

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121118\
 Data File : VF060972.D
 Acq On : 11 Dec 2018 12:54
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Quant Time: Dec 12 06:25:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	189253	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.60	114	311096	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.77	117	287136	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.55	152	139737	50.00	ug/l	-0.02

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	112394	50.41	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	100.82%	
35) Dibromofluoromethane	4.11	113	125832	50.99	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	101.98%	
50) Toluene-d8	7.55	98	344797	47.43	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	94.86%	
62) 4-Bromofluorobenzene	11.41	95	157381	47.63	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	95.26%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.96	85	116860	41.297	ug/l	97
3) Chloromethane	1.09	50	78829	42.810	ug/l	98
4) Vinyl Chloride	1.14	62	79124	46.067	ug/l	95
5) Bromomethane	1.33	94	55938	46.187	ug/l	98
6) Chloroethane	1.39	64	38099	51.315	ug/l	96
7) Trichlorofluoromethane	1.48	101	171564	46.555	ug/l	91
8) Diethyl Ether	1.63	74	24694	46.599	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	1.83	101	90708	48.688	ug/l	94
10) Methyl Iodide	1.91	142	113224	39.983	ug/l	97
11) Tert butyl alcohol	2.57	59	21342	233.524	ug/l #	85
12) 1,1-Dichloroethene	1.79	96	69777	46.564	ug/l	98
13) Acrolein	2.01	56	18012	208.015	ug/l	85
14) Allyl chloride	2.10	41	81888	43.843	ug/l	99
15) Acrylonitrile	2.95	53	48728	237.823	ug/l	94
16) Acetone	2.24	43	118930	289.279	ug/l	95
17) Carbon Disulfide	1.82	76	126318	31.439	ug/l	99
18) Methyl Acetate	2.34	43	35712	51.837	ug/l	95
19) Methyl tert-butyl Ether	2.43	73	156298	46.309	ug/l	96
20) Methylene Chloride	2.25	84	47928	31.777	ug/l	98
21) trans-1,2-Dichloroethene	2.30	96	58296	40.352	ug/l	96
22) Diisopropyl ether	2.80	45	255200	50.196	ug/l	99
23) Vinyl Acetate	3.18	43	605632	260.602	ug/l	99
24) 1,1-Dichloroethane	2.87	63	153861	50.866	ug/l	99
25) 2-Butanone	4.34	43	183405	257.916	ug/l	100
26) 2,2-Dichloropropane	3.60	77	94595	48.238	ug/l	94
27) cis-1,2-Dichloroethene	3.48	96	117102	49.789	ug/l	99
28) Bromochloromethane	3.71	49	72268	49.782	ug/l	93
29) Tetrahydrofuran	4.08	42	70209	232.922	ug/l	96
30) Chloroform	3.86	83	226903	48.740	ug/l	98
31) Cyclohexane	3.69	56	83225	26.512	ug/l	94
32) 1,1,1-Trichloroethane	4.09	97	138195	42.803	ug/l	98
36) 1,1-Dichloropropene	4.28	75	162752	47.167	ug/l	97
37) Ethyl Acetate	4.11	43	64224	45.802	ug/l #	97
38) Carbon Tetrachloride	3.98	117	127231	41.746	ug/l	91

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

39) Methylcyclohexane	5.44	83	147591	40.815	ug/l	97
40) Benzene	4.63	78	354923	46.559	ug/l	100
41) Methacrylonitrile	4.74	41	34690	47.596	ug/l	95
42) 1,2-Dichloroethane	4.94	62	130268	46.808	ug/l	99
43) Isopropyl Acetate	6.96	43	76392	43.819	ug/l #	95
44) Trichloroethene	5.50	130	112932	45.309	ug/l	99
45) 1,2-Dichloropropane	6.23	63	100824	50.926	ug/l	96
46) Dibromomethane	6.08	93	62502	46.538	ug/l	94
47) Bromodichloromethane	6.39	83	168320	47.187	ug/l	99
48) Methyl methacrylate	6.71	41	53751	42.348	ug/l	96
49) 1,4-Dioxane	6.70	88	8757	942.699	ug/l #	88
51) 4-Methyl-2-Pentanone	8.26	43	293615	227.068	ug/l	98
52) Toluene	7.62	92	229147	42.795	ug/l	94
53) t-1,3-Dichloropropene	8.28	75	134093	46.215	ug/l	97
54) cis-1,3-Dichloropropene	7.30	75	175369	48.822	ug/l	97
55) 1,1,2-Trichloroethane	8.49	97	74427	47.702	ug/l	96
56) Ethyl methacrylate	8.62	69	80193	46.268	ug/l	96
57) 1,3-Dichloropropane	8.85	76	129244	47.347	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.30	63	67497	380.728	ug/l	94
59) 2-Hexanone	9.50	43	218310	240.650	ug/l	97
60) Dibromochloromethane	8.72	129	100299	43.145	ug/l	93
61) 1,2-Dibromoethane	8.98	107	77460	45.957	ug/l	95
64) Tetrachloroethene	8.15	164	99264	45.261	ug/l	96
65) Chlorobenzene	9.80	112	264570	47.364	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.93	131	108585	45.218	ug/l	96
67) Ethyl Benzene	9.90	91	483758	46.519	ug/l	98
68) m/p-Xylenes	10.13	106	337153	90.143	ug/l	100
69) o-Xylene	10.72	106	195946	47.509	ug/l	96
70) Styrene	10.79	104	263452	46.080	ug/l	98
71) Bromoform	10.78	173	51574	44.463	ug/l	96
73) Isopropylbenzene	11.12	105	580894	52.604	ug/l	100
74) N-amyl acetate	11.37	43	122314	47.967	ug/l	94
75) 1,1,2,2-Tetrachloroethane	11.69	83	93309	51.342	ug/l	99
76) 1,2,3-Trichloropropane	11.79	75	65455	49.549	ug/l	94
77) Bromobenzene	11.50	156	116115	47.962	ug/l	87
78) n-propylbenzene	11.60	91	663861	51.335	ug/l	97
79) 2-Chlorotoluene	11.71	91	381537	51.455	ug/l	97
80) 1,3,5-Trimethylbenzene	11.82	105	446774	49.837	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.87	75	42879	66.249	ug/l	93
82) 4-Chlorotoluene	11.90	91	390124	49.994	ug/l	92
83) tert-Butylbenzene	12.13	119	468410	51.295	ug/l	100
84) 1,2,4-Trimethylbenzene	12.21	105	450518	50.354	ug/l	99
85) sec-Butylbenzene	12.31	105	624239	49.936	ug/l	100
86) p-Isopropyltoluene	12.46	119	518529	49.475	ug/l	99
87) 1,3-Dichlorobenzene	12.47	146	222282	48.269	ug/l	98
88) 1,4-Dichlorobenzene	12.56	146	211075	47.033	ug/l	97
89) n-Butylbenzene	12.85	91	534231	50.411	ug/l	100
90) Hexachloroethane	12.92	117	125562	49.752	ug/l	91
91) 1,2-Dichlorobenzene	12.95	146	209853	48.120	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.65	75	17061	48.555	ug/l	98

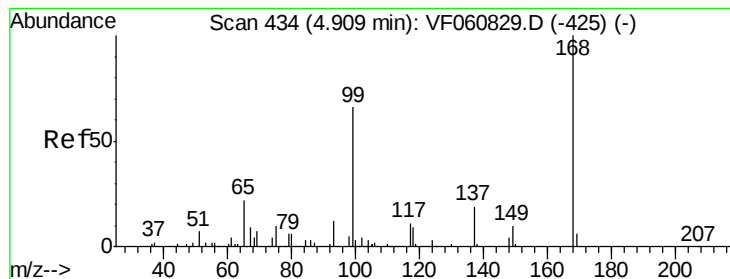
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	151872	49.841	ug/l	98
94) Hexachlorobutadiene	14.19	225	104711	51.549	ug/l	96
95) Naphthalene	14.46	128	267955	44.953	ug/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	138560	48.973	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.04 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

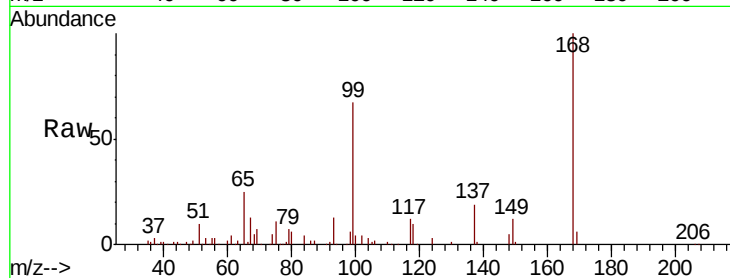
VSTDCCC050

Tot Ion:168 Resp: 189253

Ion Ratio Lower Upper

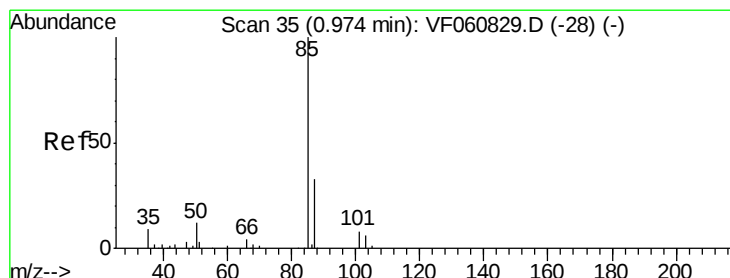
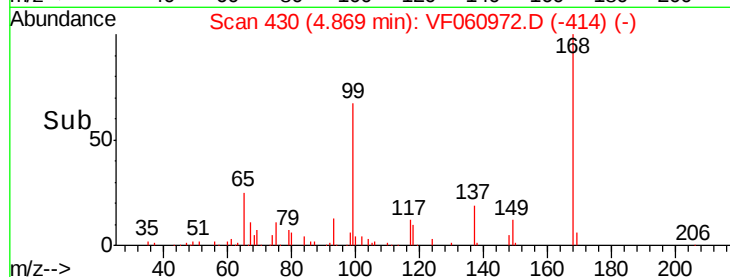
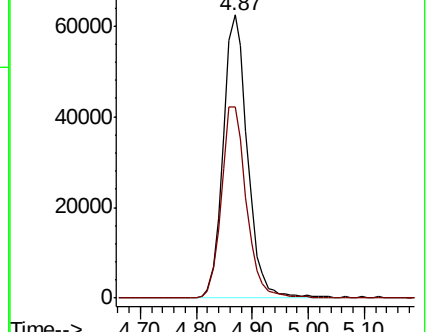
168 100

99 67.4 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 41.297 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.01 min

Lab File: VF060972.D

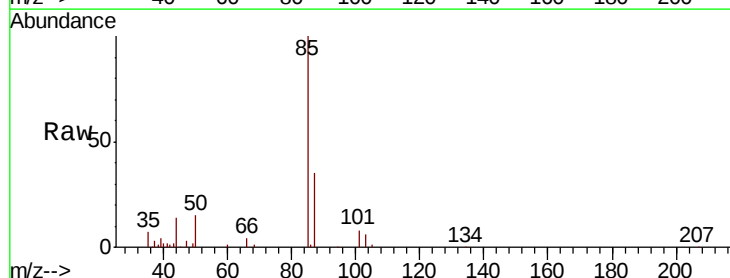
Acq: 11 Dec 2018 12:54

Tgt Ion: 85 Resp: 116860

Ion Ratio Lower Upper

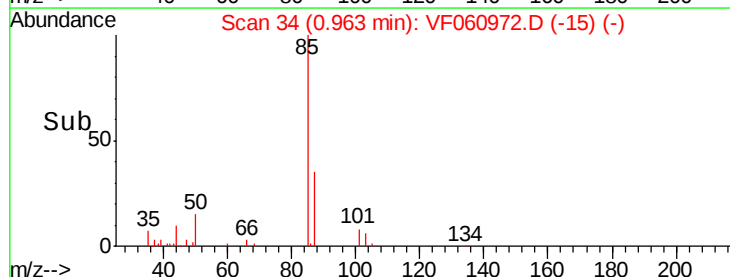
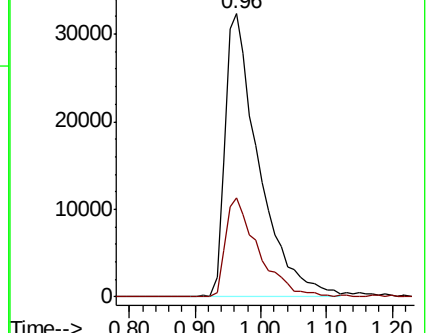
85 100

87 35.2 16.7 50.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 42.810 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

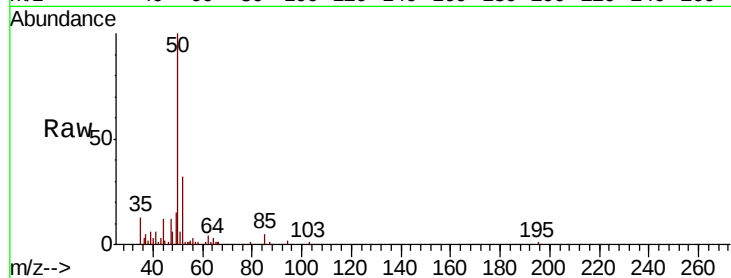
VSTDCCC050

Tot Ion: 50 Resp: 78829

Ion Ratio Lower Upper

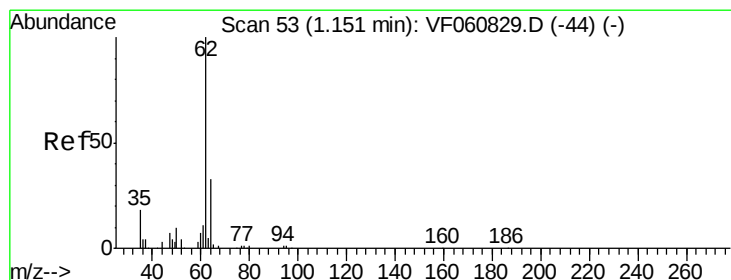
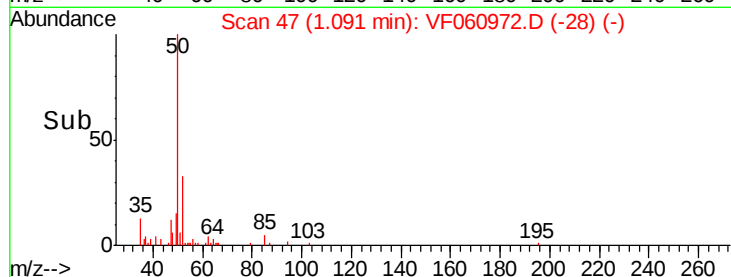
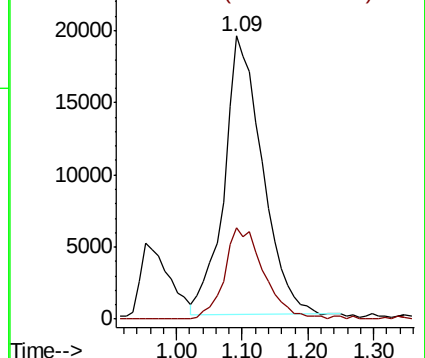
50 100

52 32.4 27.0 40.4



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 46.067 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.01 min

Lab File: VF060972.D

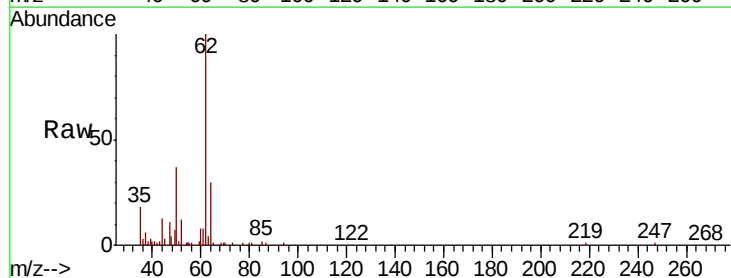
Acq: 11 Dec 2018 12:54

Tgt Ion: 62 Resp: 79124

Ion Ratio Lower Upper

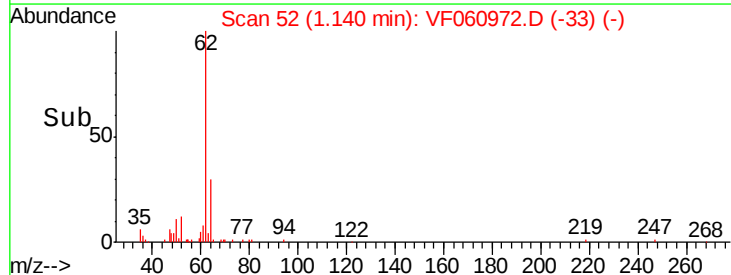
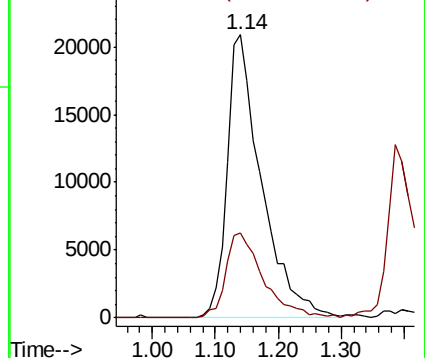
62 100

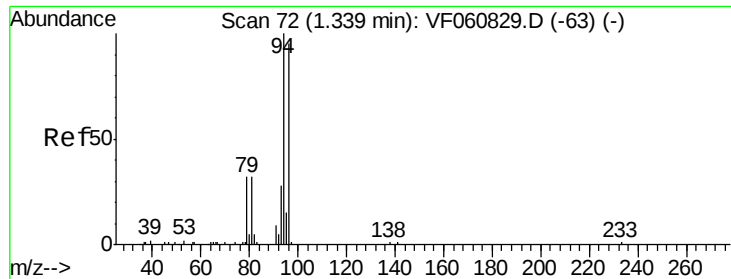
64 30.2 26.4 39.6



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 46.187 ug/l

RT: 1.33 min Scan# 71

Delta R.T. -0.01 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

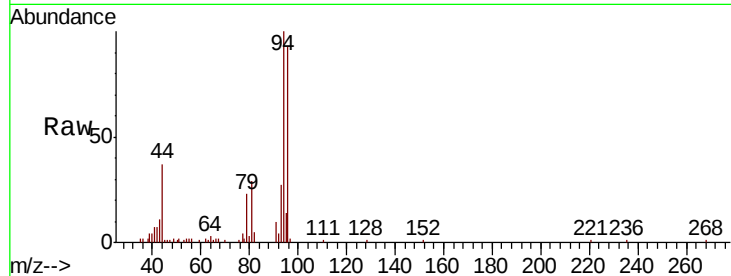
VSTDCCC050

Tot Ion: 94 Resp: 55938

Ion Ratio Lower Upper

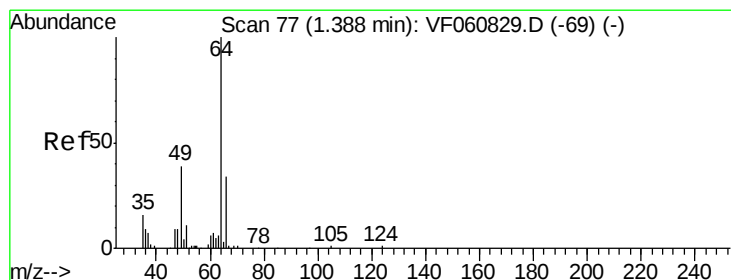
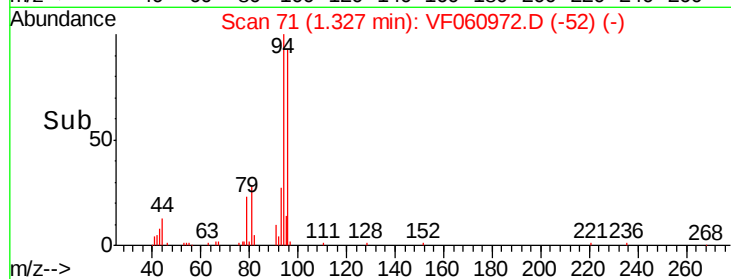
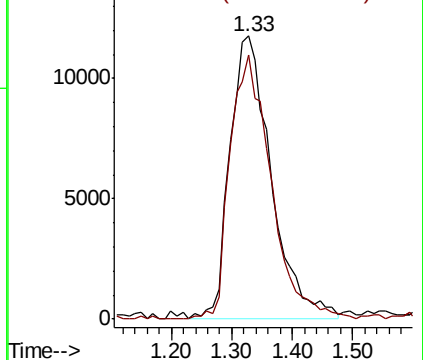
94 100

96 93.2 75.9 113.9



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 51.315 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.00 min

Lab File: VF060972.D

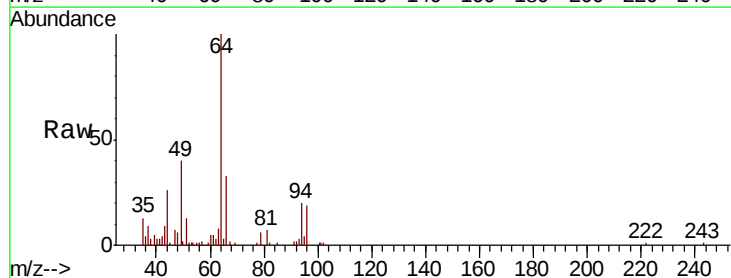
Acq: 11 Dec 2018 12:54

Tgt Ion: 64 Resp: 38099

Ion Ratio Lower Upper

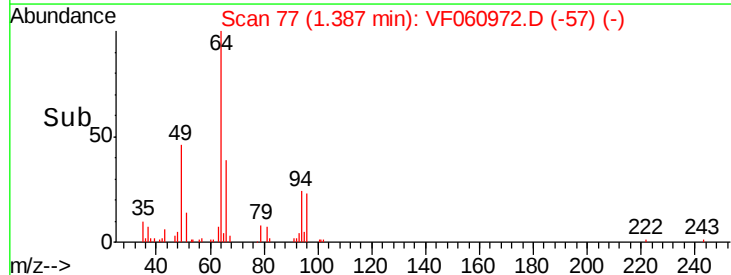
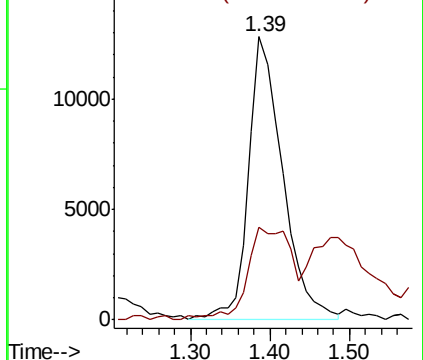
64 100

66 32.6 28.1 42.1



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

Trichlorofluoromethane

Concen: 46.555 ug/l

RT: 1.48 min Scan# 86

Delta R.T. -0.02 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

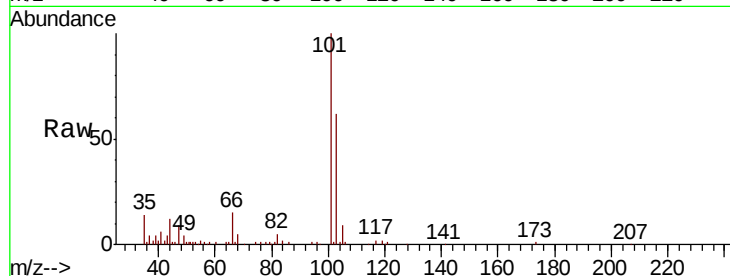
VSTDCCC050

Tot Ion:101 Resp: 171564

Ion Ratio Lower Upper

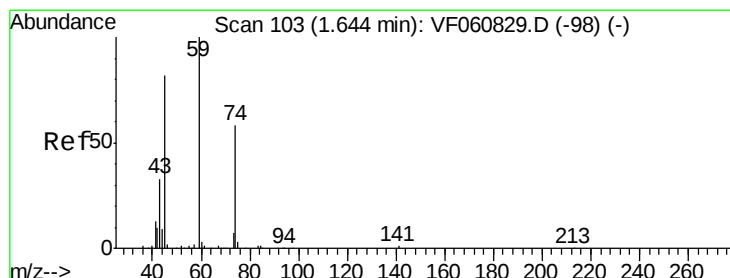
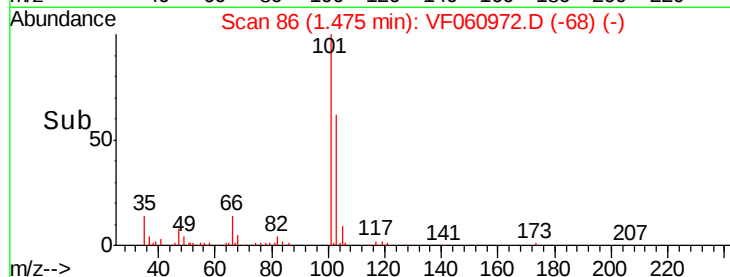
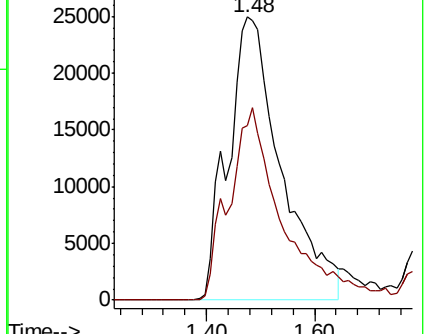
101 100

103 61.6 55.4 83.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 46.599 ug/l

RT: 1.63 min Scan# 102

Delta R.T. -0.01 min

Lab File: VF060972.D

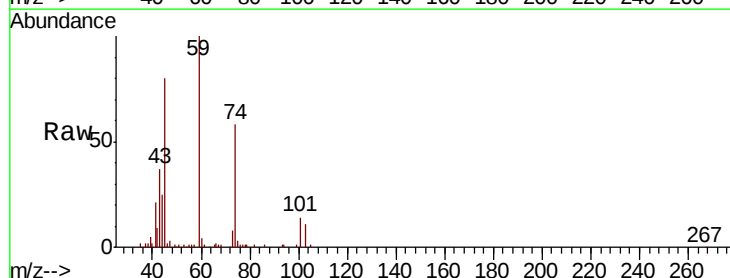
Acq: 11 Dec 2018 12:54

Tgt Ion: 74 Resp: 24694

Ion Ratio Lower Upper

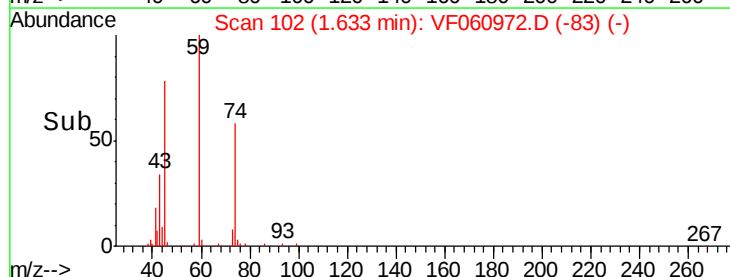
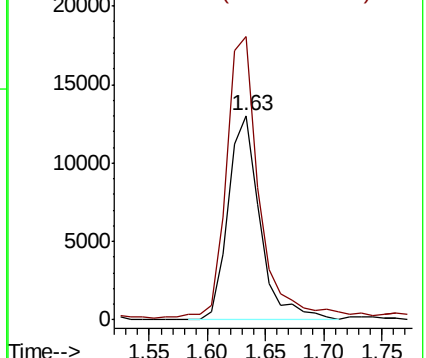
74 100

45 138.8 71.0 212.8



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: 48.688 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.00 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

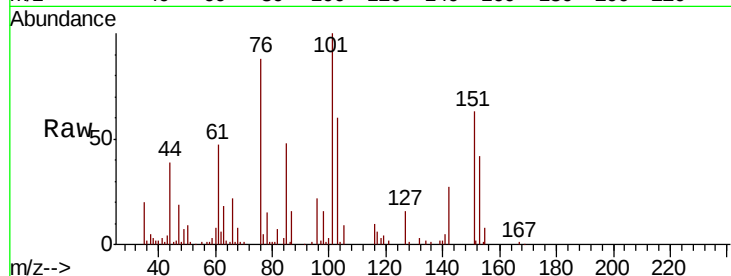
Tot Ion:101 Resp: 90708

Ion Ratio Lower Upper

101 100

85 47.7 42.8 64.2

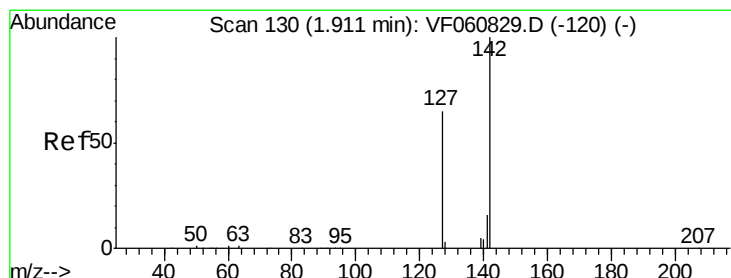
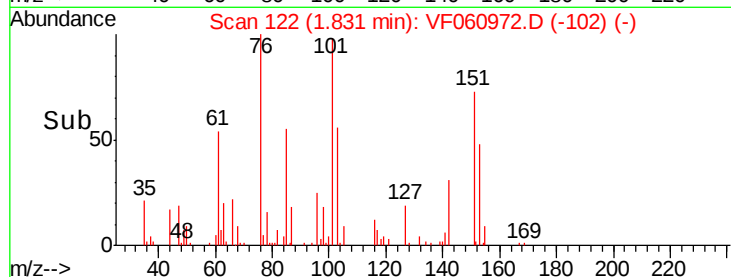
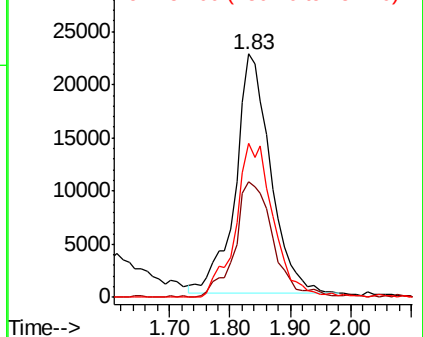
151 65.2 54.4 81.6



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: 39.983 ug/l

RT: 1.91 min Scan# 130

Delta R.T. -0.00 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

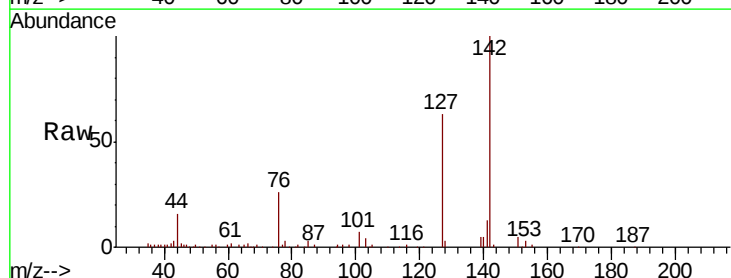
Tgt Ion:142 Resp: 113224

Ion Ratio Lower Upper

142 100

127 63.0 51.9 77.9

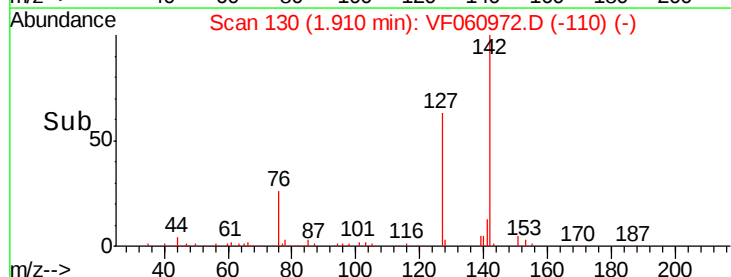
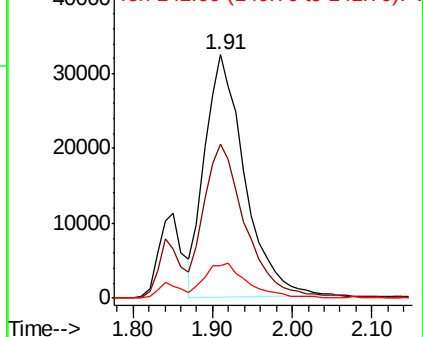
141 13.4 12.7 19.1

