

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF122818\
 Data File : VF061232.D
 Acq On : 28 Dec 2018 13:25
 Operator : VA/AP
 Sample : VF1228SBS02
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1228SBS02

Quant Time: Dec 29 00:54:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	193863	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.61	114	357448	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.79	117	338602	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.56	152	171798	50.00	ug/l	0.01

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.85	65	125009	50.14	ug/l	0.01
Spiked Amount	50.000		Recovery	=	100.28%	
35) Dibromofluoromethane	4.12	113	147302	51.44	ug/l	0.01
Spiked Amount	50.000		Recovery	=	102.88%	
50) Toluene-d8	7.57	98	395332	48.72	ug/l	0.01
Spiked Amount	50.000		Recovery	=	97.44%	
62) 4-Bromofluorobenzene	11.42	95	172419	46.09	ug/l	0.01
Spiked Amount	50.000		Recovery	=	92.18%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.97	85	82326	19.104	ug/l	97
3) Chloromethane	1.11	50	53773	21.783	ug/l	95
4) Vinyl Chloride	1.15	62	50979	22.262	ug/l	92
5) Bromomethane	1.34	94	33091	20.834	ug/l	97
6) Chloroethane	1.41	64	23139	21.929	ug/l	91
7) Trichlorofluoromethane	1.49	101	61553	14.078	ug/l	94
8) Diethyl Ether	1.64	74	13862	23.152	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	1.85	101	45989	20.286	ug/l	97
10) Methyl Iodide	1.91	142	59731	16.715	ug/l	88
11) Tert butyl alcohol	2.59	59	11311	112.414	ug/l	93
12) 1,1-Dichloroethene	1.81	96	36483	21.349	ug/l	95
13) Acrolein	2.00	56	7857	108.064	ug/l	100
14) Allyl chloride	2.10	41	44435	24.986	ug/l	86
15) Acrylonitrile	2.95	53	26945	115.807	ug/l	91
16) Acetone	2.25	43	54383	109.102	ug/l	100
17) Carbon Disulfide	1.86	76	77422	14.992	ug/l	97
18) Methyl Acetate	2.45	43	22934	22.239	ug/l	96
19) Methyl tert-butyl Ether	2.44	73	84152	22.185	ug/l	96
20) Methylene Chloride	2.18	84	10937	2.609	ug/l	89
21) trans-1,2-Dichloroethene	2.32	96	27627	15.115	ug/l	84
22) Diisopropyl ether	2.81	45	134234	22.660	ug/l	93
23) Vinyl Acetate	3.20	43	321635	117.694	ug/l	97
24) 1,1-Dichloroethane	2.88	63	77193	21.993	ug/l	98
25) 2-Butanone	4.35	43	97051	120.052	ug/l	98
26) 2,2-Dichloropropane	3.61	77	43738	21.715	ug/l	94
27) cis-1,2-Dichloroethene	3.48	96	59617	21.306	ug/l	98
28) Bromochloromethane	3.73	49	40103	22.518	ug/l	86
29) Tetrahydrofuran	4.08	42	40449	122.934	ug/l	99
30) Chloroform	3.88	83	109795	20.863	ug/l	99
31) Cyclohexane	3.70	56	44667	12.264	ug/l	92
32) 1,1,1-Trichloroethane	4.10	97	65231	20.679	ug/l	95
36) 1,1-Dichloropropene	4.29	75	81704	18.936	ug/l	98
37) Ethyl Acetate	4.12	43	38992	21.029	ug/l #	93
38) Carbon Tetrachloride	4.01	117	62035	18.880	ug/l	90

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.48	83	76659	19.804	ug/l	92
40) Benzene	4.65	78	191850	20.676	ug/l	99
41) Methacrylonitrile	4.76	41	19374	21.262	ug/l	94
42) 1,2-Dichloroethane	4.96	62	67014	19.012	ug/l	97
43) Isopropyl Acetate	6.98	43	45341	21.764	ug/l #	94
44) Trichloroethene	5.52	130	61051	20.870	ug/l	98
45) 1,2-Dichloropropane	6.25	63	47866	18.961	ug/l	96
46) Dibromomethane	6.10	93	33089	20.209	ug/l	91
47) Bromodichloromethane	6.40	83	83137	19.543	ug/l	98
48) Methyl methacrylate	6.73	41	31117	21.395	ug/l	91
49) 1,4-Dioxane	6.73	88	4443	421.018	ug/l #	58
51) 4-Methyl-2-Pentanone	8.28	43	158209	110.729	ug/l	96
52) Toluene	7.64	92	117800	19.179	ug/l	95
53) t-1,3-Dichloropropene	8.30	75	71249	20.761	ug/l	96
54) cis-1,3-Dichloropropene	7.32	75	83571	19.402	ug/l	98
55) 1,1,2-Trichloroethane	8.50	97	38474	20.895	ug/l	97
56) Ethyl methacrylate	8.63	69	39668	19.910	ug/l	91
57) 1,3-Dichloropropane	8.87	76	69932	20.999	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.31	63	25652	67.037	ug/l	99
59) 2-Hexanone	9.51	43	117943	114.145	ug/l	99
60) Dibromochloromethane	8.73	129	51797	19.624	ug/l	94
61) 1,2-Dibromoethane	9.00	107	41291	20.998	ug/l	97
64) Tetrachloroethene	8.17	164	47841	18.367	ug/l	95
65) Chlorobenzene	9.82	112	136867	19.566	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.94	131	53058	18.561	ug/l	98
67) Ethyl Benzene	9.91	91	250078	19.624	ug/l	99
68) m/p-Xylenes	10.14	106	176006	39.245	ug/l	95
69) o-Xylene	10.72	106	94484	18.996	ug/l	99
70) Styrene	10.80	104	142351	20.617	ug/l	98
71) Bromoform	10.78	173	26737	20.217	ug/l	95
73) Isopropylbenzene	11.14	105	284625	19.225	ug/l	97
74) N-amyl acetate	11.38	43	70684	21.505	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.71	83	53336	21.707	ug/l	93
76) 1,2,3-Trichloropropane	11.80	75	36898	20.179	ug/l	98
77) Bromobenzene	11.50	156	59791	18.761	ug/l	99
78) n-propylbenzene	11.60	91	337078	17.346	ug/l	99
79) 2-Chlorotoluene	11.73	91	193939	19.096	ug/l	97
80) 1,3,5-Trimethylbenzene	11.84	105	233359	19.143	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.88	75	21179	26.954	ug/l	92
82) 4-Chlorotoluene	11.91	91	199742	19.012	ug/l	95
83) tert-Butylbenzene	12.14	119	250915	20.002	ug/l	94
84) 1,2,4-Trimethylbenzene	12.21	105	234279	19.272	ug/l	99
85) sec-Butylbenzene	12.31	105	319136	19.495	ug/l	96
86) p-Isopropyltoluene	12.47	119	272321	20.041	ug/l	99
87) 1,3-Dichlorobenzene	12.48	146	113712	18.472	ug/l	95
88) 1,4-Dichlorobenzene	12.58	146	114746	19.608	ug/l	96
89) n-Butylbenzene	12.85	91	286334	18.281	ug/l	93
90) Hexachloroethane	12.92	117	60083	17.897	ug/l	99
91) 1,2-Dichlorobenzene	12.95	146	110463	19.388	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.65	75	9274	20.568	ug/l	96

