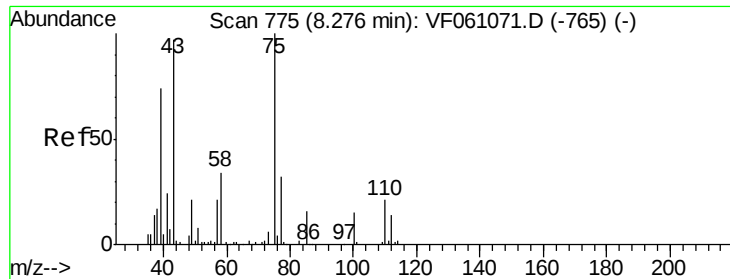
Tgt Ion: 43 Resp: 151182
 Ion Ratio Lower Upper
 43 100
 58 35.4 29.1 43.7



#52
 Toluene
 Concen: 21.638 ug/l
 RT: 7.63 min Scan# 709
 Delta R.T. 0.00 min
 Lab File: VF061070.D
 Acq: 18 Dec 2018 19:22

Tgt Ion: 92 Resp: 130338
 Ion Ratio Lower Upper
 92 100
 91 167.8 128.8 193.2





#53

t-1,3-Dichloropropene

Concen: 21.690 ug/l

RT: 8.28 min Scan# 775

Delta R.T. 0.00 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

Instrument :

MSVOA_F

ClientSampleId :

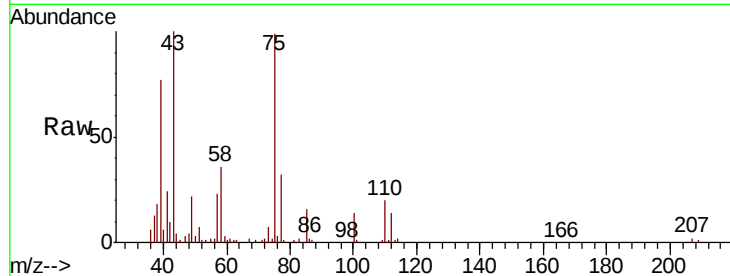
VSTDIC020

Tgt Ion: 75 Resp: 70280

Ion Ratio Lower Upper

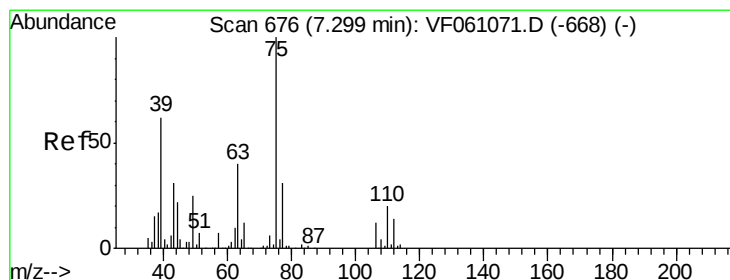
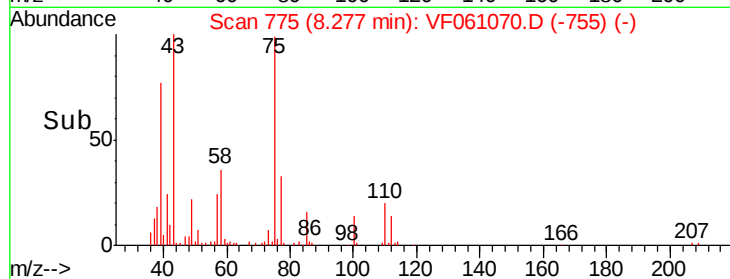
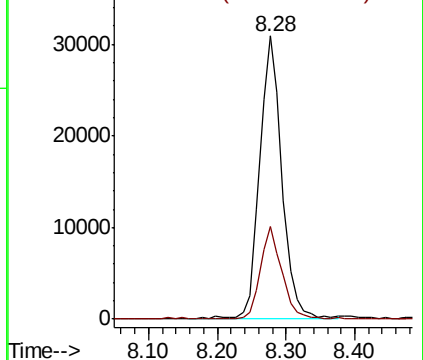
75 100

77 32.8 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 22.677 ug/l

RT: 7.30 min Scan# 676

Delta R.T. 0.00 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

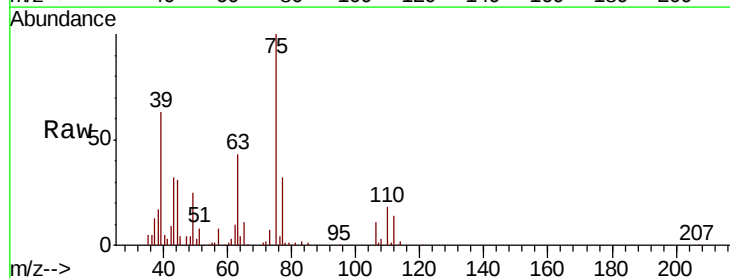
Tgt Ion: 75 Resp: 90676

Ion Ratio Lower Upper

75 100

77 32.1 25.0 37.4

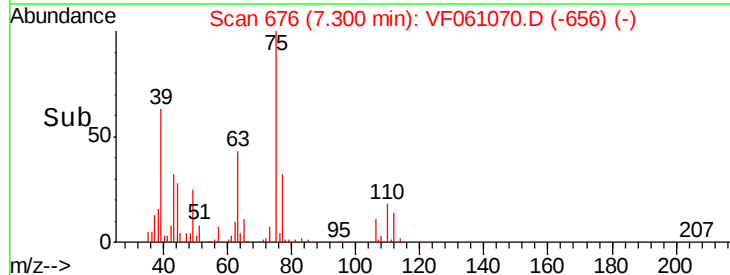
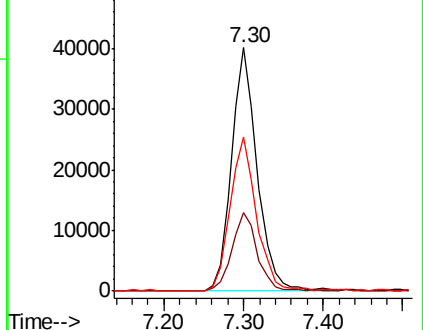
39 63.2 50.1 75.1

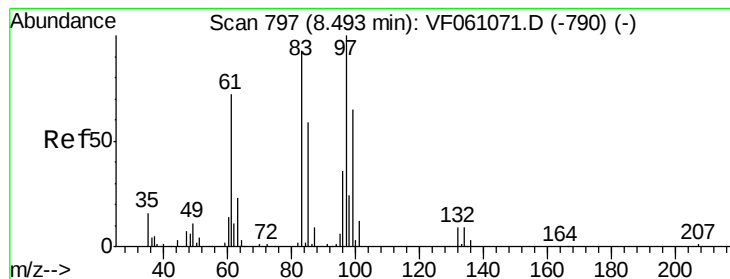


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 21.876 ug/l

RT: 8.49 min Scan# 797

Delta R.T. 0.00 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tgt Ion: 97 Resp: 37918

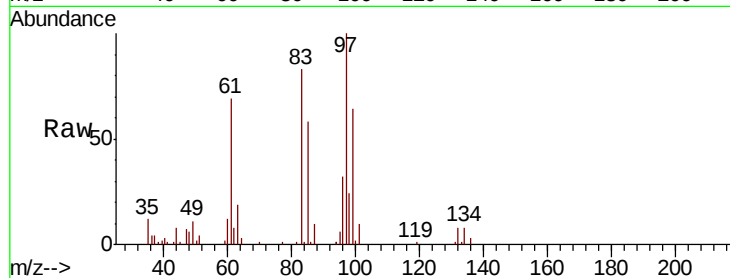
Ion Ratio Lower Upper

97 100

83 82.9 75.0 112.4

85 58.2 47.5 71.3

99 64.4 51.9 77.9

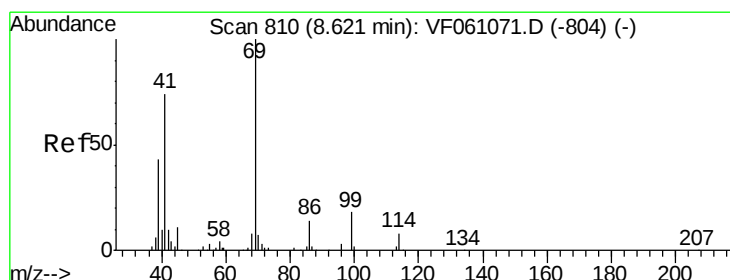
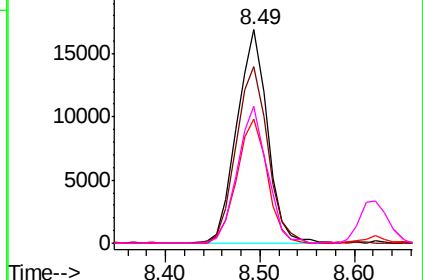
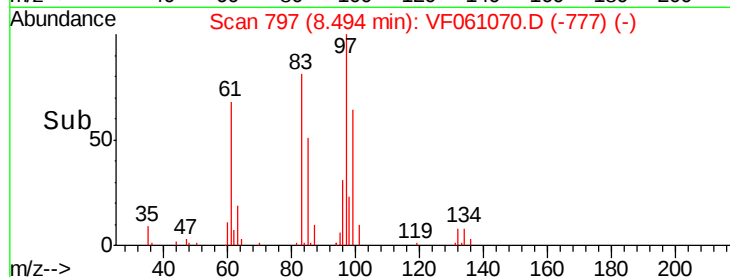


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 19.929 ug/l

RT: 8.62 min Scan# 810

Delta R.T. 0.00 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

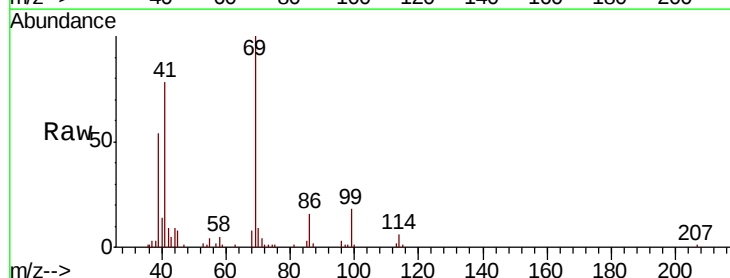
Tgt Ion: 69 Resp: 38092

Ion Ratio Lower Upper

69 100

41 78.2 59.7 89.5

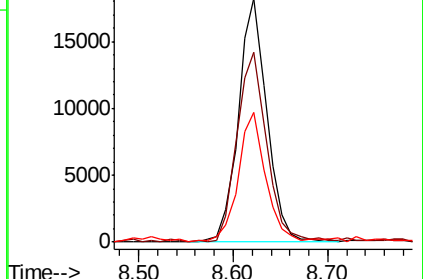
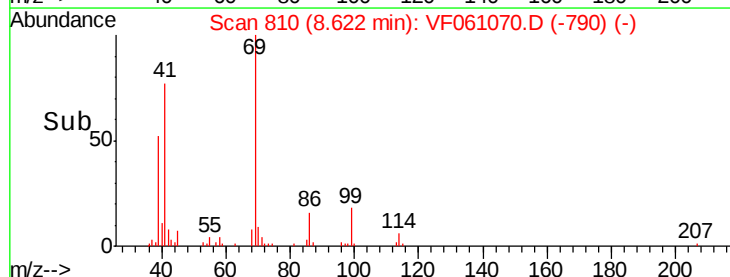
39 53.5 35.0 52.6#

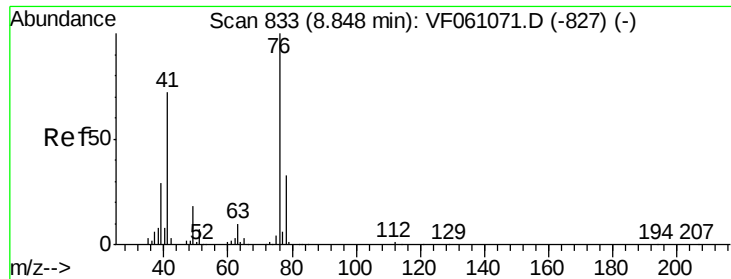


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 21.526 ug/l

RT: 8.86 min Scan# 834

Delta R.T. 0.01 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

Instrument :

MSVOA_F

ClientSampleId :

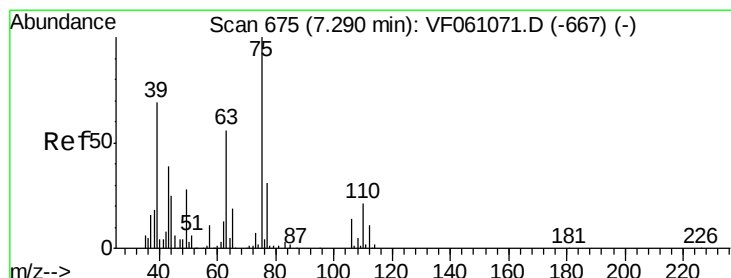
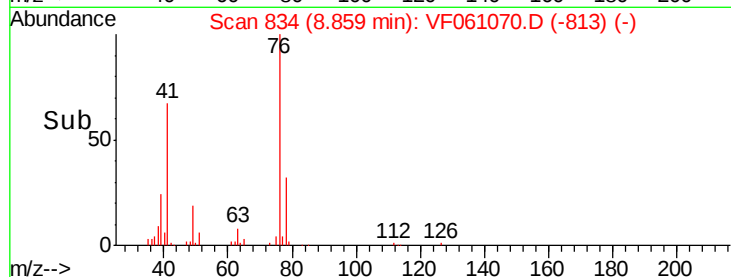
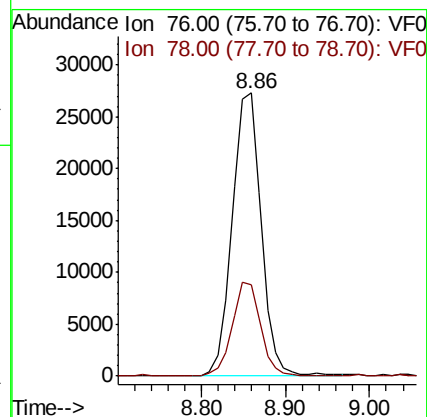
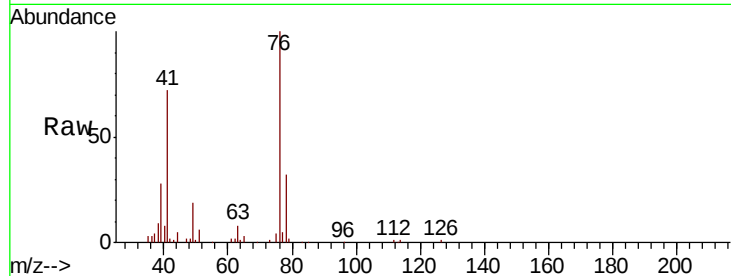
VSTDIC020