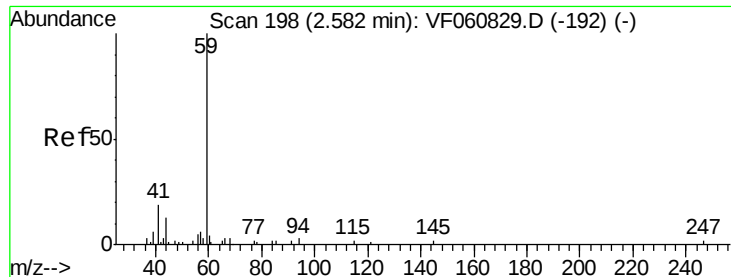


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

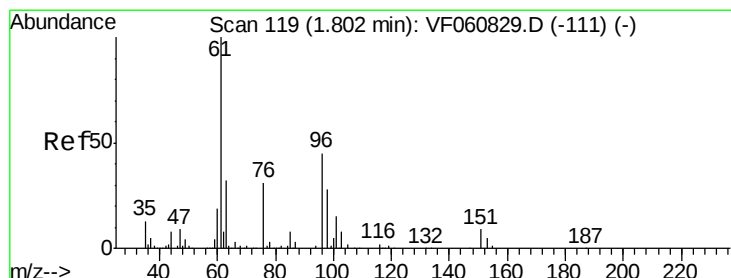
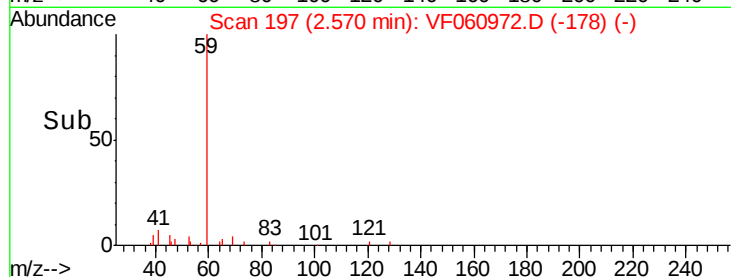
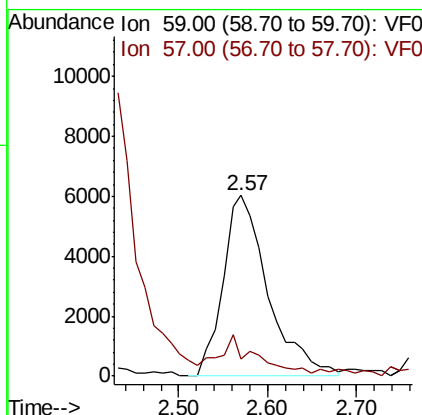
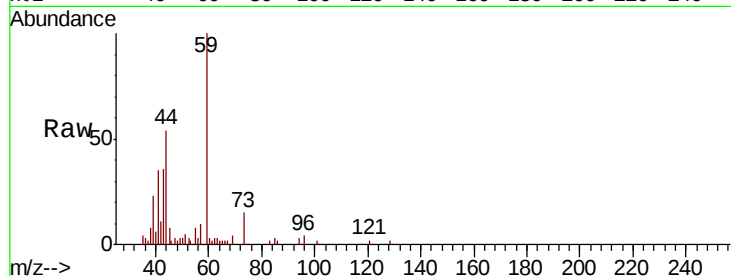




#11
Tert butyl alcohol
Concen: 233.524 ug/l
RT: 2.57 min Scan# 197
Delta R.T. -0.01 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

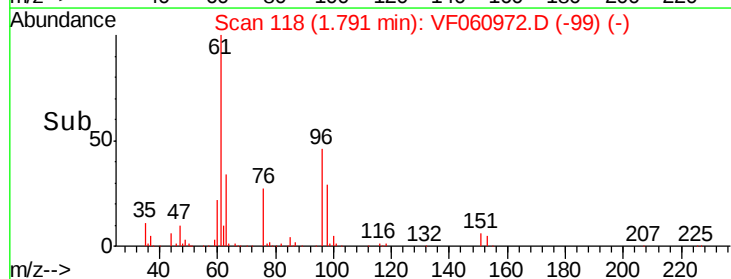
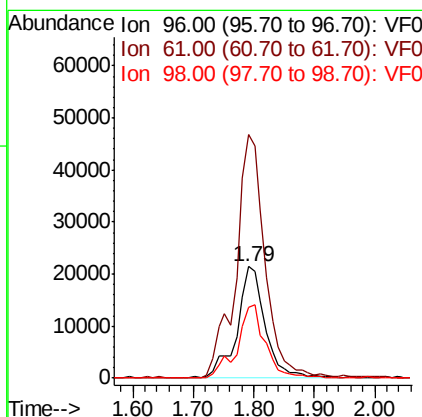
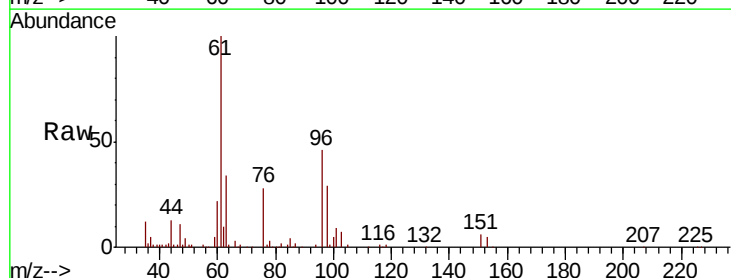
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

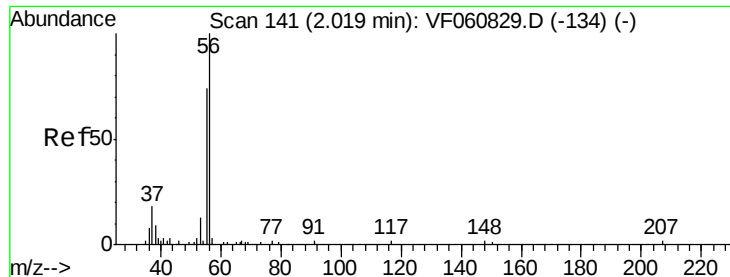
Tot Ion: 59 Resp: 21342
Ion Ratio Lower Upper
59 100
57 9.6 12.7 19.1#



#12
1,1-Dichloroethene
Concen: 46.564 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.01 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Tgt Ion: 96 Resp: 69777
Ion Ratio Lower Upper
96 100
61 218.2 177.3 265.9
98 63.2 49.6 74.4





#13

Acrolein

Concen: 208.015 ug/l

RT: 2.01 min Scan# 140

Delta R.T. -0.01 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

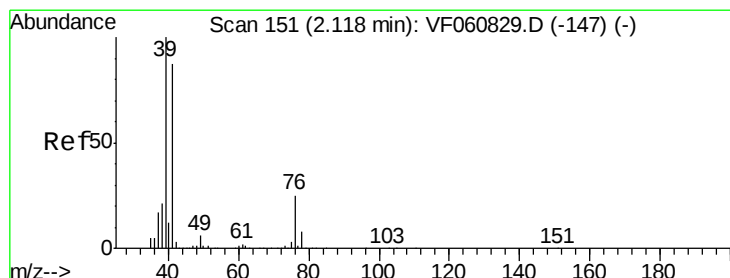
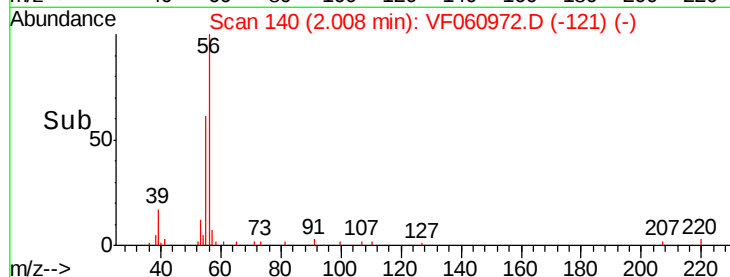
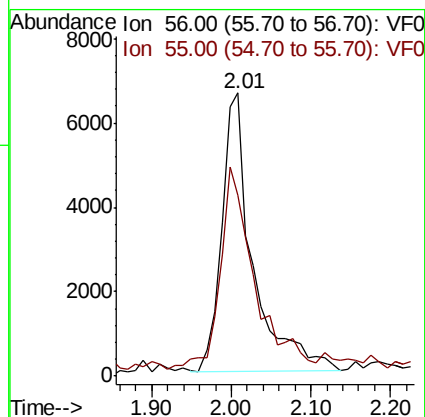
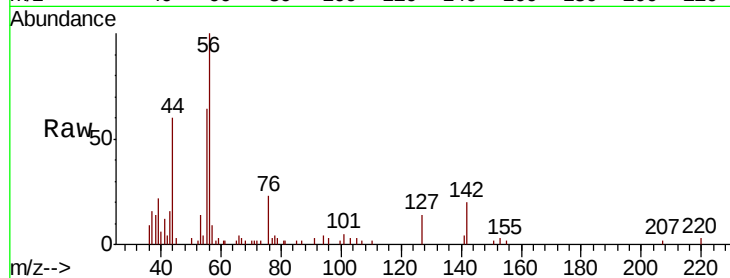
VSTDCCC050

Tot Ion: 56 Resp: 18012

Ion Ratio Lower Upper

56 100

55 64.0 61.2 91.8



#14

Allyl chloride

Concen: 43.843 ug/l

RT: 2.10 min Scan# 149

Delta R.T. -0.02 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

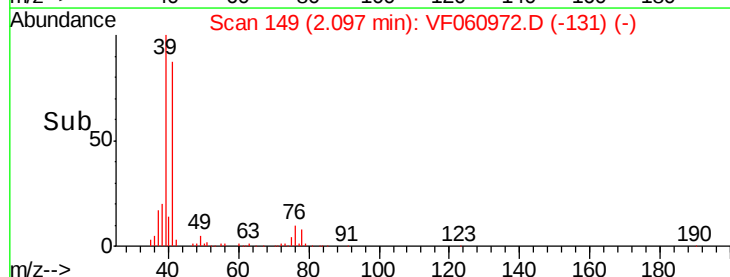
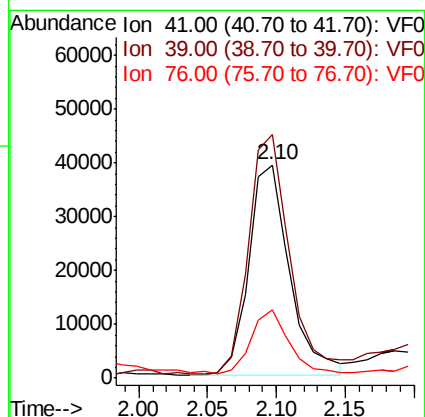
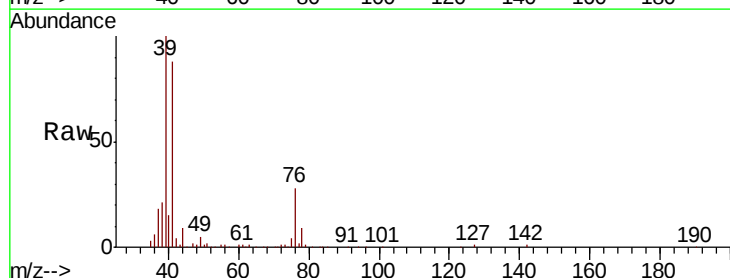
Tgt Ion: 41 Resp: 81888

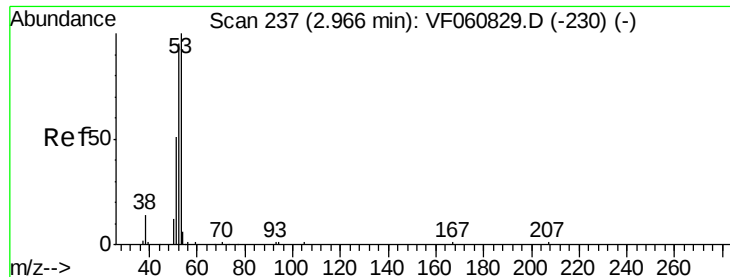
Ion Ratio Lower Upper

41 100

39 114.0 91.7 137.5

76 31.9 23.5 35.3





#15

Acrylonitrile

Concen: 237.823 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.02 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

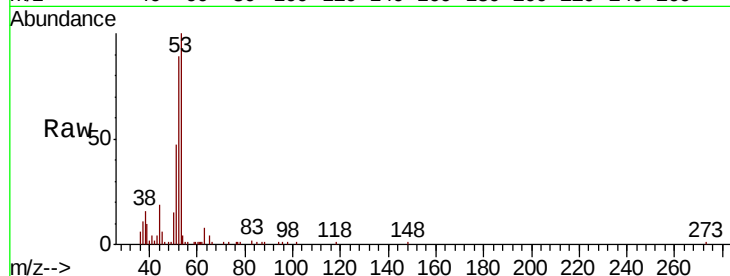
Tot Ion: 53 Resp: 48728

Ion Ratio Lower Upper

53 100

52 89.1 76.5 114.7

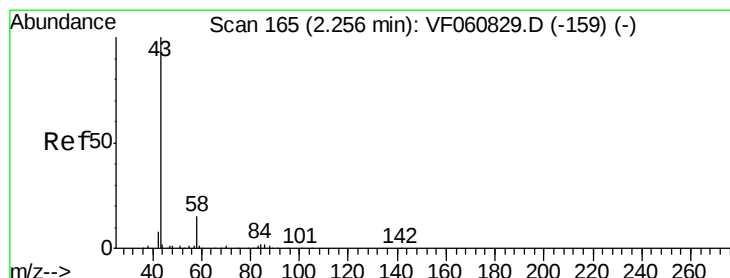
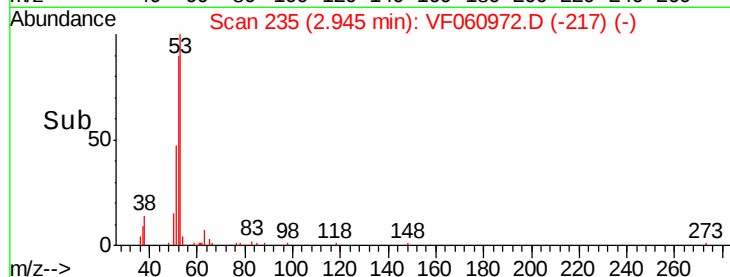
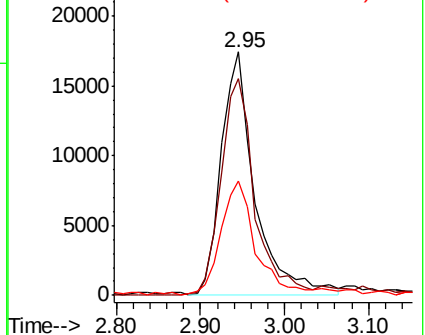
51 47.0 40.7 61.1



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: 289.279 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.02 min

Lab File: VF060972.D

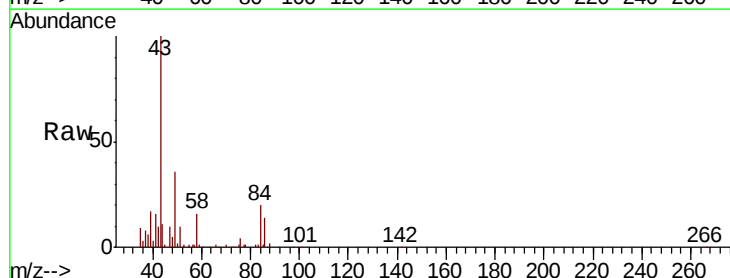
Acq: 11 Dec 2018 12:54

Tgt Ion: 43 Resp: 118930

Ion Ratio Lower Upper

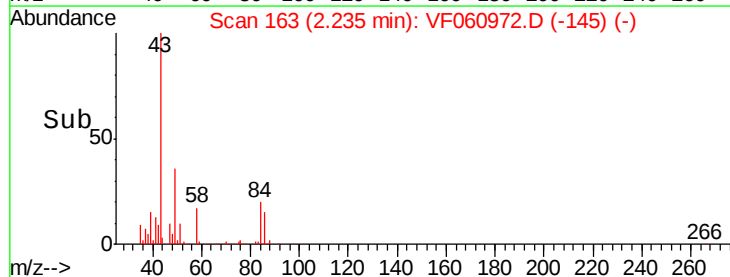
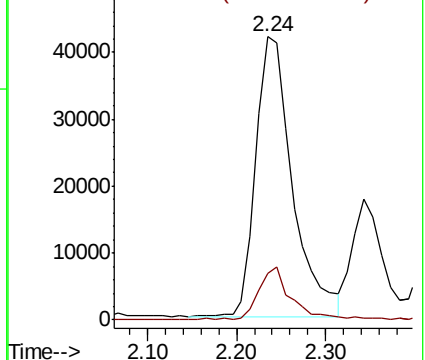
43 100

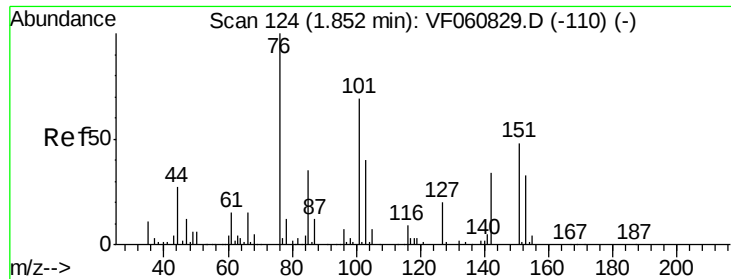
58 16.4 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

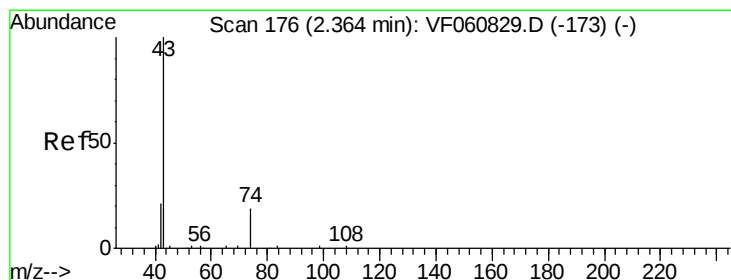
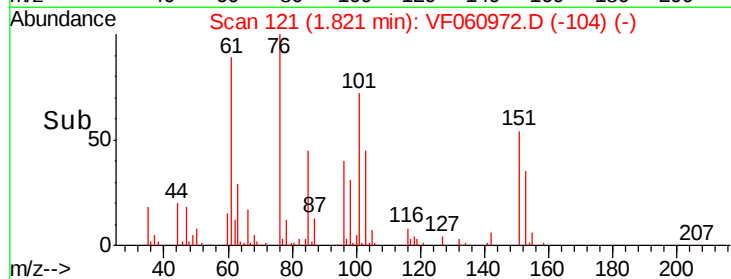
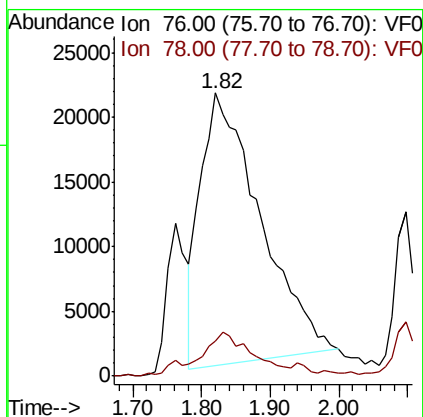
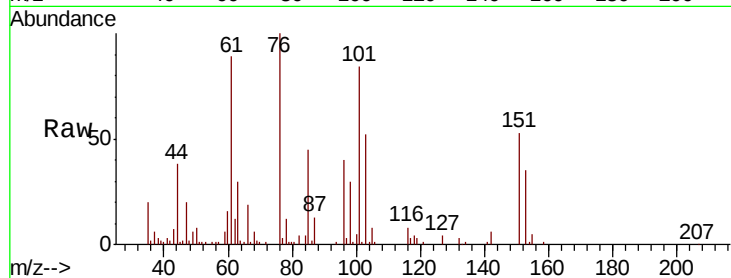




#17
Carbon Disulfide
Concen: 31.439 ug/l
RT: 1.82 min Scan# 121
Delta R.T. -0.03 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

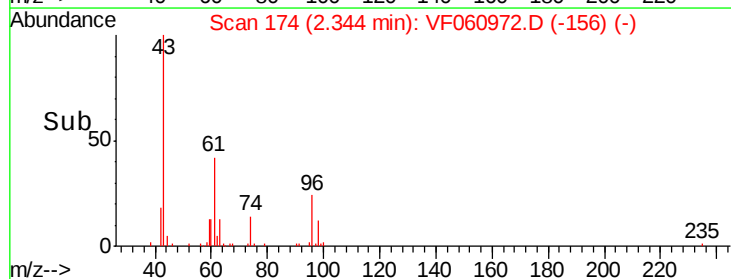
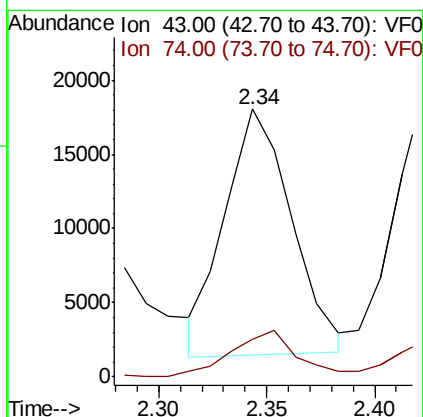
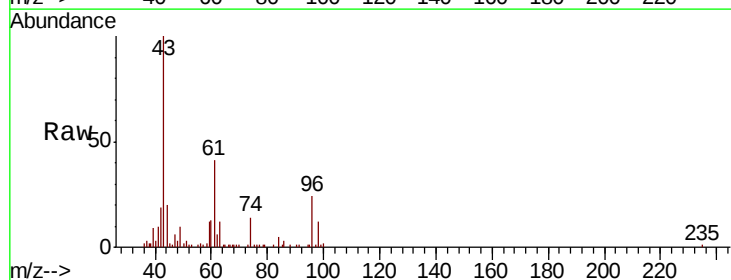
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

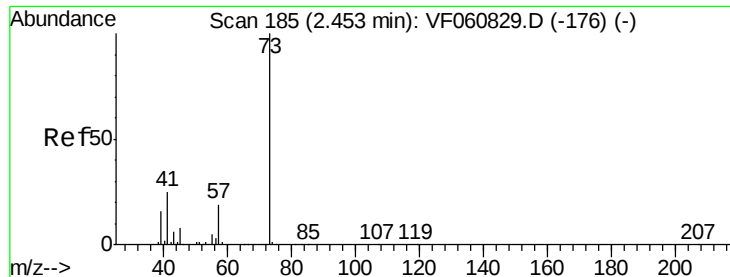
Tot Ion: 76 Resp: 126318
Ion Ratio Lower Upper
76 100
78 12.3 10.2 15.2



#18
Methyl Acetate
Concen: 51.837 ug/l
RT: 2.34 min Scan# 174
Delta R.T. -0.02 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Tgt Ion: 43 Resp: 35712
Ion Ratio Lower Upper
43 100
74 14.3 13.3 19.9



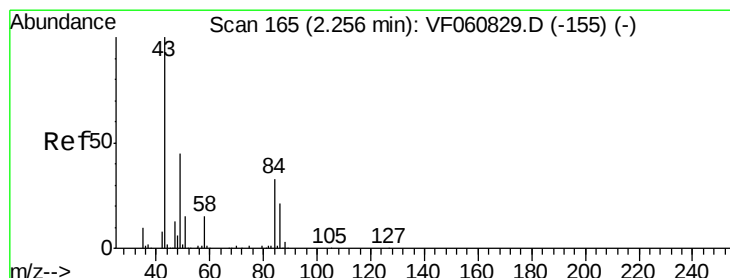
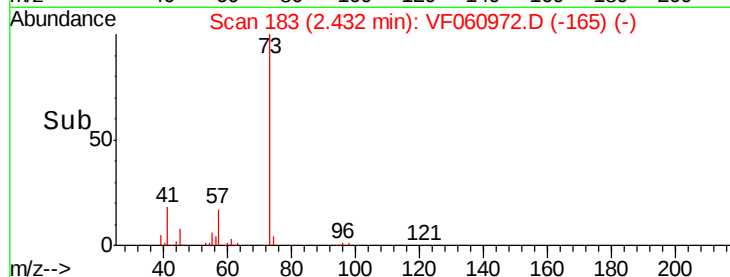
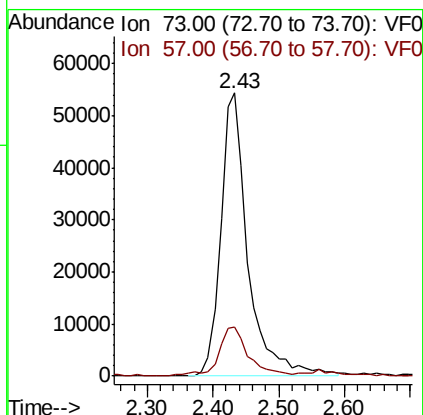
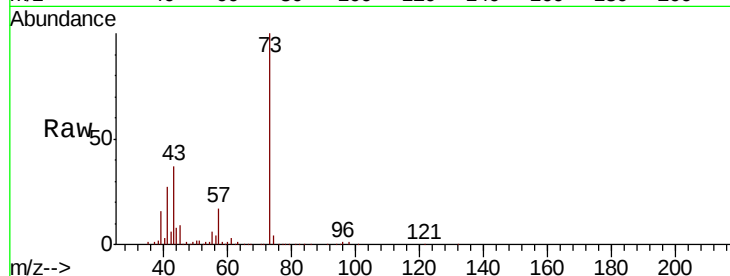


#19

Methyl tert-butyl Ether
 Concen: 46.309 ug/l
 RT: 2.43 min Scan# 183
 Delta R.T. -0.02 min
 Lab File: VF060972.D
 Acq: 11 Dec 2018 12:54

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

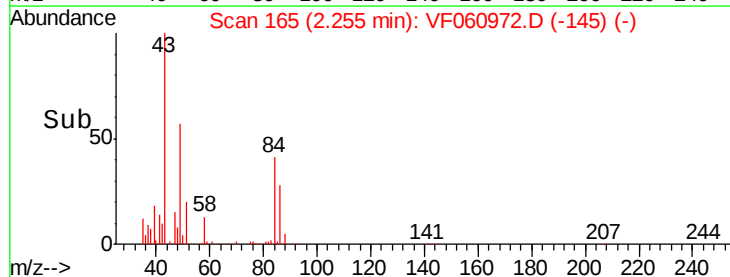
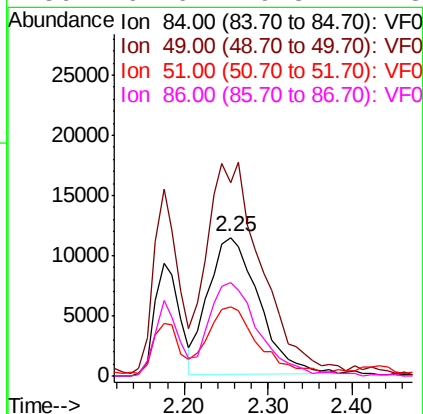
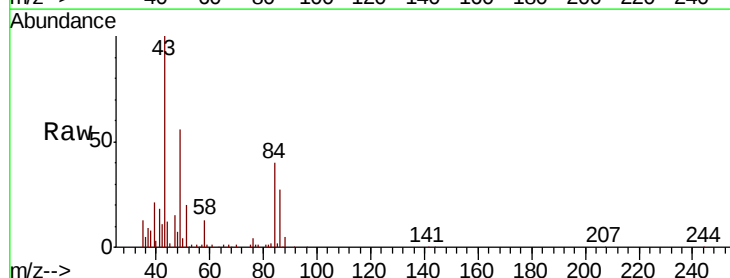
Tot Ion: 73 Resp: 156298
 Ion Ratio Lower Upper
 73 100
 57 17.4 15.3 22.9

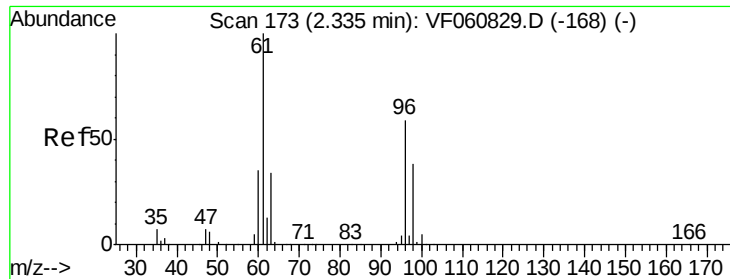


#20

Methylene Chloride
 Concen: 31.777 ug/l
 RT: 2.25 min Scan# 165
 Delta R.T. -0.00 min
 Lab File: VF060972.D
 Acq: 11 Dec 2018 12:54

Tgt Ion: 84 Resp: 47928
 Ion Ratio Lower Upper
 84 100
 49 139.4 111.3 166.9
 51 49.5 38.0 57.0
 86 67.6 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 40.352 ug/l

RT: 2.30 min Scan# 170

Delta R.T. -0.03 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

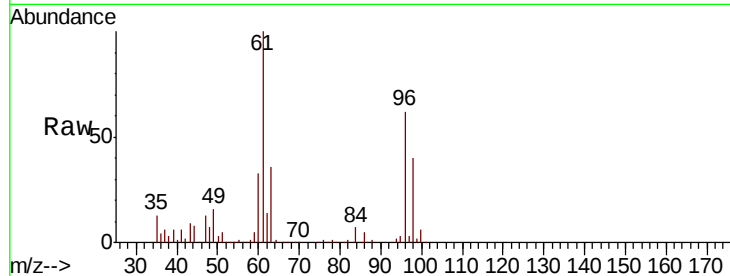
Tot Ion: 96 Resp: 58296

Ion Ratio Lower Upper

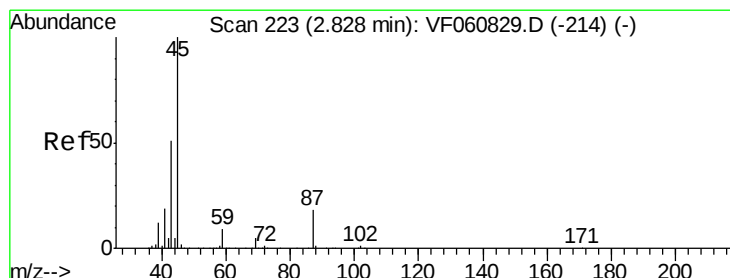
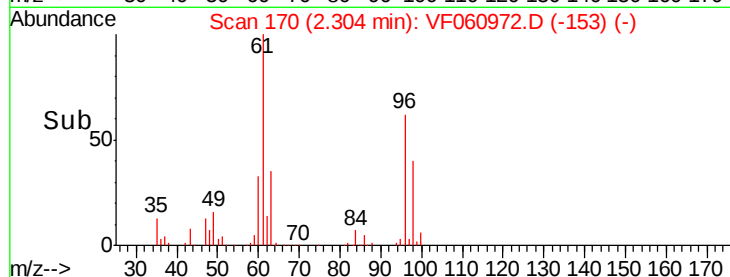
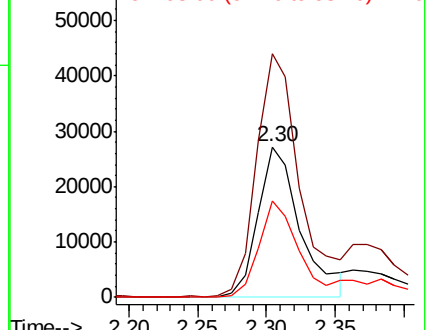
96 100

61 161.8 134.5 201.7

98 64.0 51.6 77.4



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



#22

Diisopropyl ether

Concen: 50.196 ug/l

RT: 2.80 min Scan# 220

Delta R.T. -0.03 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Tgt Ion: 45 Resp: 255200

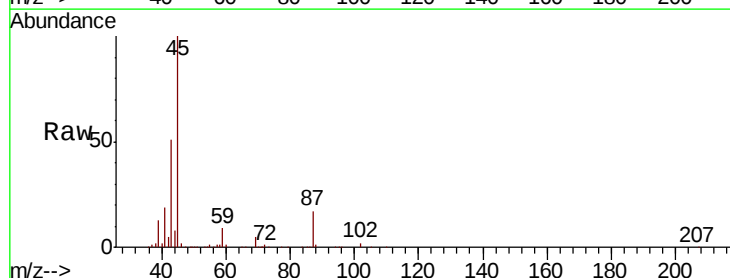
Ion Ratio Lower Upper

45 100

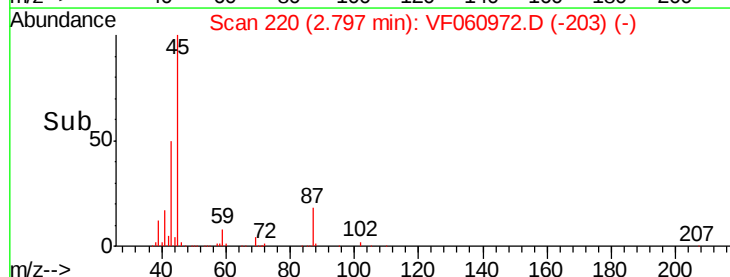
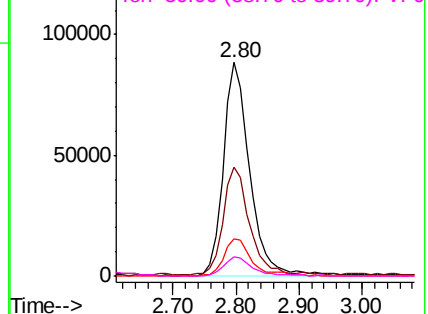
43 51.0 41.0 61.6

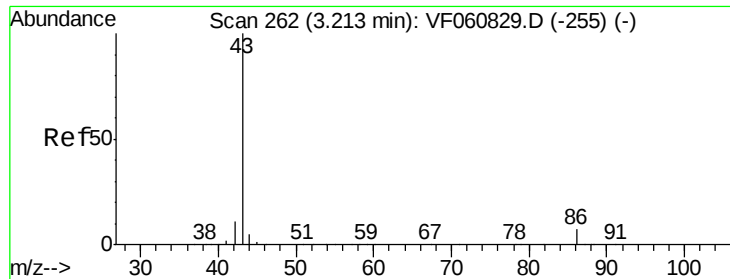
87 17.5 14.6 22.0

59 8.8 7.5 11.3



Abundance Ion 45.00 (44.70 to 45.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 87.00 (86.70 to 87.70): VF0
Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 260.602 ug/l