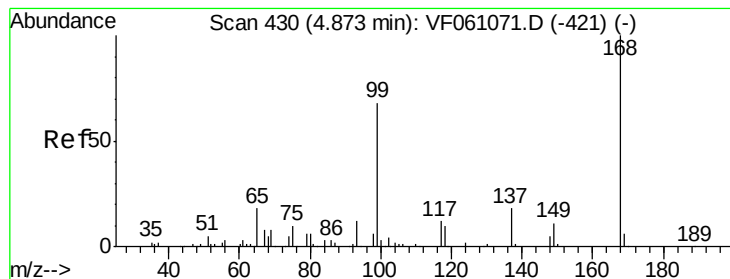
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_F\DATA\VF122818\
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Quant Title : SW846 8260
QLast Update : Thu Dec 20 00:56:59 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	79694	19.723	ug/l	95
94) Hexachlorobutadiene	14.20	225	47040	18.279	ug/l	96
95) Naphthalene	14.46	128	143514	19.451	ug/l	98
96) 1,2,3-Trichlorobenzene	14.61	180	72879	19.511	ug/l	92

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.01 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

Instrument :

MSVOA_F

ClientSampleId :

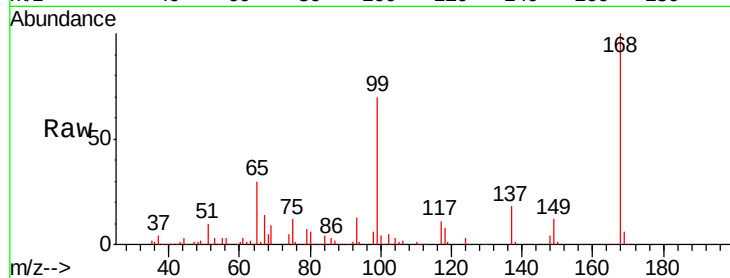
VF1228SBS02

Tgt Ion:168 Resp: 193863

Ion Ratio Lower Upper

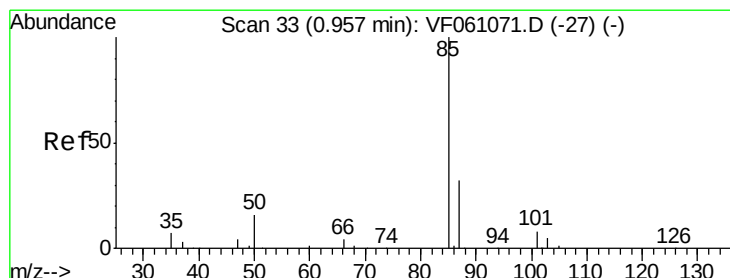
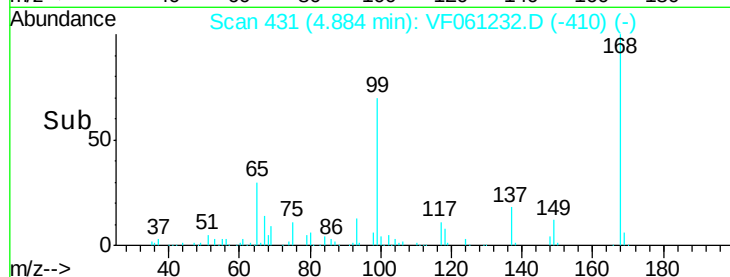
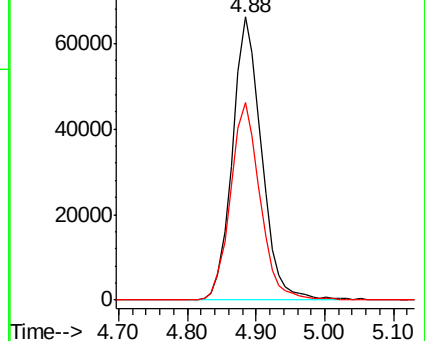
168 100

99 69.6 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 19.104 ug/l

RT: 0.97 min Scan# 34

Delta R.T. 0.01 min

Lab File: VF061232.D

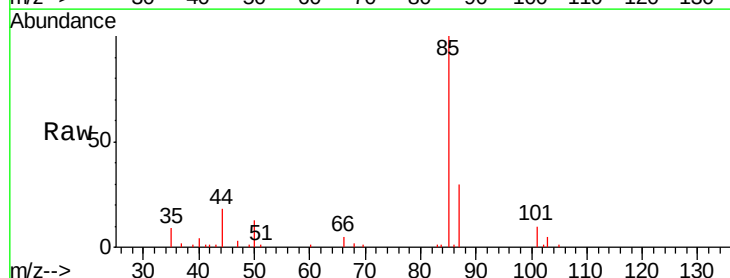
Acq: 28 Dec 2018 13:25

Tgt Ion: 85 Resp: 82326

Ion Ratio Lower Upper

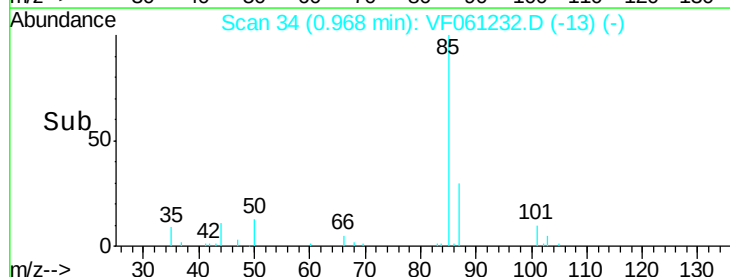
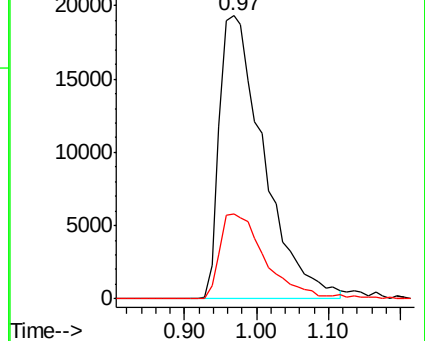
85 100