Tgt Ion: 76 Resp: 65490

Ion Ratio Lower Upper

76 100

78 32.3 26.5 39.7



#58

2-Chloroethyl Vinyl ether

Concen: 188.728 ug/l

RT: 7.30 min Scan# 676

Delta R.T. 0.01 min

Lab File: VF061070.D

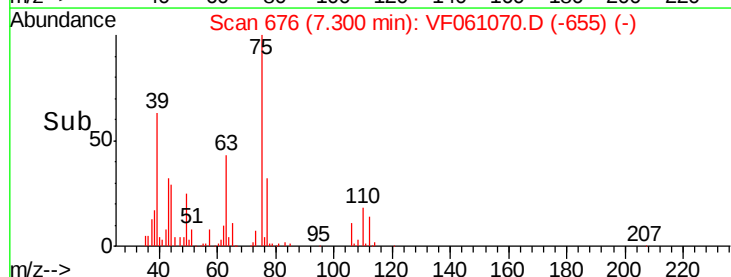
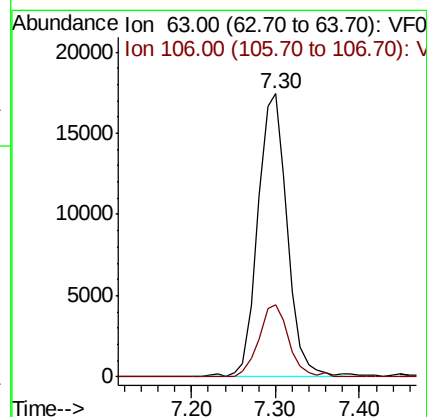
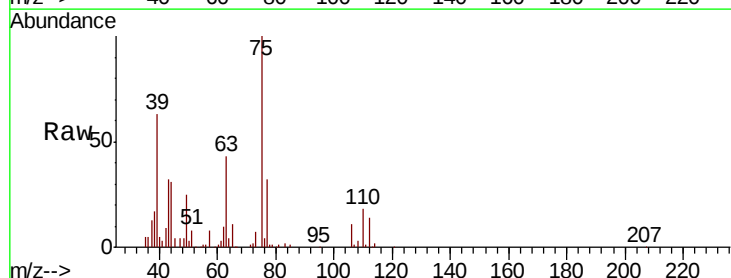
Acq: 18 Dec 2018 19:22

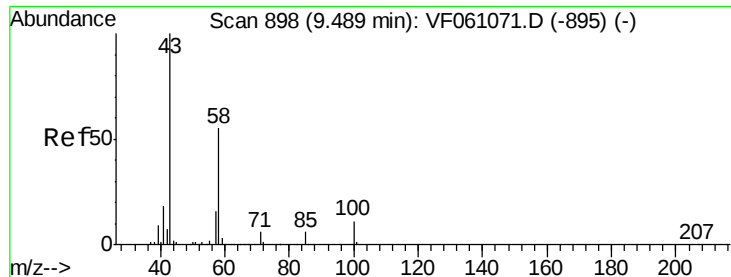
Tgt Ion: 63 Resp: 42710

Ion Ratio Lower Upper

63 100

106 25.5 19.8 29.8

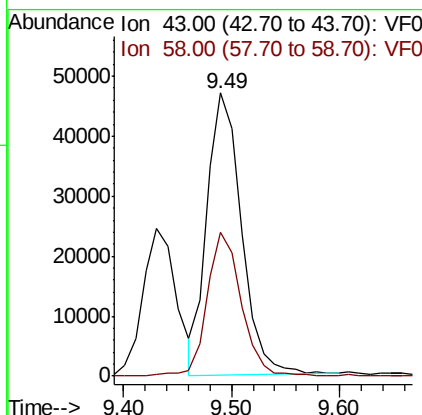
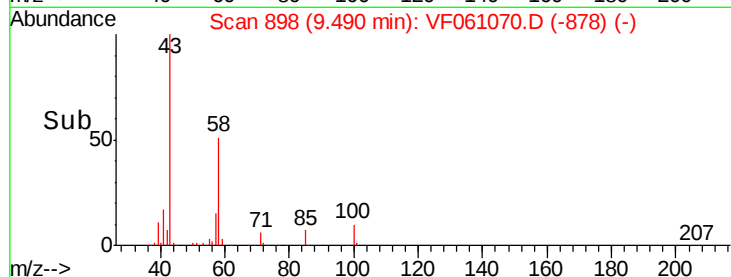
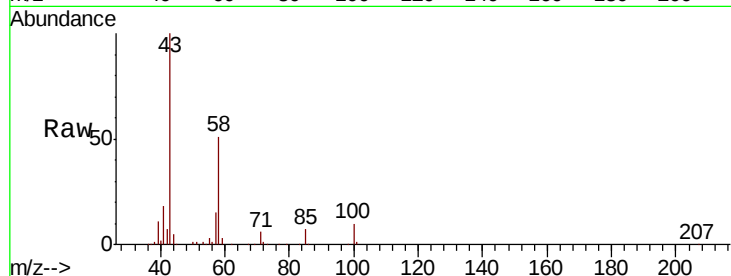




#59
2-Hexanone
Concen: 102.188 ug/l
RT: 9.49 min Scan# 898
Delta R.T. 0.00 min
Lab File: VF061070.D
Acq: 18 Dec 2018 19:22

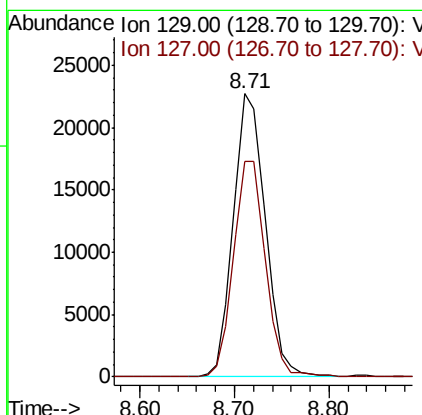
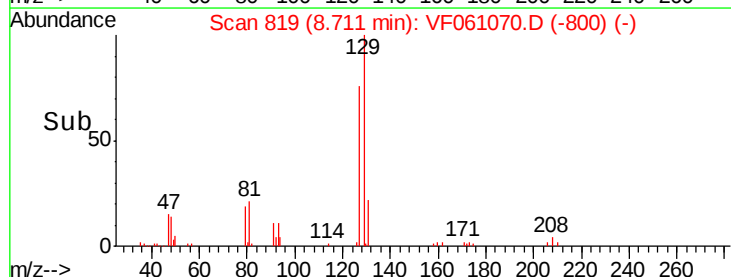
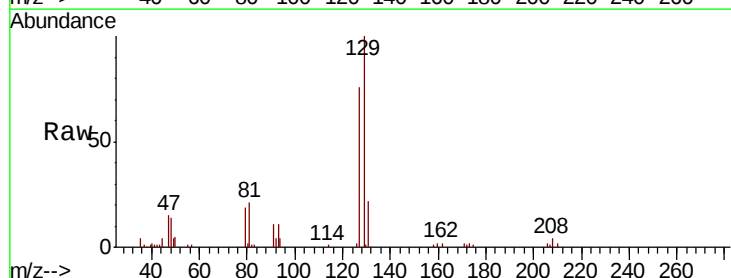
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

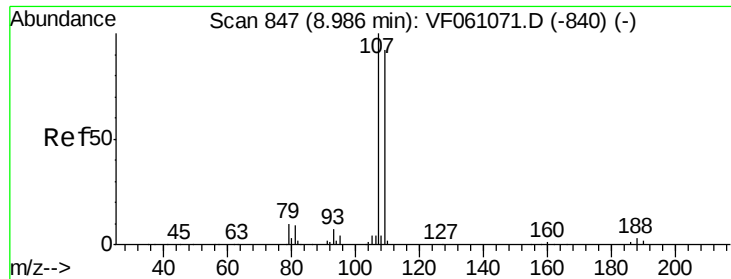
Tgt Ion: 43 Resp: 103923
Ion Ratio Lower Upper
43 100
58 51.0 25.1 75.2



#60
Dibromochloromethane
Concen: 20.623 ug/l
RT: 8.71 min Scan# 819
Delta R.T. -0.01 min
Lab File: VF061070.D
Acq: 18 Dec 2018 19:22

Tgt Ion: 129 Resp: 53390
Ion Ratio Lower Upper
129 100
127 76.0 36.8 110.3





#61

1,2-Dibromoethane

Concen: 20.762 ug/l

RT: 8.99 min Scan# 847

Delta R.T. 0.00 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

Instrument :

MSVOA_F

ClientSampleId :

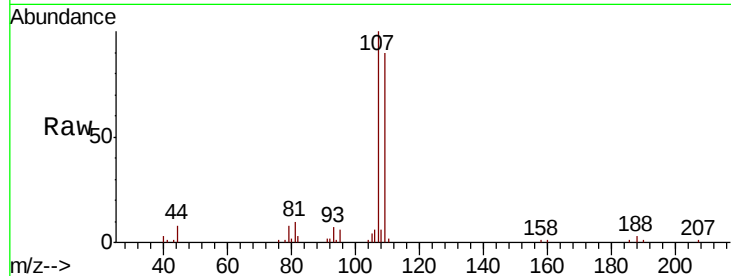
VSTDIC020

Tgt Ion: 107 Resp: 39120

Ion Ratio Lower Upper

107 100

109 90.4 73.7 110.5



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.99

20000

15000

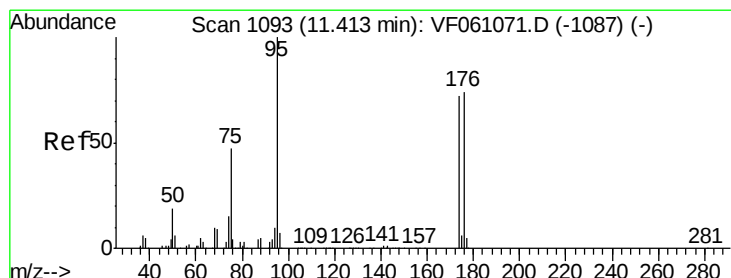
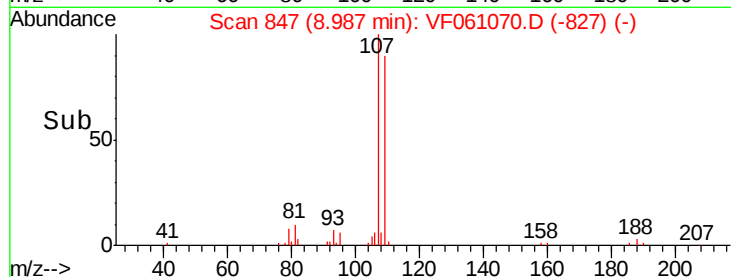
10000

5000

0

Time-->

8.90 9.00 9.10



#62

4-Bromofluorobenzene

Concen: 20.892 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.00 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

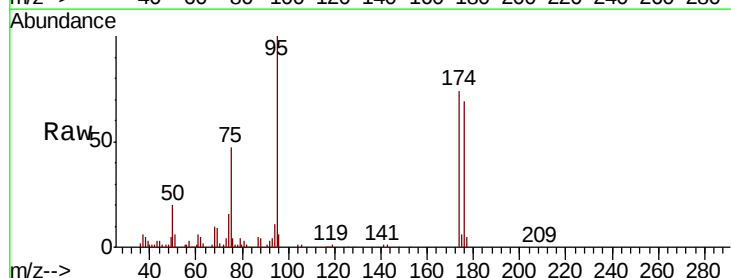
Tgt Ion: 95 Resp: 75981

Ion Ratio Lower Upper

95 100

174 74.4 0.0 143.8

176 69.1 0.0 147.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

11.41

50000

40000

30000

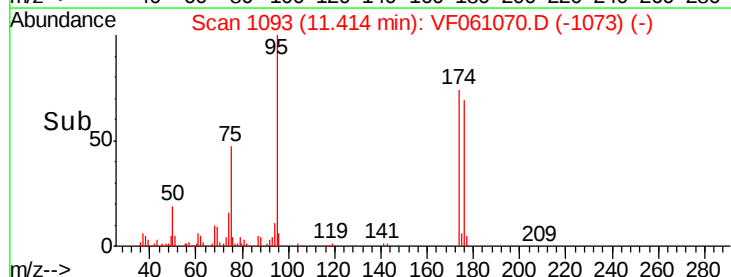
20000

10000

0

Time-->

11.30 11.40 11.50 11.60

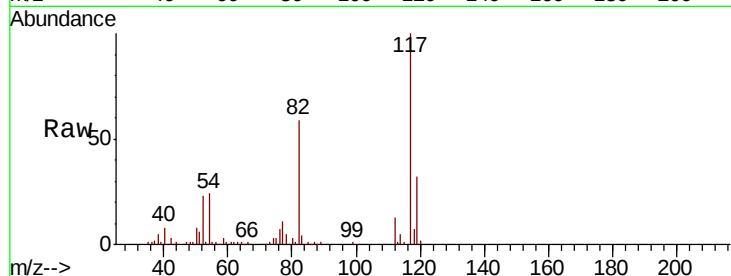




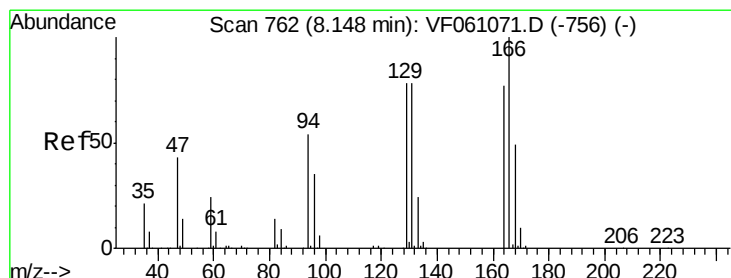
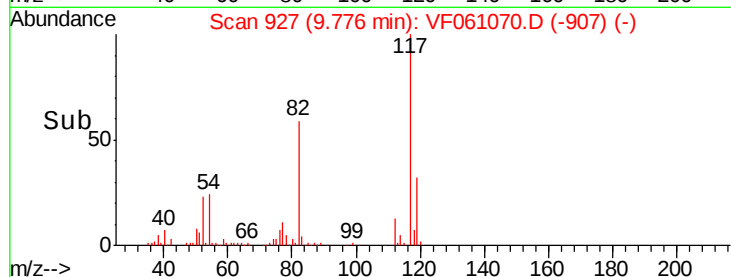
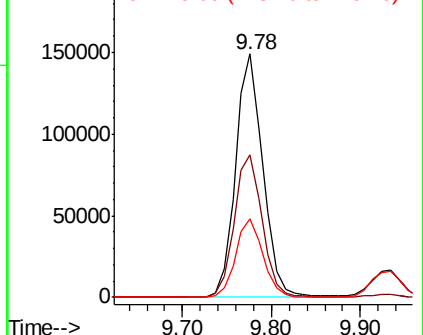
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 927
Delta R.T. 0.00 min
Lab File: VF061070.D
Acq: 18 Dec 2018 19:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
117	100		
82	58.6	45.0	67.4
119	32.0	24.8	37.2