RT: 3.18 min Scan# 259

Delta R.T. -0.03 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

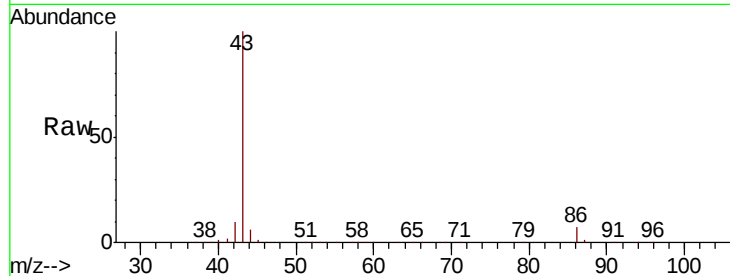
VSTDCCC050

Tot Ion: 43 Resp: 605632

Ion Ratio Lower Upper

43 100

86 7.1 5.4 8.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.18

250000

200000

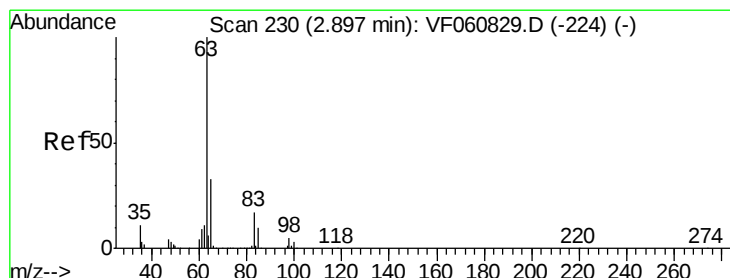
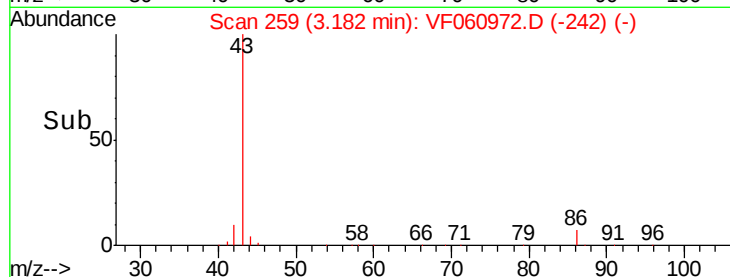
150000

100000

50000

0

Time-->



#24

1,1-Dichloroethane

Concen: 50.866 ug/l

RT: 2.87 min Scan# 227

Delta R.T. -0.03 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

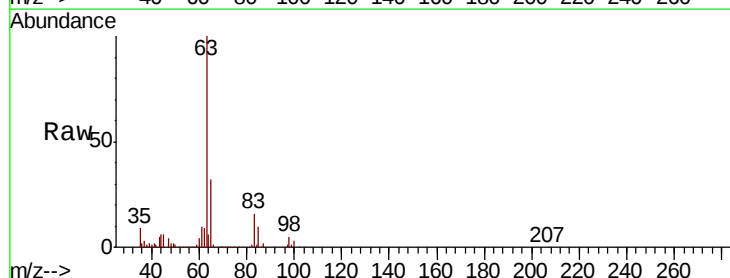
Tgt Ion: 63 Resp: 153861

Ion Ratio Lower Upper

63 100

98 4.8 2.7 8.1

100 2.8 1.5 4.5



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

80000

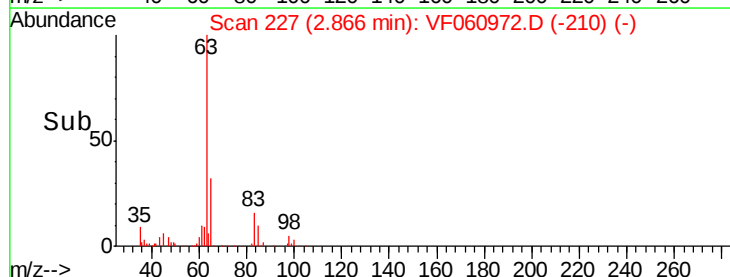
60000

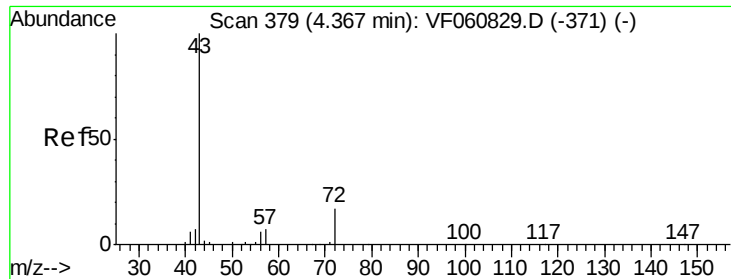
40000

20000

0

Time-->





#25

2-Butanone

Concen: 257.916 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.03 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

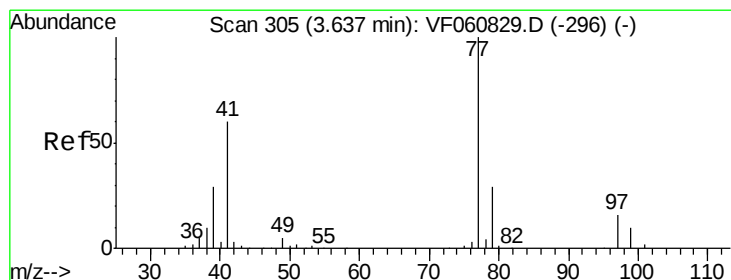
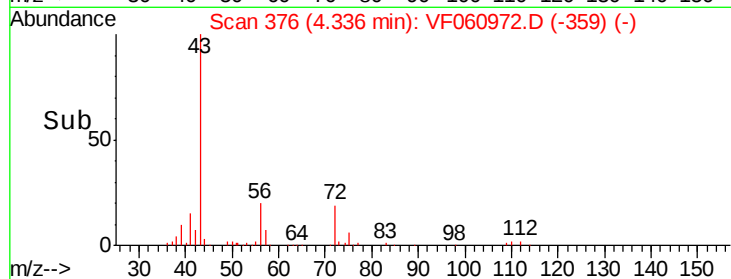
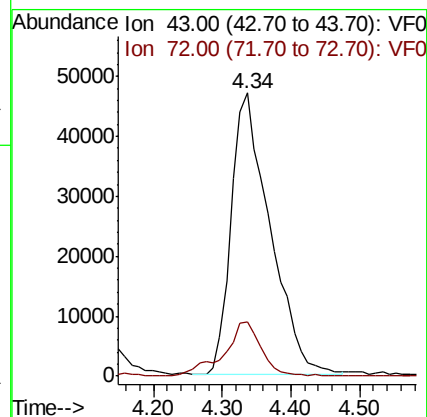
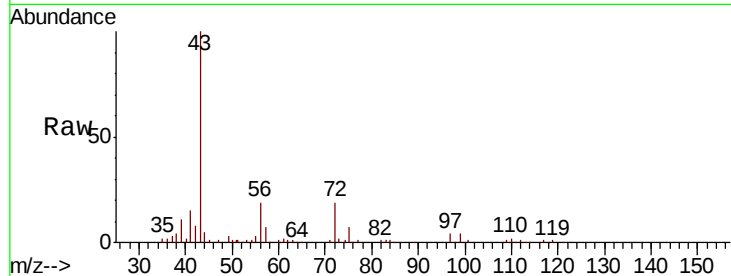
VSTDCCC050

Tot Ion: 43 Resp: 183405

Ion Ratio Lower Upper

43 100

72 19.1 15.4 23.2



#26

2,2-Dichloropropane

Concen: 48.238 ug/l

RT: 3.60 min Scan# 301

Delta R.T. -0.04 min

Lab File: VF060972.D

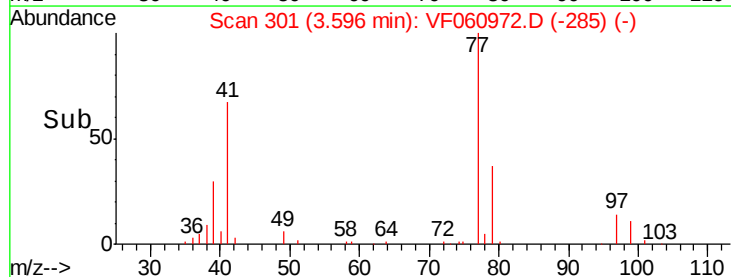
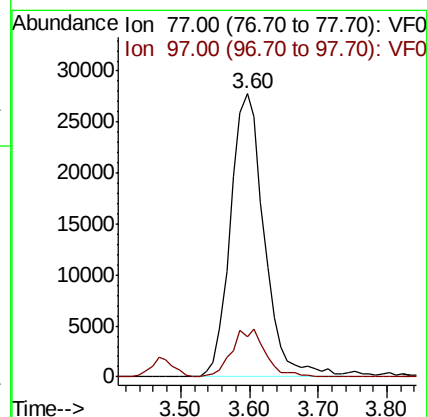
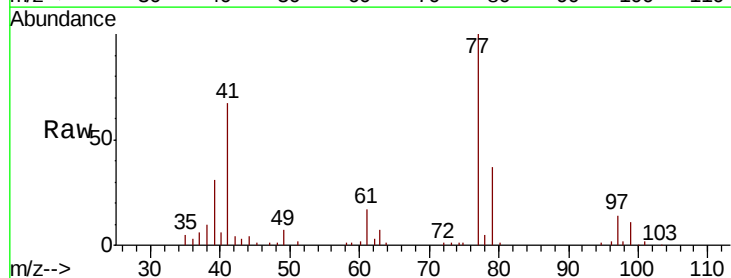
Acq: 11 Dec 2018 12:54

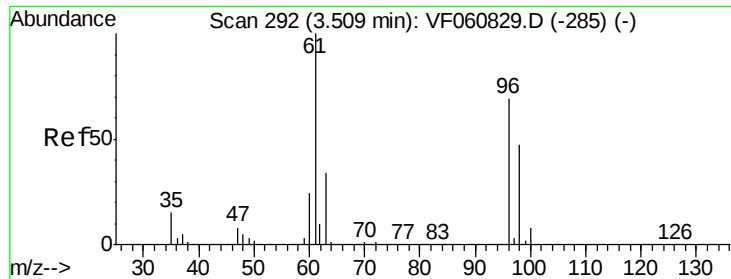
Tgt Ion: 77 Resp: 94595

Ion Ratio Lower Upper

77 100

97 14.4 8.6 25.8



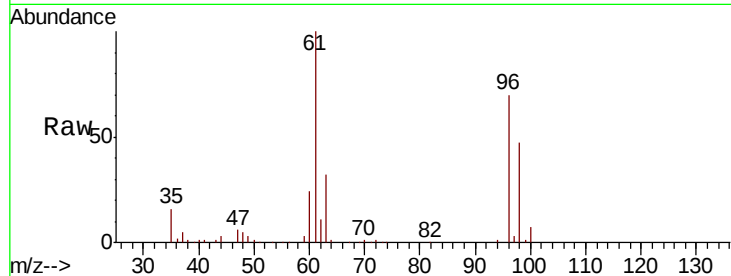


#27

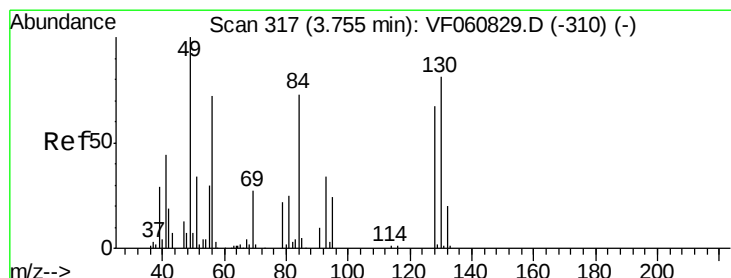
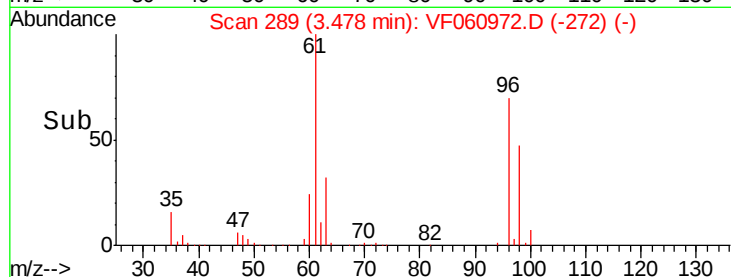
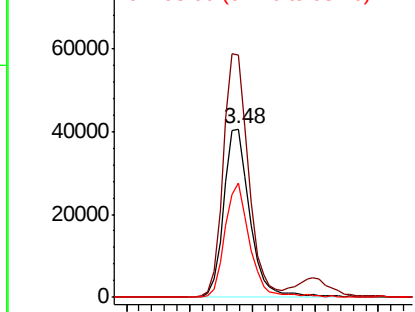
cis-1,2-Dichloroethene
Concen: 49.789 ug/l
RT: 3.48 min Scan# 289
Delta R.T. -0.03 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	143.6	0.0	290.6
98	68.1	0.0	137.8



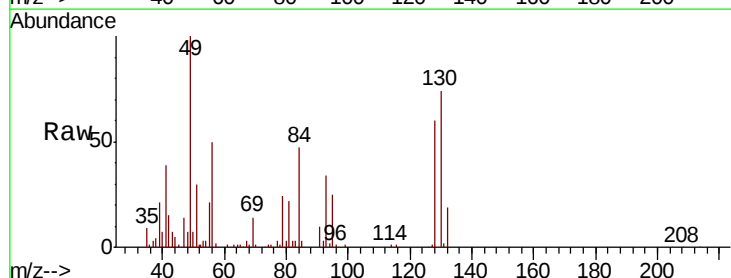
Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



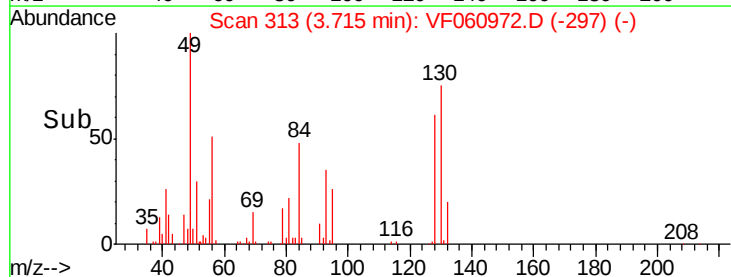
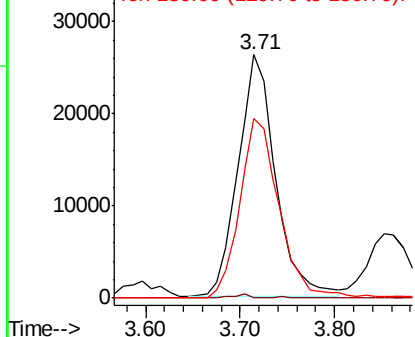
#28

Bromochloromethane
Concen: 49.782 ug/l
RT: 3.71 min Scan# 313
Delta R.T. -0.04 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.4
130	73.8	64.2	96.4



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

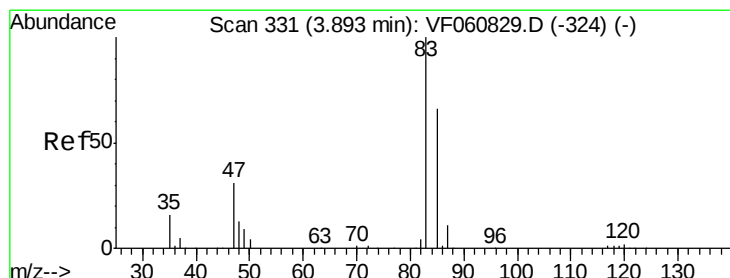
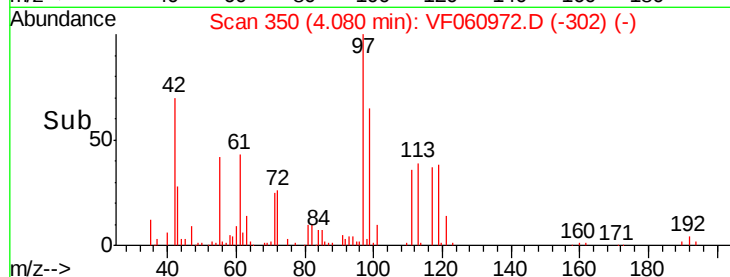
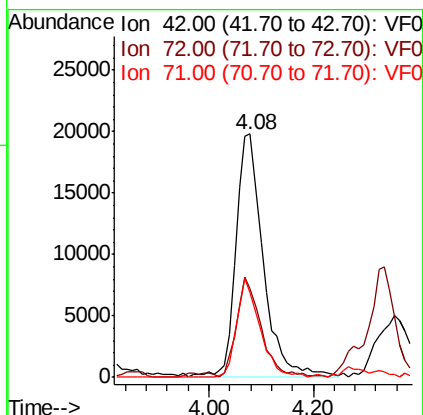
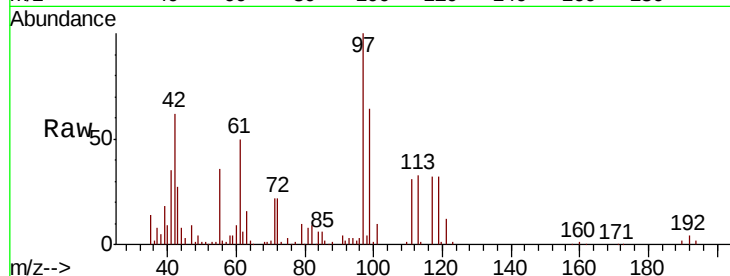




#29
Tetrahydrofuran
Concen: 232.922 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.03 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

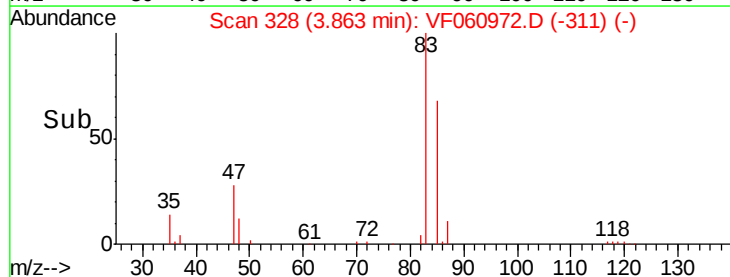
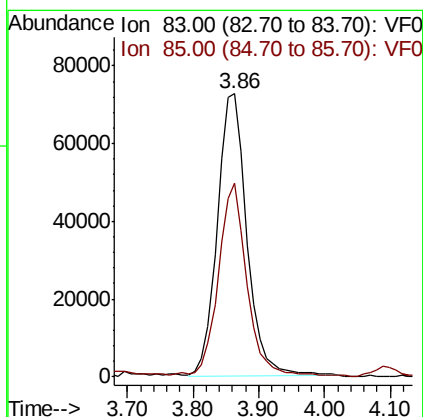
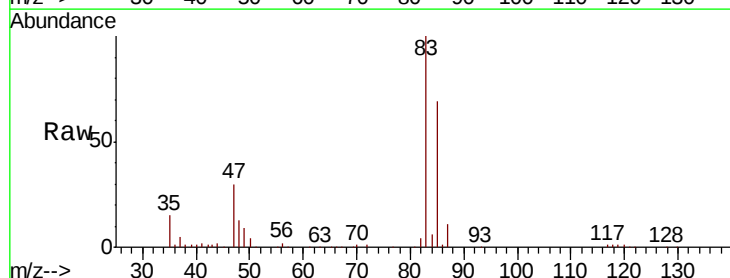
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

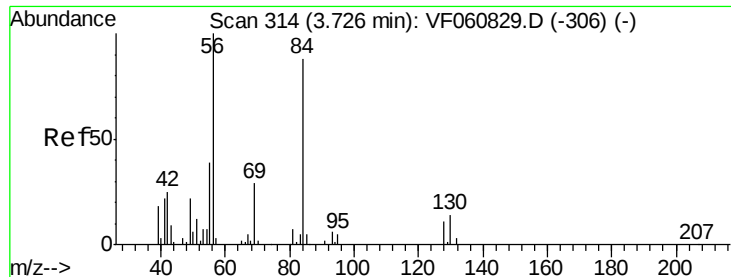
Tot Ion: 42 Resp: 70209
Ion Ratio Lower Upper
42 100
72 36.8 31.9 47.9
71 34.6 28.7 43.1



#30
Chloroform
Concen: 48.740 ug/l
RT: 3.86 min Scan# 328
Delta R.T. -0.03 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Tgt Ion: 83 Resp: 226903
Ion Ratio Lower Upper
83 100
85 68.5 53.4 80.2

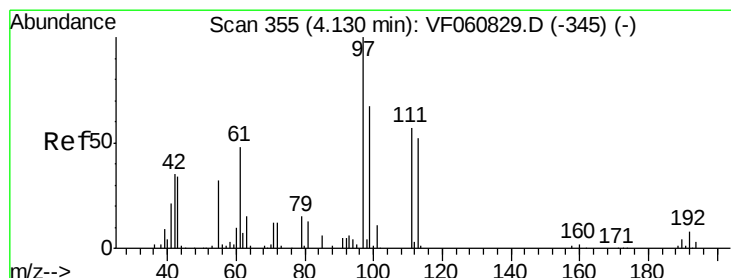
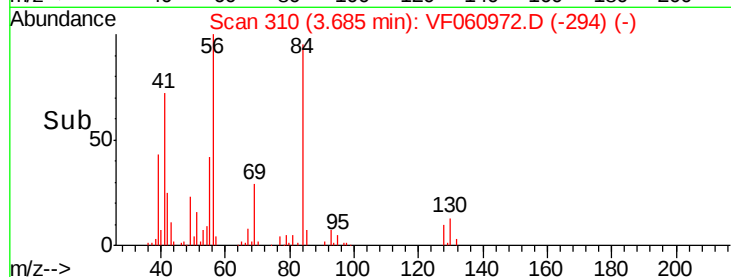
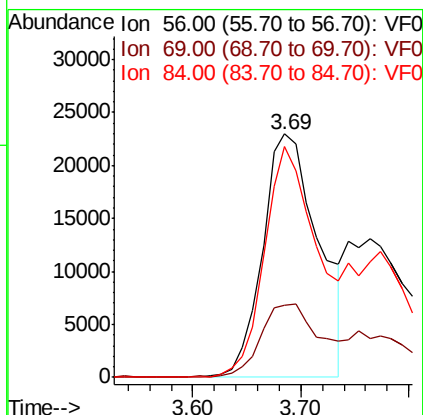
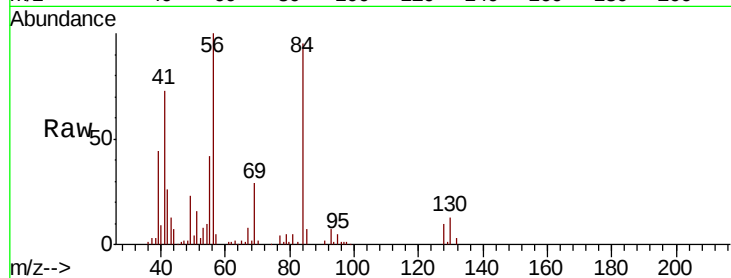




#31
Cvclohexane
Concen: 26.512 ug/l
RT: 3.69 min Scan# 310
Delta R.T. -0.04 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

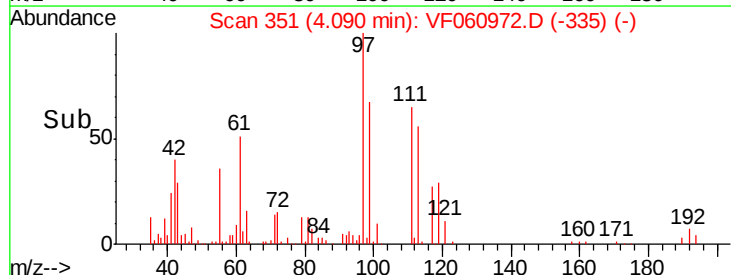
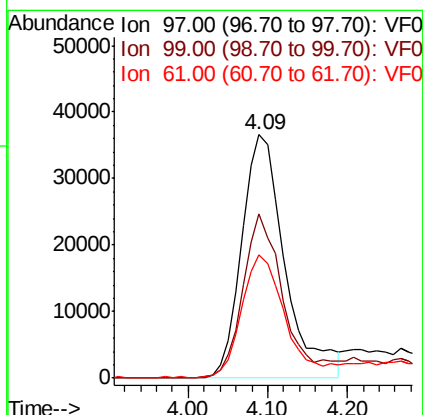
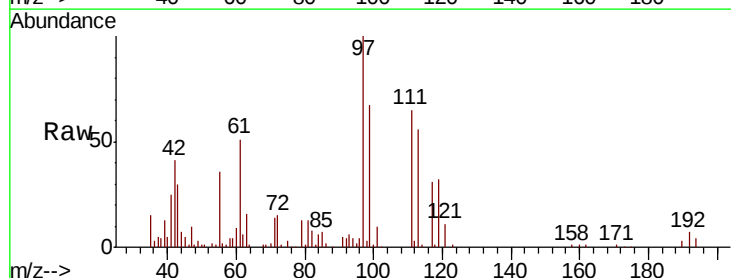
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

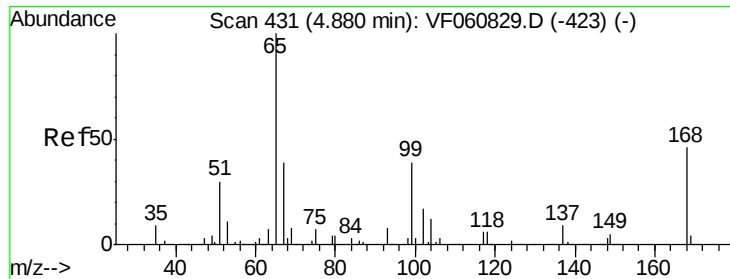
Tot Ion: 56 Resp: 83225
Ion Ratio Lower Upper
56 100
69 29.5 23.0 34.4
84 94.9 70.4 105.6



#32
1,1,1-Trichloroethane
Concen: 42.803 ug/l
RT: 4.09 min Scan# 351
Delta R.T. -0.04 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Tgt Ion: 97 Resp: 138195
Ion Ratio Lower Upper
97 100
99 67.4 53.5 80.3
61 50.5 38.6 58.0





#33

1,2-Dichloroethane-d4

Concen: 50.413 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.04 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

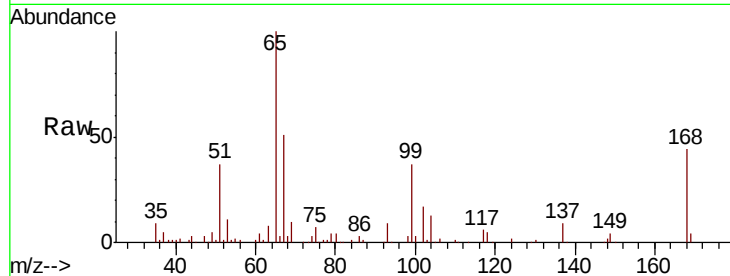
VSTDCCC050

Tot Ion: 65 Resp: 112394

Ion Ratio Lower Upper

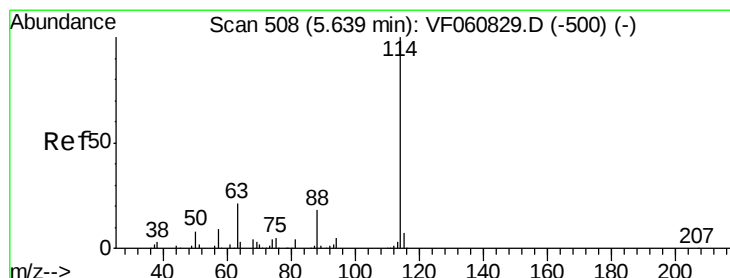
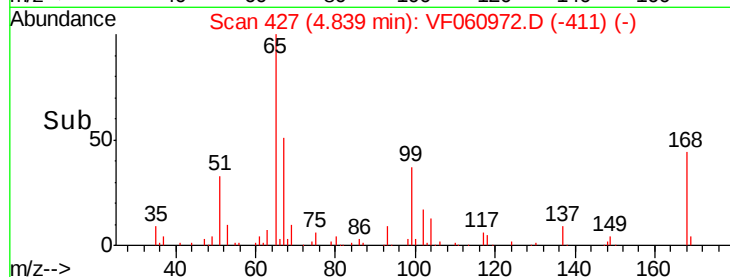
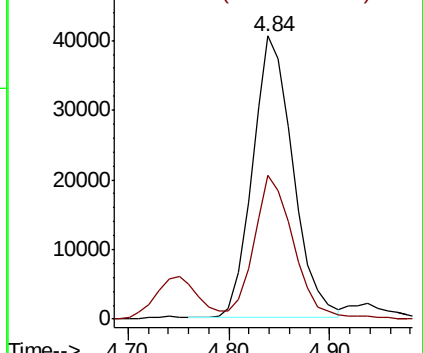
65 100

67 50.9 0.0 96.4



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. -0.04 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

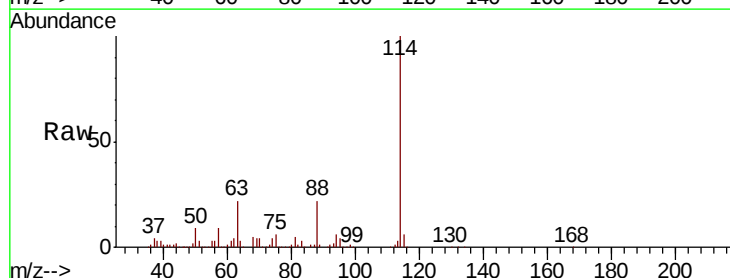
Tgt Ion: 114 Resp: 311096

Ion Ratio Lower Upper

114 100

63 21.8 0.0 41.6

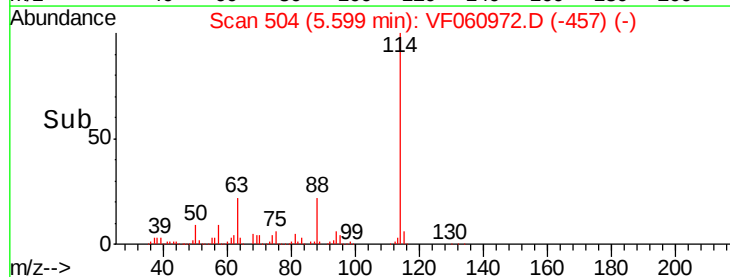
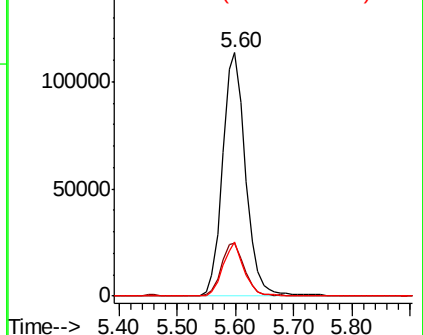
88 22.2 0.0 36.6



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

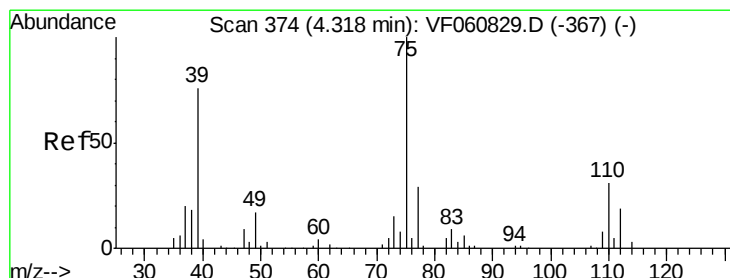
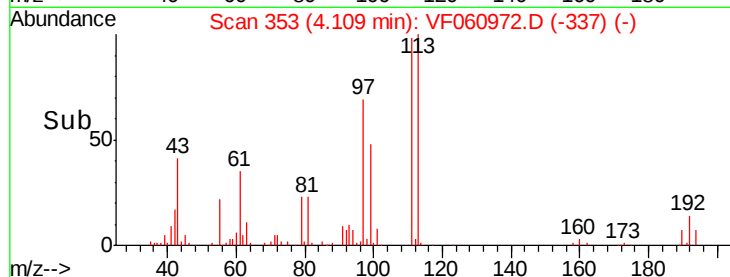
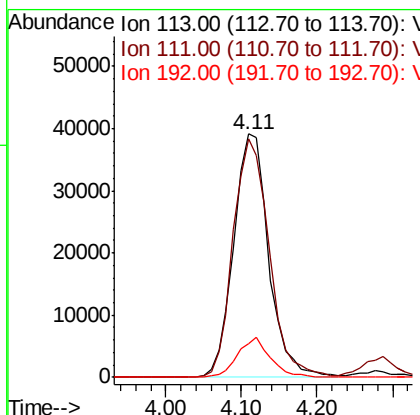
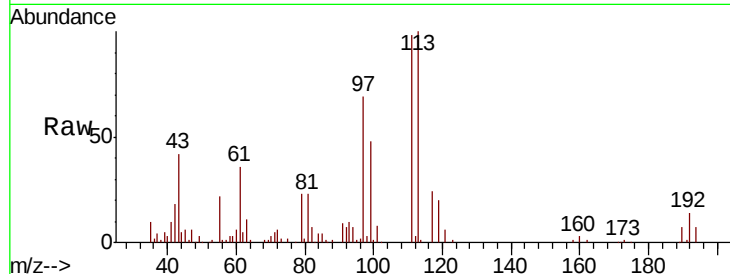