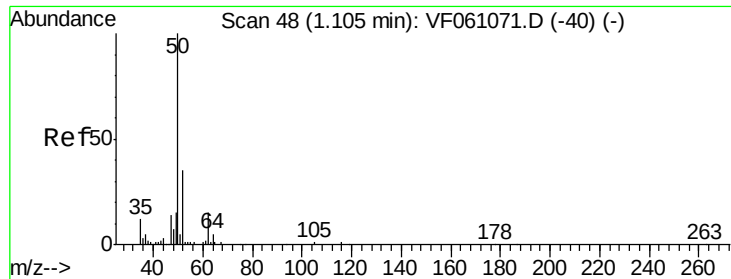
87 30.1 15.9 47.6



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 21.783 ug/l

RT: 1.11 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

Instrument :

MSVOA_F

ClientSampleId :

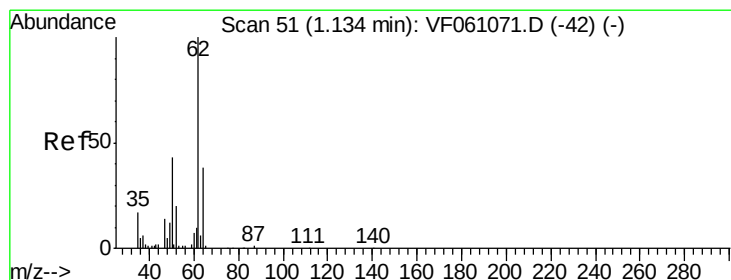
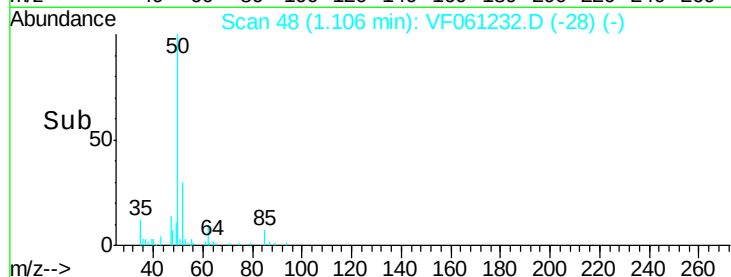
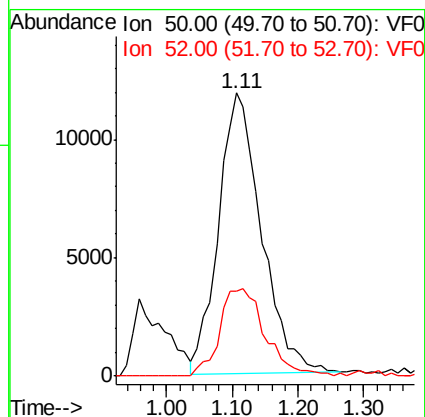
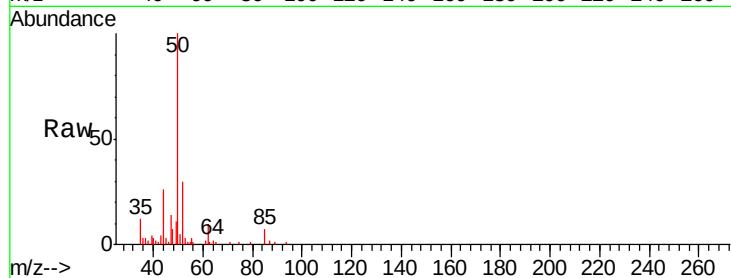
VF1228SBS02

Tgt Ion: 50 Resp: 53773

Ion Ratio Lower Upper

50 100

52 30.0 26.3 39.5



#4

Vinyl Chloride

Concen: 22.262 ug/l

RT: 1.15 min Scan# 52

Delta R.T. 0.01 min

Lab File: VF061232.D

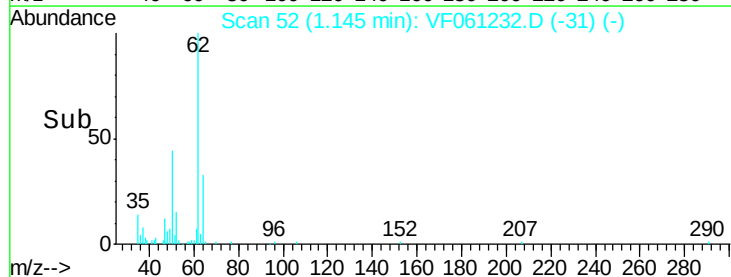
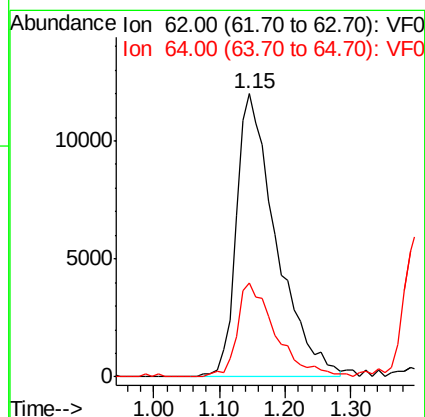
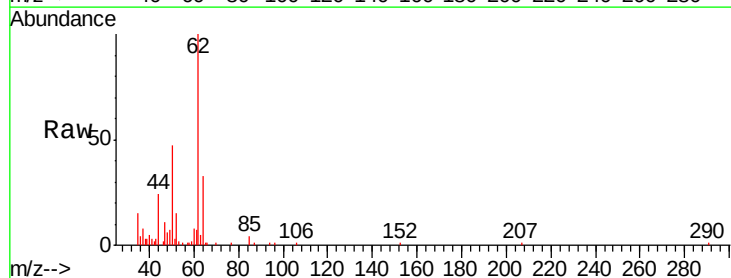
Acq: 28 Dec 2018 13:25

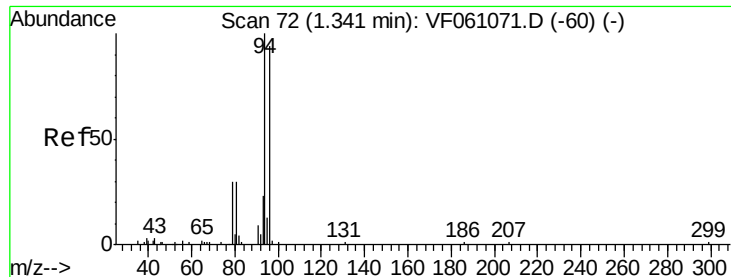
Tgt Ion: 62 Resp: 50979

Ion Ratio Lower Upper

62 100

64 33.0 30.4 45.6





#5

Bromomethane

Concen: 20.834 ug/l

RT: 1.34 min Scan# 72

Delta R.T. 0.00 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

Instrument :

MSVOA_F

ClientSampleId :