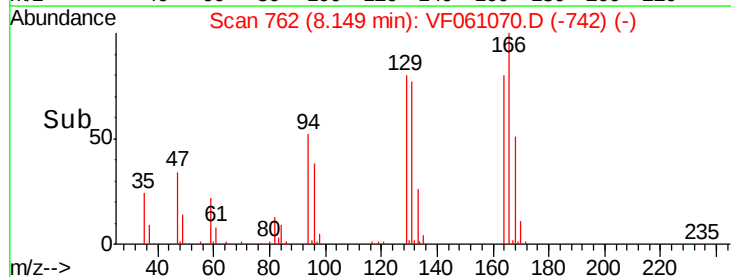
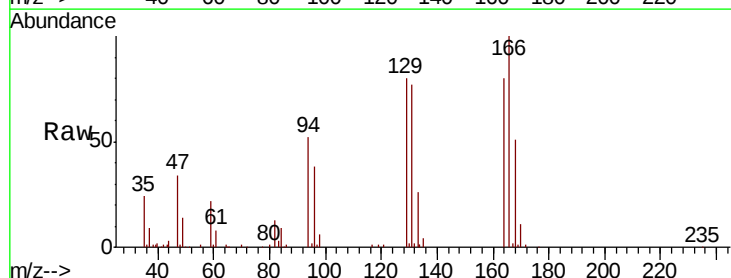
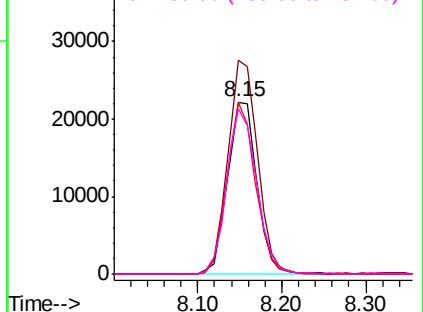
Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V



#64
Tetrachloroethene
Concen: 22.071 ug/l
RT: 8.15 min Scan# 762
Delta R.T. 0.00 min
Lab File: VF061070.D
Acq: 18 Dec 2018 19:22

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.4	104.0	156.0
129	99.9	81.1	121.7
131	96.0	81.2	121.8

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

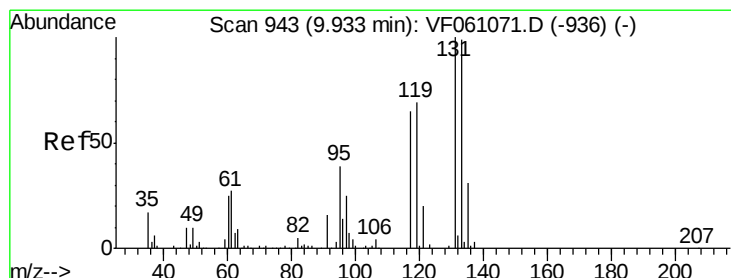
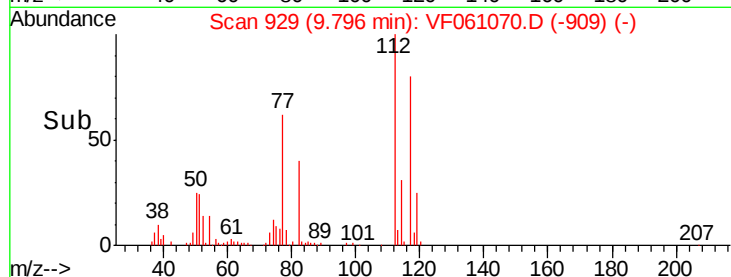
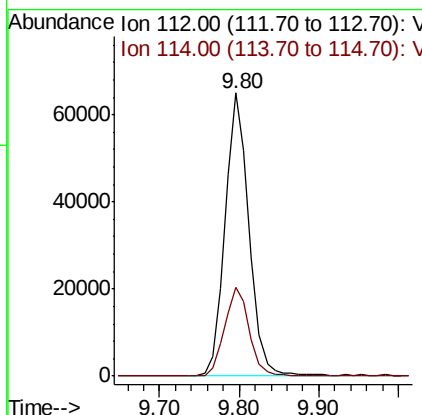
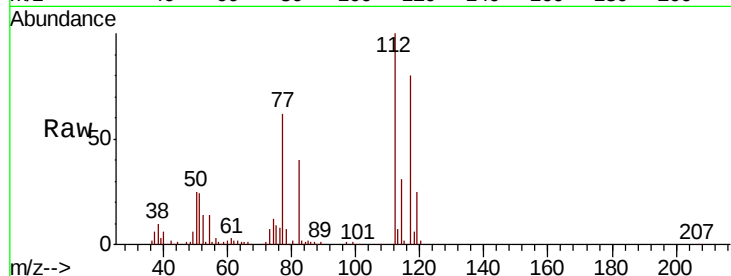




#65
Chlorobenzene
Concen: 22.342 ug/l
RT: 9.80 min Scan# 929
Delta R.T. 0.00 min
Lab File: VF061070.D
Acq: 18 Dec 2018 19:22

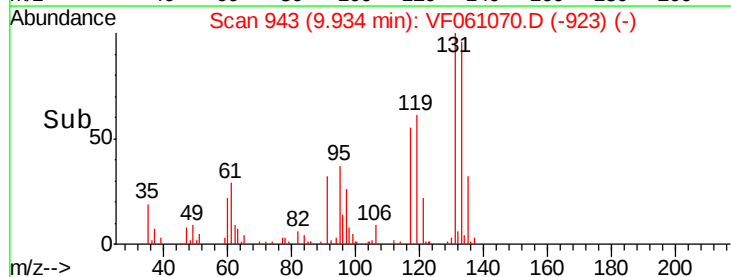
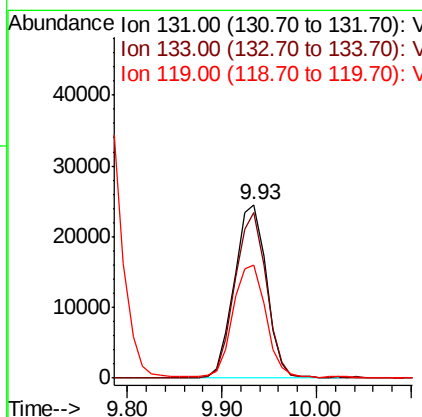
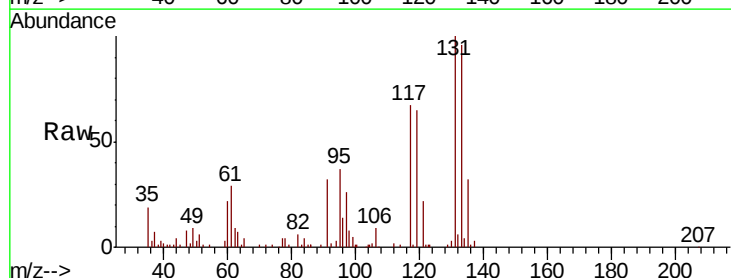
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

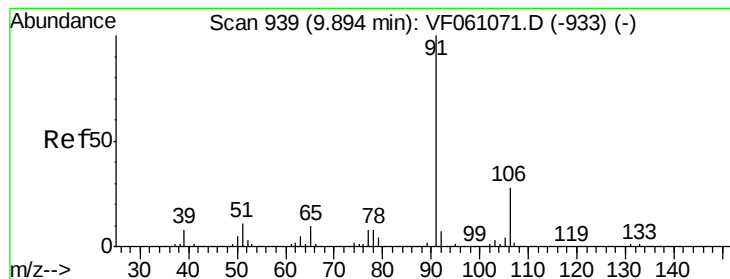
Tgt Ion:112 Resp: 137670
Ion Ratio Lower Upper
112 100
114 31.2 27.8 41.6



#66
1,1,1,2-Tetrachloroethane
Concen: 22.022 ug/l
RT: 9.93 min Scan# 943
Delta R.T. 0.00 min
Lab File: VF061070.D
Acq: 18 Dec 2018 19:22

Tgt Ion:131 Resp: 58129
Ion Ratio Lower Upper
131 100
133 95.6 49.5 148.7
119 64.8 34.5 103.5





#67

Ethyl Benzene

Concen: 21.889 ug/l

RT: 9.90 min Scan# 940

Delta R.T. 0.01 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

Instrument :

MSVOA_F

ClientSampleId :

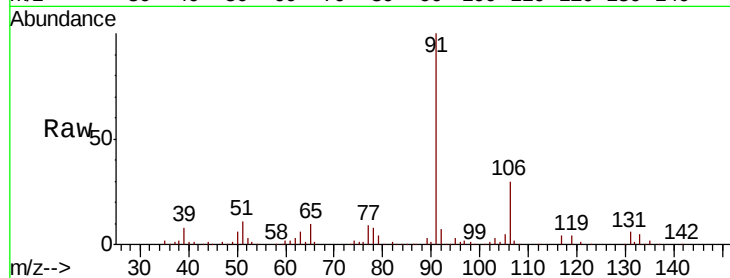
VSTDIC020

Tgt Ion: 91 Resp: 251784

Ion Ratio Lower Upper

91 100

106 29.5 22.5 33.7



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

120000

100000

80000

60000

40000

20000

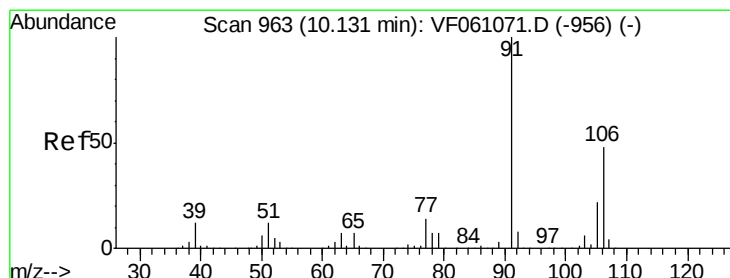
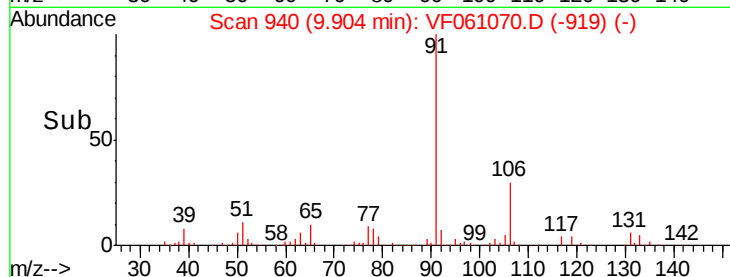
0

9.80

9.90

10.00

Time-->



#68

m/p-Xylenes

Concen: 42.915 ug/l

RT: 10.13 min Scan# 963

Delta R.T. 0.00 min

Lab File: VF061070.D

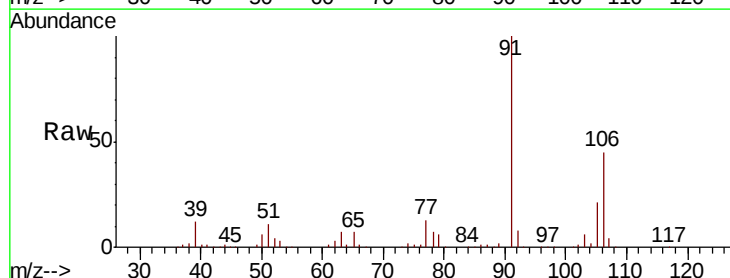
Acq: 18 Dec 2018 19:22

Tgt Ion: 106 Resp: 178160

Ion Ratio Lower Upper

106 100

91 224.3 168.2 252.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

200000

150000

100000

50000

0

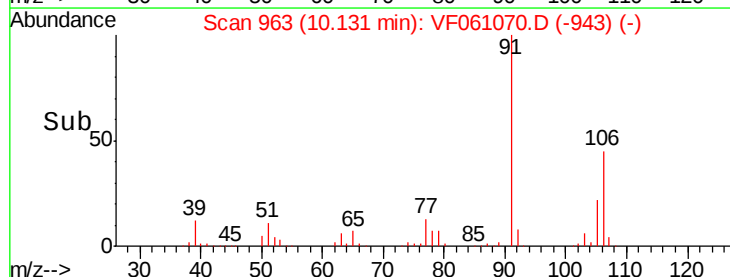
10.00

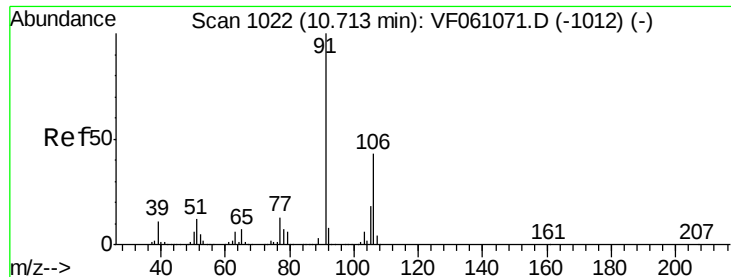
10.10

10.13

10.20

Time-->

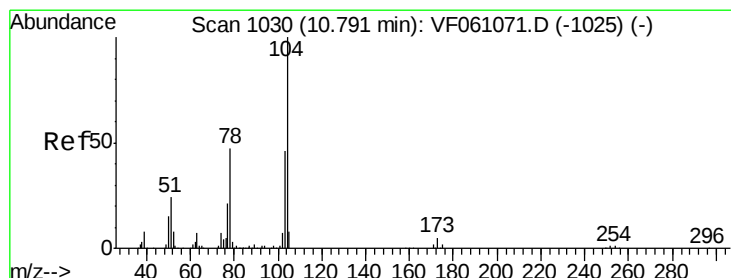
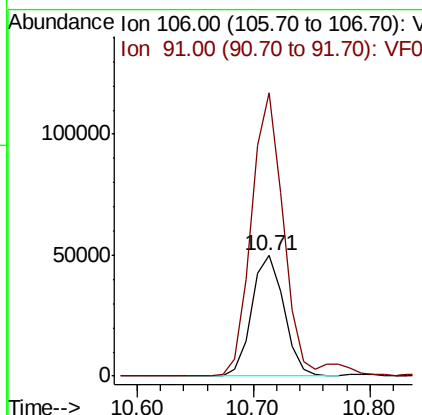
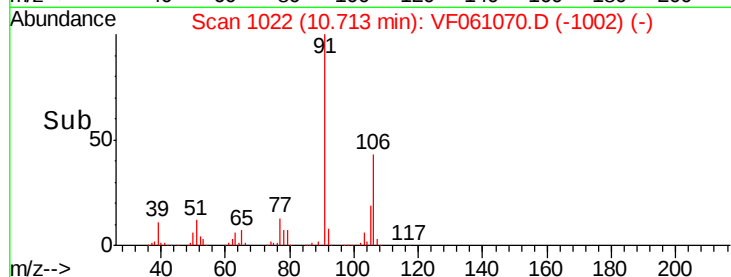
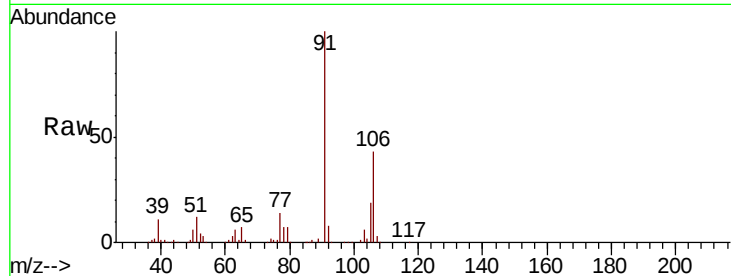