#35
 Dibromofluoromethane
 Concen: 50.985 ug/l
 RT: 4.11 min Scan# 353
 Delta R.T. -0.04 min
 Lab File: VF060972.D
 Acq: 11 Dec 2018 12:54

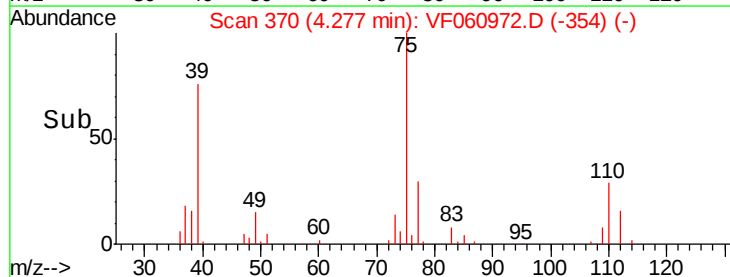
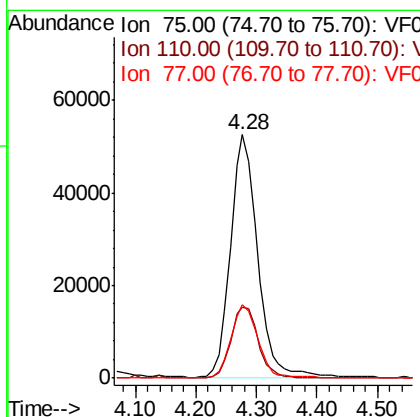
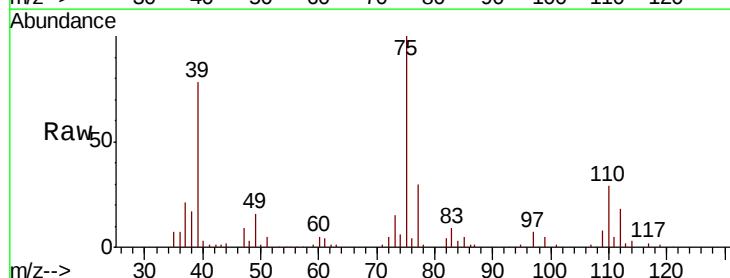
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

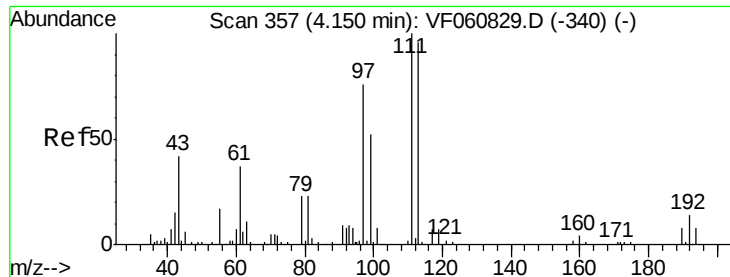
Tot Ion:113 Resp: 125832
 Ion Ratio Lower Upper
 113 100
 111 97.9 83.0 124.6
 192 13.7 12.3 18.5



#36
 1,1-Dichloropropene
 Concen: 47.167 ug/l
 RT: 4.28 min Scan# 370
 Delta R.T. -0.04 min
 Lab File: VF060972.D
 Acq: 11 Dec 2018 12:54

Tgt Ion: 75 Resp: 162752
 Ion Ratio Lower Upper
 75 100
 110 29.1 15.6 46.8
 77 30.1 23.4 35.0

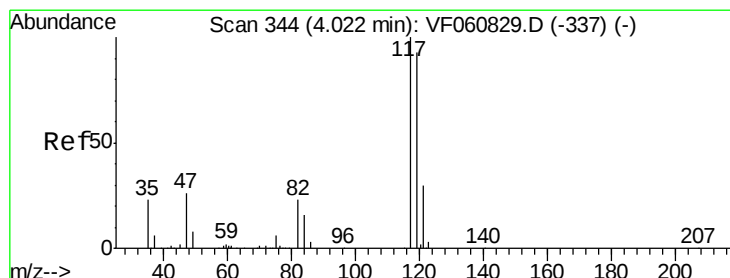
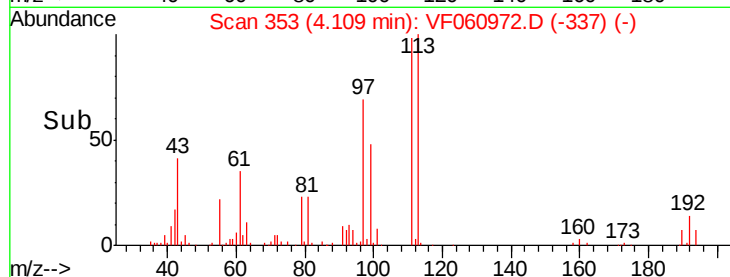
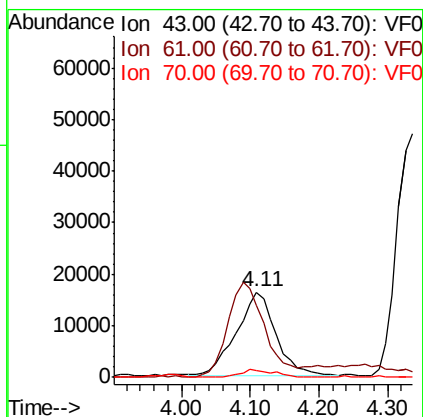
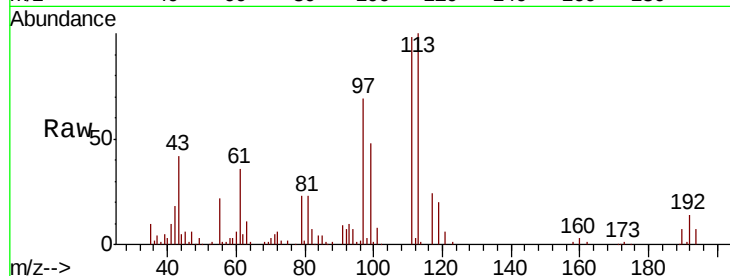




#37
Ethyl Acetate
Concen: 45.802 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.04 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

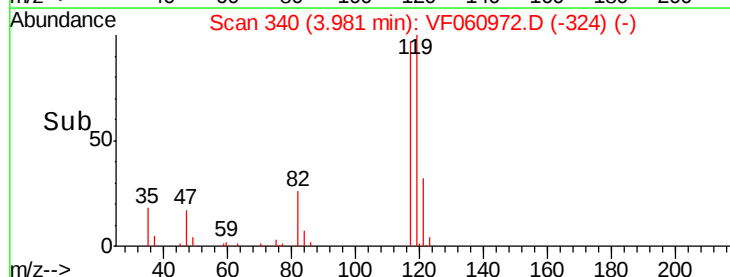
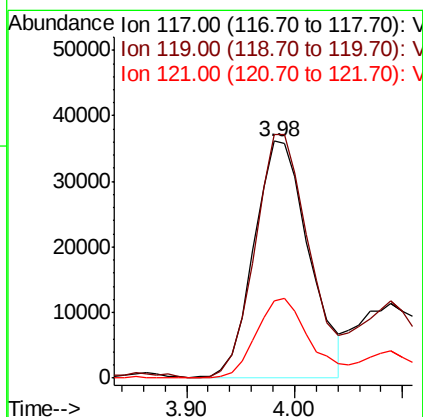
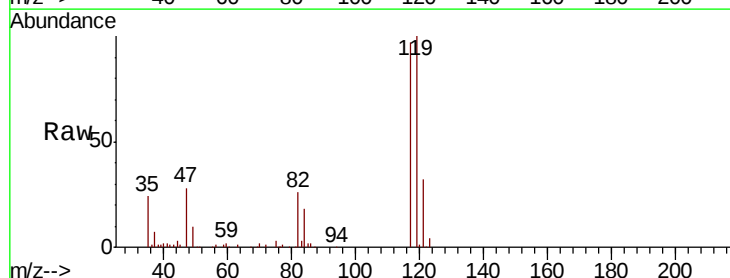
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

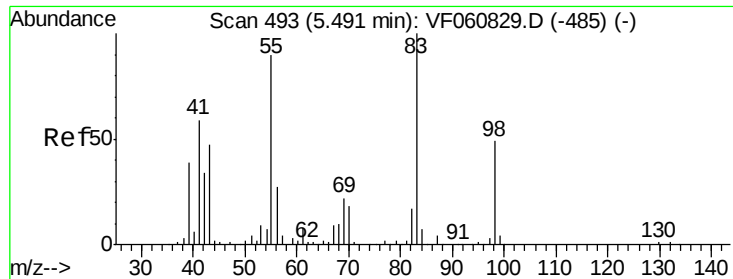
Tot Ion: 43 Resp: 64224
Ion Ratio Lower Upper
43 100
61 84.1 68.6 103.0
70 7.6 9.0 13.4#



#38
Carbon Tetrachloride
Concen: 41.746 ug/l
RT: 3.98 min Scan# 340
Delta R.T. -0.04 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Tgt Ion: 117 Resp: 127231
Ion Ratio Lower Upper
117 100
119 102.9 74.4 111.6
121 33.0 23.5 35.3

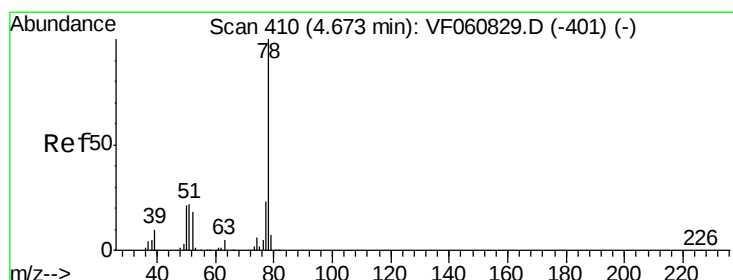
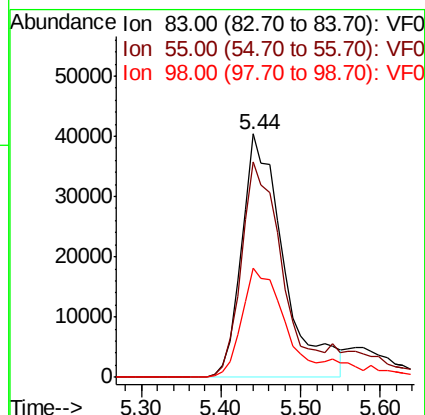
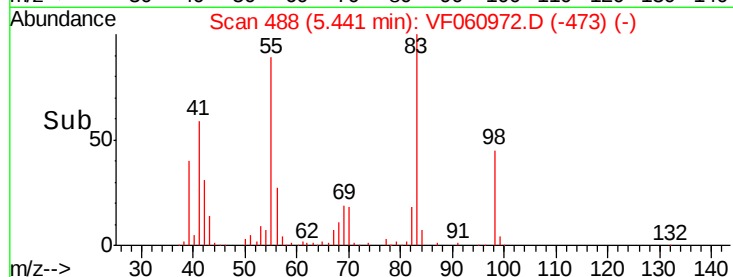
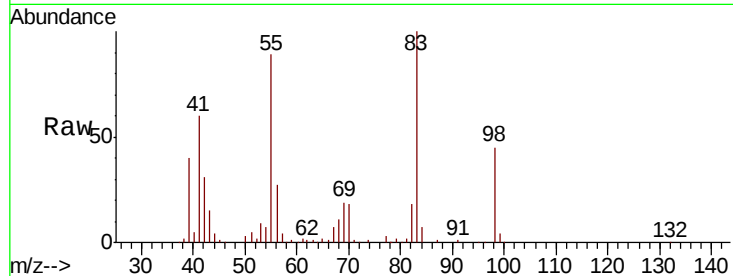




#39
Methvlcvclohexane
Concen: 40.815 ug/l
RT: 5.44 min Scan# 488
Delta R.T. -0.05 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

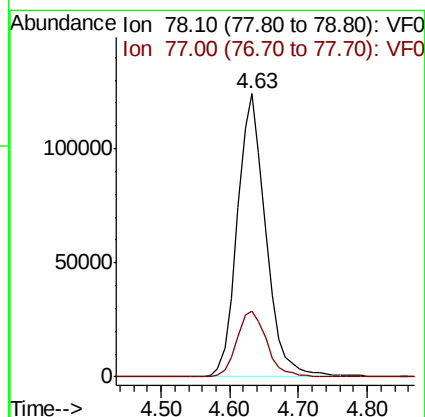
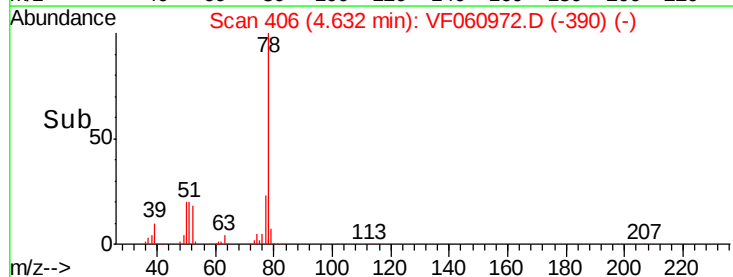
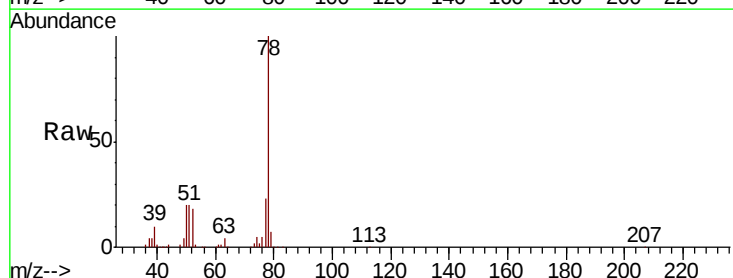
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

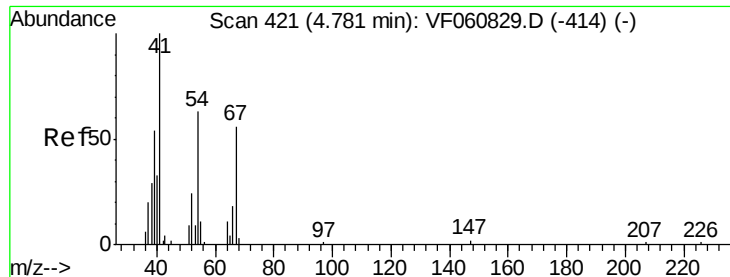
Tot Ion: 83 Resp: 147591
Ion Ratio Lower Upper
83 100
55 88.6 72.1 108.1
98 45.1 39.1 58.7



#40
Benzene
Concen: 46.559 ug/l
RT: 4.63 min Scan# 406
Delta R.T. -0.04 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Tgt Ion: 78 Resp: 354923
Ion Ratio Lower Upper
78 100
77 23.4 18.7 28.1

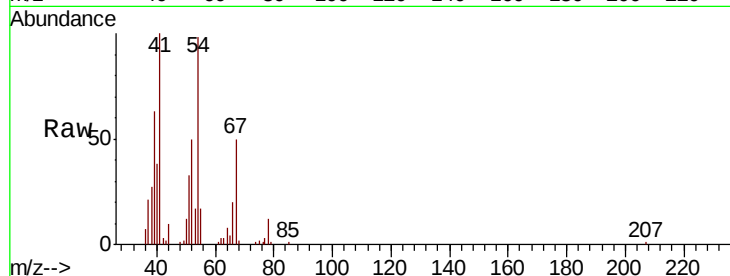




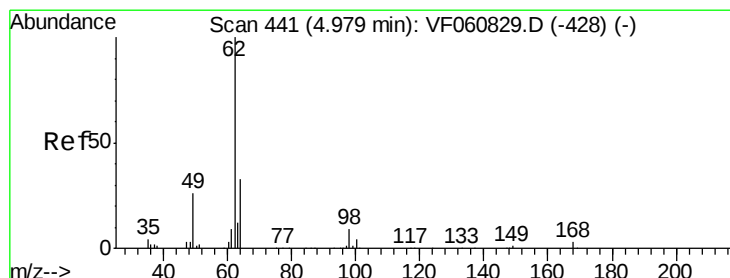
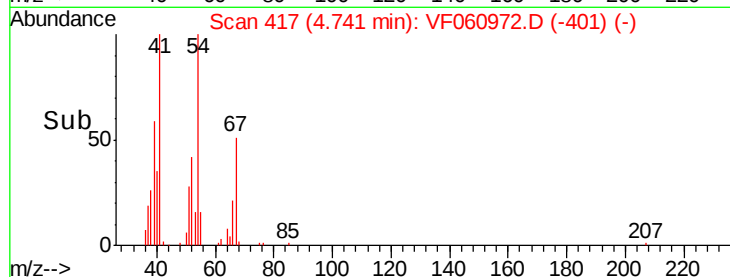
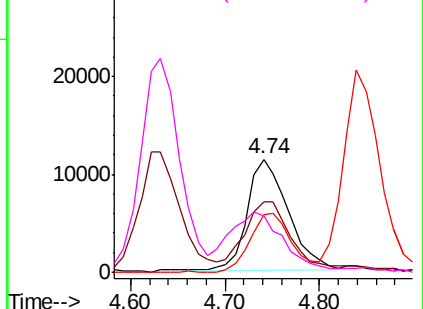
#41
Methacrylonitrile
Concen: 47.596 ug/l
RT: 4.74 min Scan# 417
Delta R.T. -0.04 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:	41	Resp:	34690
Ion	Ratio	Lower	Upper
41	100		
39	62.6	53.0	79.6
67	50.4	43.8	65.6
52	49.6	37.8	56.8

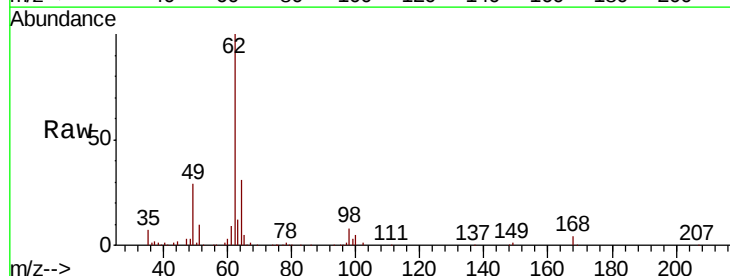


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0

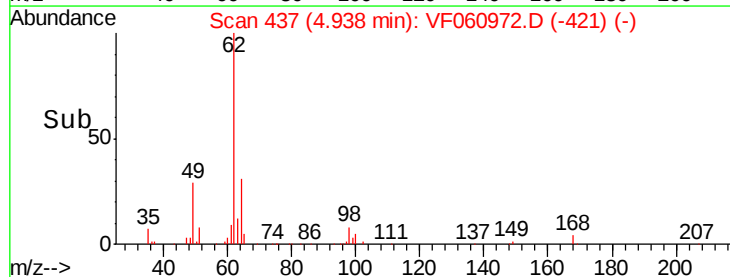
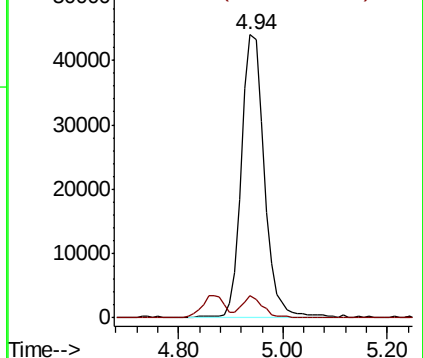


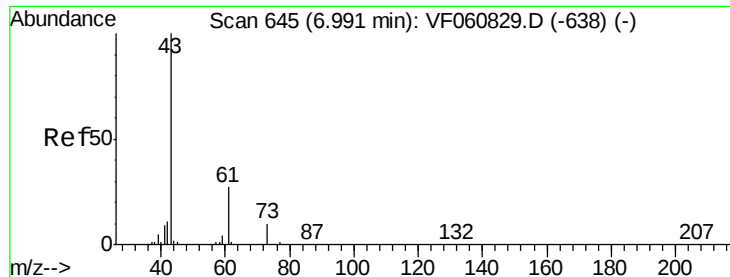
#42
1,2-Dichloroethane
Concen: 46.808 ug/l
RT: 4.94 min Scan# 437
Delta R.T. -0.04 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Tgt Ion:	62	Resp:	130268
Ion	Ratio	Lower	Upper
62	100		
98	8.1	0.0	17.2



Abundance Ion 62.00 (61.70 to 62.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



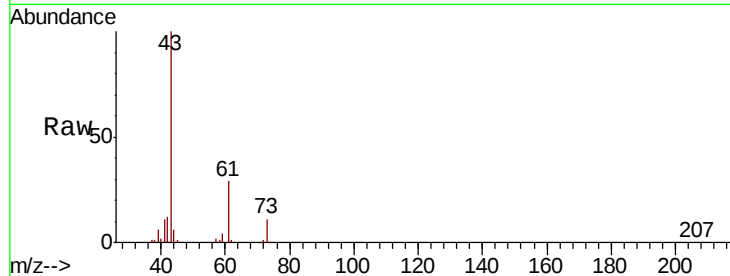


#43

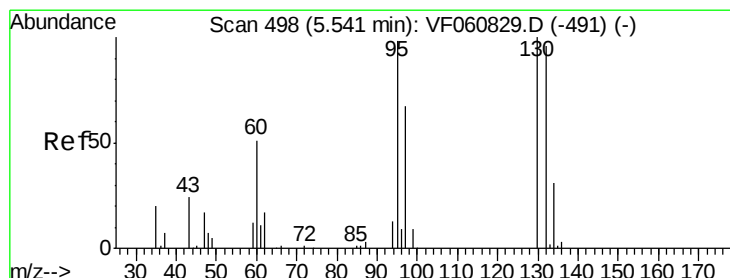
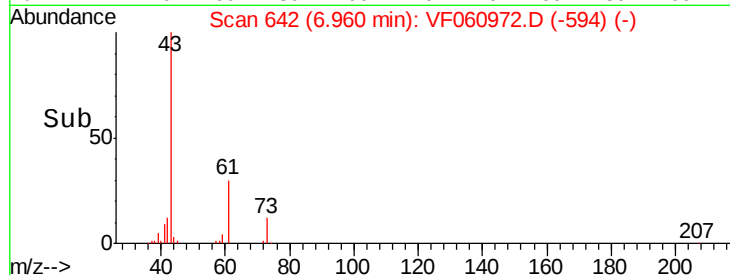
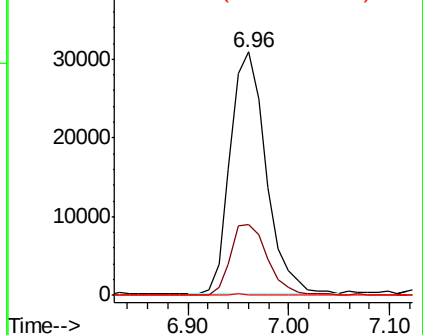
Isopropyl Acetate
 Concen: 43.819 ug/l
 RT: 6.96 min Scan# 642
 Delta R.T. -0.03 min
 Lab File: VF060972.D
 Acq: 11 Dec 2018 12:54

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion: 43 Resp: 76392
 Ion Ratio Lower Upper
 43 100
 61 29.1 21.4 32.0
 87 0.0 0.2 0.4#



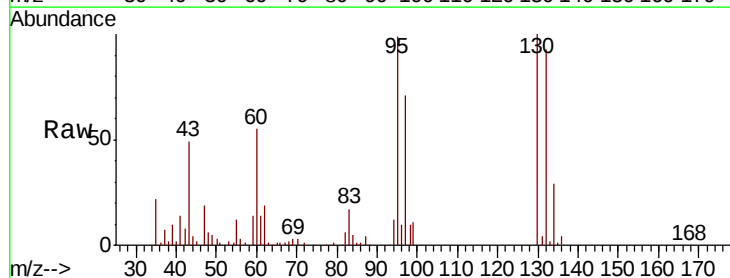
Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



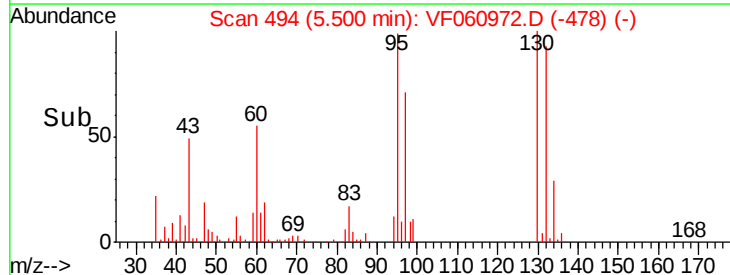
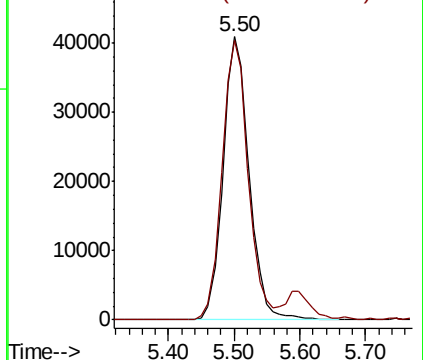
#44

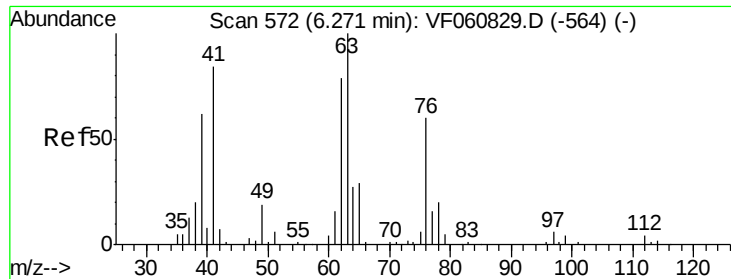
Trichloroethene
 Concen: 45.309 ug/l
 RT: 5.50 min Scan# 494
 Delta R.T. -0.04 min
 Lab File: VF060972.D
 Acq: 11 Dec 2018 12:54

Tgt Ion: 130 Resp: 112932
 Ion Ratio Lower Upper
 130 100
 95 98.8 0.0 195.6



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





#45

1,2-Dichloropropane

Concen: 50.926 ug/l

RT: 6.23 min Scan# 568

Delta R.T. -0.04 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

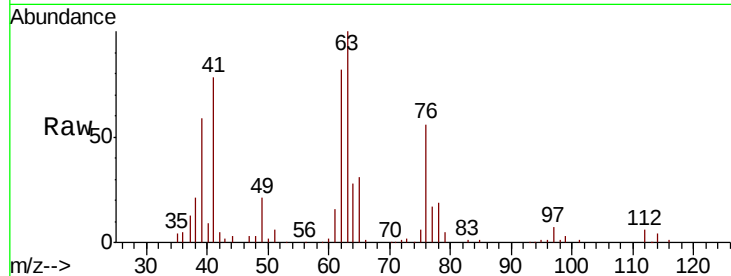
VSTDCCC050

Tot Ion: 63 Resp: 100824

Ion Ratio Lower Upper

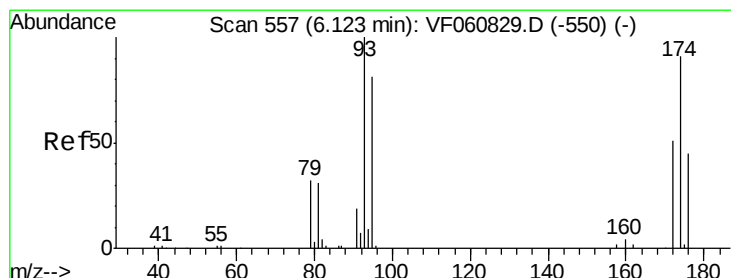
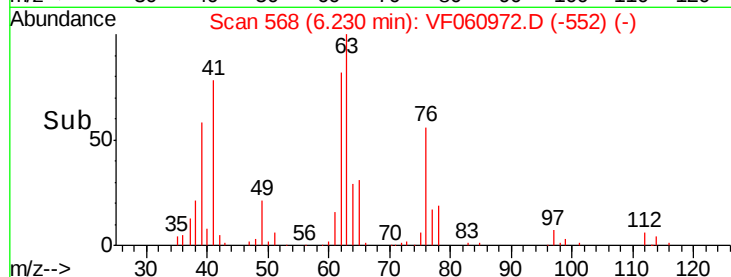
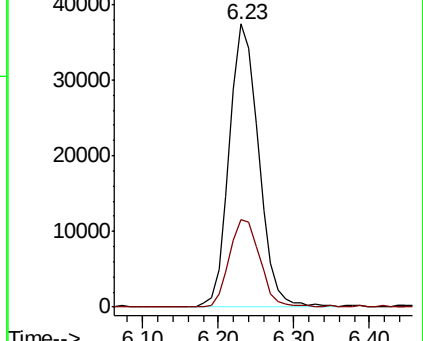
63 100

65 31.1 23.2 34.8



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 46.538 ug/l

RT: 6.08 min Scan# 553

Delta R.T. -0.04 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

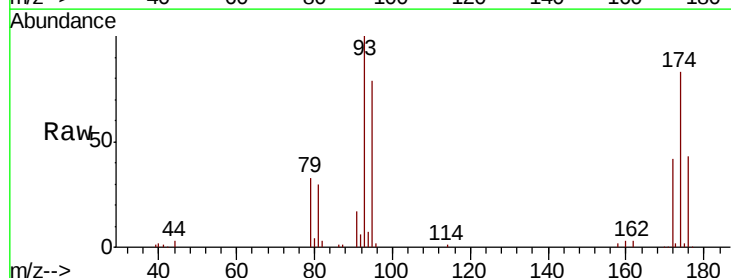
Tgt Ion: 93 Resp: 62502

Ion Ratio Lower Upper

93 100

95 79.1 64.7 97.1

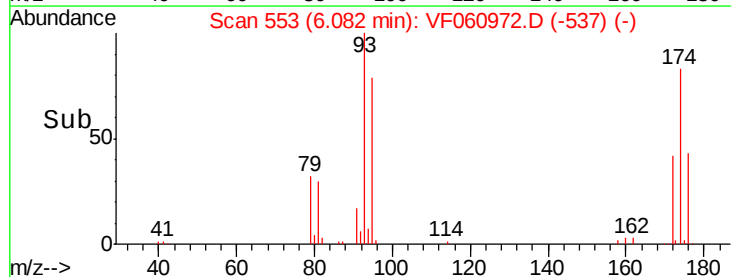
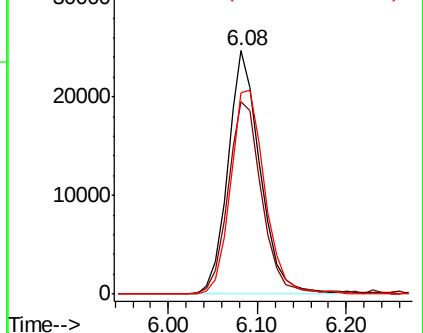
174 82.8 73.0 109.6

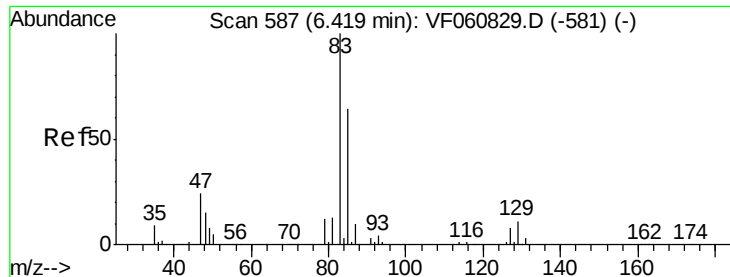


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 47.187 ug/l

RT: 6.39 min Scan# 584

Delta R.T. -0.03 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

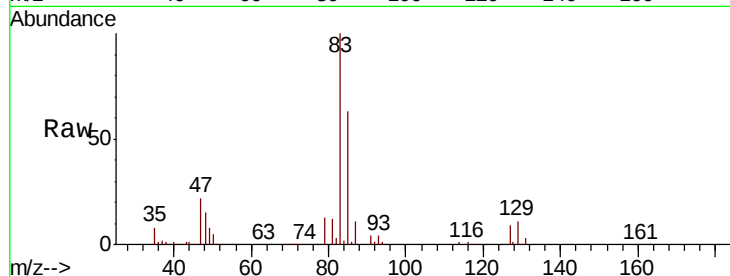
Tot Ion: 83 Resp: 168320

Ion Ratio Lower Upper

83 100

85 63.4 51.1 76.7

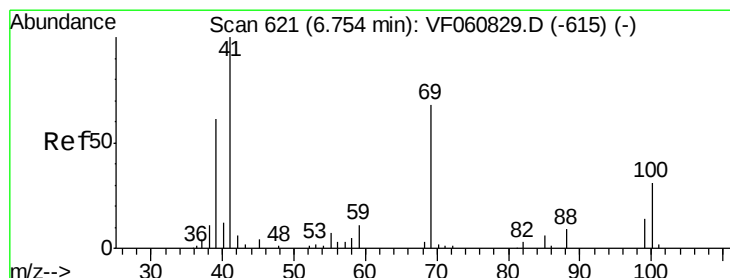
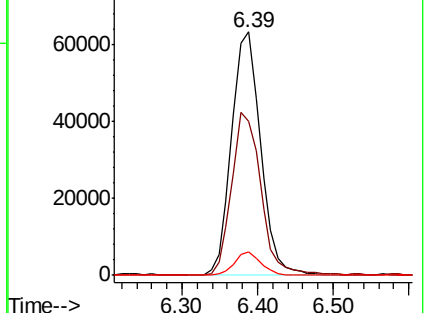
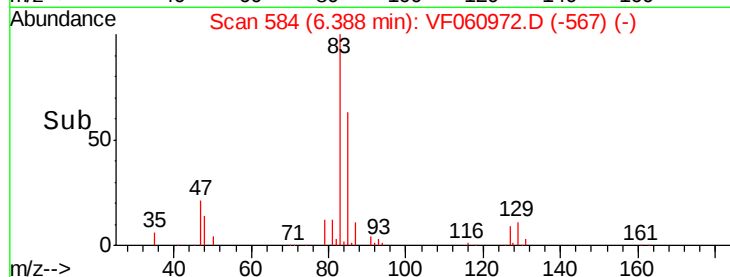
127 9.8 6.8 10.2