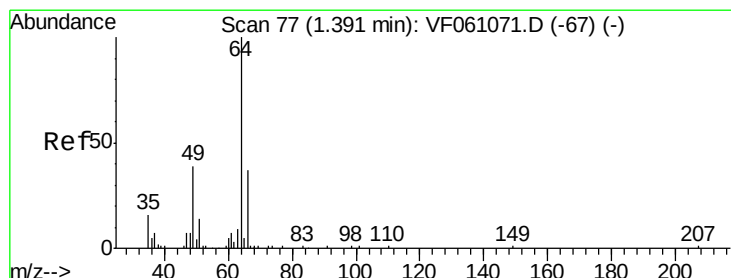
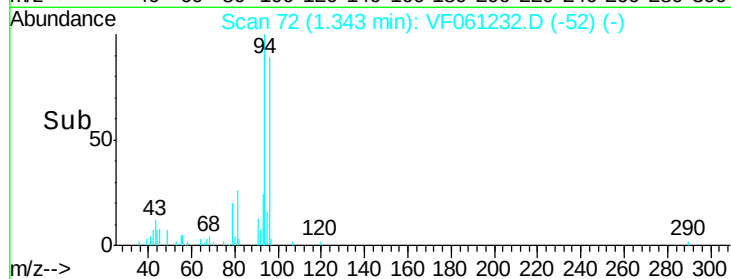
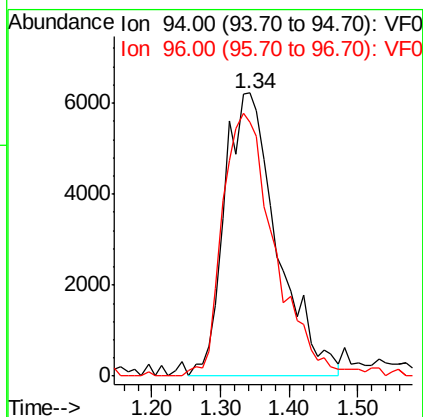
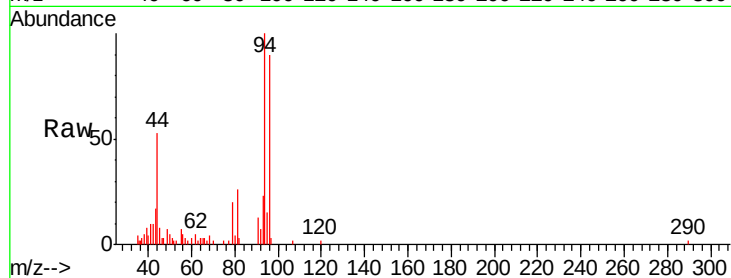
VF1228SBS02

Tgt Ion: 94 Resp: 33091

Ion Ratio Lower Upper

94 100

96 89.8 74.4 111.6



#6

Chloroethane

Concen: 21.929 ug/l

RT: 1.41 min Scan# 79

Delta R.T. 0.02 min

Lab File: VF061232.D

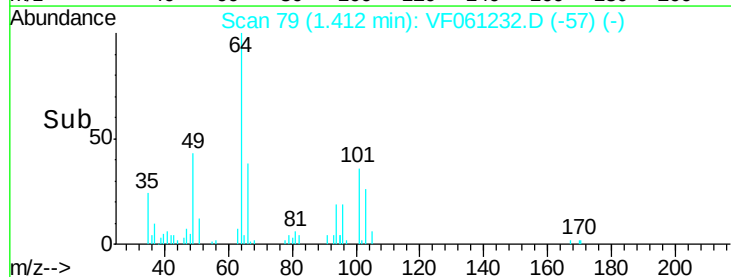
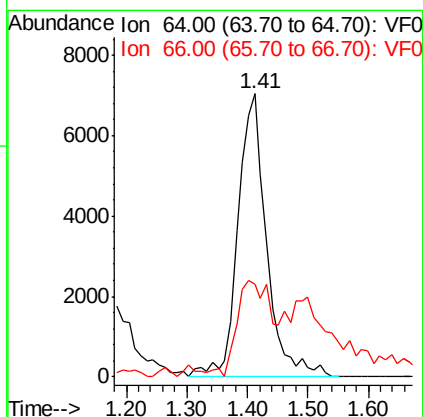
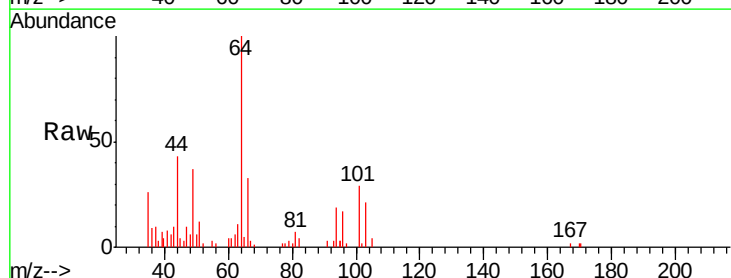
Acq: 28 Dec 2018 13:25

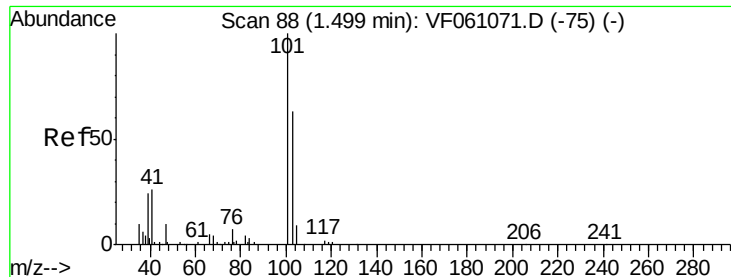
Tgt Ion: 64 Resp: 23139

Ion Ratio Lower Upper

64 100

66 32.9 30.9 46.3



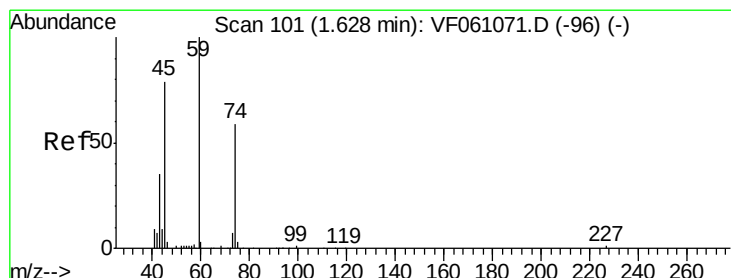
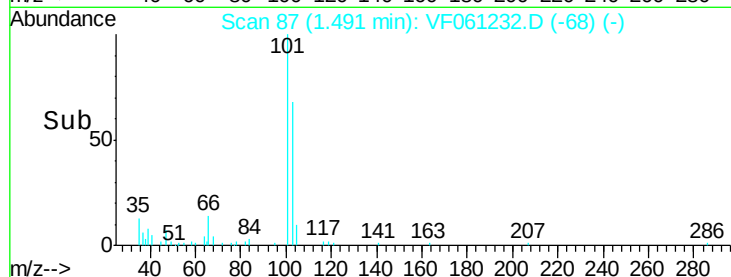
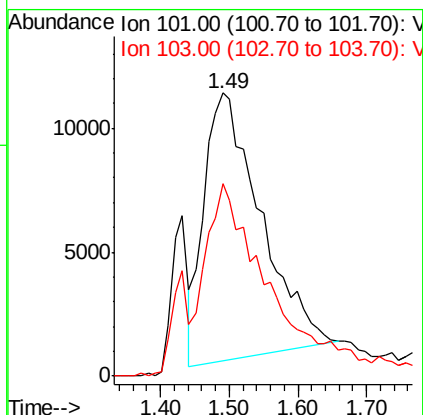
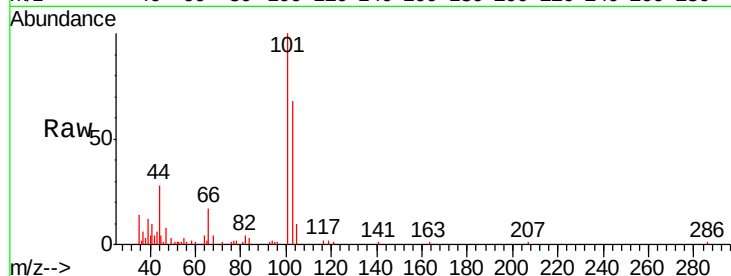