#69
o-Xylene
Concen: 21.063 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. 0.00 min
Lab File: VF061070.D
Acq: 18 Dec 2018 19:22

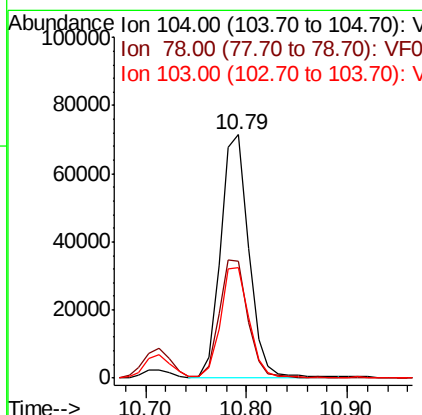
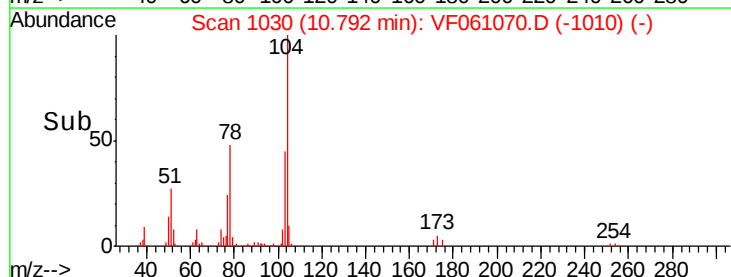
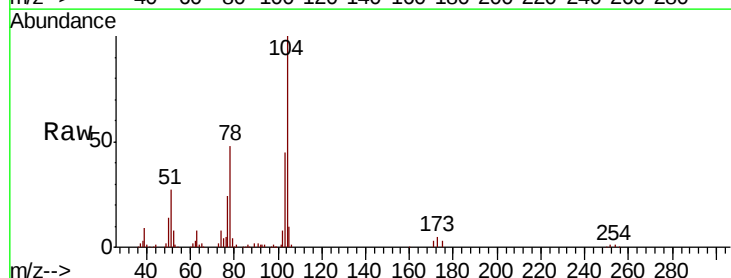
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

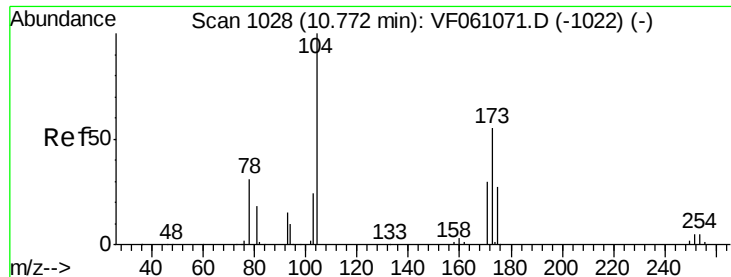
Tgt Ion:106 Resp: 96243
Ion Ratio Lower Upper
106 100
91 234.9 115.9 347.7



#70
Styrene
Concen: 22.046 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VF061070.D
Acq: 18 Dec 2018 19:22

Tgt Ion:104 Resp: 138651
Ion Ratio Lower Upper
104 100
78 47.9 38.4 57.6
103 45.2 37.0 55.6





#71

Bromoform

Concen: 20.962 ug/l

RT: 10.77 min Scan# 1028

Delta R.T. 0.00 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

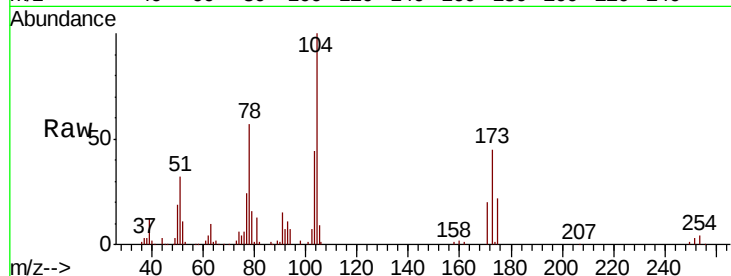
Tgt Ion:173 Resp: 26595

Ion Ratio Lower Upper

173 100

175 48.6 24.8 74.4

254 0.0 0.0 0.0

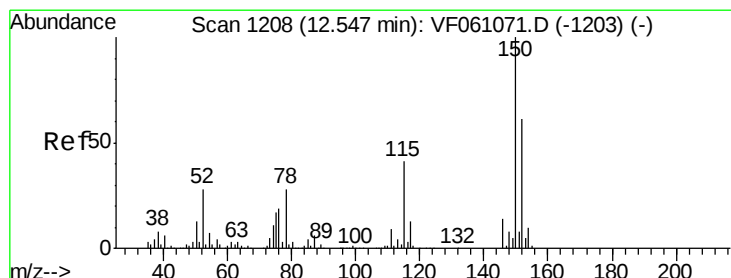
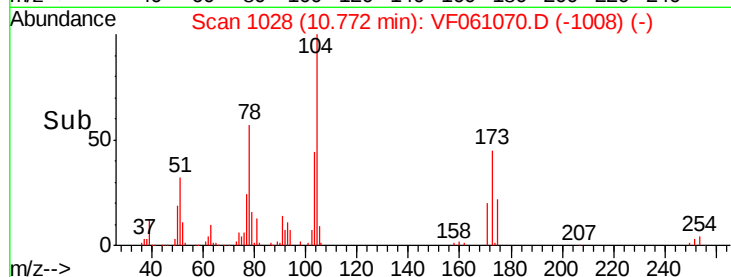
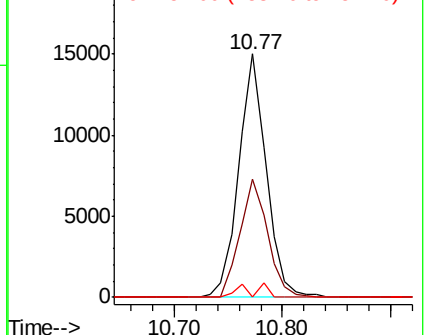


Abundance

Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1208

Delta R.T. 0.00 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

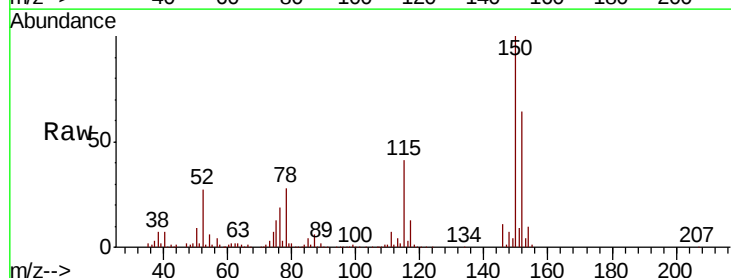
Tgt Ion:152 Resp: 169591

Ion Ratio Lower Upper

152 100

115 63.8 33.3 99.9

150 156.9 0.0 328.2

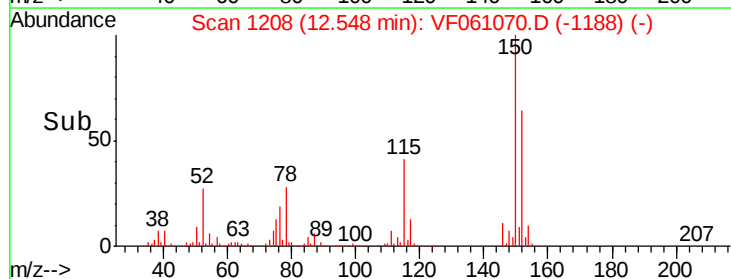
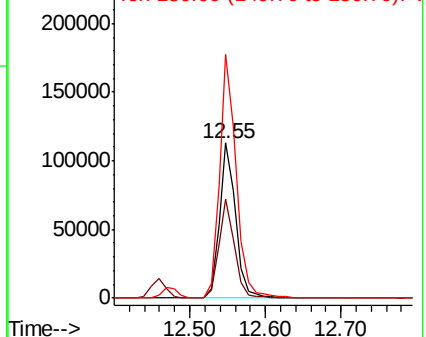


Abundance

Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 22.364 ug/l

RT: 11.13 min Scan# 1064

Delta R.T. 0.00 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

Instrument :

MSVOA_F

ClientSampleId :

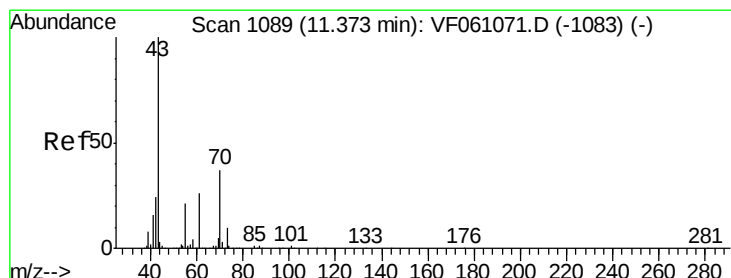
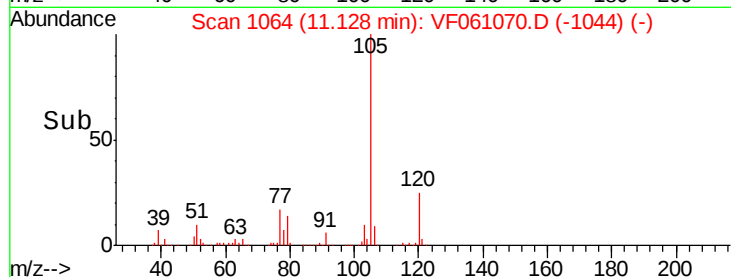
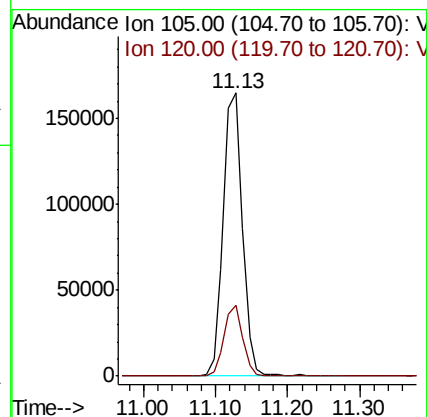
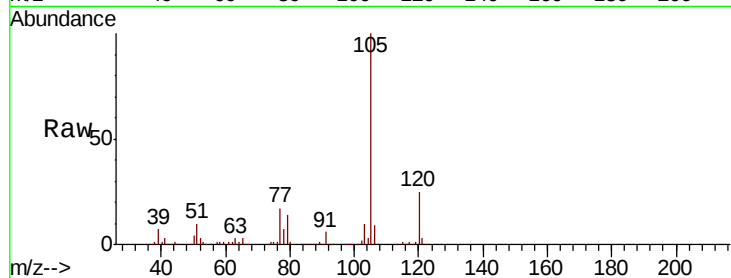
VSTDIC020

Tgt Ion:105 Resp: 303709

Ion Ratio Lower Upper

105 100

120 24.9 13.0 39.0



#74

N-ethyl acetate

Concen: 21.366 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. 0.00 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

Tgt Ion: 43 Resp: 66310

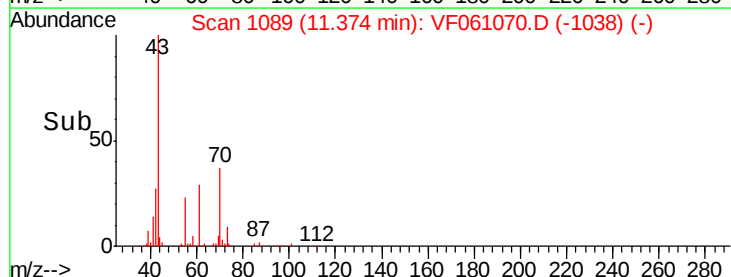
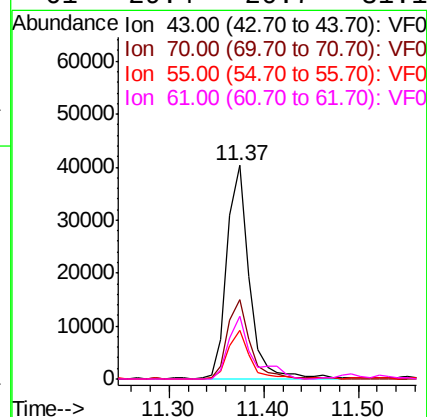
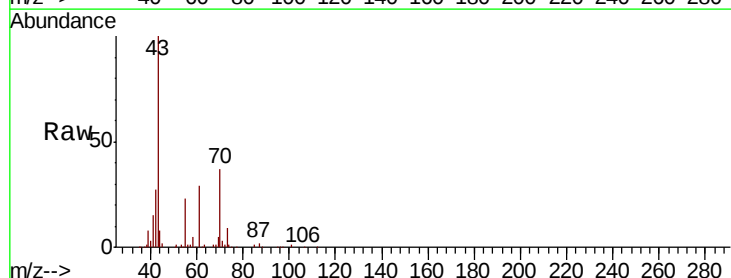
Ion Ratio Lower Upper

43 100

70 37.2 29.2 43.8

55 22.6 16.5 24.7

61 29.4 20.7 31.1





#75

1,1,2,2-Tetrachloroethane

Concen: 23.093 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. 0.00 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