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: 42.348 ug/l

RT: 6.71 min Scan# 617

Delta R.T. -0.04 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

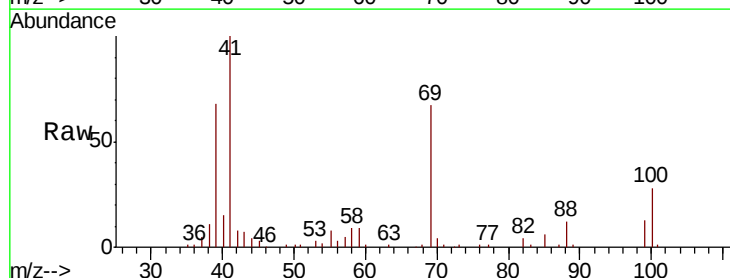
Tgt Ion: 41 Resp: 53751

Ion Ratio Lower Upper

41 100

69 67.0 53.9 80.9

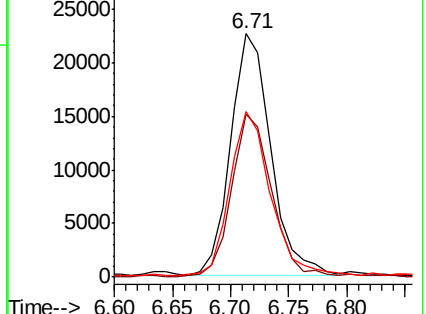
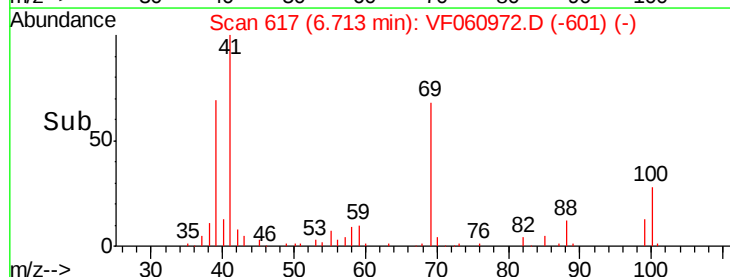
39 68.1 49.0 73.6

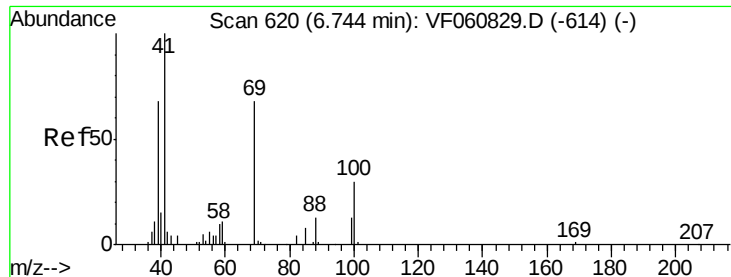


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 942.699 ug/l

RT: 6.70 min Scan# 616

Delta R.T. -0.04 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

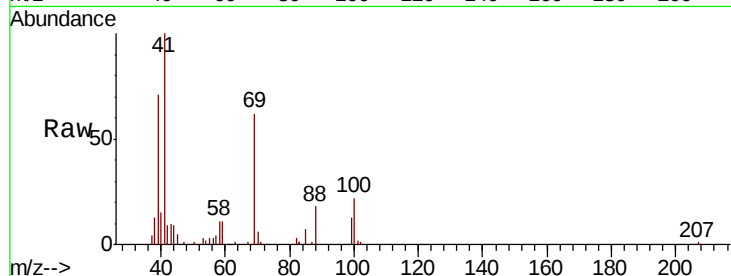
Tot Ion: 88 Resp: 8757

Ion Ratio Lower Upper

88 100

43 54.7 42.0 63.0

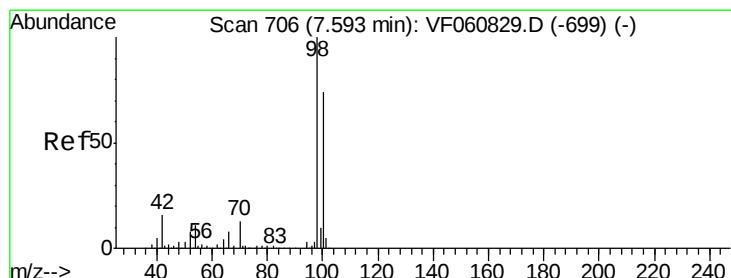
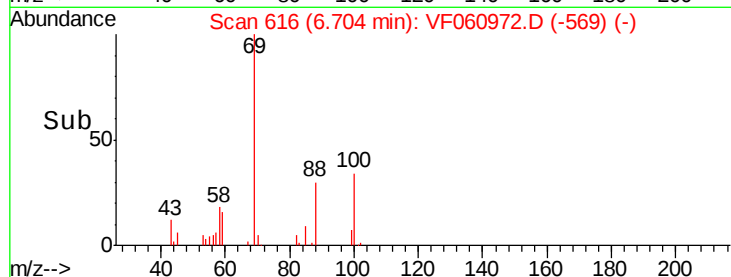
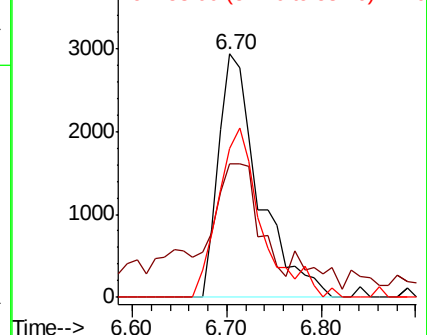
58 61.4 61.8 92.8#



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: 47.427 ug/l

RT: 7.55 min Scan# 702

Delta R.T. -0.04 min

Lab File: VF060972.D

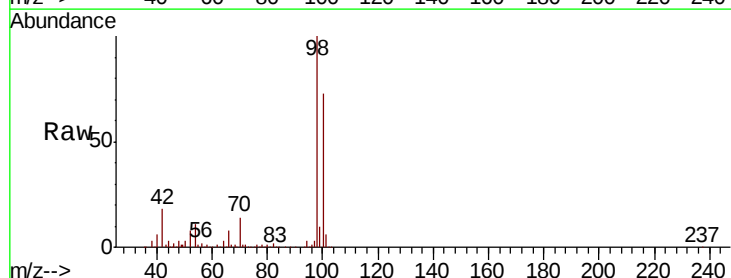
Acq: 11 Dec 2018 12:54

Tgt Ion: 98 Resp: 344797

Ion Ratio Lower Upper

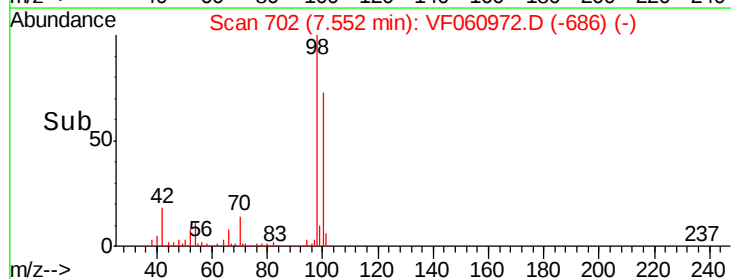
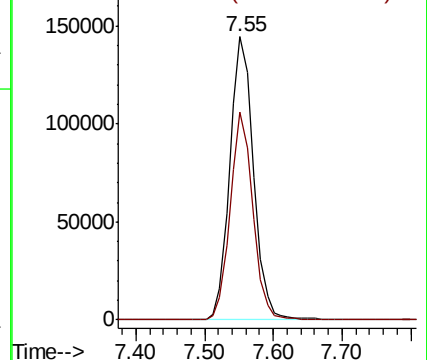
98 100

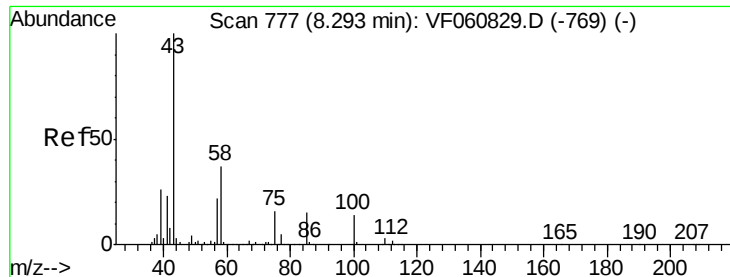
100 73.4 59.3 88.9



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: 227.068 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.03 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

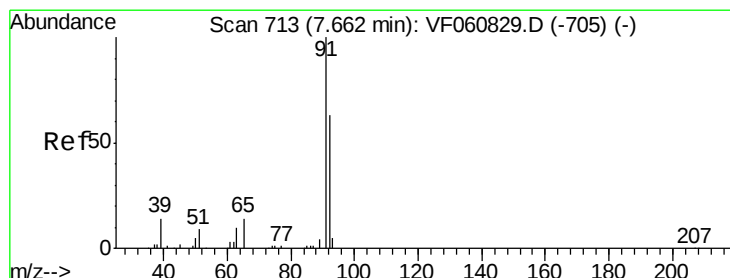
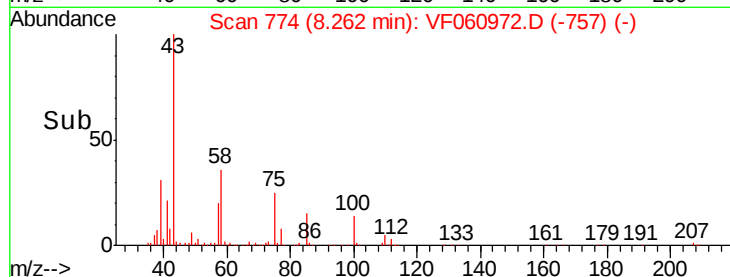
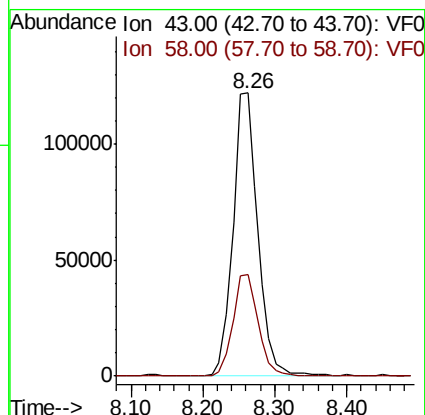
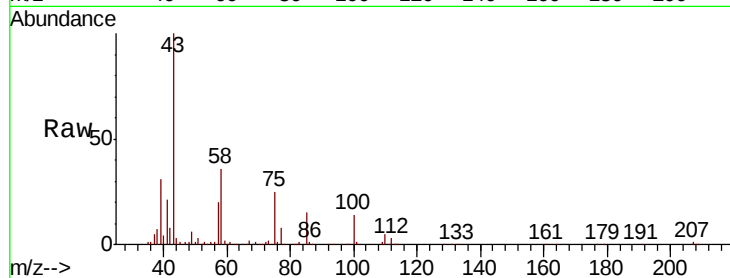
VSTDCCC050

Tot Ion: 43 Resp: 293615

Ion Ratio Lower Upper

43 100

58 35.9 29.7 44.5



#52

Toluene

Concen: 42.795 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.04 min

Lab File: VF060972.D

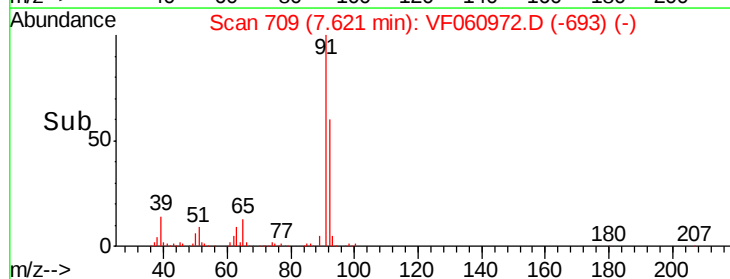
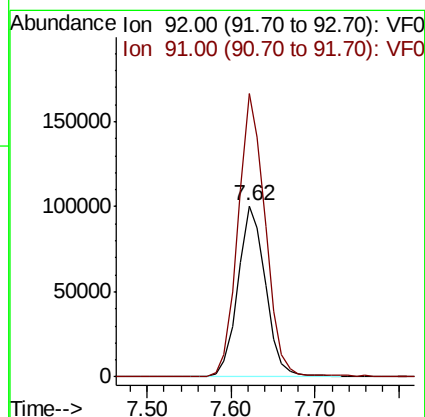
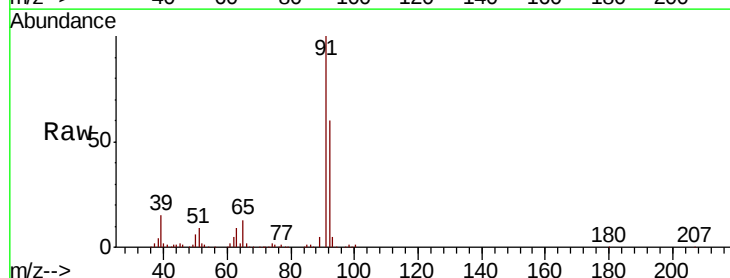
Acq: 11 Dec 2018 12:54

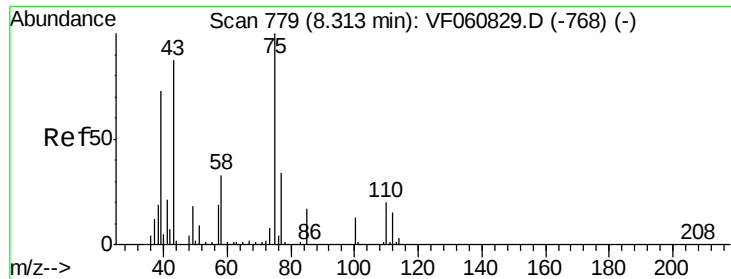
Tgt Ion: 92 Resp: 229147

Ion Ratio Lower Upper

92 100

91 165.5 126.2 189.2





#53

t-1,3-Dichloropropene

Concen: 46.215 ug/l

RT: 8.28 min Scan# 776

Delta R.T. -0.03 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

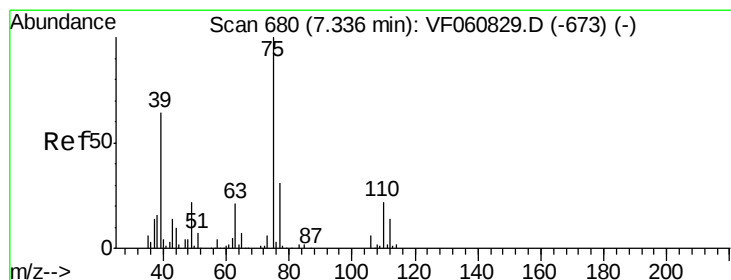
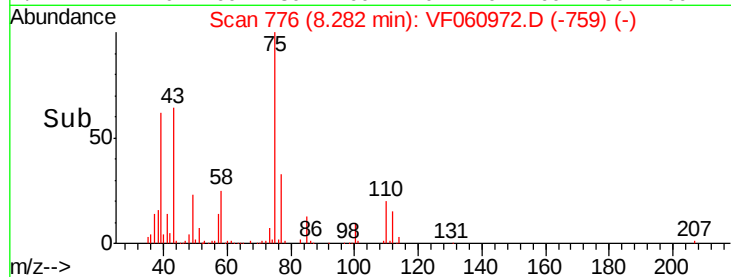
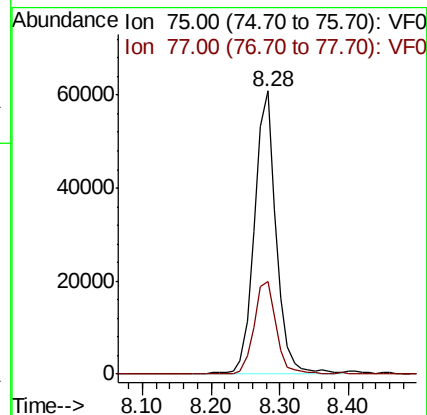
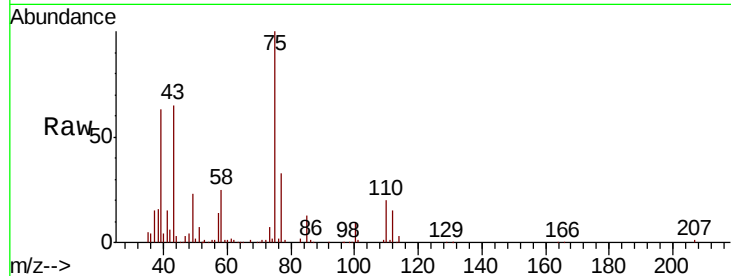
VSTDCCC050

Tot Ion: 75 Resp: 134093

Ion Ratio Lower Upper

75 100

77 32.6 27.4 41.2



#54

cis-1,3-Dichloropropene

Concen: 48.822 ug/l

RT: 7.30 min Scan# 676

Delta R.T. -0.04 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

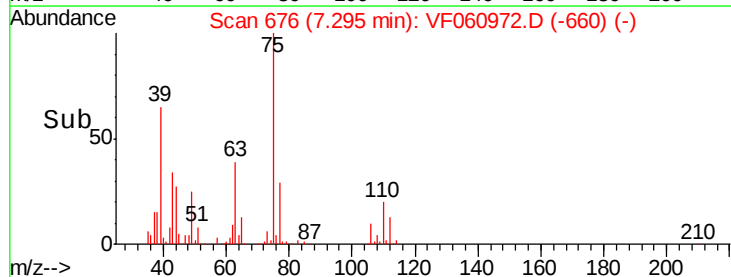
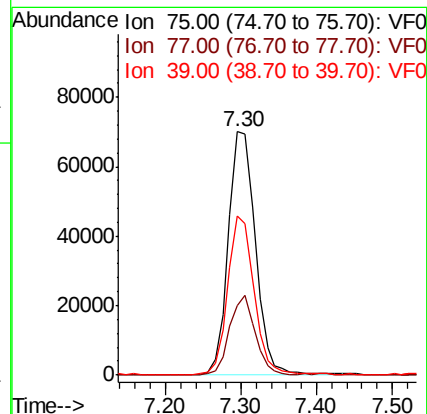
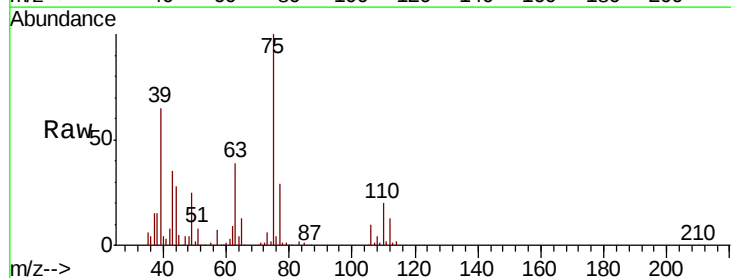
Tgt Ion: 75 Resp: 175369

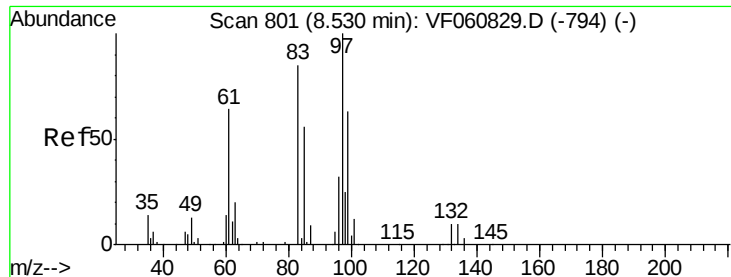
Ion Ratio Lower Upper

75 100

77 28.8 25.0 37.6

39 65.5 51.1 76.7





#55

1,1,2-Trichloroethane

Concen: 47.702 ug/l

RT: 8.49 min Scan# 797

Delta R.T. -0.04 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 97 Resp: 74427

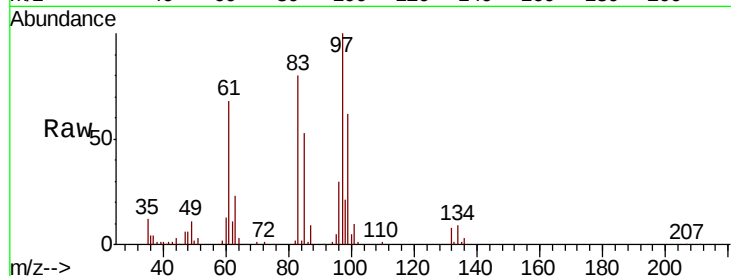
Ion Ratio Lower Upper

97 100

83 80.1 67.8 101.6

85 52.8 45.0 67.6

99 61.7 50.5 75.7

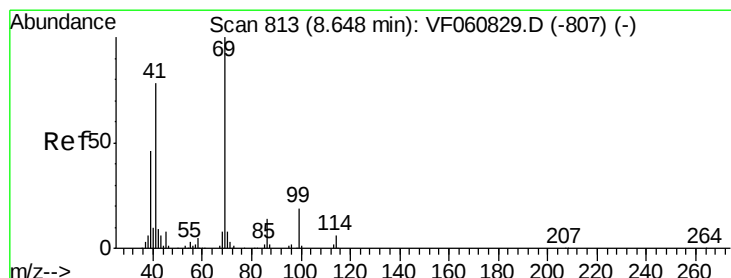
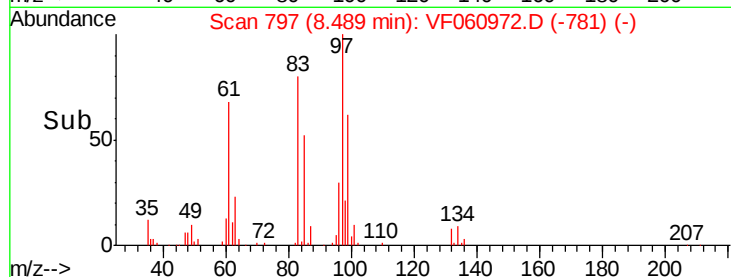
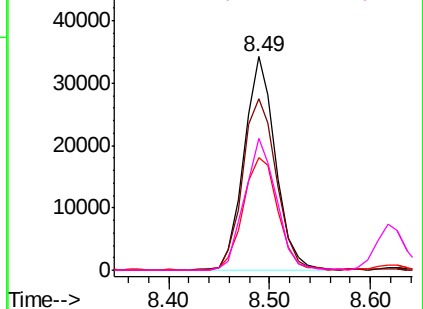


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 46.268 ug/l

RT: 8.62 min Scan# 810

Delta R.T. -0.03 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

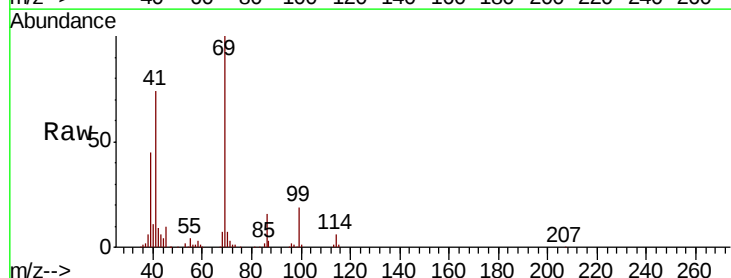
Tgt Ion: 69 Resp: 80193

Ion Ratio Lower Upper

69 100

41 74.3 62.6 94.0

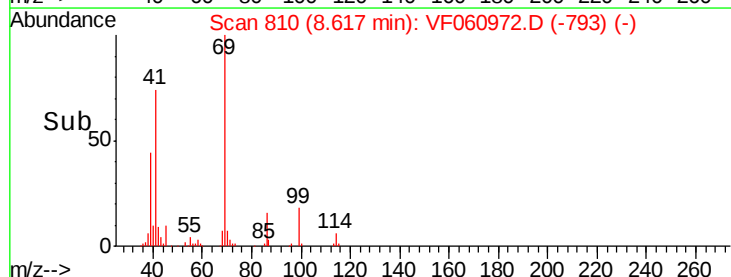
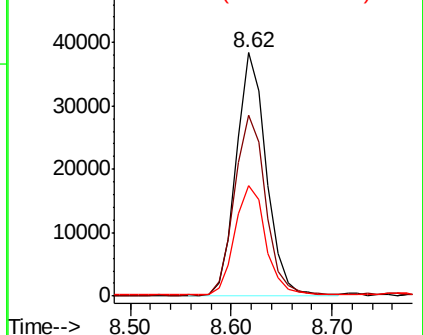
39 45.2 37.8 56.6

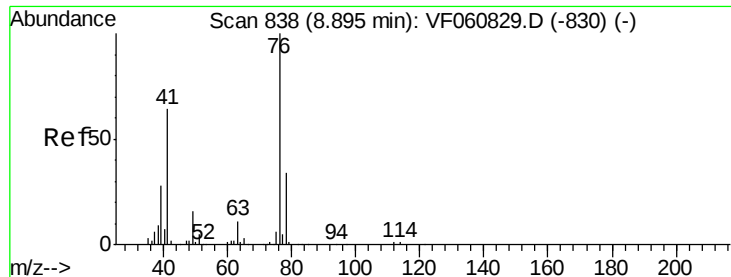


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 47.347 ug/l

RT: 8.85 min Scan# 834

Delta R.T. -0.04 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

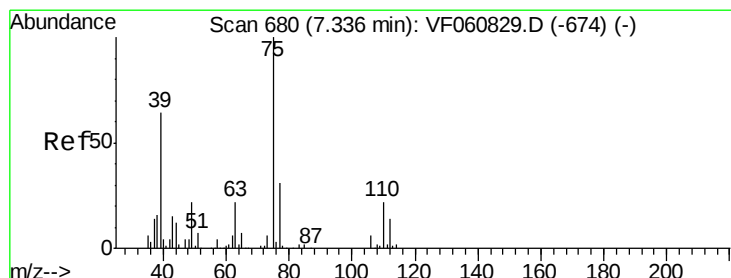
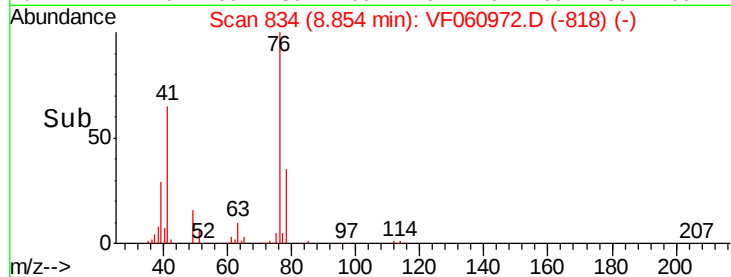
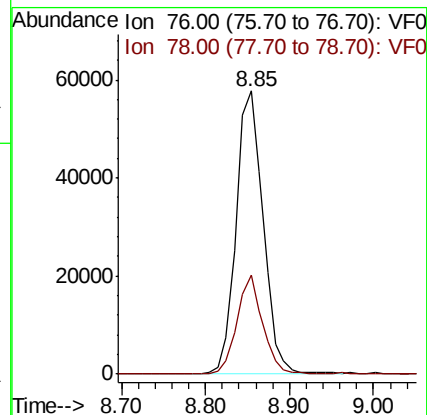
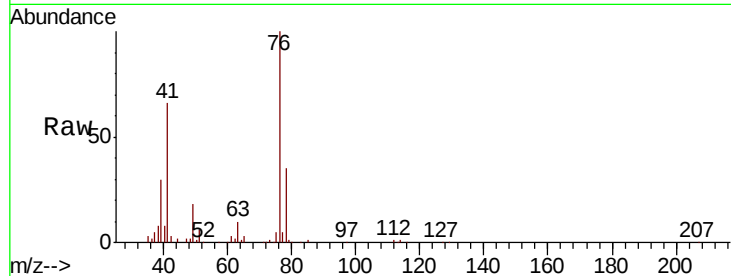
VSTDCCC050

Tot Ion: 76 Resp: 129244

Ion Ratio Lower Upper

76 100

78 34.8 27.0 40.4



#58

2-Chloroethyl Vinyl ether

Concen: 380.728 ug/l

RT: 7.30 min Scan# 676

Delta R.T. -0.04 min

Lab File: VF060972.D

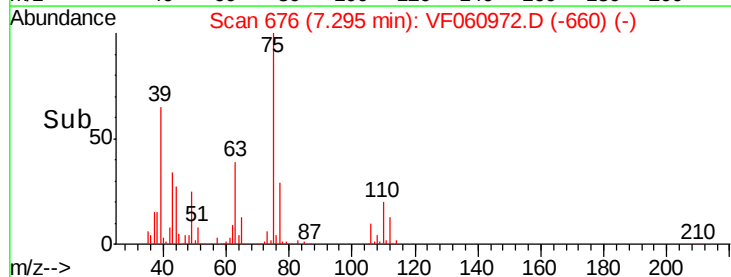
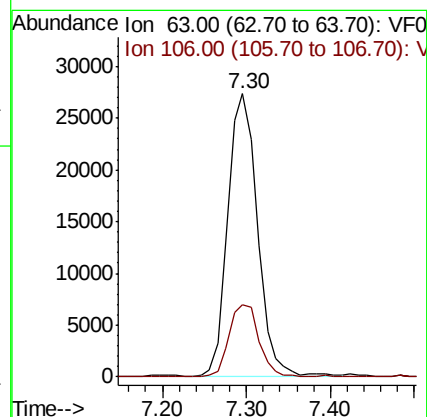
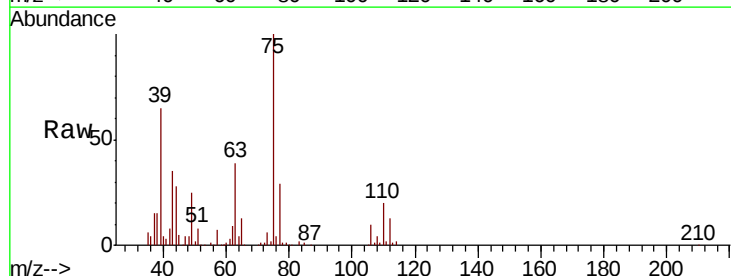
Acq: 11 Dec 2018 12:54

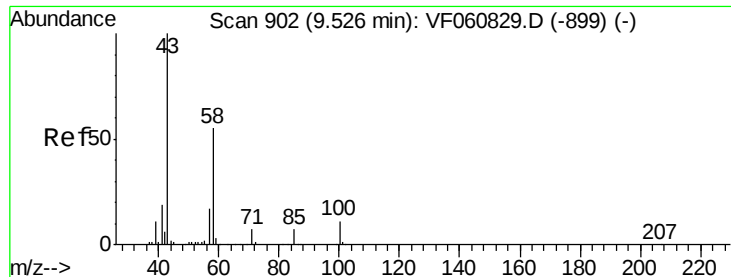
Tgt Ion: 63 Resp: 67497

Ion Ratio Lower Upper

63 100

106 25.7 23.0 34.6

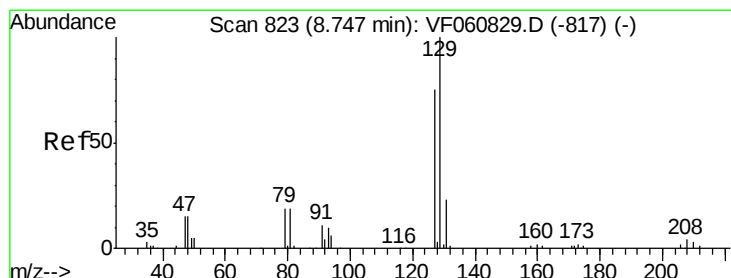
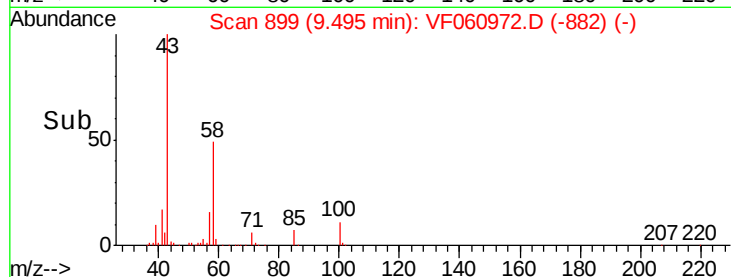
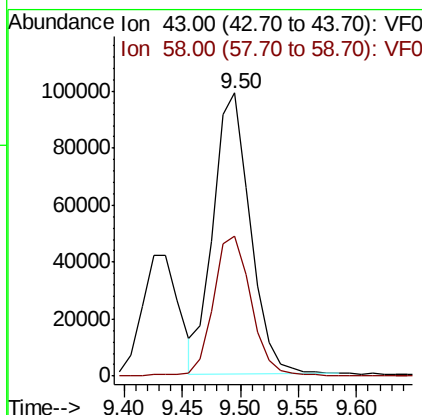
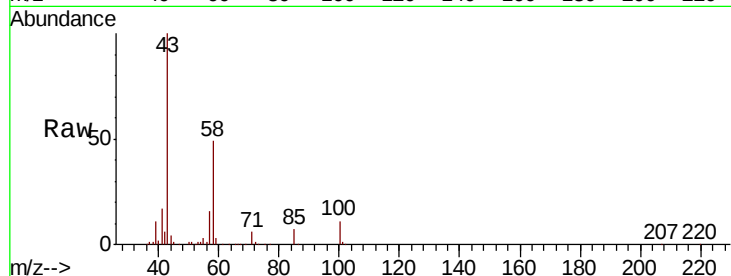