#7

Trichlorofluoromethane
Concen: 14.078 ug/l
RT: 1.49 min Scan# 87
Delta R.T. -0.01 min
Lab File: VF061232.D
Acq: 28 Dec 2018 13:25

Instrument :
MSVOA_F
ClientSampleId :
VF1228SBS02

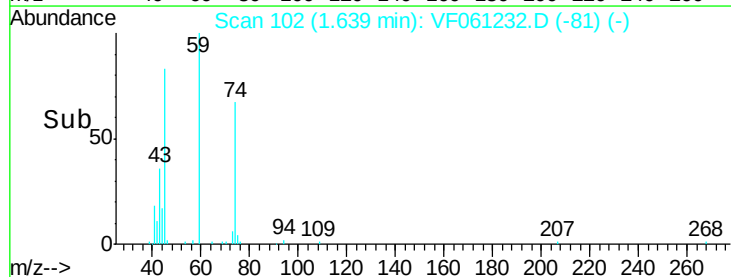
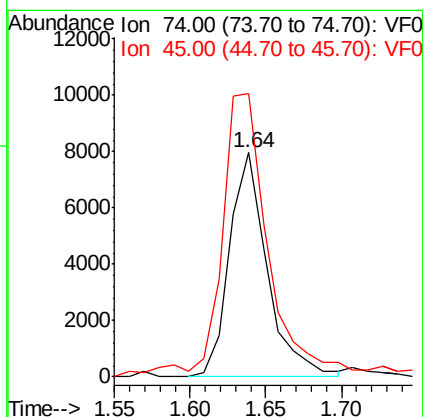
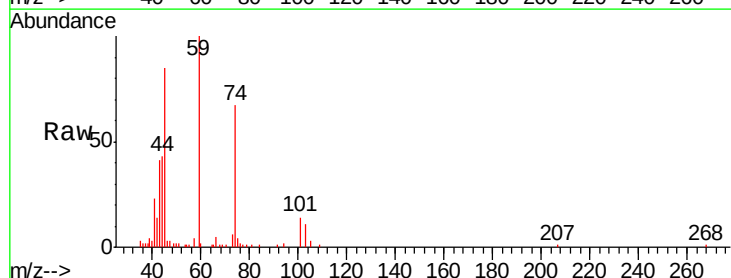
Tgt Ion:101 Resp: 61553
Ion Ratio Lower Upper
101 100
103 68.0 50.7 76.1

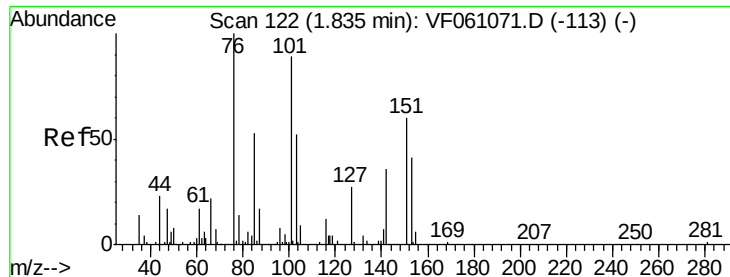


#8

Diethyl Ether
Concen: 23.152 ug/l
RT: 1.64 min Scan# 102
Delta R.T. 0.01 min
Lab File: VF061232.D
Acq: 28 Dec 2018 13:25

Tgt Ion: 74 Resp: 13862
Ion Ratio Lower Upper
74 100
45 126.3 67.8 203.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.286 ug/l

RT: 1.85 min Scan# 123

Delta R.T. 0.01 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

Instrument :

MSVOA_F

ClientSampleId :

VF1228SBS02

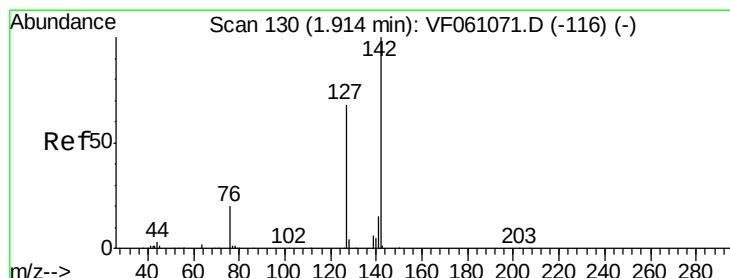
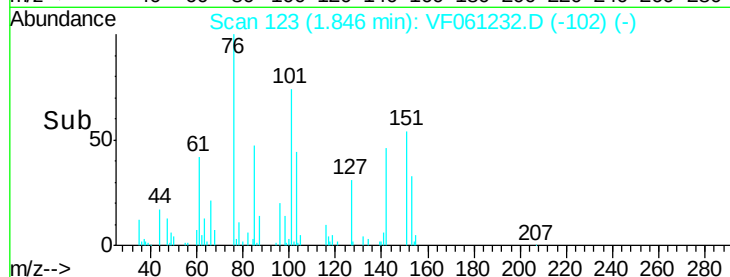
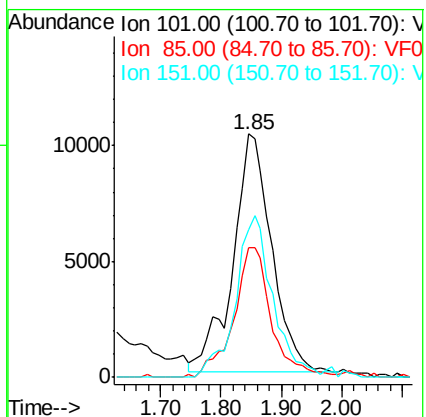
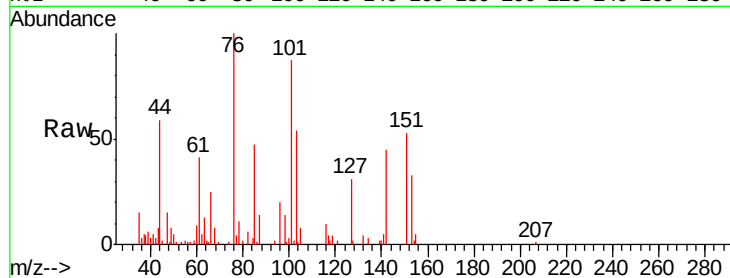
Tgt Ion:101 Resp: 45989