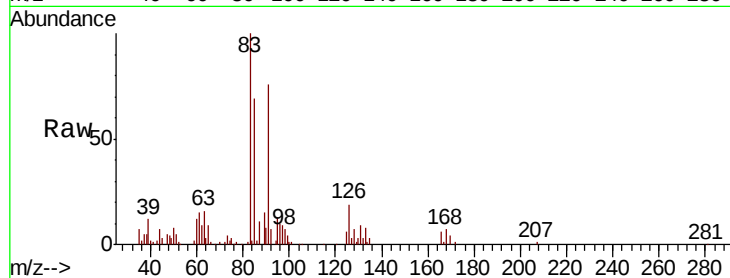
Tgt Ion: 83 Resp: 51430

Ion Ratio Lower Upper

83 100

131 9.4 4.8 14.3

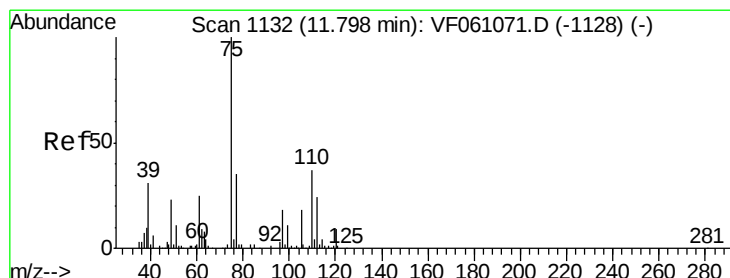
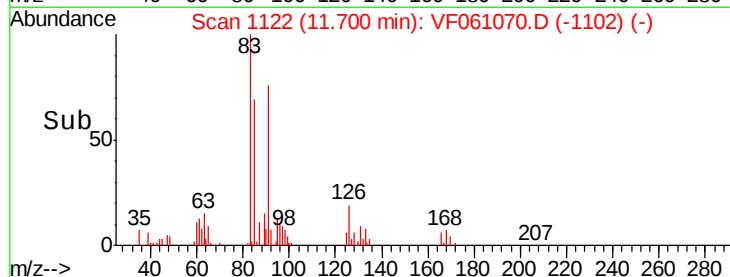
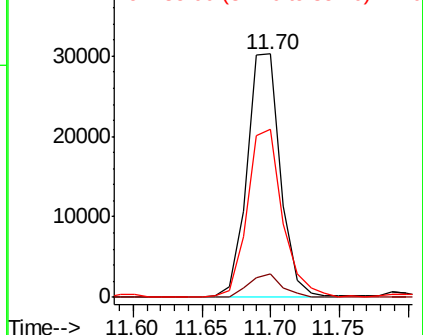
85 68.9 33.9 101.6



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: 22.744 ug/l

RT: 11.79 min Scan# 1131

Delta R.T. -0.01 min

Lab File: VF061070.D

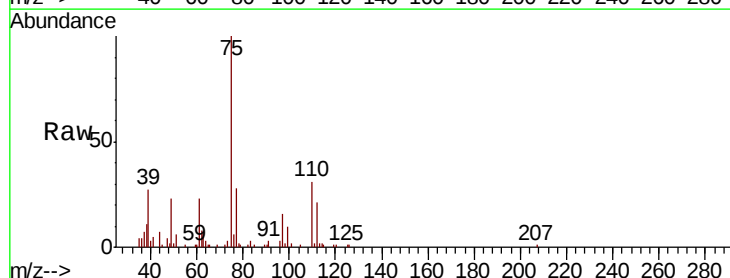
Acq: 18 Dec 2018 19:22

Tgt Ion: 75 Resp: 37095

Ion Ratio Lower Upper

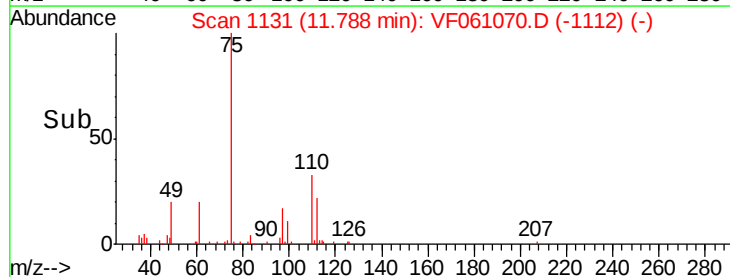
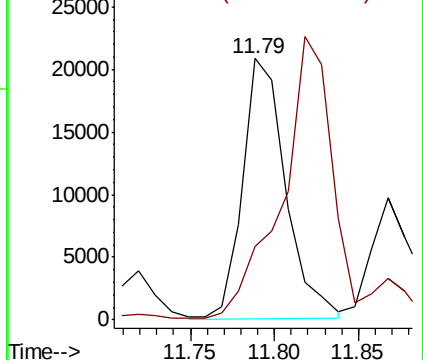
75 100

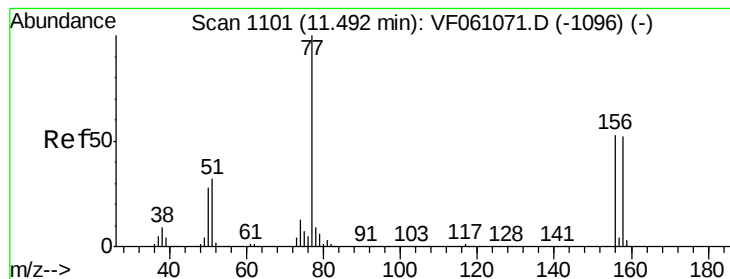
77 28.1 17.6 52.9



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 22.565 ug/l

RT: 11.49 min Scan# 1101

Delta R.T. 0.00 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

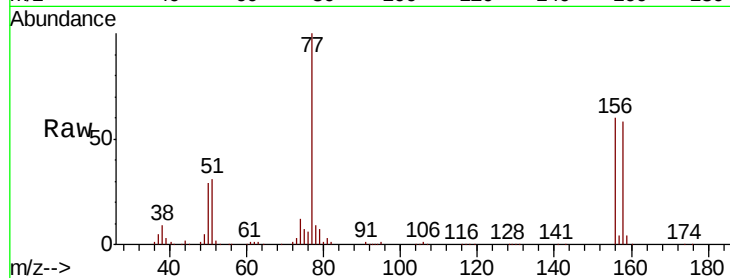
Tgt Ion:156 Resp: 66285

Ion Ratio Lower Upper

156 100

77 167.6 93.8 281.4

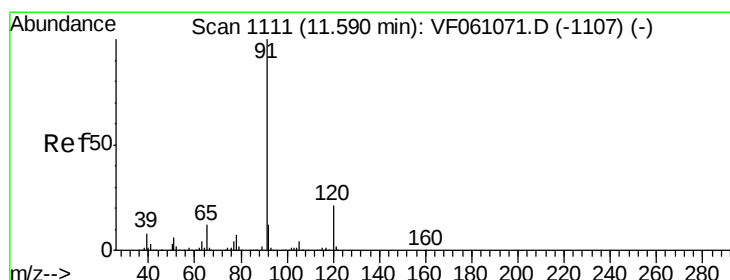
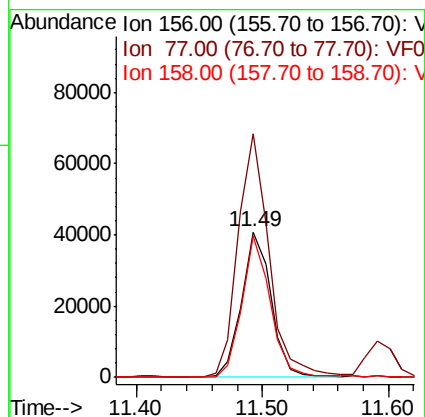
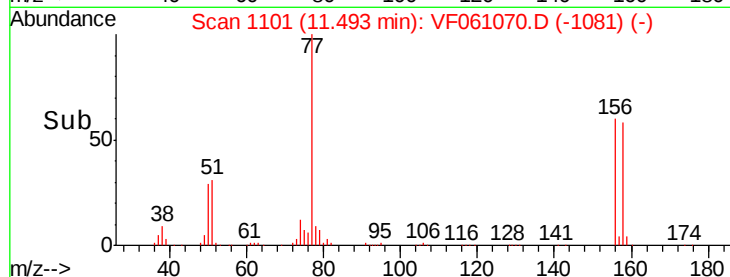
158 97.4 48.9 146.8



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 23.634 ug/l

RT: 11.59 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VF061070.D

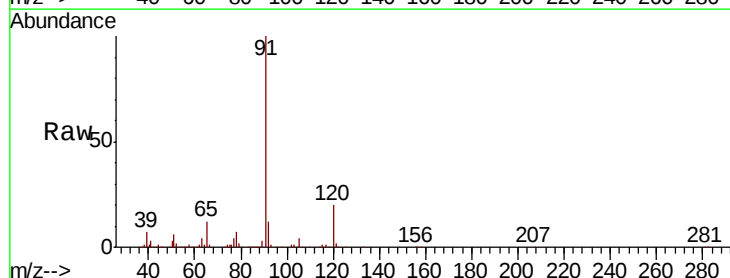
Acq: 18 Dec 2018 19:22

Tgt Ion: 91 Resp: 376072

Ion Ratio Lower Upper

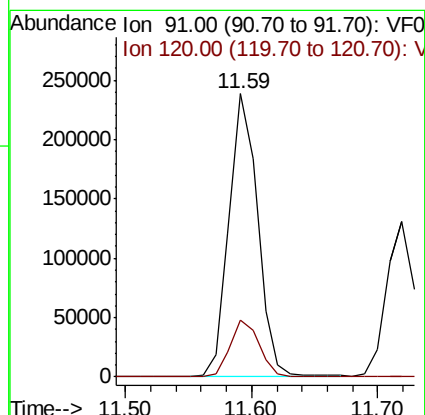
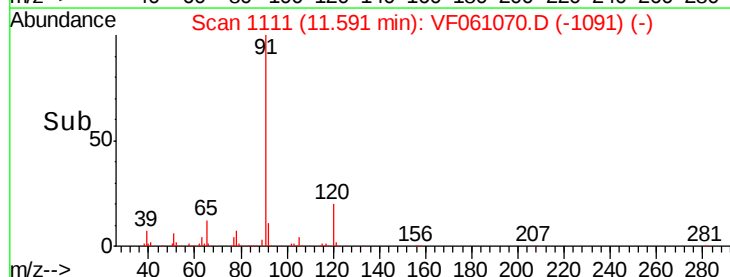
91 100

120 20.2 10.4 31.2



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

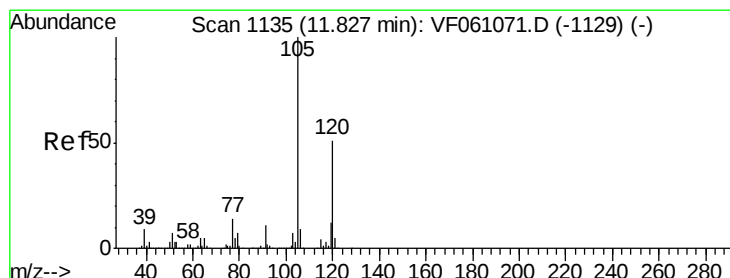
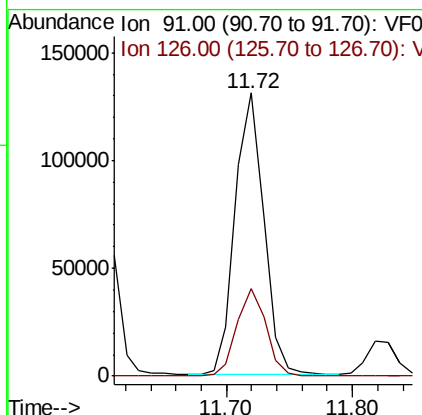
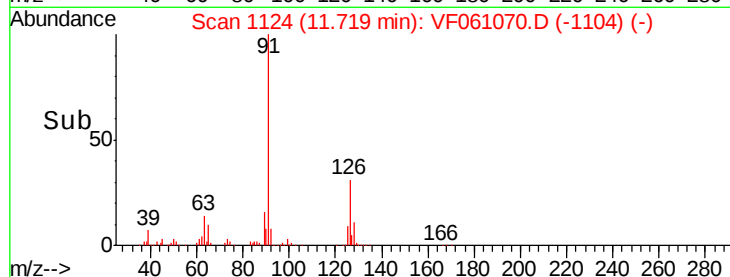
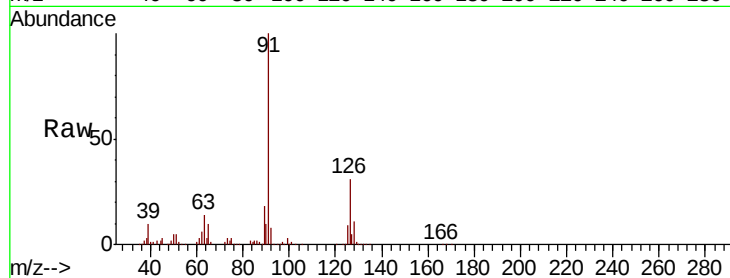




#79
 2-Chlorotoluene
 Concen: 22.634 ug/l
 RT: 11.72 min Scan# 1124
 Delta R.T. 0.00 min
 Lab File: VF061070.D
 Acq: 18 Dec 2018 19:22

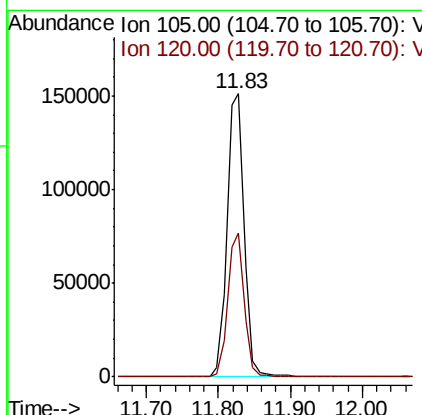
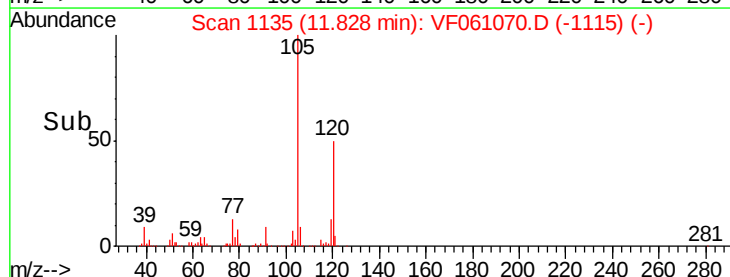
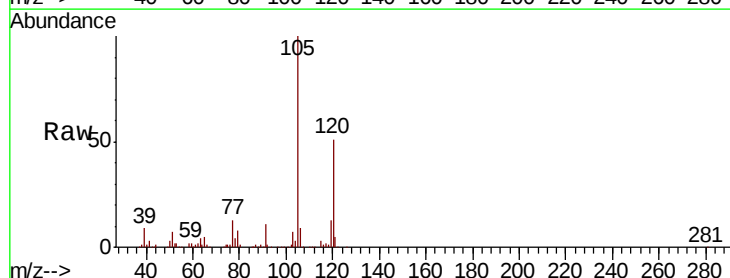
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tgt Ion: 91 Resp: 206766
 Ion Ratio Lower Upper
 91 100
 126 30.9 16.4 49.1