#59
2-Hexanone
Concen: 240.650 ug/l
RT: 9.50 min Scan# 899
Delta R.T. -0.03 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

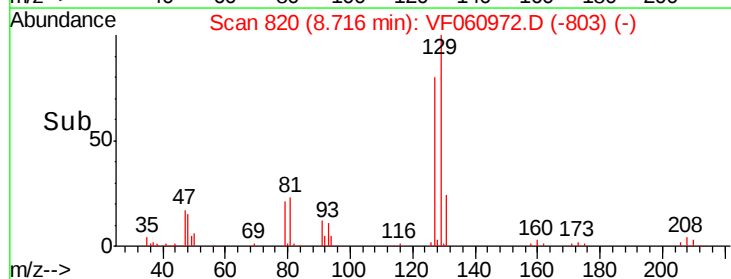
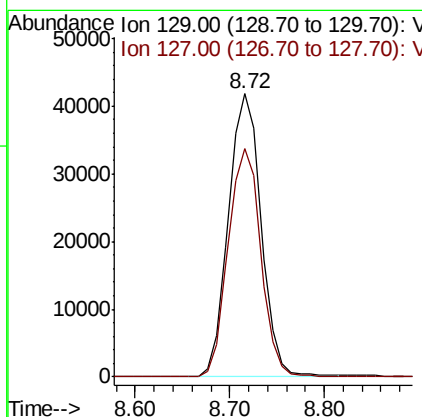
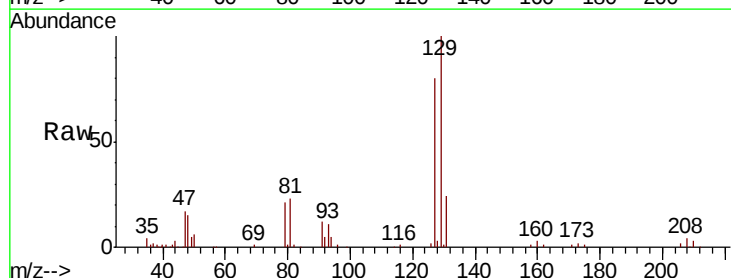
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

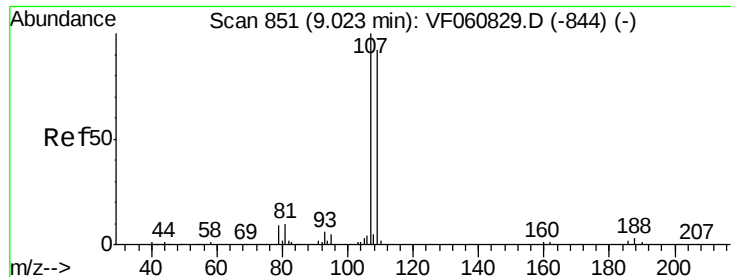
Tot Ion: 43 Resp: 218310
Ion Ratio Lower Upper
43 100
58 49.3 25.6 76.6



#60
Dibromochloromethane
Concen: 43.145 ug/l
RT: 8.72 min Scan# 820
Delta R.T. -0.03 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Tgt Ion: 129 Resp: 100299
Ion Ratio Lower Upper
129 100
127 80.5 37.3 111.9





#61

1,2-Dibromoethane

Concen: 45.957 ug/l

RT: 8.98 min Scan# 847

Delta R.T. -0.04 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

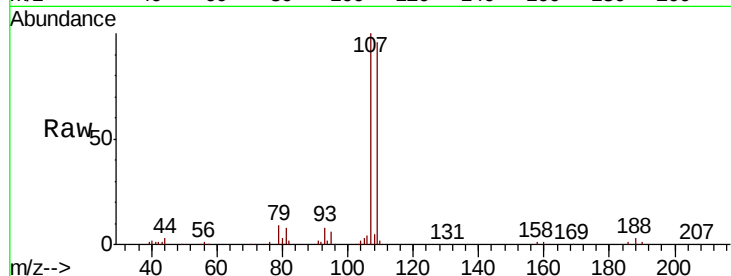
VSTDCCC050

Tot Ion:107 Resp: 77460

Ion Ratio Lower Upper

107 100

109 96.4 73.6 110.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.98

30000

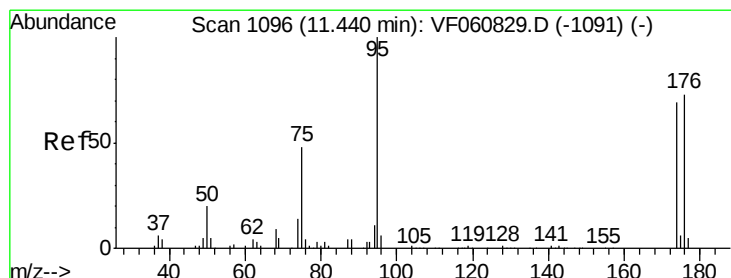
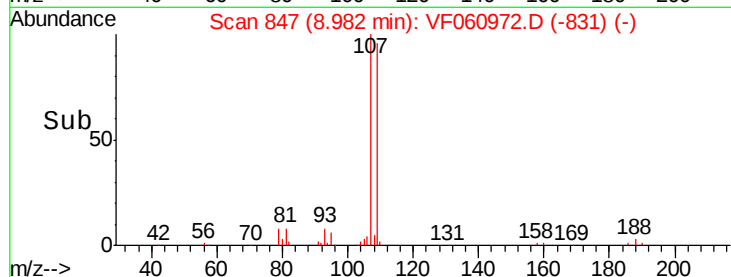
20000

10000

0

Time-->

8.90 9.00 9.10



#62

4-Bromofluorobenzene

Concen: 47.632 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.03 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

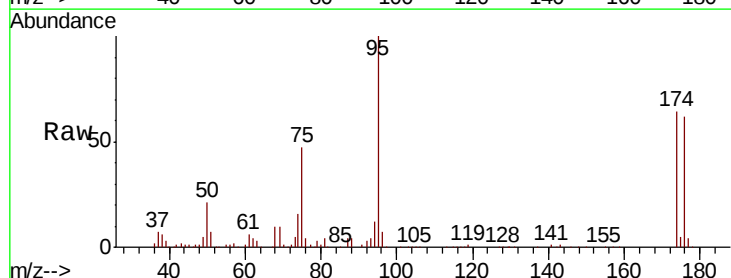
Tgt Ion: 95 Resp: 157381

Ion Ratio Lower Upper

95 100

174 64.3 0.0 138.2

176 61.9 0.0 146.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

11.41

120000

100000

80000

60000

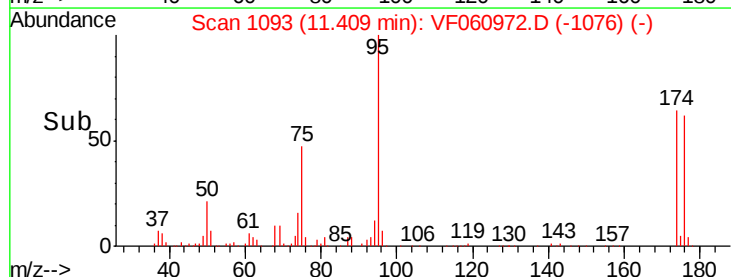
40000

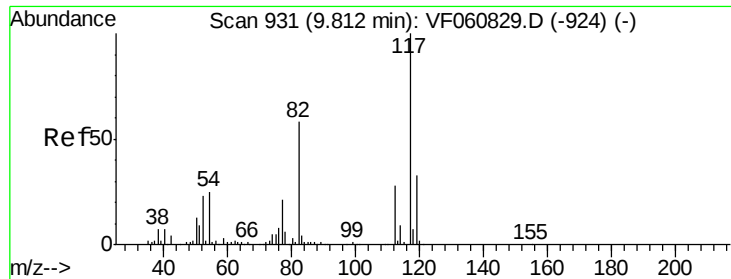
20000

0

Time-->

11.30 11.40 11.50

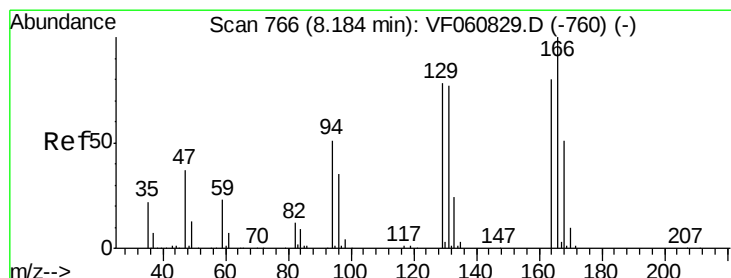
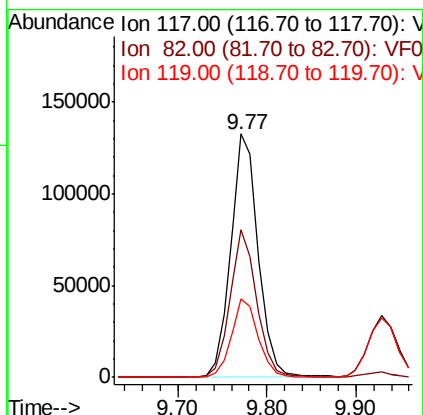
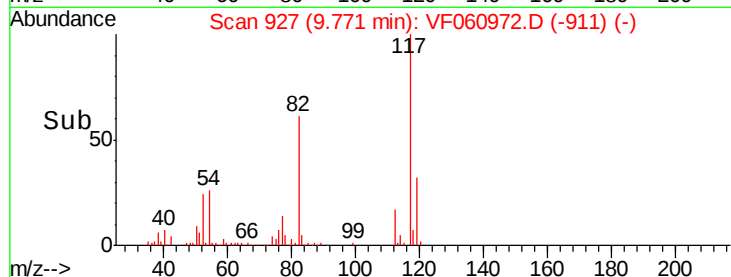
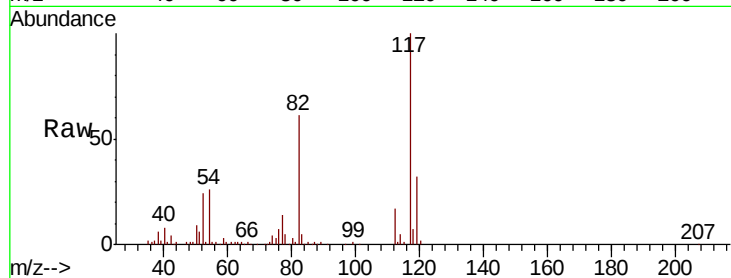




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.04 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

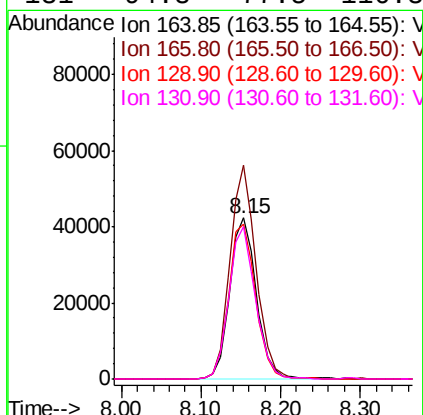
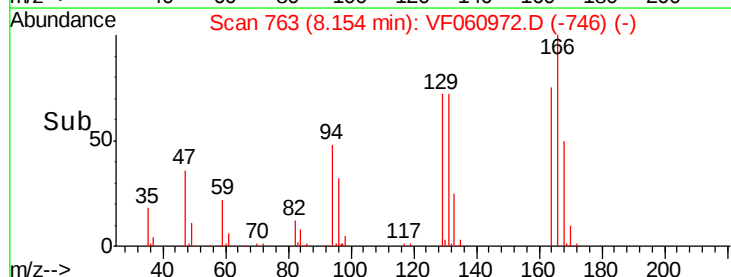
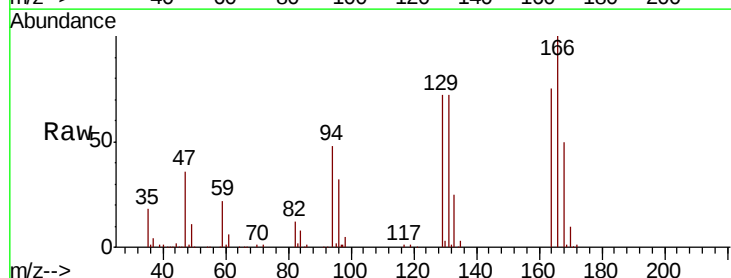
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

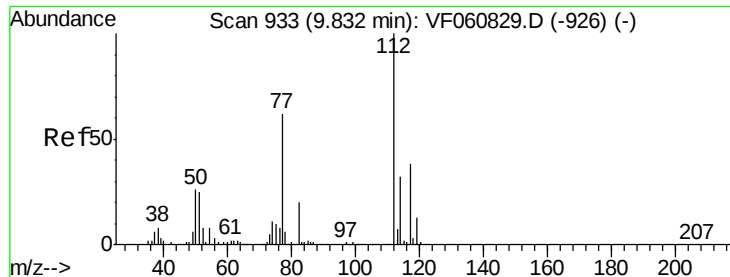
Tot Ion:117 Resp: 287136
Ion Ratio Lower Upper
117 100
82 60.7 46.6 69.8
119 32.4 26.4 39.6



#64
Tetrachloroethene
Concen: 45.261 ug/l
RT: 8.15 min Scan# 763
Delta R.T. -0.03 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Tgt Ion:164 Resp: 99264
Ion Ratio Lower Upper
164 100
166 132.5 100.3 150.5
129 95.9 77.9 116.9
131 94.8 77.5 116.3

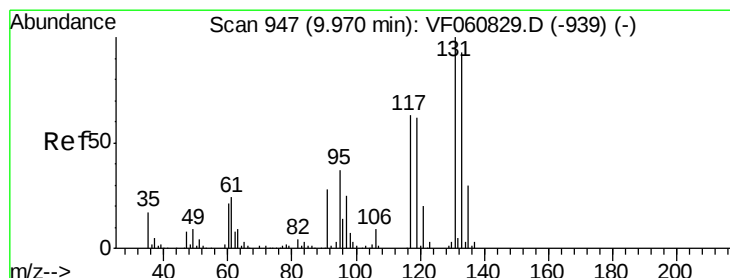
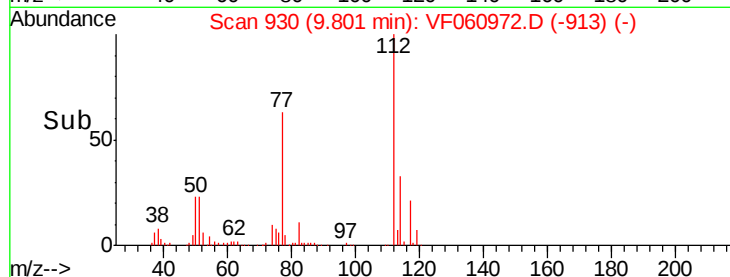
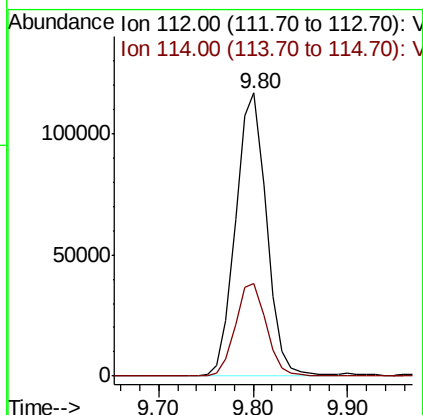
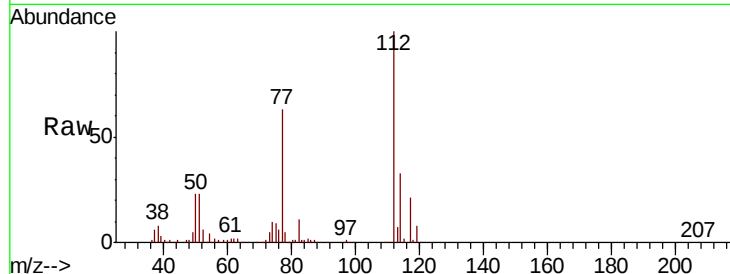




#65
Chlorobenzene
Concen: 47.364 ug/l
RT: 9.80 min Scan# 930
Delta R.T. -0.03 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

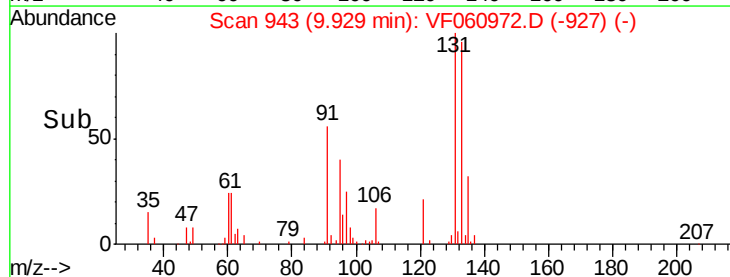
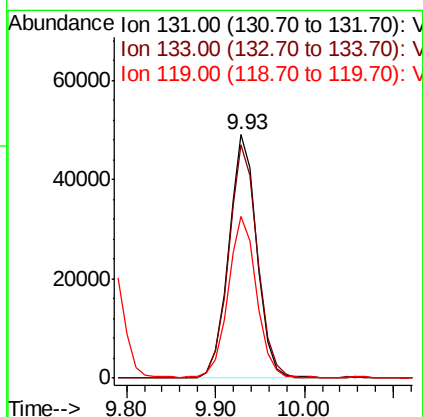
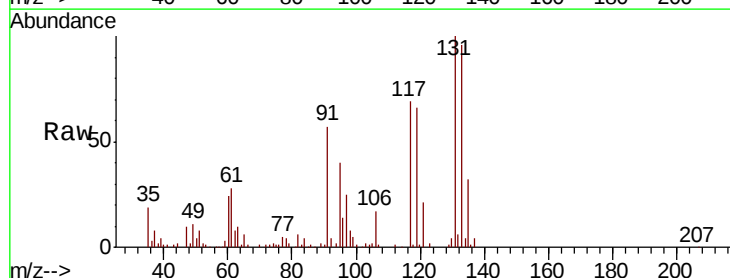
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 264570
Ion Ratio Lower Upper
112 100
114 32.6 26.0 39.0



#66
1,1,1,2-Tetrachloroethane
Concen: 45.218 ug/l
RT: 9.93 min Scan# 943
Delta R.T. -0.04 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Tgt Ion:131 Resp: 108585
Ion Ratio Lower Upper
131 100
133 96.0 46.5 139.3
119 66.5 31.1 93.3





#67

Ethyl Benzene

Concen: 46.519 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.03 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

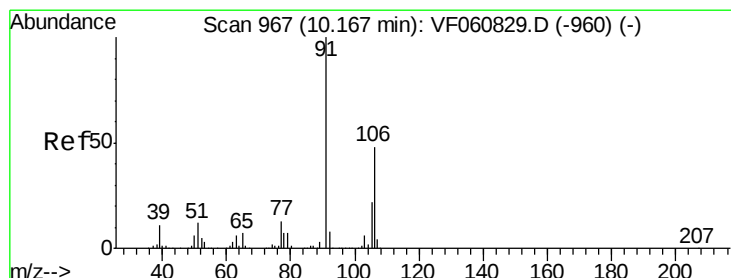
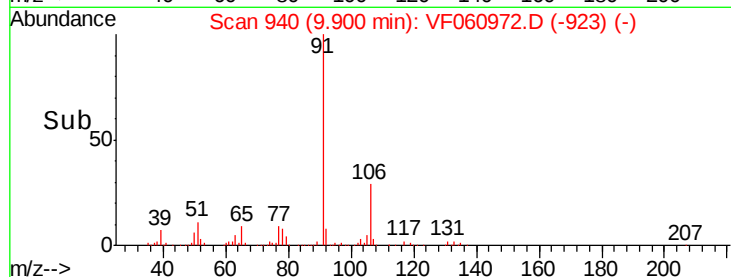
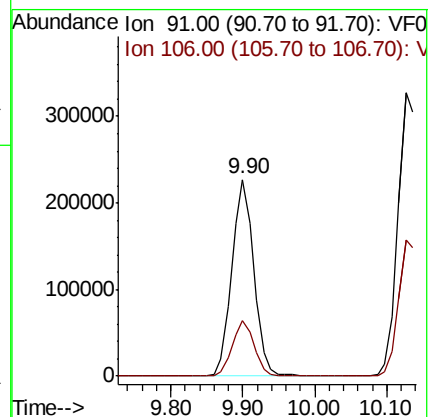
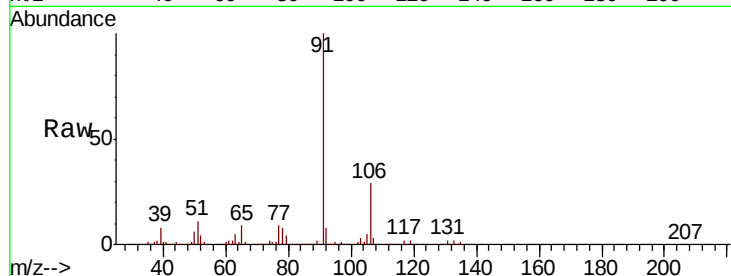
VSTDCCC050

Tot Ion: 91 Resp: 483758

Ion Ratio Lower Upper

91 100

106 28.5 22.2 33.2



#68

m/p-Xylenes

Concen: 90.143 ug/l

RT: 10.13 min Scan# 963

Delta R.T. -0.04 min

Lab File: VF060972.D

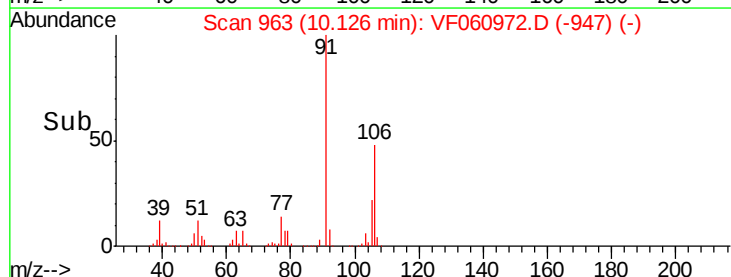
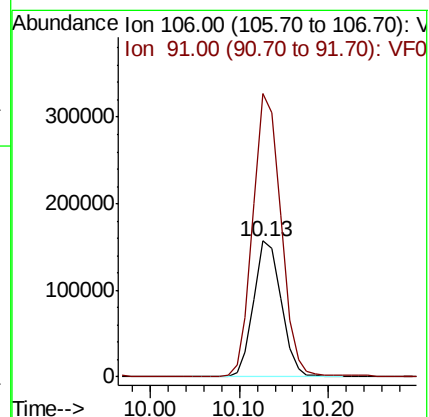
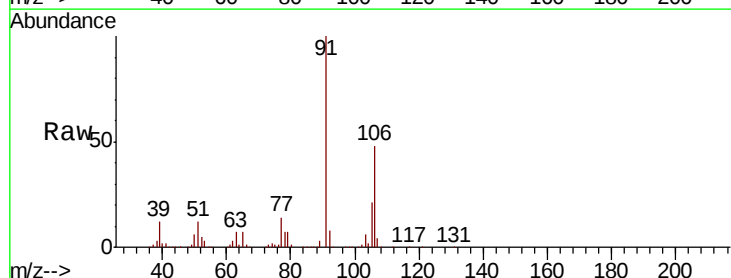
Acq: 11 Dec 2018 12:54

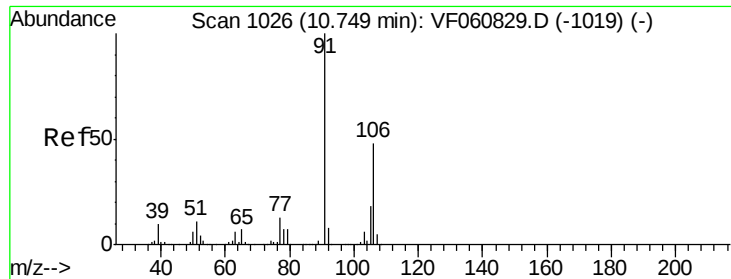
Tgt Ion: 106 Resp: 337153

Ion Ratio Lower Upper

106 100

91 208.7 166.7 250.1

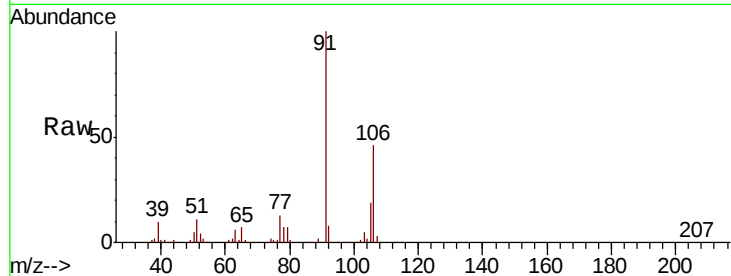




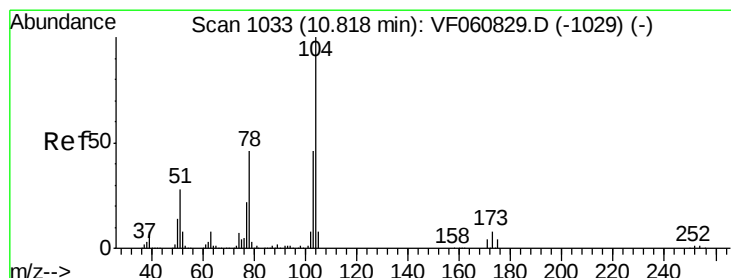
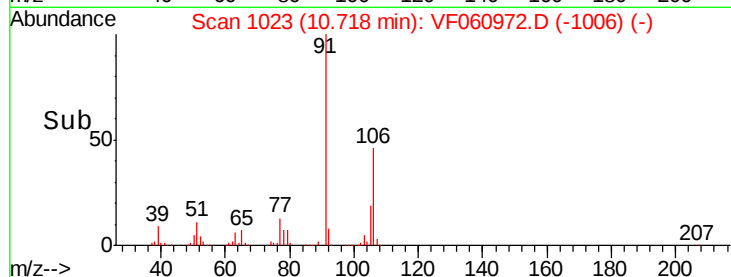
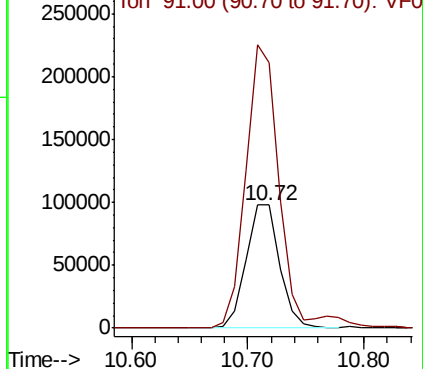
#69
o-Xylene
Concen: 47.509 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. -0.03 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 195946
Ion Ratio Lower Upper
106 100
91 215.3 104.8 314.6

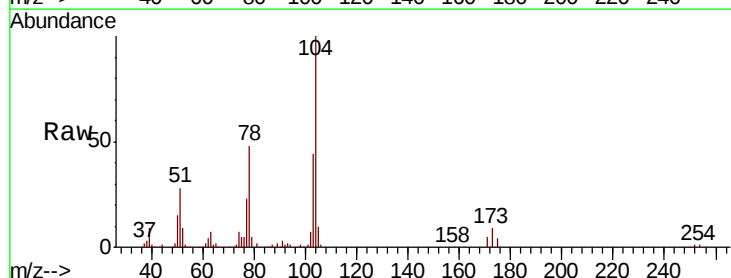


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

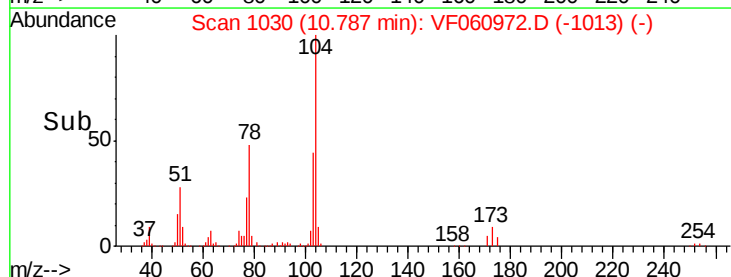
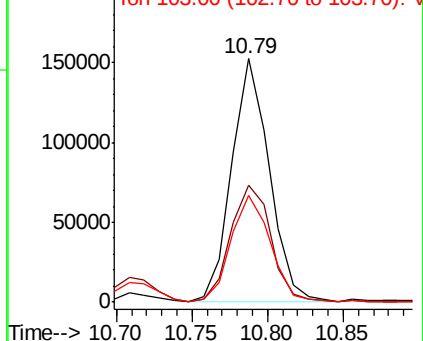


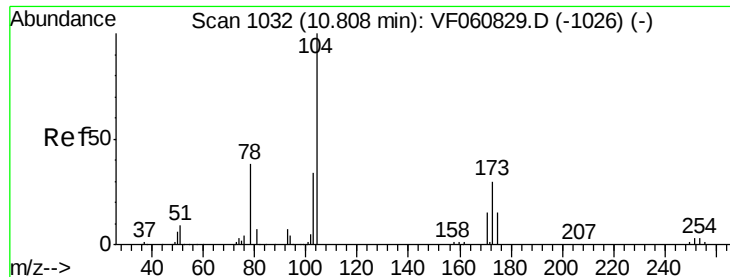
#70
Styrene
Concen: 46.080 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. -0.03 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Tgt Ion:104 Resp: 263452
Ion Ratio Lower Upper
104 100
78 47.8 37.3 55.9
103 43.9 36.8 55.2



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VF0
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 44.463 ug/l

RT: 10.78 min Scan# 1029

Delta R.T. -0.03 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

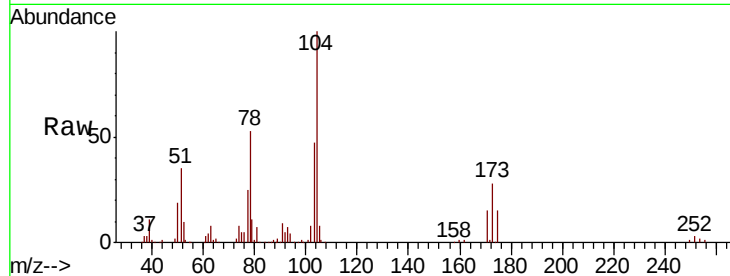
Tot Ion:173 Resp: 51574

Ion Ratio Lower Upper

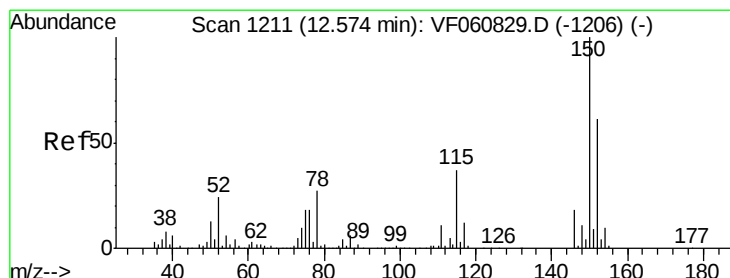
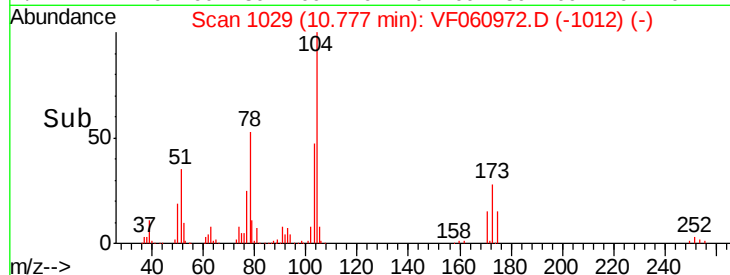
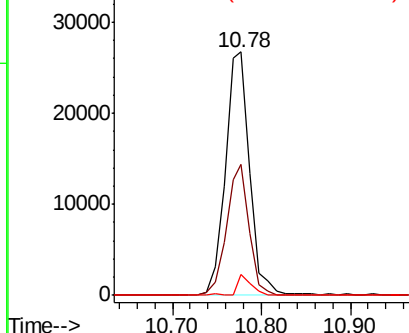
173 100