Ion Ratio Lower Upper

101 100

85 53.5 44.5 66.7

151 60.6 49.9 74.9



#10

Methyl Iodide

Concen: 16.715 ug/l

RT: 1.91 min Scan# 130

Delta R.T. 0.00 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

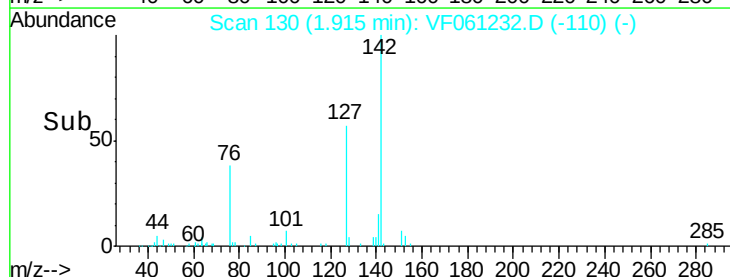
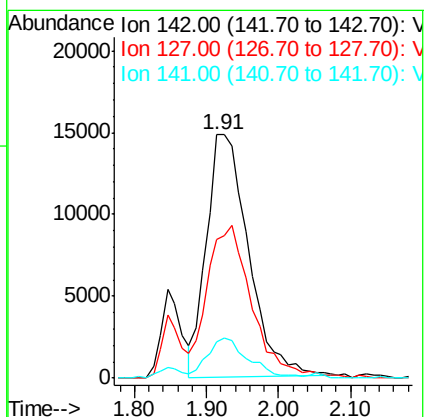
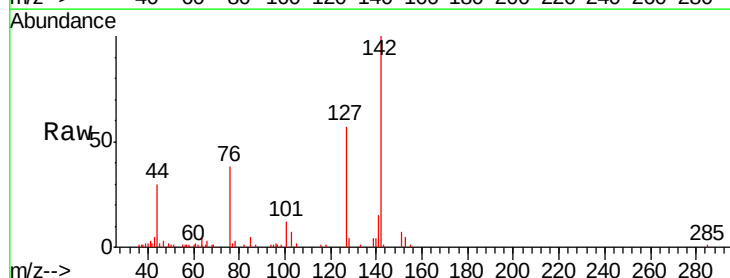
Tgt Ion:142 Resp: 59731

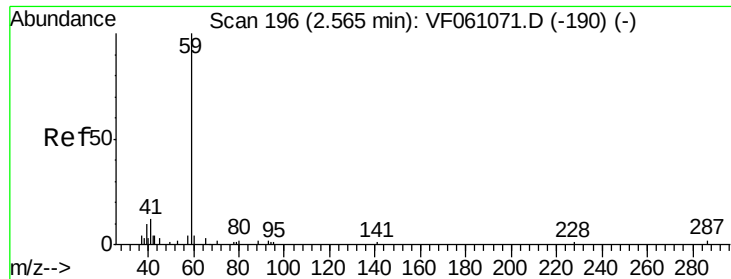
Ion Ratio Lower Upper

142 100

127 56.8 54.7 82.1

141 14.8 12.2 18.2



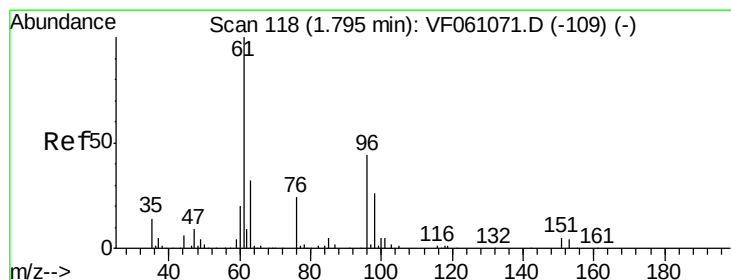
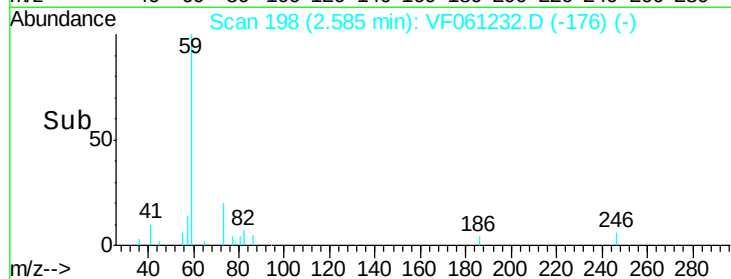
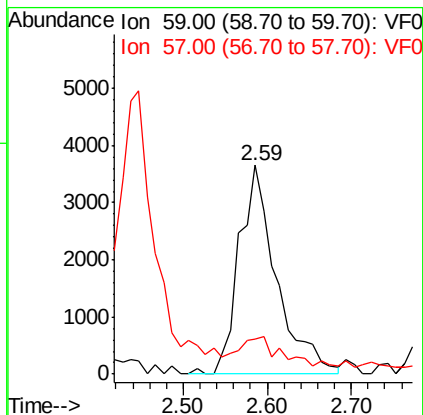
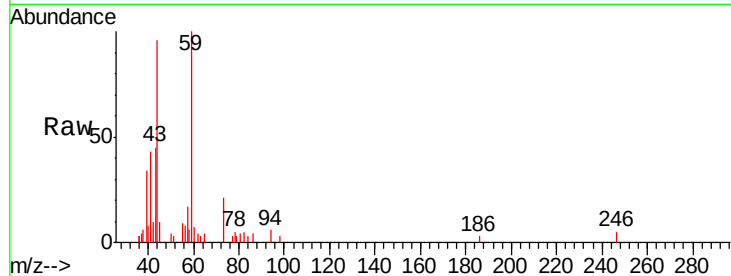


#11

Tert butyl alcohol
 Concen: 112.414 ug/l
 RT: 2.59 min Scan# 198
 Delta R.T. 0.02 min
 Lab File: VF061232.D
 Acq: 28 Dec 2018 13:25