#80
 1,3,5-Trimethylbenzene
 Concen: 22.588 ug/l
 RT: 11.83 min Scan# 1135
 Delta R.T. 0.00 min
 Lab File: VF061070.D
 Acq: 18 Dec 2018 19:22

Tgt Ion: 105 Resp: 248832
 Ion Ratio Lower Upper
 105 100
 120 50.7 25.4 76.4





#81

trans-1,4-Dichloro-2-butene

Concen: 28.411 ug/l

RT: 11.87 min Scan# 1139

Delta R.T. 0.00 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

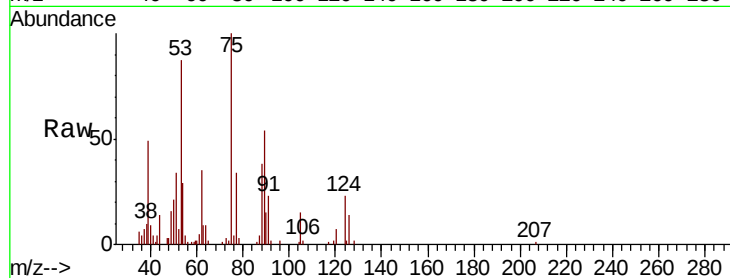
Tgt Ion: 75 Resp: 22293

Ion Ratio Lower Upper

75 100

53 86.6 74.1 111.1

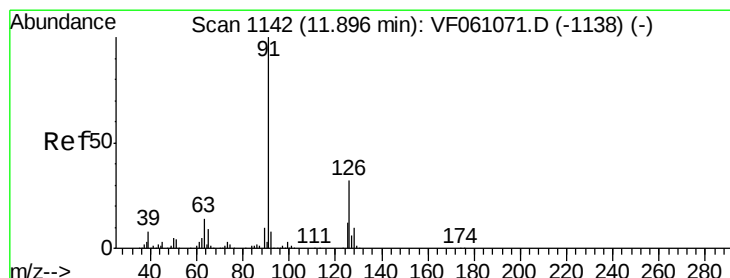
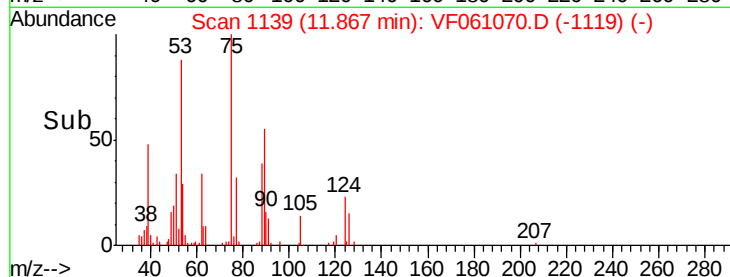
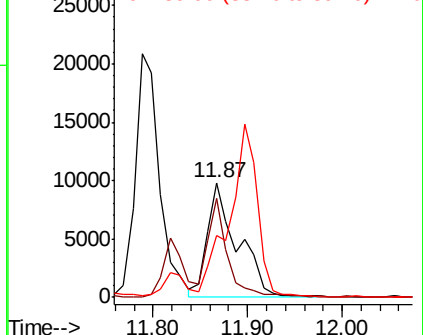
89 53.9 42.6 64.0



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



#82

4-Chlorotoluene

Concen: 21.485 ug/l

RT: 11.90 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VF061070.D

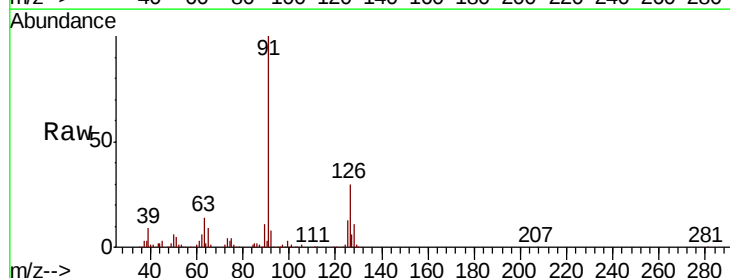
Acq: 18 Dec 2018 19:22

Tgt Ion: 91 Resp: 205783

Ion Ratio Lower Upper

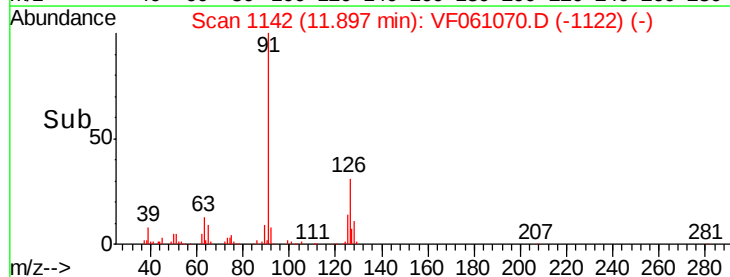
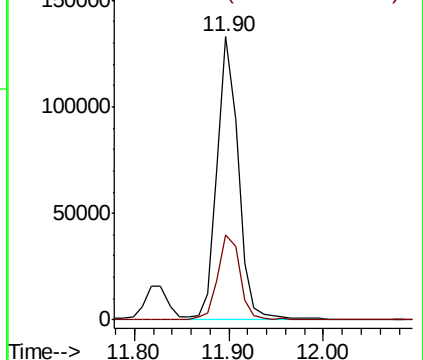
91 100

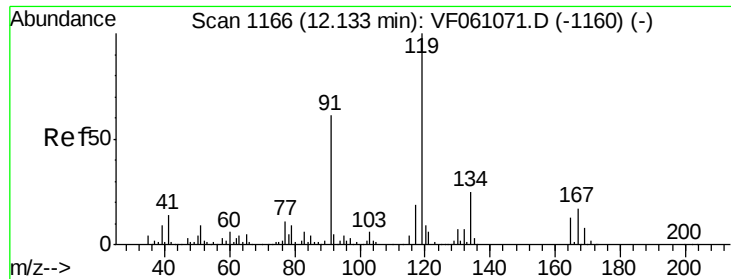
126 30.2 16.0 47.9



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

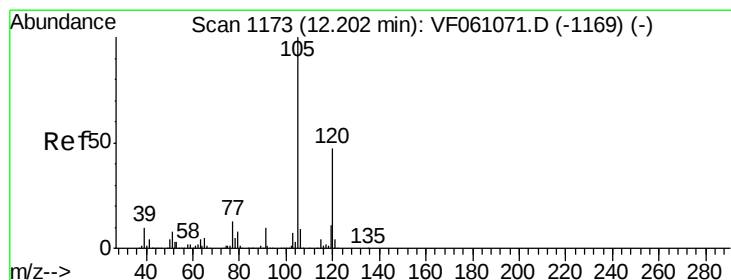
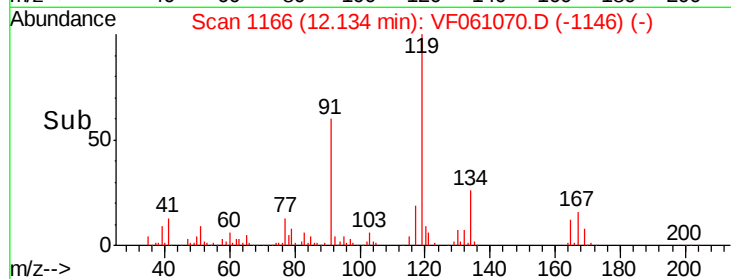
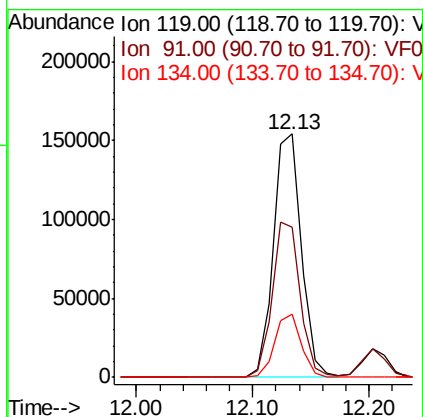
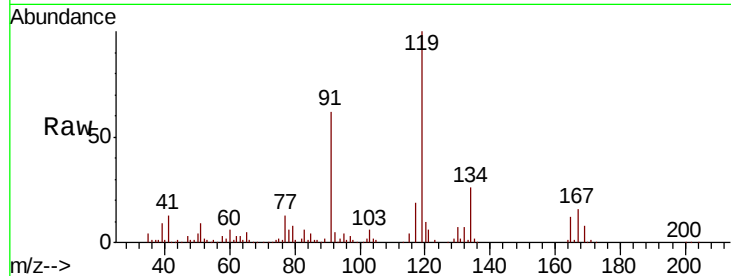




#83
 tert-Butylbenzene
 Concen: 22.760 ug/l
 RT: 12.13 min Scan# 1166
 Delta R.T. 0.00 min
 Lab File: VF061070.D
 Acq: 18 Dec 2018 19:22

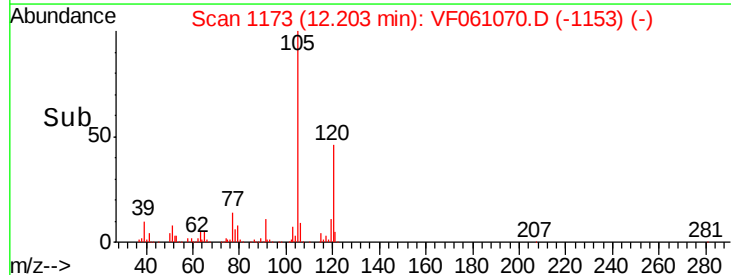
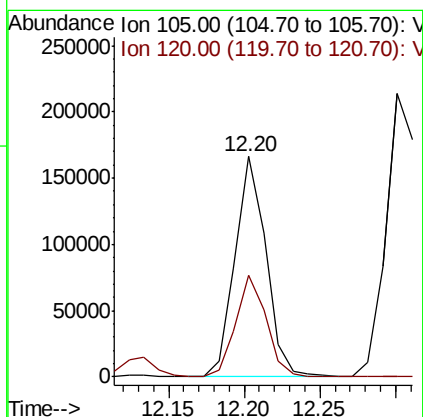
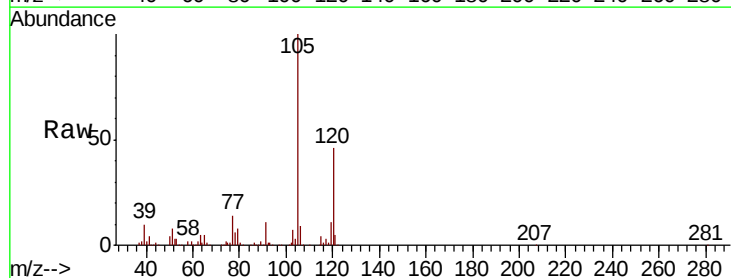
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

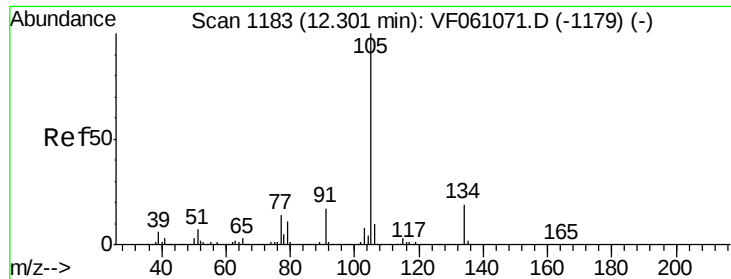
Tgt Ion:119 Resp: 256469
 Ion Ratio Lower Upper
 119 100
 91 61.6 30.5 91.5
 134 25.7 12.4 37.4



#84
 1,2,4-Trimethylbenzene
 Concen: 21.884 ug/l
 RT: 12.20 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VF061070.D
 Acq: 18 Dec 2018 19:22

Tgt Ion:105 Resp: 238317
 Ion Ratio Lower Upper
 105 100
 120 46.0 23.6 71.0

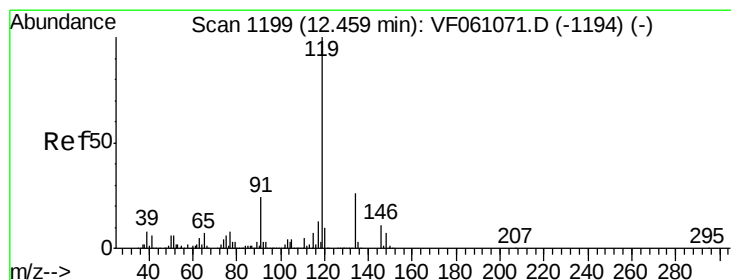
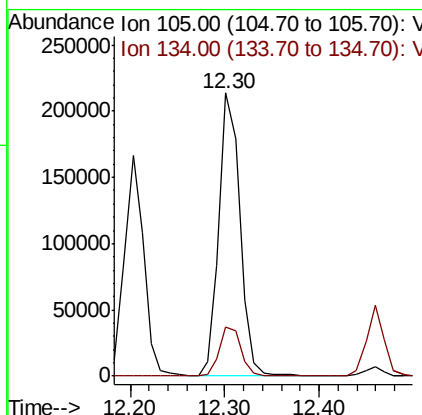
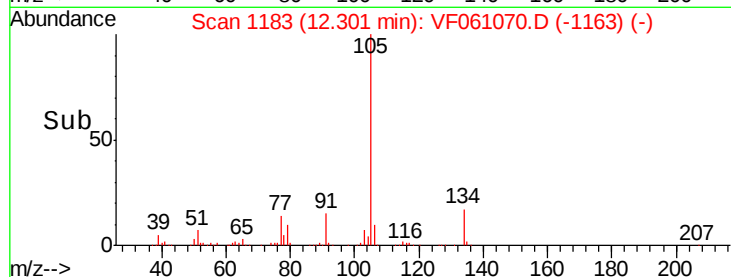
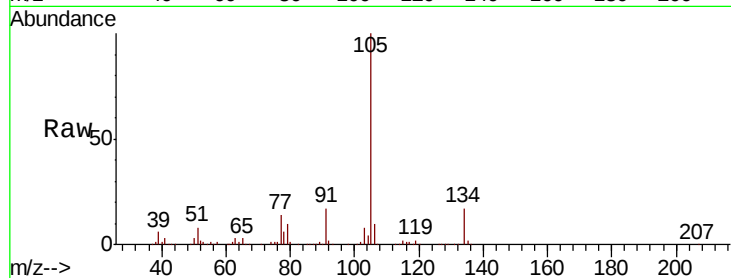