175 53.8 25.5 76.5

254 8.4 7.5 11.3



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. -0.02 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

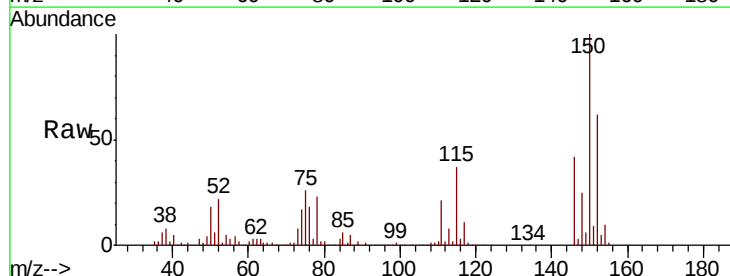
Tgt Ion:152 Resp: 139737

Ion Ratio Lower Upper

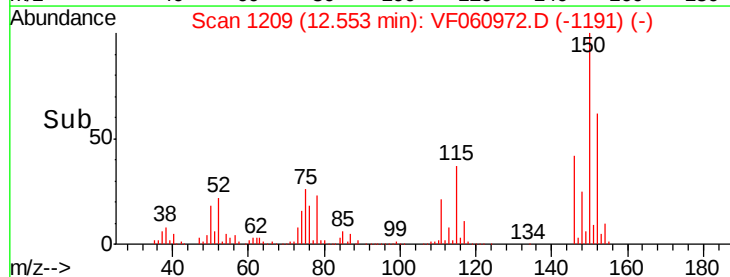
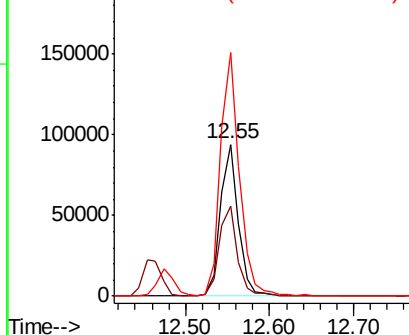
152 100

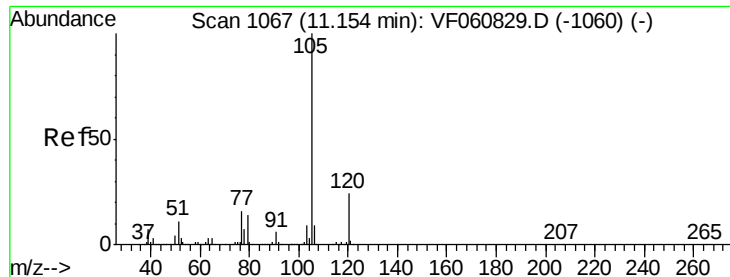
115 58.9 30.1 90.5

150 160.2 0.0 327.6



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: 52.604 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. -0.03 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

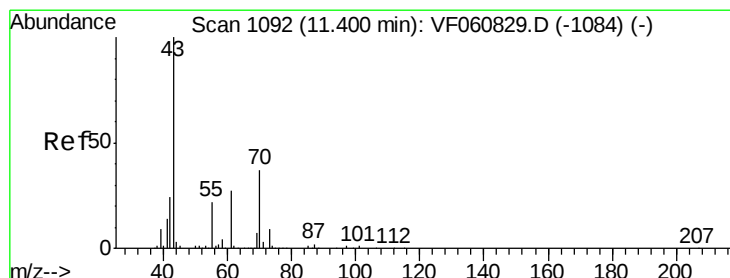
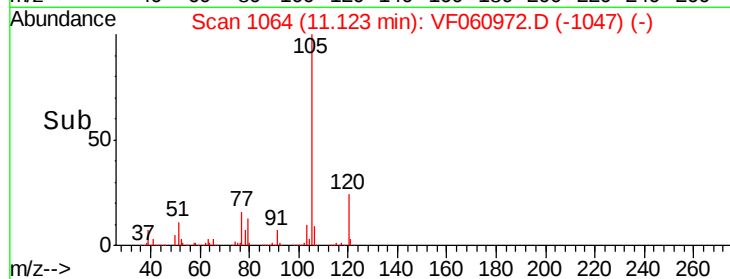
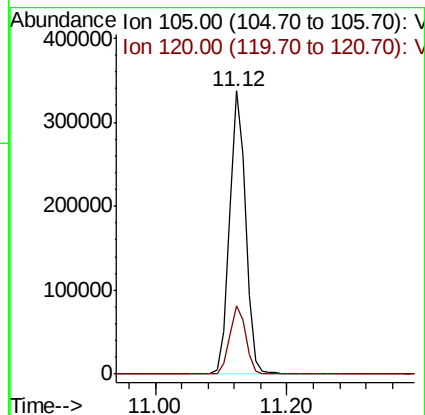
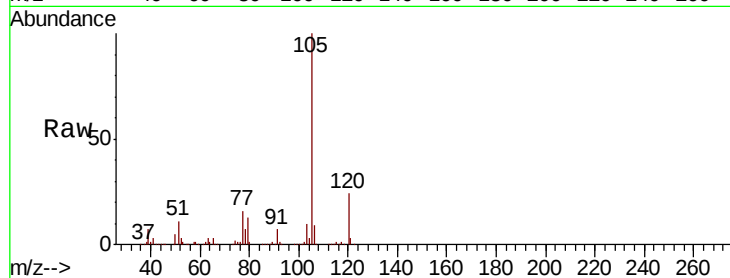
VSTDCCC050

Tot Ion:105 Resp: 580894

Ion Ratio Lower Upper

105 100

120 24.1 12.2 36.4



#74

N-ethyl acetate

Concen: 47.967 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.03 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Tgt Ion: 43 Resp: 122314

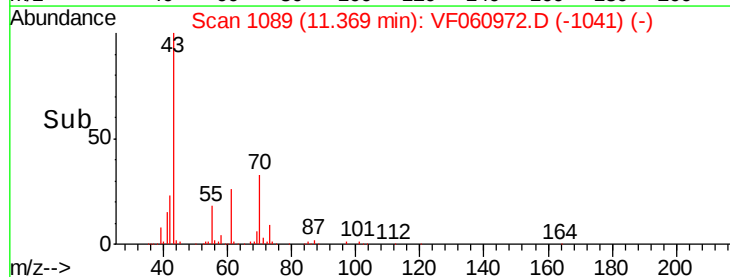
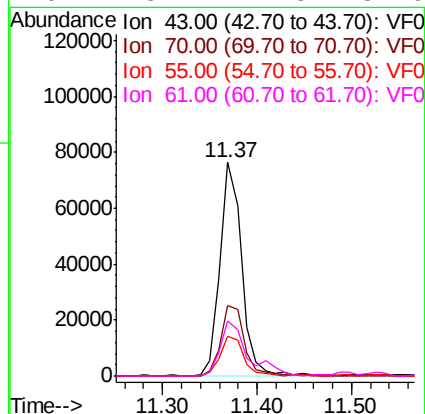
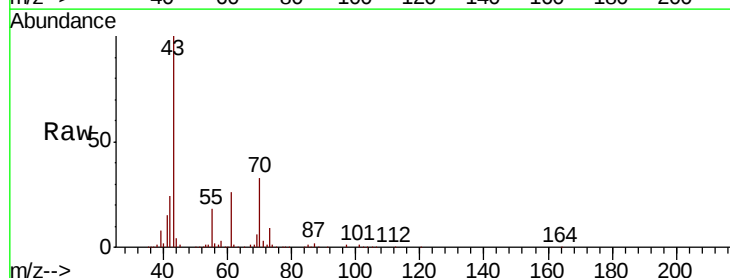
Ion Ratio Lower Upper

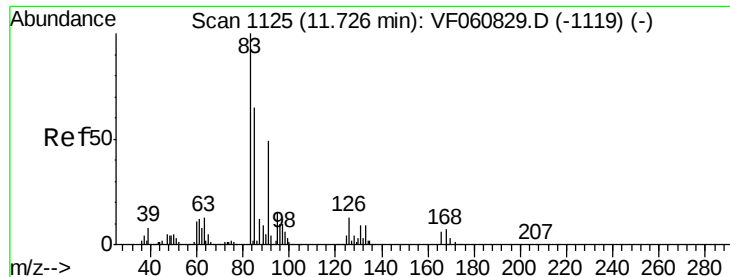
43 100

70 33.0 29.6 44.4

55 18.3 17.2 25.8

61 25.7 21.8 32.6





#75

1,1,2,2-Tetrachloroethane

Concen: 51.342 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. -0.03 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

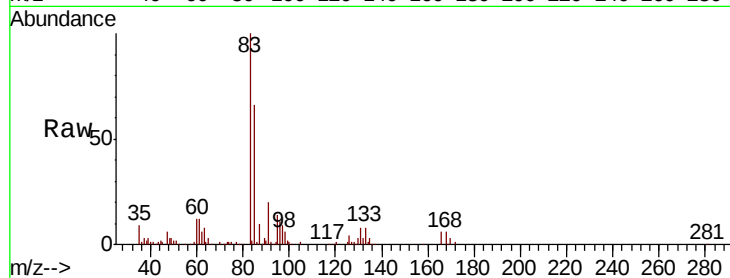
Tot Ion: 83 Resp: 93309

Ion Ratio Lower Upper

83 100

131 8.4 4.7 14.1

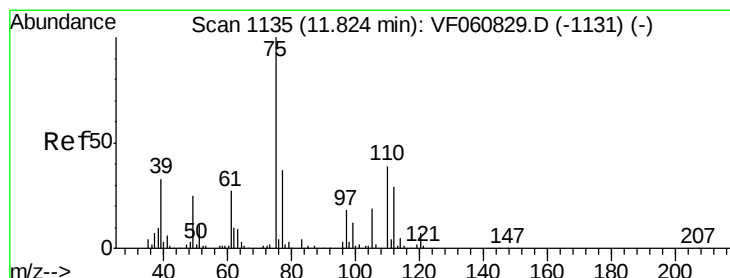
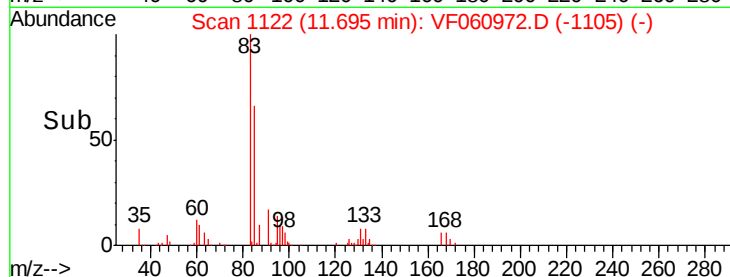
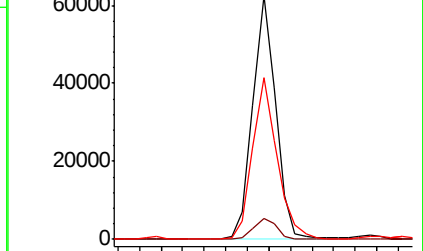
85 66.2 32.6 97.8



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 49.549 ug/l

RT: 11.79 min Scan# 1132

Delta R.T. -0.03 min

Lab File: VF060972.D

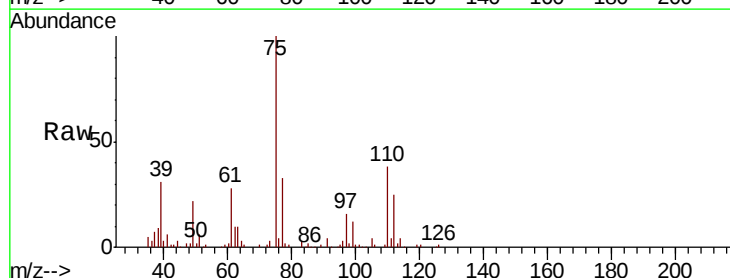
Acq: 11 Dec 2018 12:54

Tgt Ion: 75 Resp: 65455

Ion Ratio Lower Upper

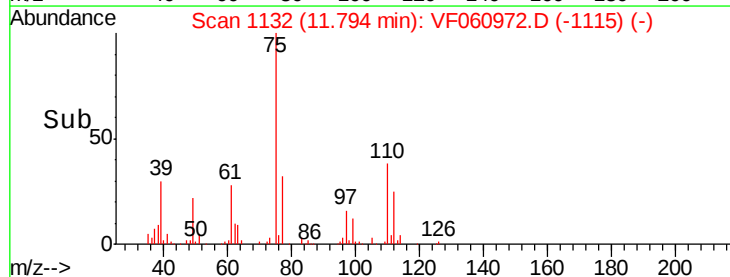
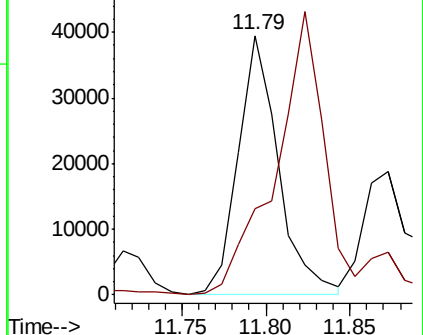
75 100

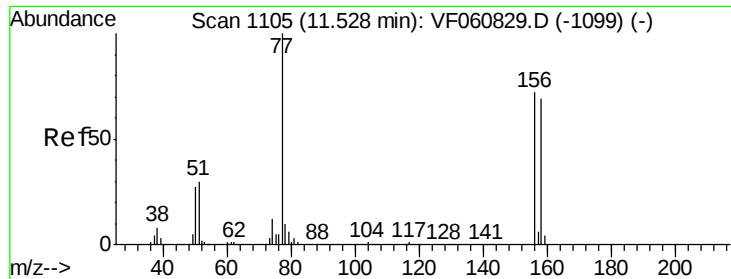
77 33.5 18.4 55.4



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 47.962 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. -0.03 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

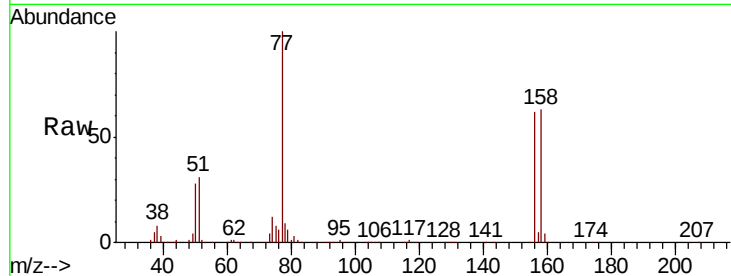
Tot Ion:156 Resp: 116115

Ion Ratio Lower Upper

156 100

77 160.9 69.7 209.0

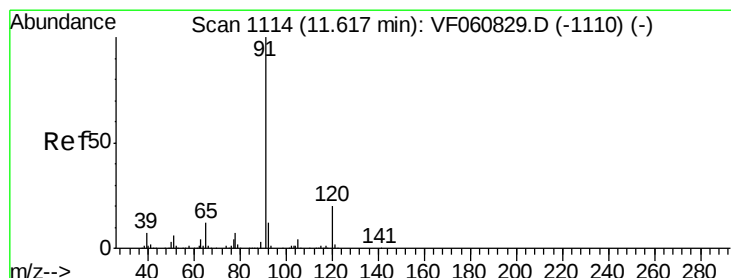
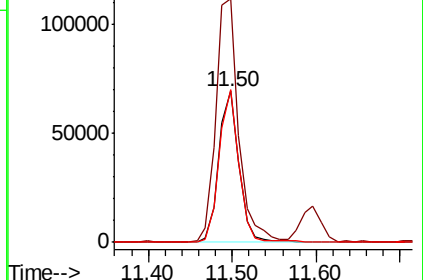
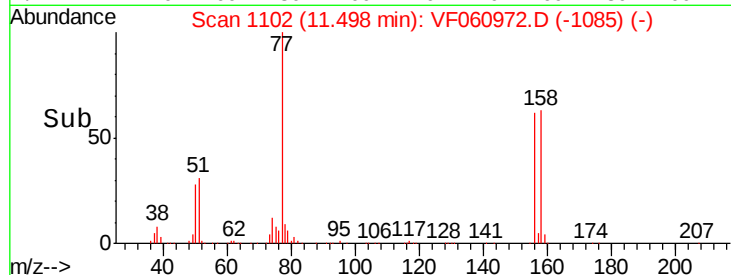
158 101.1 47.8 143.4



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: 51.335 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. -0.02 min

Lab File: VF060972.D

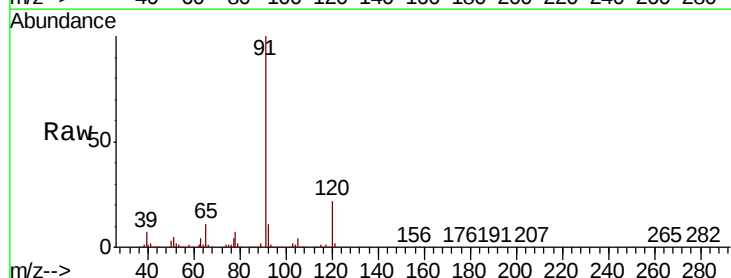
Acq: 11 Dec 2018 12:54

Tgt Ion: 91 Resp: 663861

Ion Ratio Lower Upper

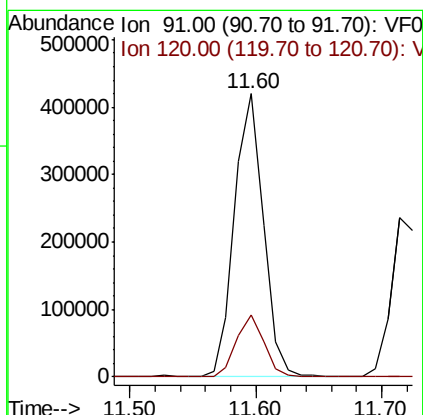
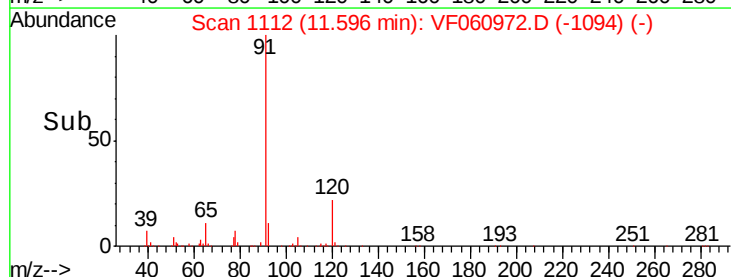
91 100

120 21.7 10.3 30.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

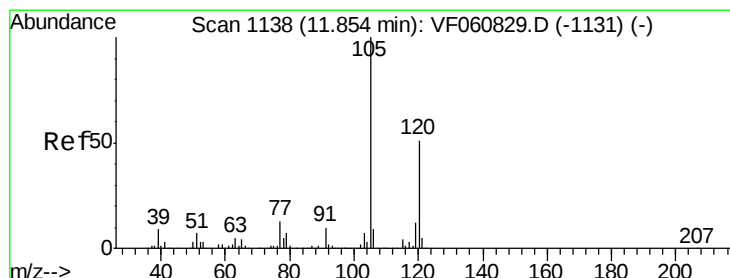
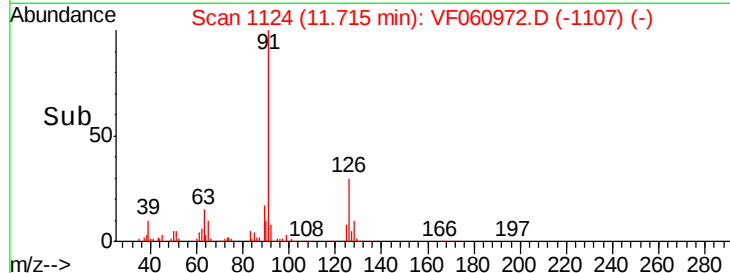
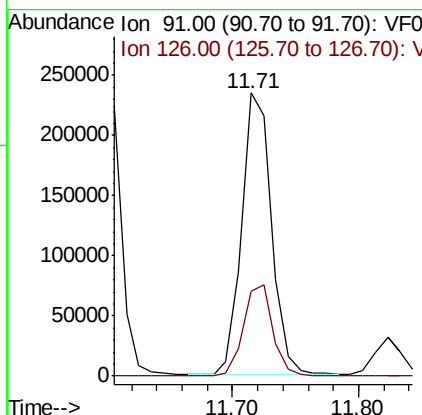
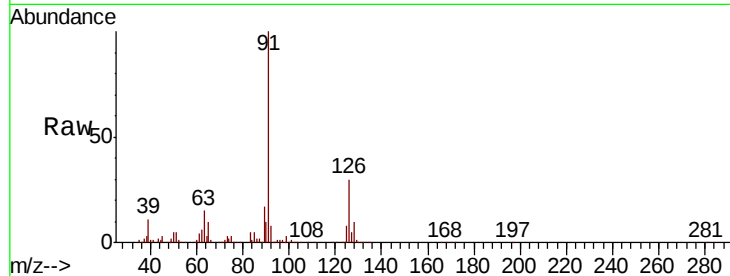




#79
 2-Chlorotoluene
 Concen: 51.455 ug/l
 RT: 11.71 min Scan# 1124
 Delta R.T. -0.03 min
 Lab File: VF060972.D
 Acq: 11 Dec 2018 12:54

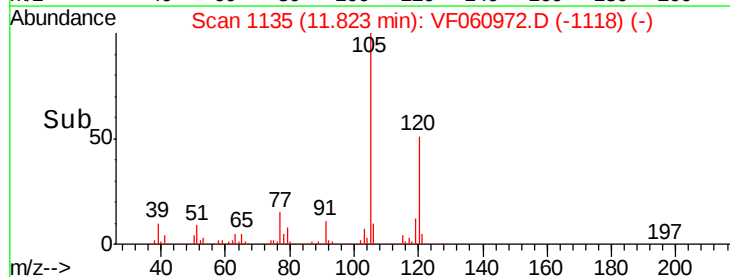
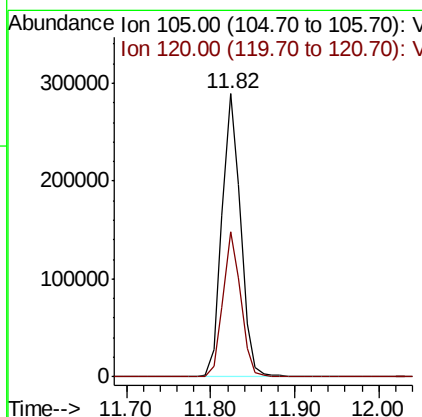
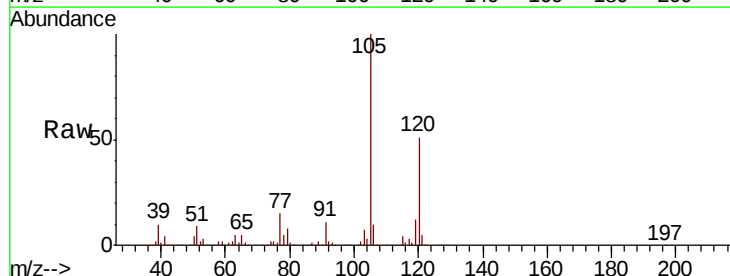
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

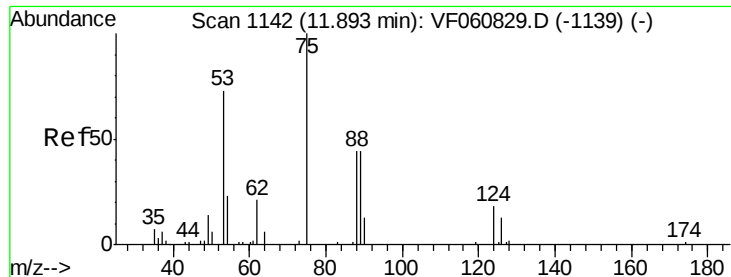
Tot Ion: 91 Resp: 381537
 Ion Ratio Lower Upper
 91 100
 126 29.9 15.9 47.6



#80
 1,3,5-Trimethylbenzene
 Concen: 49.837 ug/l
 RT: 11.82 min Scan# 1135
 Delta R.T. -0.03 min
 Lab File: VF060972.D
 Acq: 11 Dec 2018 12:54

Tgt Ion: 105 Resp: 446774
 Ion Ratio Lower Upper
 105 100
 120 51.2 25.8 77.3

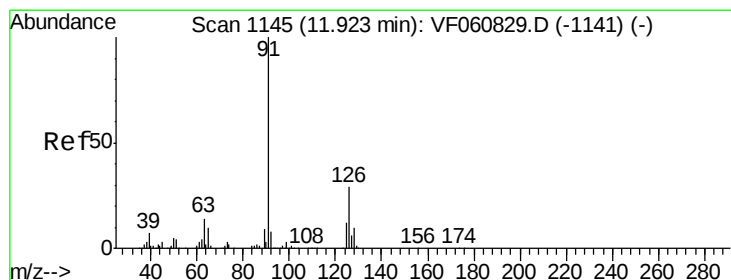
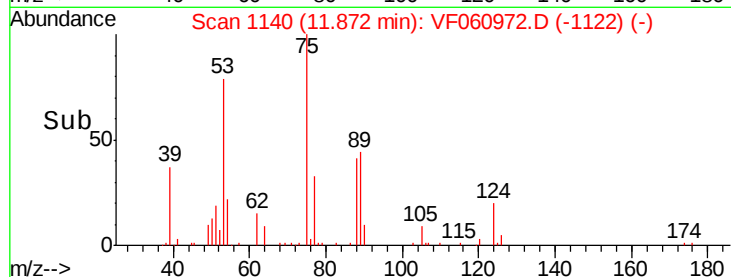
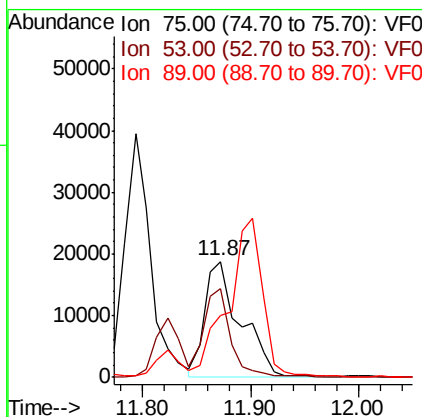
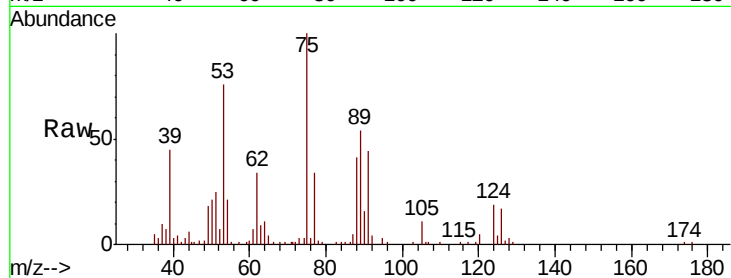




#81
trans-1,4-Dichloro-2-butene
Concen: 66.249 ug/l
RT: 11.87 min Scan# 1140
Delta R.T. -0.02 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

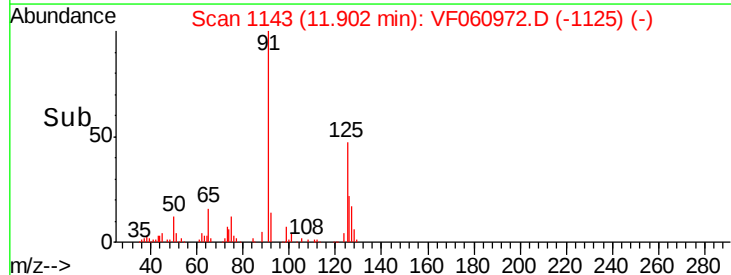
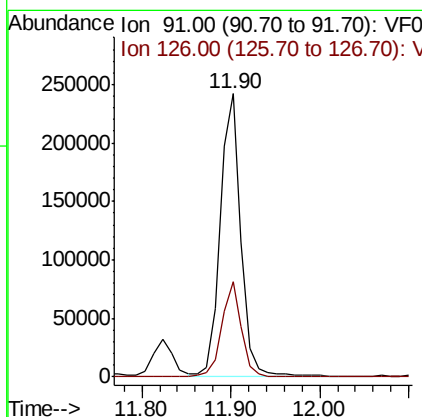
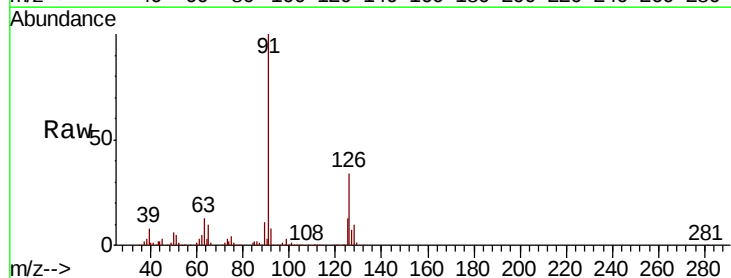
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 75 Resp: 42879
Ion Ratio Lower Upper
75 100
53 76.5 65.9 98.9
89 53.6 38.8 58.2



#82
4-Chlorotoluene
Concen: 49.994 ug/l
RT: 11.90 min Scan# 1143
Delta R.T. -0.02 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Tgt Ion: 91 Resp: 390124
Ion Ratio Lower Upper
91 100
126 33.8 14.8 44.4

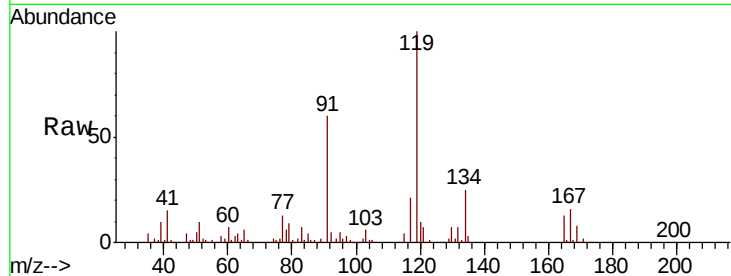




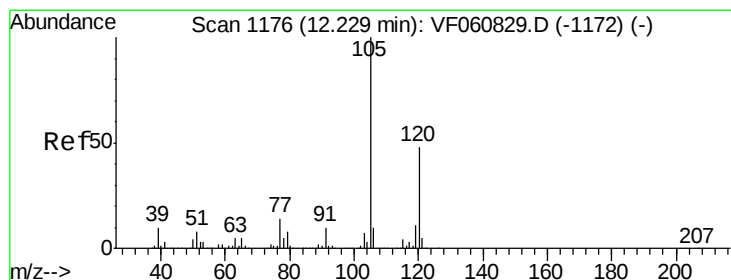
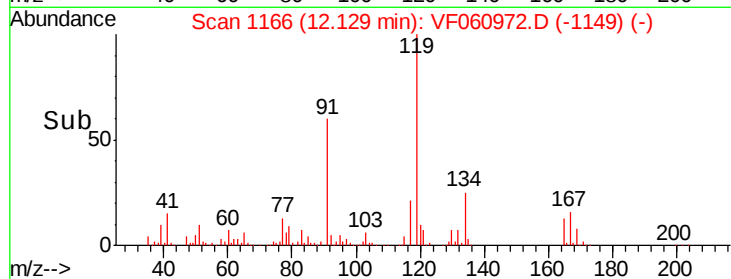
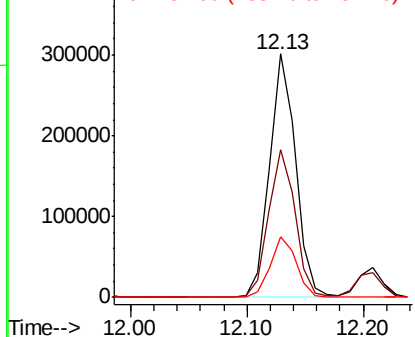
#83
tert-Butylbenzene
Concen: 51.295 ug/l
RT: 12.13 min Scan# 1166
Delta R.T. -0.03 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:119 Resp: 468410
Ion Ratio Lower Upper
119 100
91 60.4 30.1 90.3
134 25.0 12.6 37.8

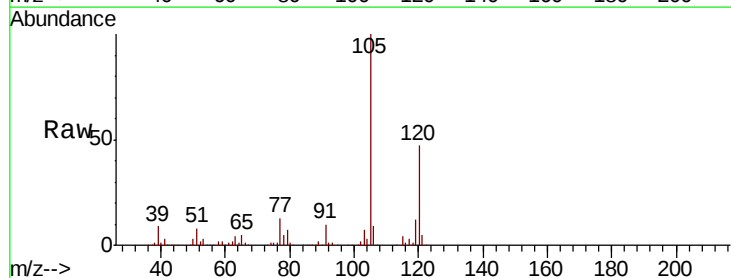


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): VF0
Ion 134.00 (133.70 to 134.70): V