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1228SBS02

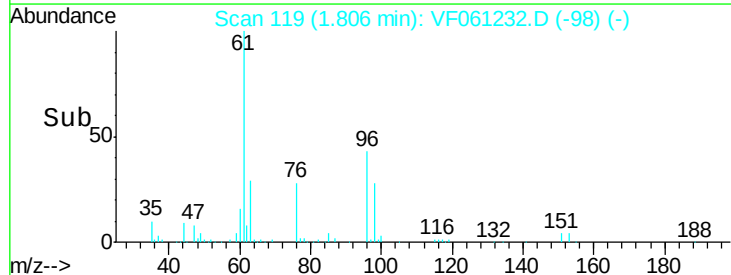
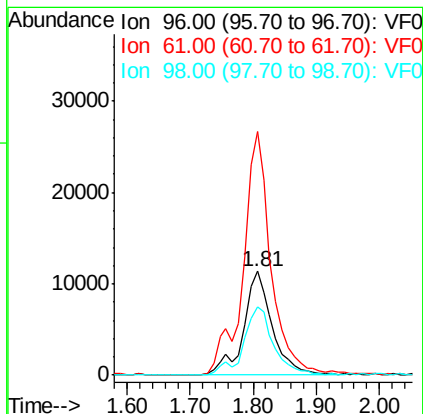
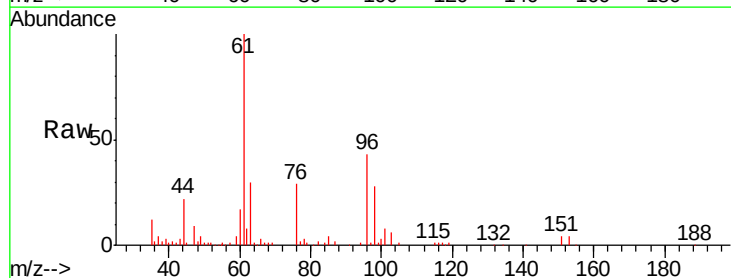
Tgt Ion: 59 Resp: 11311
 Ion Ratio Lower Upper
 59 100
 57 17.1 11.5 17.3

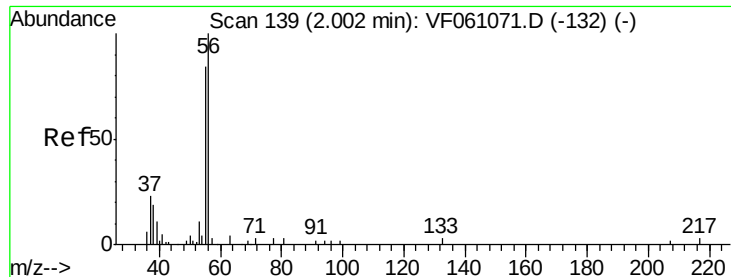


#12

1,1-Dichloroethene
 Concen: 21.349 ug/l
 RT: 1.81 min Scan# 119
 Delta R.T. 0.01 min
 Lab File: VF061232.D
 Acq: 28 Dec 2018 13:25

Tgt Ion: 96 Resp: 36483
 Ion Ratio Lower Upper
 96 100
 61 234.3 182.0 273.0
 98 65.7 46.5 69.7





#13

Acrolein

Concen: 108.064 ug/l

RT: 2.00 min Scan# 139

Delta R.T. 0.00 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

Instrument :

MSVOA_F

ClientSampleId :

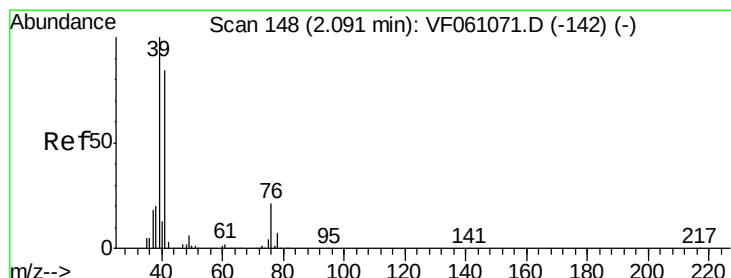
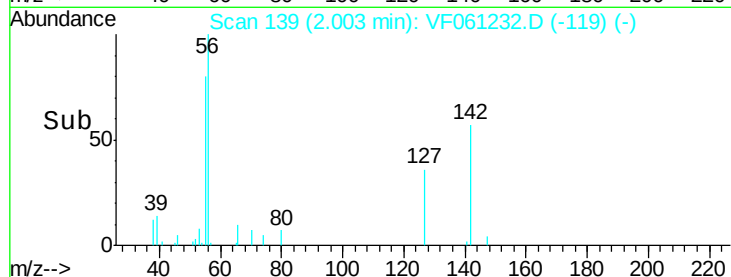
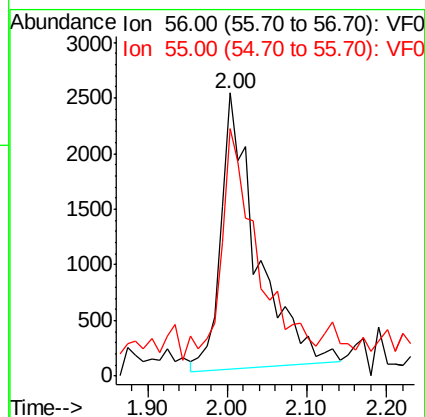
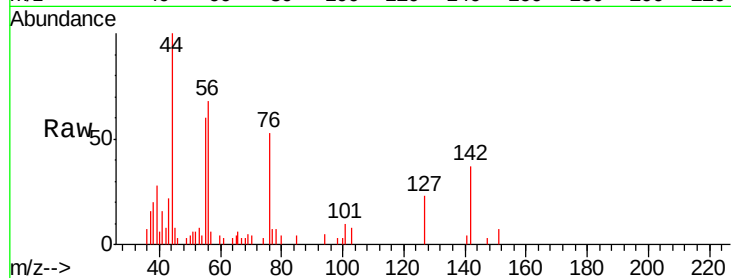
VF1228SBS02

Tgt Ion: 56 Resp: 7857

Ion Ratio Lower Upper

56 100

55 87.6 70.2 105.2



#14

Allyl chloride

Concen: 24.986 ug/l

RT: 2.10 min Scan# 149

Delta R.T. 0.01 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

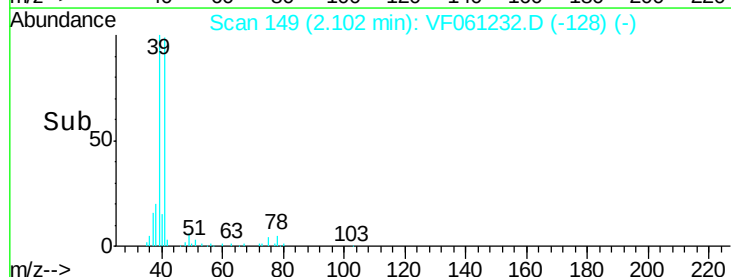
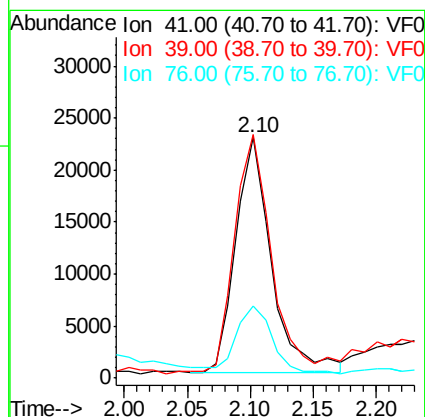
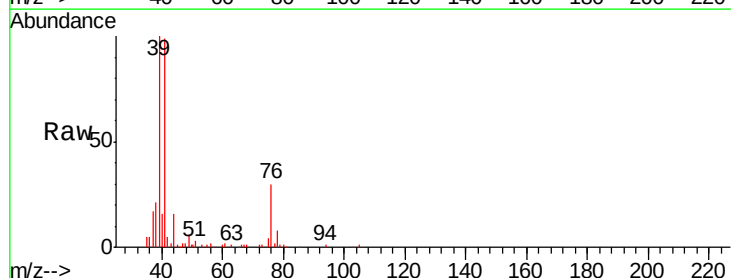
Tgt Ion: 41 Resp: 44435