#85
 sec-Butylbenzene
 Concen: 21.704 ug/l
 RT: 12.30 min Scan# 1183
 Delta R.T. 0.00 min
 Lab File: VF061070.D
 Acq: 18 Dec 2018 19:22

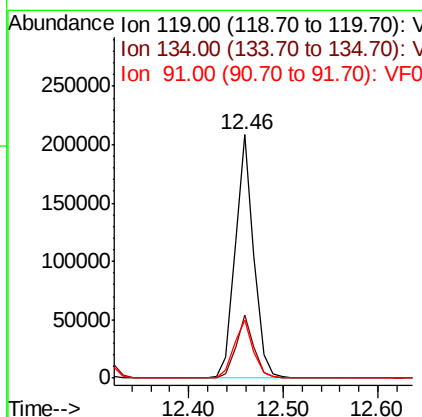
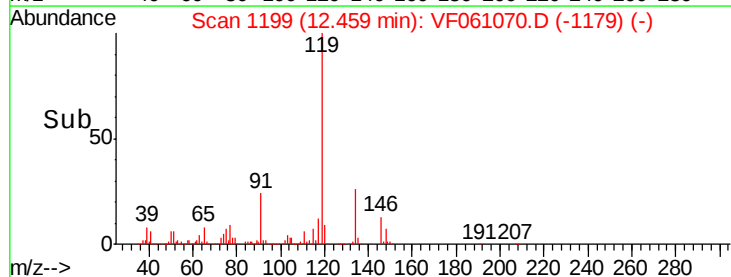
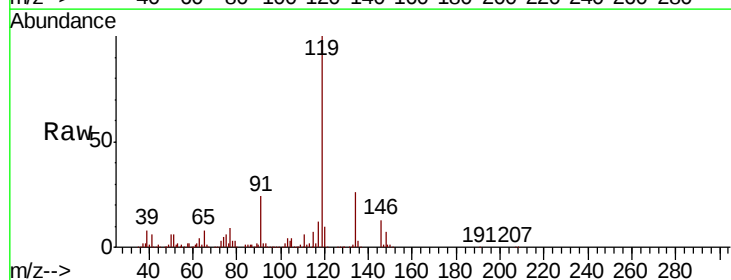
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

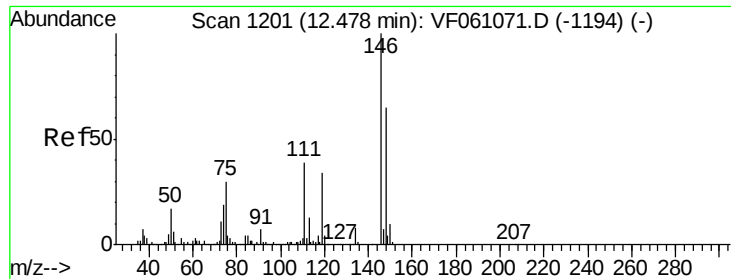
Tgt Ion:105 Resp: 331525
 Ion Ratio Lower Upper
 105 100
 134 17.2 9.4 28.2



#86
 p-Isopropyltoluene
 Concen: 22.083 ug/l
 RT: 12.46 min Scan# 1199
 Delta R.T. 0.00 min
 Lab File: VF061070.D
 Acq: 18 Dec 2018 19:22

Tgt Ion:119 Resp: 283712
 Ion Ratio Lower Upper
 119 100
 134 25.7 12.8 38.4
 91 23.7 12.2 36.6

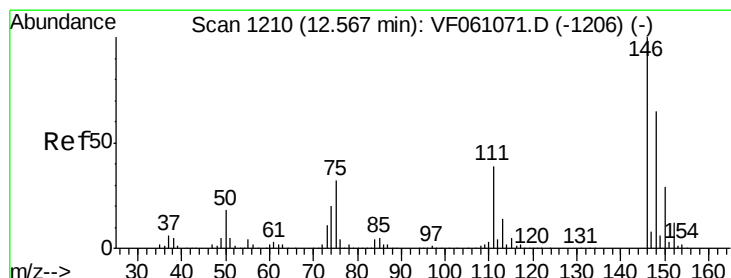
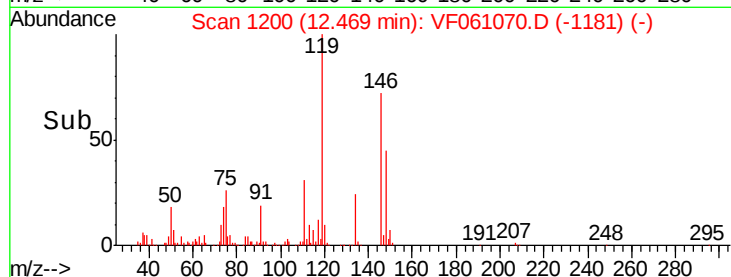
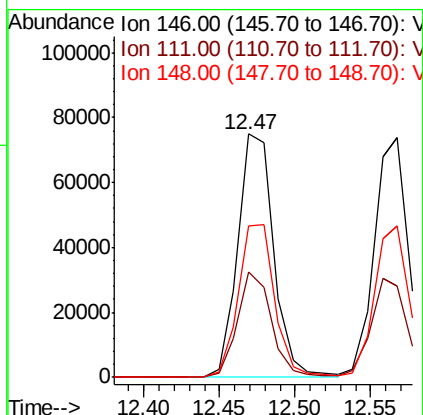
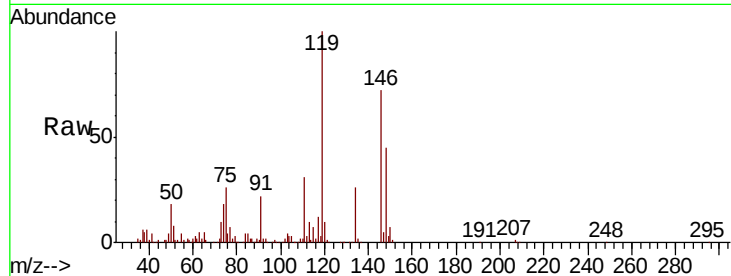




#87
 1,3-Dichlorobenzene
 Concen: 22.273 ug/l
 RT: 12.47 min Scan# 1200
 Delta R.T. -0.01 min
 Lab File: VF061070.D
 Acq: 18 Dec 2018 19:22

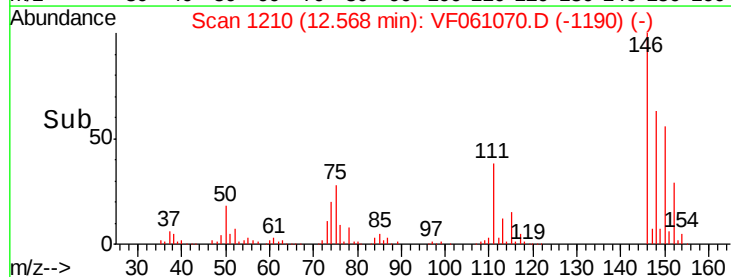
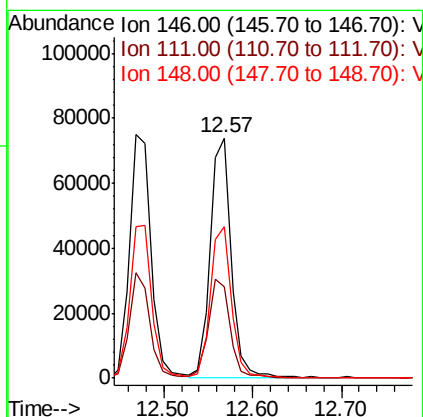
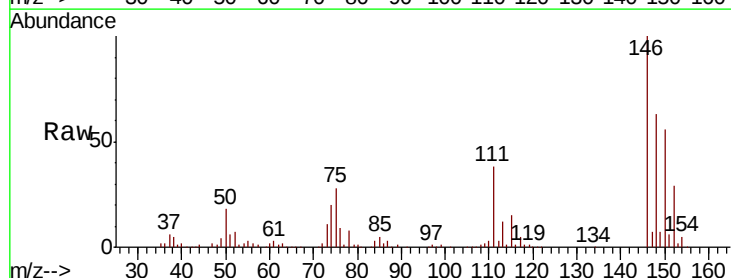
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

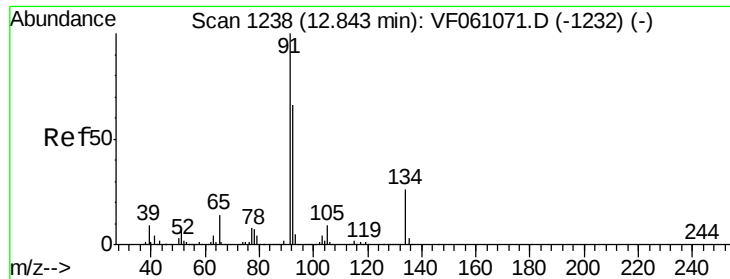
Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.2	19.3	57.9
148	62.4	32.4	97.2



#88
 1,4-Dichlorobenzene
 Concen: 22.073 ug/l
 RT: 12.57 min Scan# 1210
 Delta R.T. 0.00 min
 Lab File: VF061070.D
 Acq: 18 Dec 2018 19:22

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.2	19.4	58.4
148	63.0	32.4	97.0

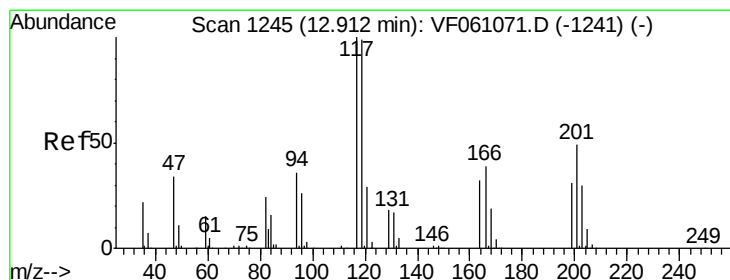
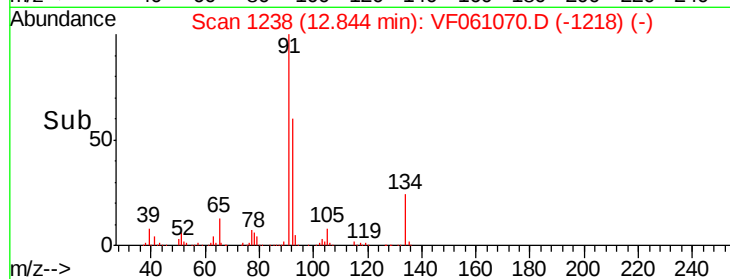
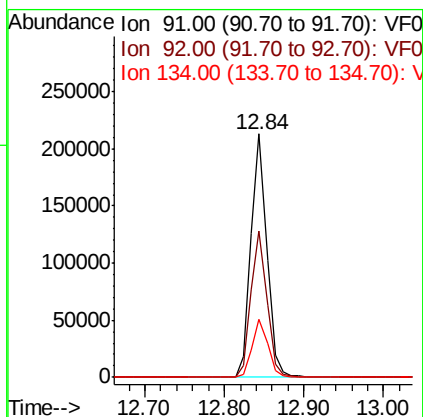
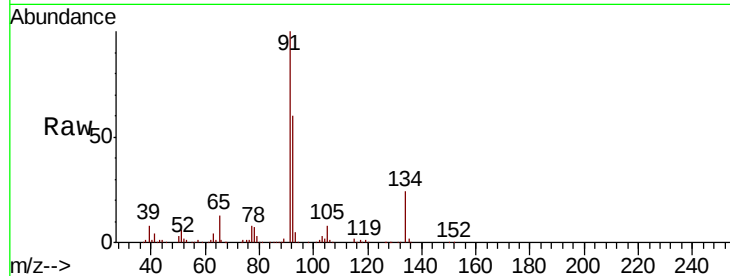




#89
n-Butylbenzene
Concen: 22.411 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. 0.00 min
Lab File: VF061070.D
Acq: 18 Dec 2018 19:22

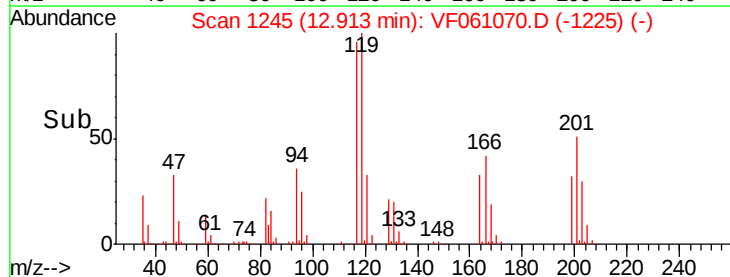
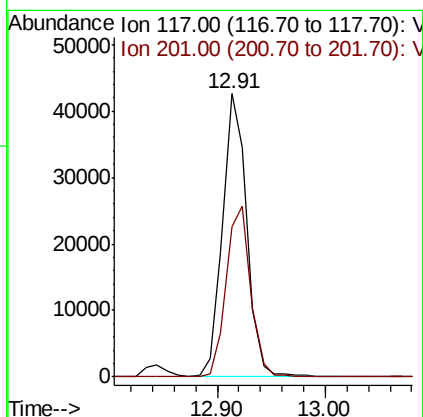
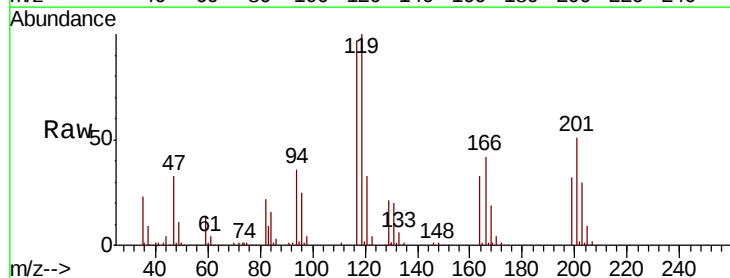
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

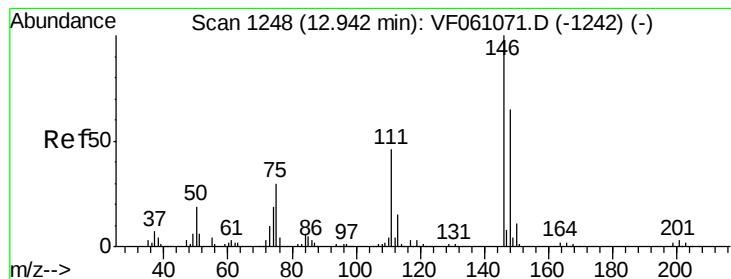
Tgt Ion: 91 Resp: 289778
Ion Ratio Lower Upper
91 100
92 59.9 32.8 98.4
134 23.8 13.2 39.5