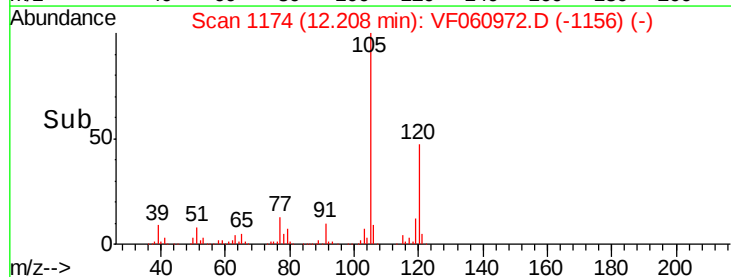
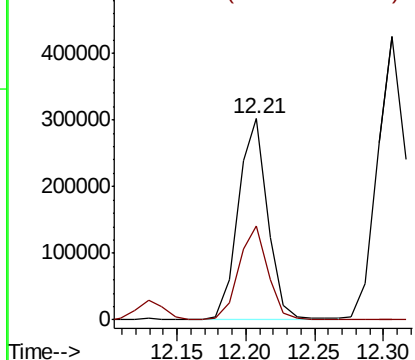


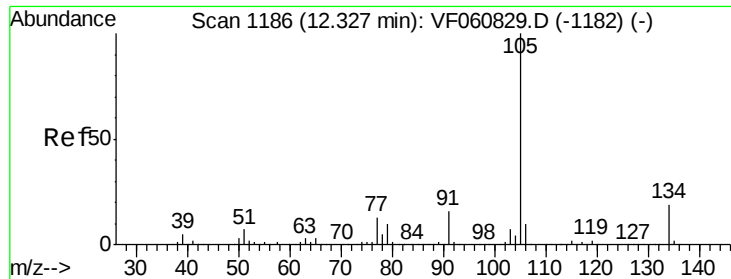
#84
1,2,4-Trimethylbenzene
Concen: 50.354 ug/l
RT: 12.21 min Scan# 1174
Delta R.T. -0.02 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Tgt Ion:105 Resp: 450518
Ion Ratio Lower Upper
105 100
120 47.0 23.8 71.5



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

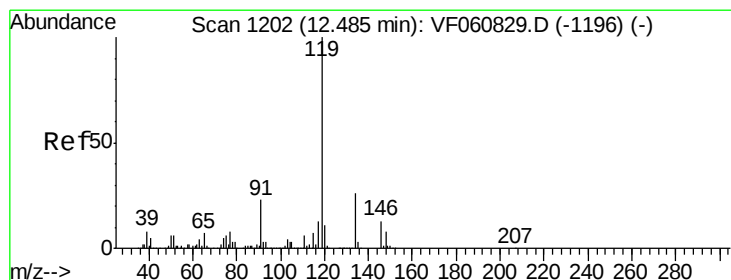
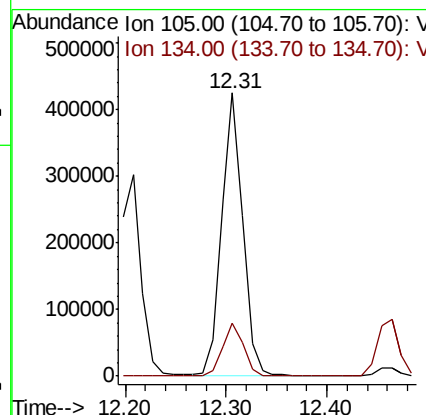
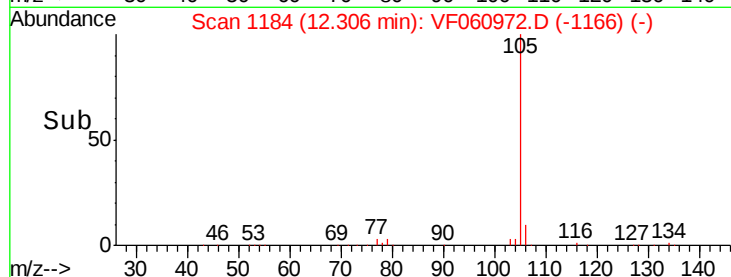
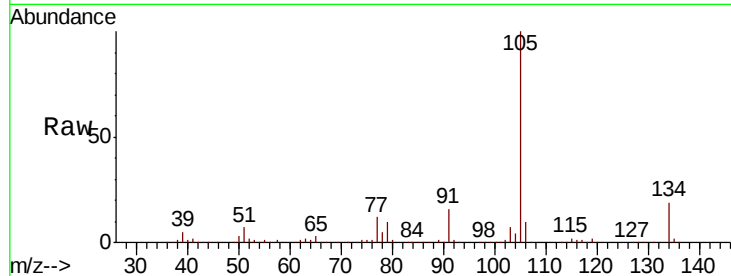




#85
 sec-Butylbenzene
 Concen: 49.936 ug/l
 RT: 12.31 min Scan# 1184
 Delta R.T. -0.02 min
 Lab File: VF060972.D
 Acq: 11 Dec 2018 12:54

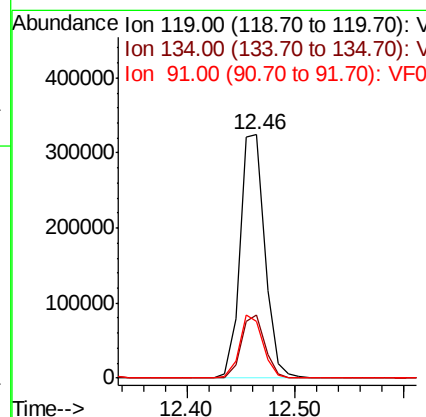
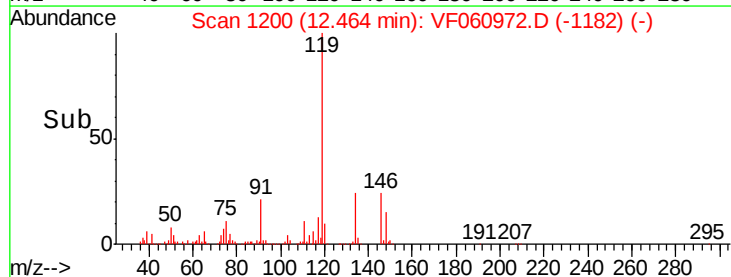
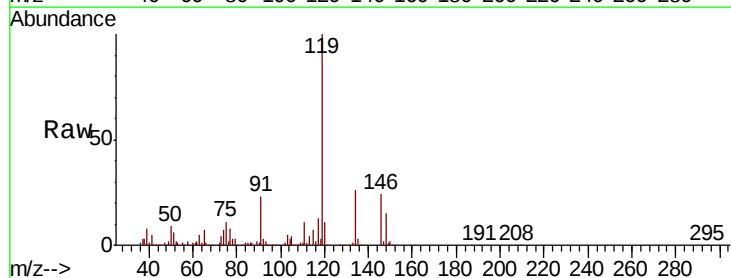
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

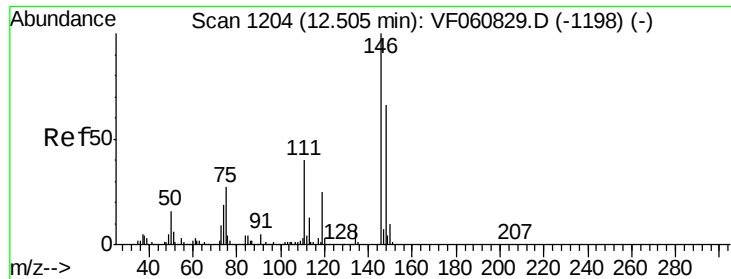
Tot Ion:105 Resp: 624239
 Ion Ratio Lower Upper
 105 100
 134 18.9 9.5 28.5



#86
 p-Isopropyltoluene
 Concen: 49.475 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.02 min
 Lab File: VF060972.D
 Acq: 11 Dec 2018 12:54

Tgt Ion:119 Resp: 518529
 Ion Ratio Lower Upper
 119 100
 134 26.1 12.9 38.6
 91 23.3 11.8 35.3

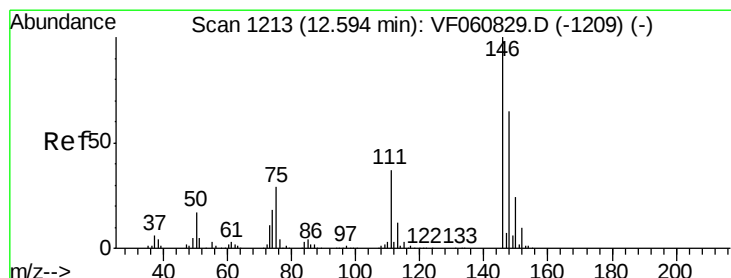
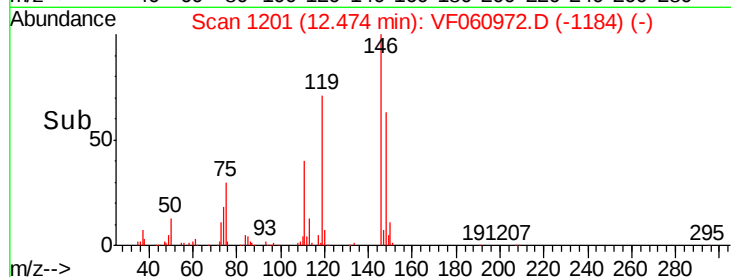
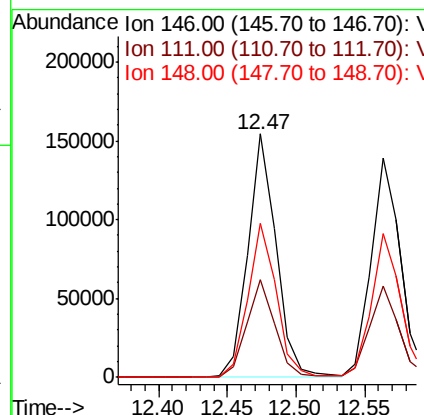
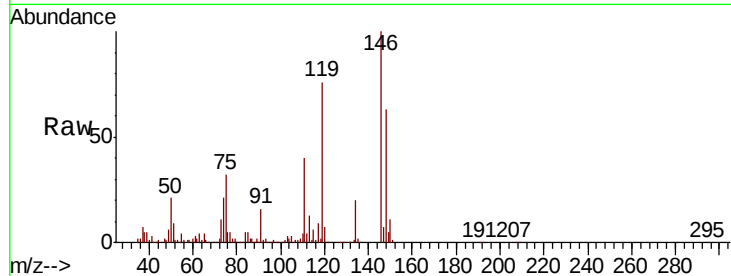




#87
 1,3-Dichlorobenzene
 Concen: 48.269 ug/l
 RT: 12.47 min Scan# 1201
 Delta R.T. -0.03 min
 Lab File: VF060972.D
 Acq: 11 Dec 2018 12:54

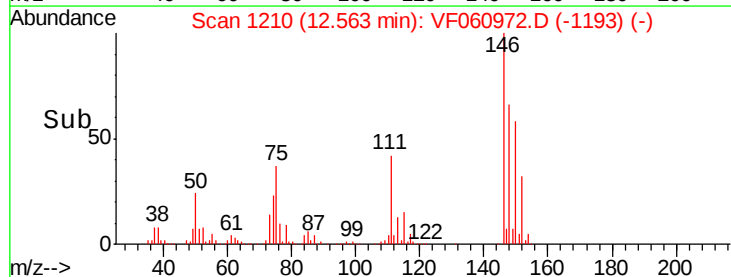
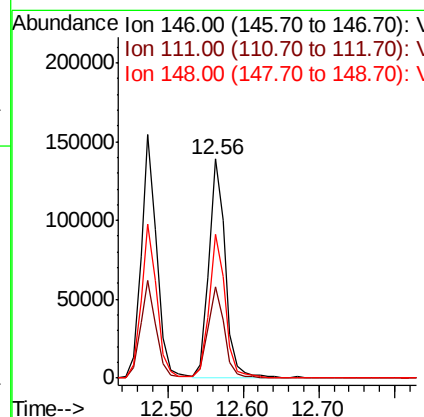
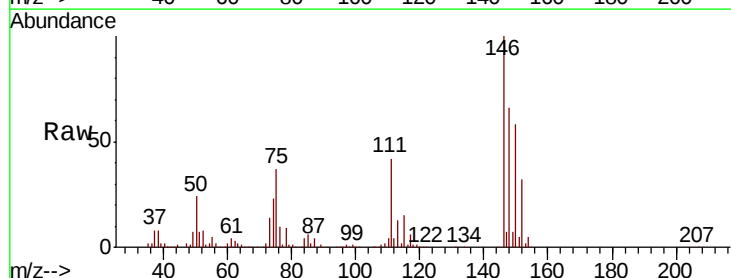
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

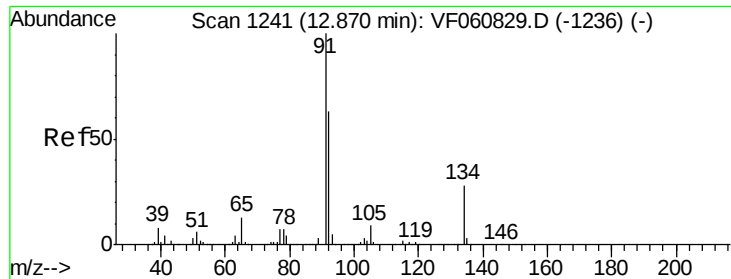
Tot Ion	Ratio	Lower	Upper
146	100		
111	39.9	20.0	59.9
148	63.1	32.9	98.6



#88
 1,4-Dichlorobenzene
 Concen: 47.033 ug/l
 RT: 12.56 min Scan# 1210
 Delta R.T. -0.03 min
 Lab File: VF060972.D
 Acq: 11 Dec 2018 12:54

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.0	18.9	56.7
148	65.6	32.3	96.9

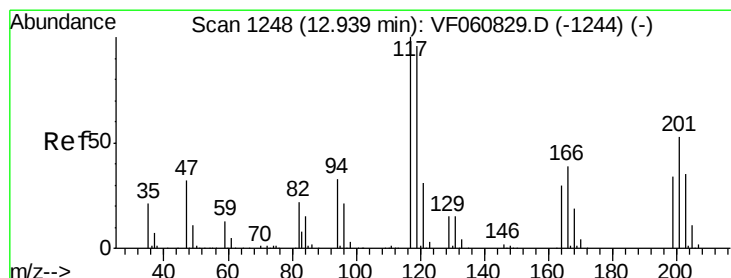
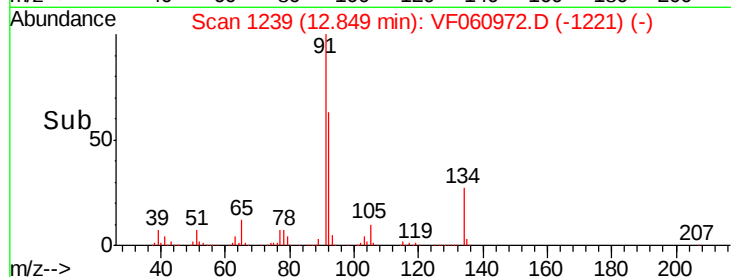
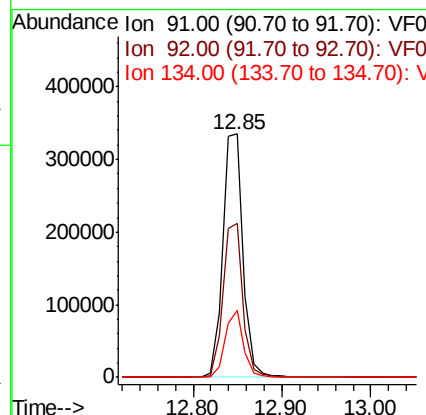
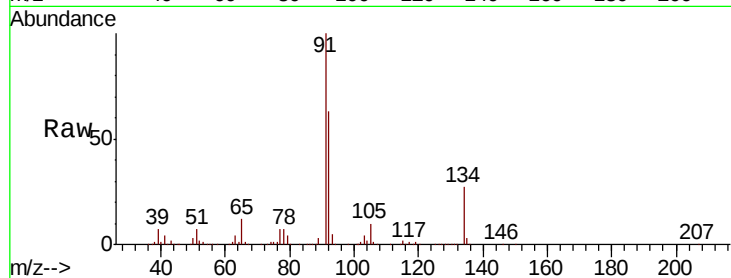




#89
n-Butylbenzene
Concen: 50.411 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. -0.02 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

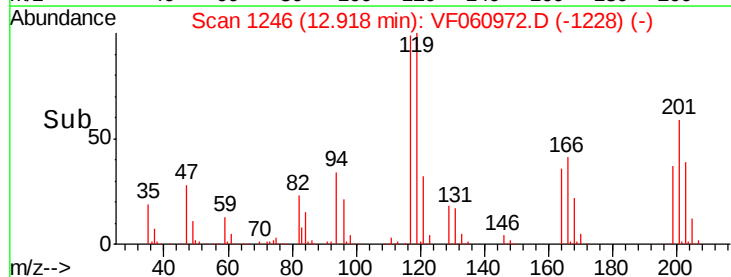
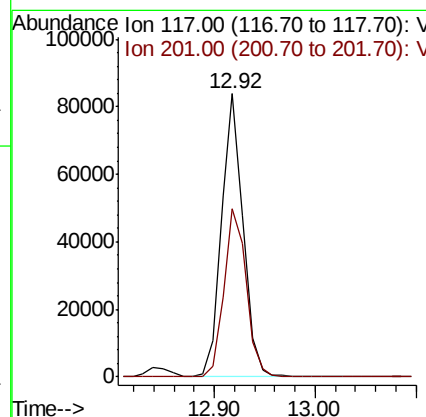
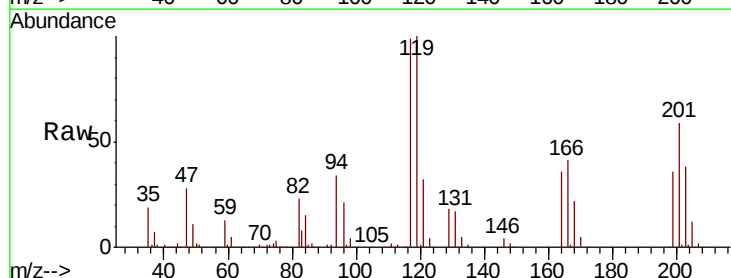
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

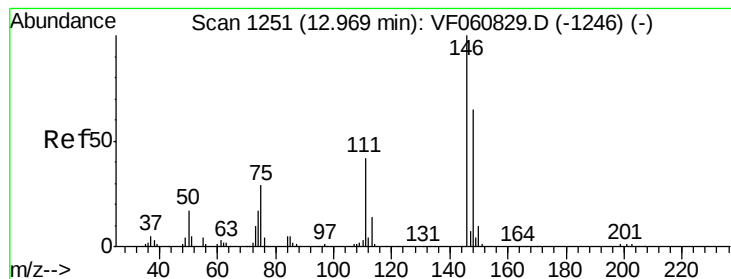
Tot Ion: 91 Resp: 534231
Ion Ratio Lower Upper
91 100
92 63.2 31.6 94.7
134 27.3 13.8 41.4



#90
Hexachloroethane
Concen: 49.752 ug/l
RT: 12.92 min Scan# 1246
Delta R.T. -0.02 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Tgt Ion: 117 Resp: 125562
Ion Ratio Lower Upper
117 100
201 59.6 26.7 80.1





#91

1,2-Dichlorobenzene

Concen: 48.120 ug/l

RT: 12.95 min Scan# 1249

Delta R.T. -0.02 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

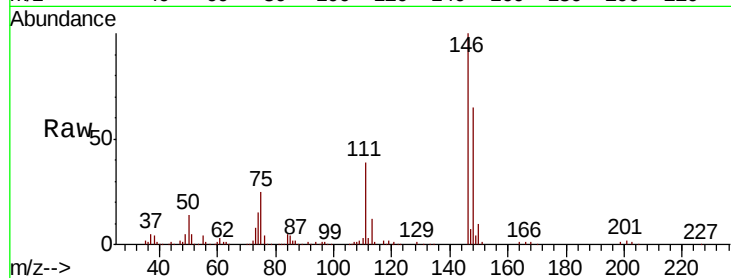
Tot Ion:146 Resp: 209853

Ion Ratio Lower Upper

146 100

111 39.1 21.2 63.6

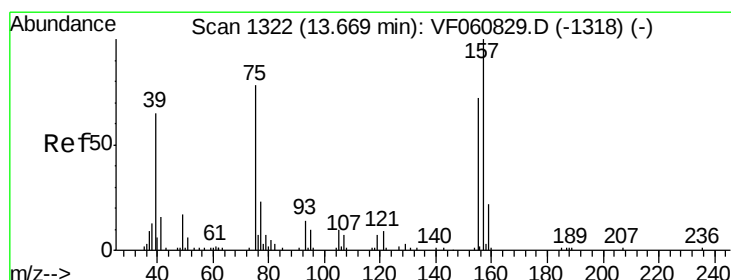
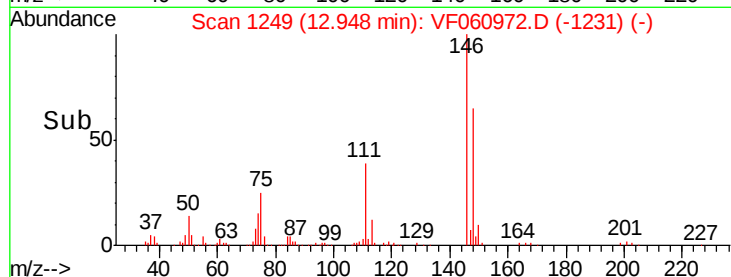
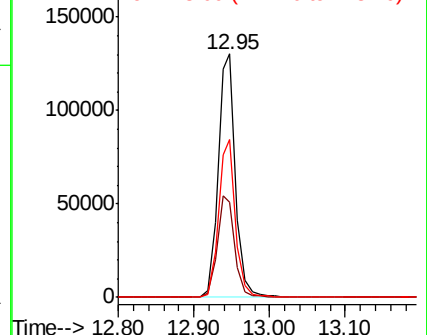
148 64.9 32.5 97.5



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: 48.555 ug/l

RT: 13.65 min Scan# 1320

Delta R.T. -0.02 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

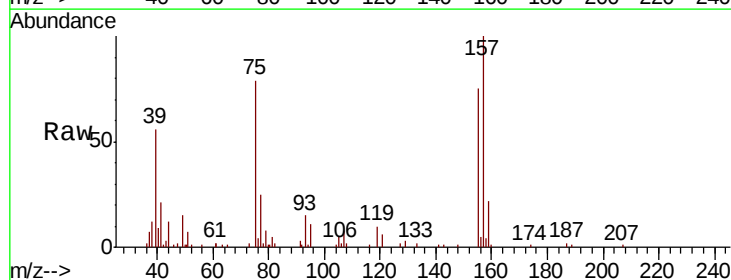
Tgt Ion: 75 Resp: 17061

Ion Ratio Lower Upper

75 100

155 95.6 45.6 136.9

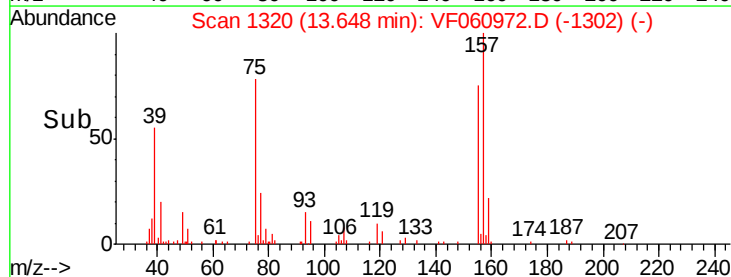
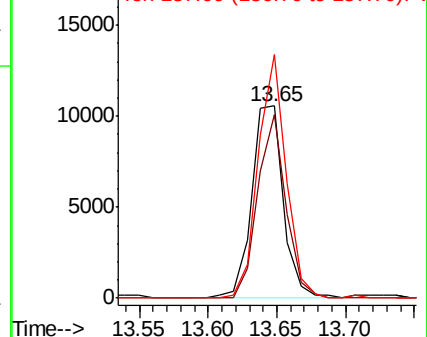
157 126.7 63.8 191.5

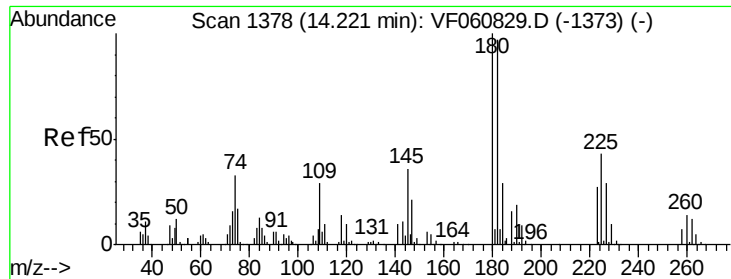


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

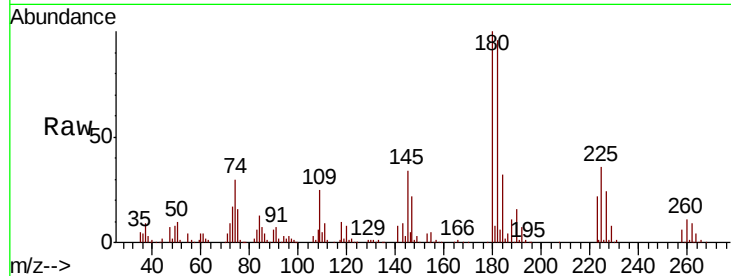




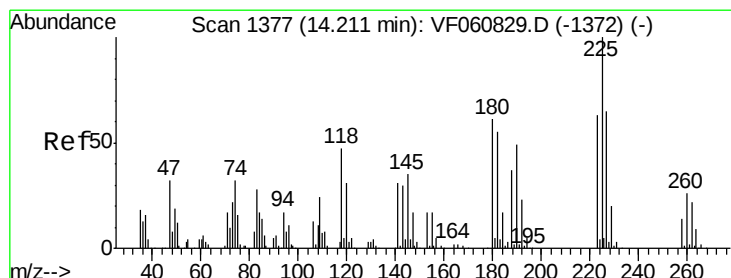
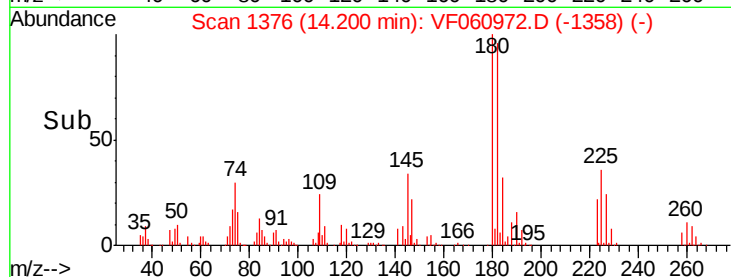
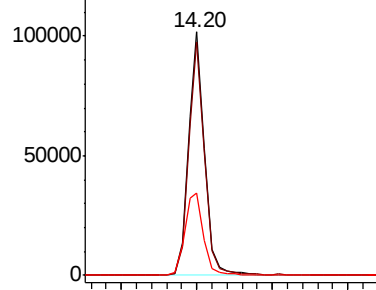
#93
 1,2,4-Trichlorobenzene
 Concen: 49.841 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.02 min
 Lab File: VF060972.D
 Acq: 11 Dec 2018 12:54

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion:180 Resp: 151872
 Ion Ratio Lower Upper
 180 100
 182 96.1 48.5 145.5
 145 34.0 18.1 54.3

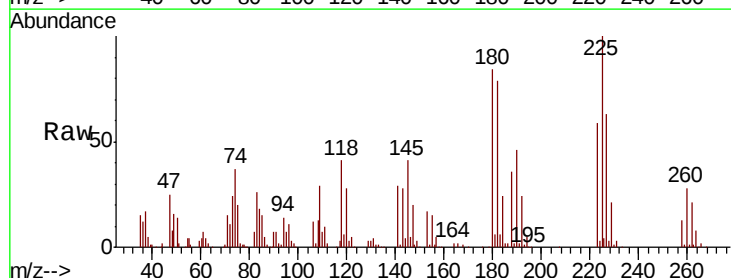


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

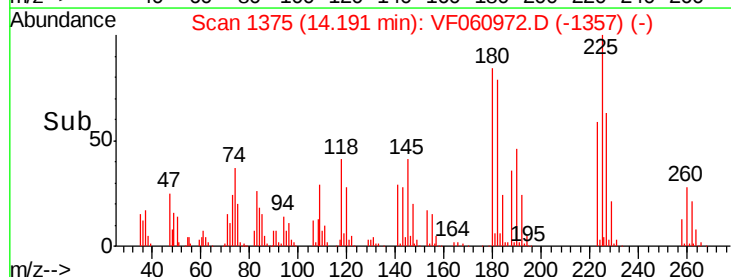
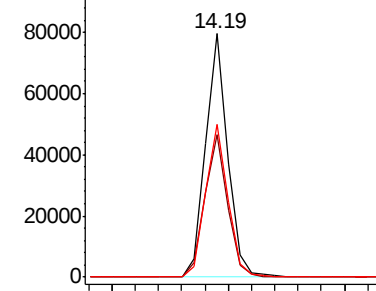


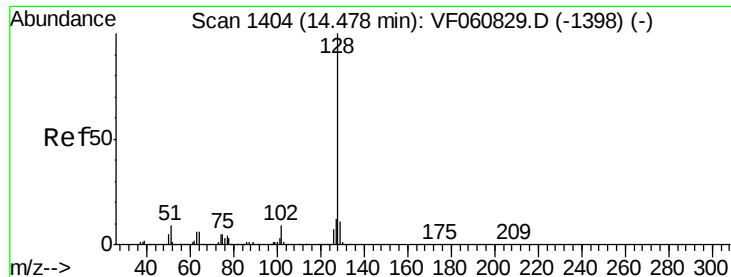
#94
 Hexachlorobutadiene
 Concen: 51.549 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.02 min
 Lab File: VF060972.D
 Acq: 11 Dec 2018 12:54

Tgt Ion:225 Resp: 104711
 Ion Ratio Lower Upper
 225 100
 223 58.7 31.4 94.3
 227 62.7 32.5 97.5



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: 44.953 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. -0.02 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

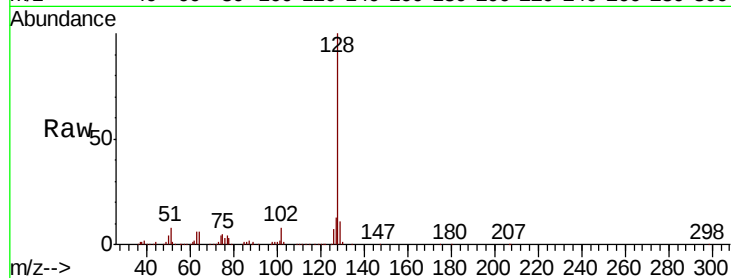
Tot Ion:128 Resp: 267955

Ion Ratio Lower Upper

128 100

127 12.8 9.9 14.9

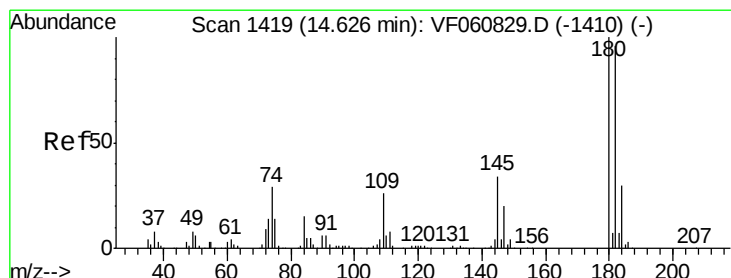
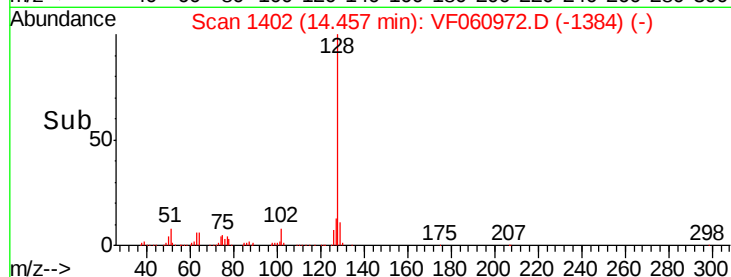
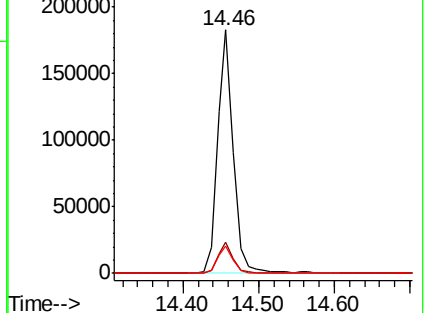
129 11.5 9.1 13.7



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: 48.973 ug/l

RT: 14.60 min Scan# 1417

Delta R.T. -0.02 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

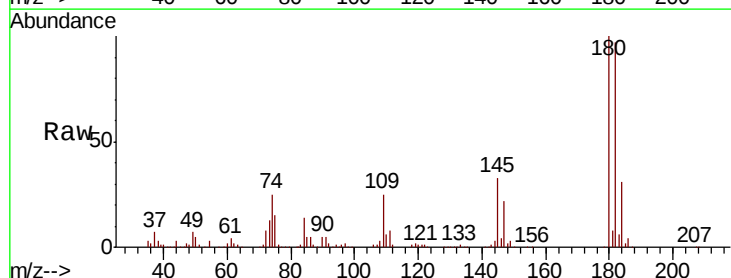
Tgt Ion:180 Resp: 138560

Ion Ratio Lower Upper

180 100

182 96.6 47.9 143.8

145 32.9 17.2 51.5



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