#90
Hexachloroethane
Concen: 21.485 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. 0.00 min
Lab File: VF061070.D
Acq: 18 Dec 2018 19:22

Tgt Ion: 117 Resp: 66209
Ion Ratio Lower Upper
117 100
201 52.9 24.9 74.8





#91

1,2-Dichlorobenzene

Concen: 22.453 ug/l

RT: 12.94 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

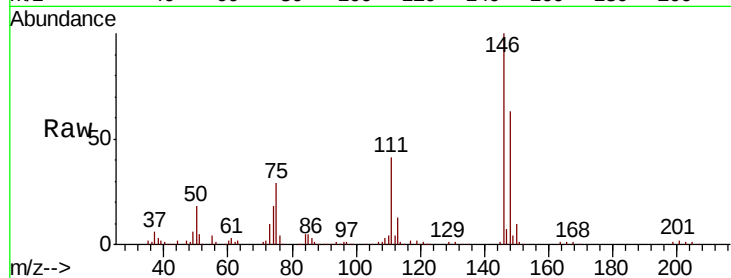
Tgt Ion: 146 Resp: 119318

Ion Ratio Lower Upper

146 100

111 40.7 23.2 69.5

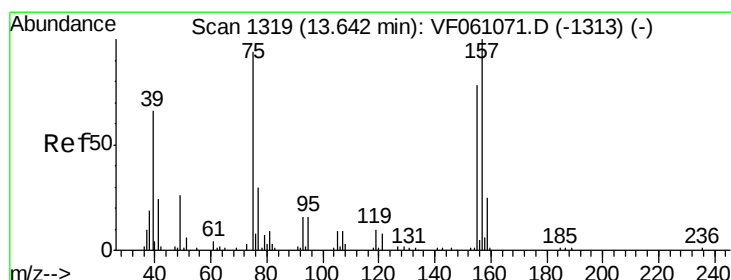
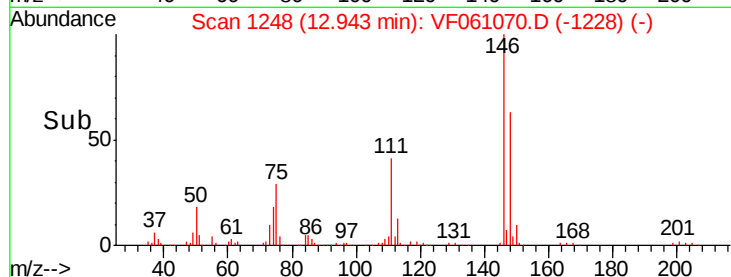
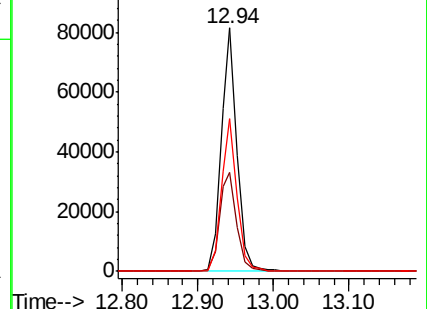
148 62.9 32.4 97.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 21.000 ug/l

RT: 13.64 min Scan# 1319

Delta R.T. 0.00 min

Lab File: VF061070.D

Acq: 18 Dec 2018 19:22

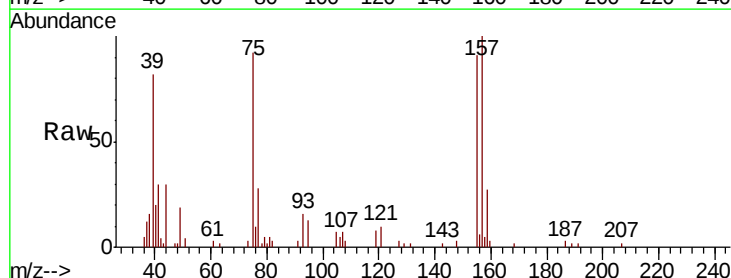
Tgt Ion: 75 Resp: 9043

Ion Ratio Lower Upper

75 100

155 99.0 41.5 124.5

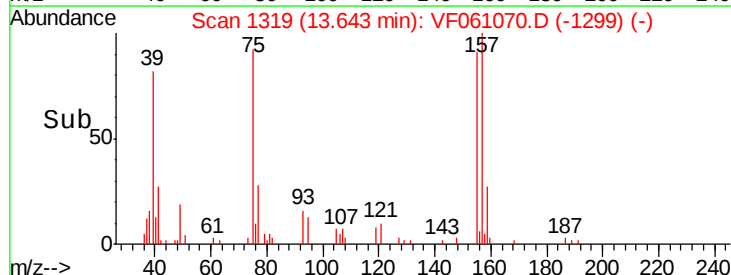
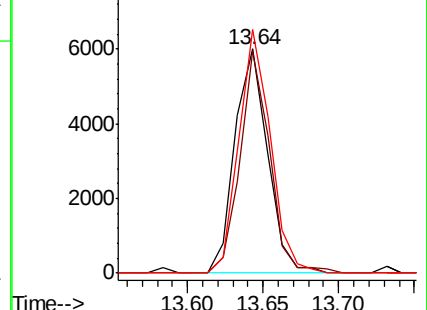
157 108.6 53.2 159.6



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

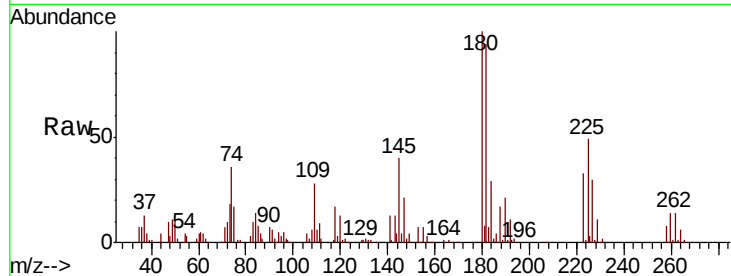




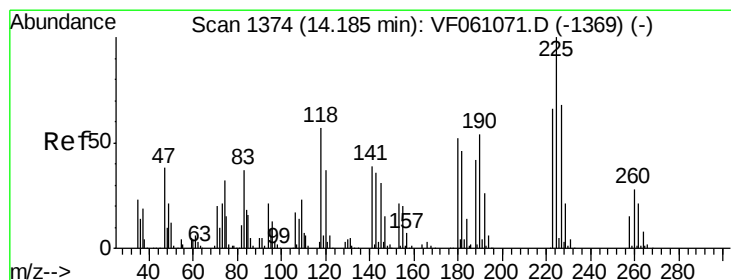
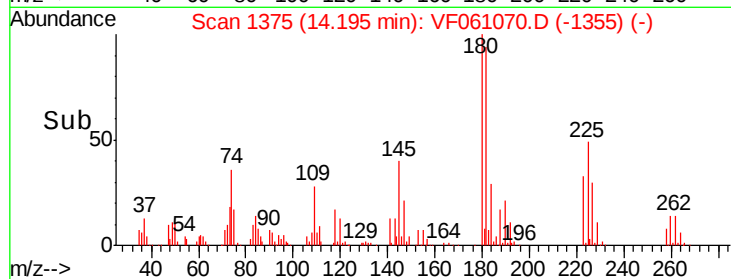
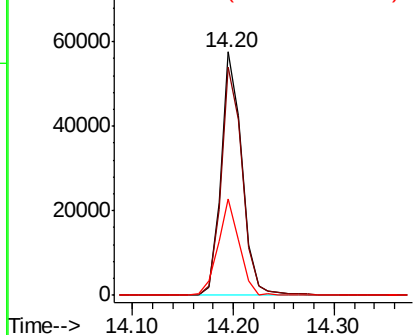
#93
 1,2,4-Trichlorobenzene
 Concen: 22.518 ug/l
 RT: 14.20 min Scan# 1375
 Delta R.T. 0.00 min
 Lab File: VF061070.D
 Acq: 18 Dec 2018 19:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tgt Ion:180 Resp: 83683
 Ion Ratio Lower Upper
 180 100
 182 94.0 46.9 140.6
 145 39.8 20.5 61.6

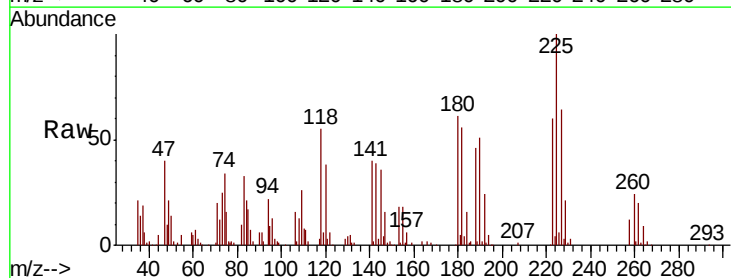


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

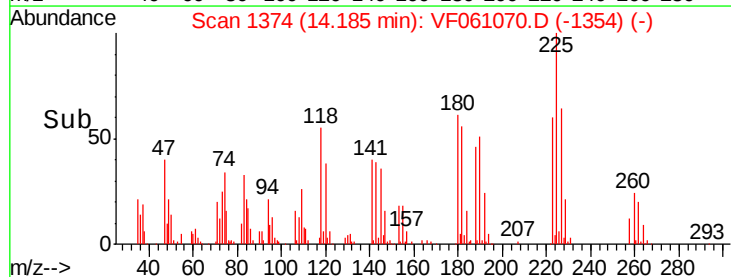
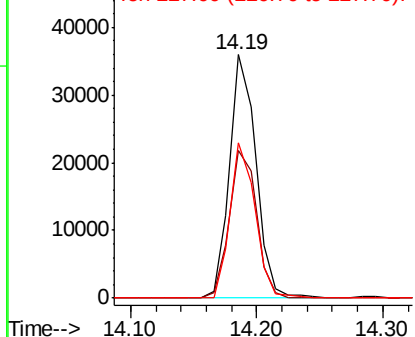


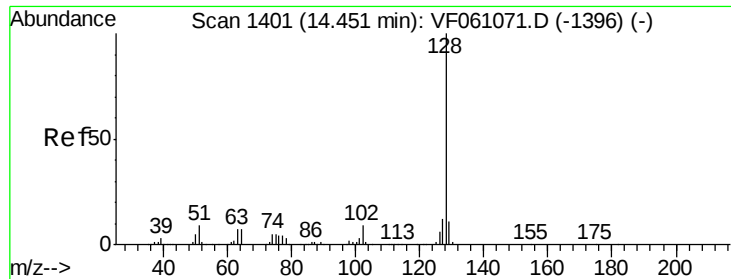
#94
 Hexachlorobutadiene
 Concen: 20.970 ug/l
 RT: 14.19 min Scan# 1374
 Delta R.T. 0.00 min
 Lab File: VF061070.D
 Acq: 18 Dec 2018 19:22

Tgt Ion:225 Resp: 51882
 Ion Ratio Lower Upper
 225 100
 223 60.5 32.8 98.3
 227 63.9 34.0 101.8



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

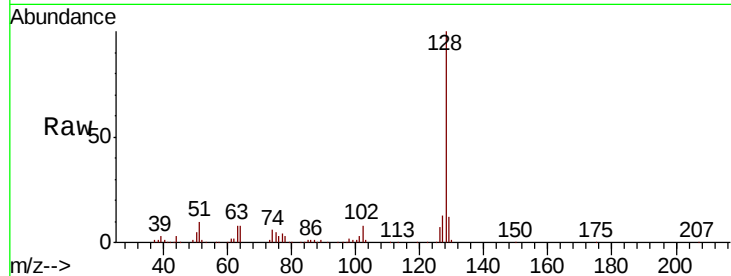




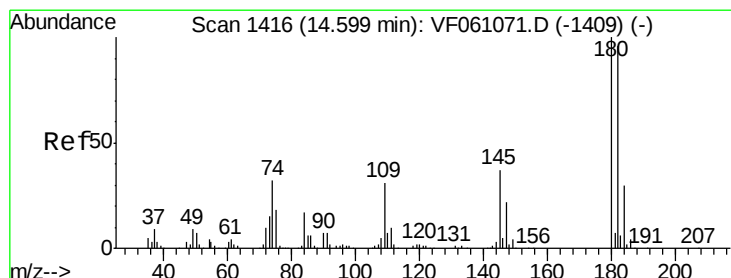
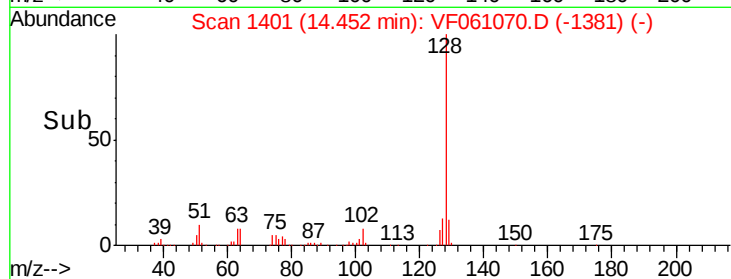
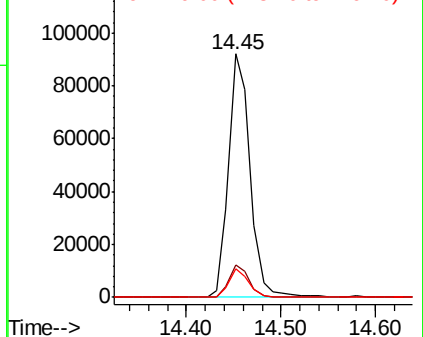
#95
Naphthalene
Concen: 17.915 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. 0.00 min
Lab File: VF061070.D
Acq: 18 Dec 2018 19:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tgt Ion:128 Resp: 146144
Ion Ratio Lower Upper
128 100
127 13.1 9.4 14.2
129 11.6 8.8 13.2

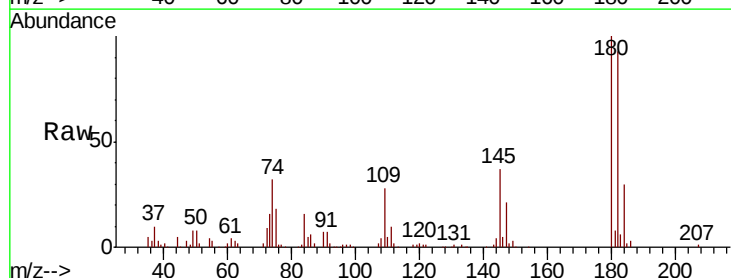


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 21.278 ug/l
RT: 14.60 min Scan# 1416
Delta R.T. 0.00 min
Lab File: VF061070.D
Acq: 18 Dec 2018 19:22

Tgt Ion:180 Resp: 74403
Ion Ratio Lower Upper
180 100
182 93.4 47.9 143.8
145 36.5 18.6 55.8



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