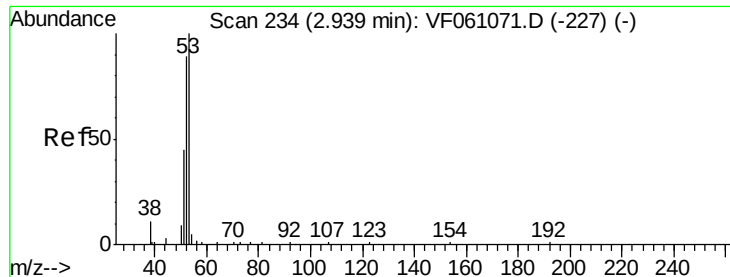
Ion Ratio Lower Upper

41 100

39 101.1 96.4 144.6

76 30.0 25.4 38.0





#15

Acrylonitrile

Concen: 115.807 ug/l

RT: 2.95 min Scan# 235

Delta R.T. 0.01 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

Instrument :

MSVOA_F

ClientSampleId :

VF1228SBS02

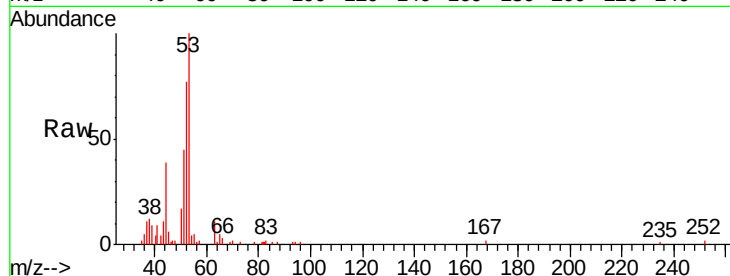
Tgt Ion: 53 Resp: 26945

Ion Ratio Lower Upper

53 100

52 76.8 71.3 106.9

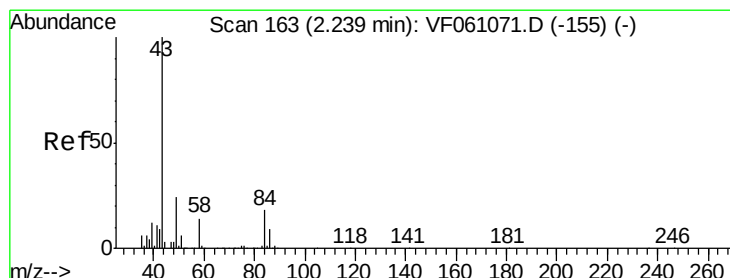
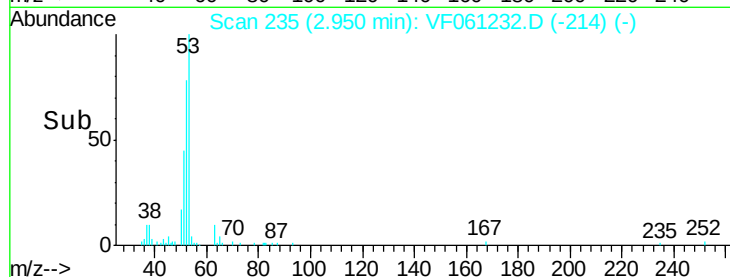
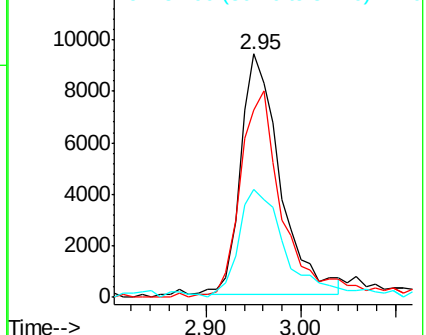
51 44.6 36.8 55.2



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 109.102 ug/l

RT: 2.25 min Scan# 164

Delta R.T. 0.01 min

Lab File: VF061232.D

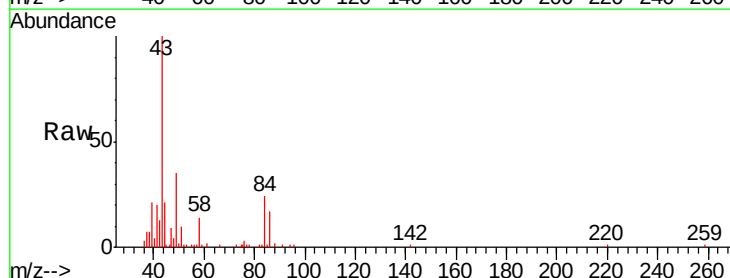
Acq: 28 Dec 2018 13:25

Tgt Ion: 43 Resp: 54383

Ion Ratio Lower Upper

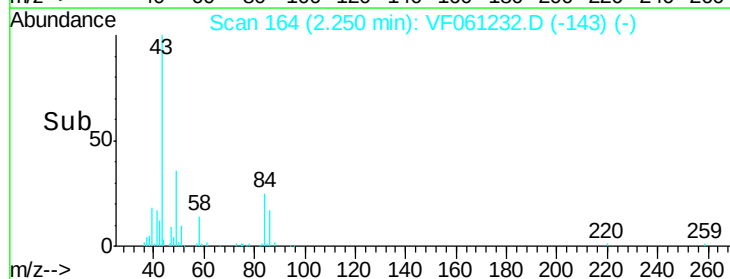
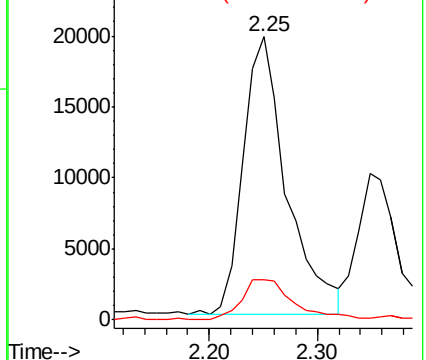
43 100

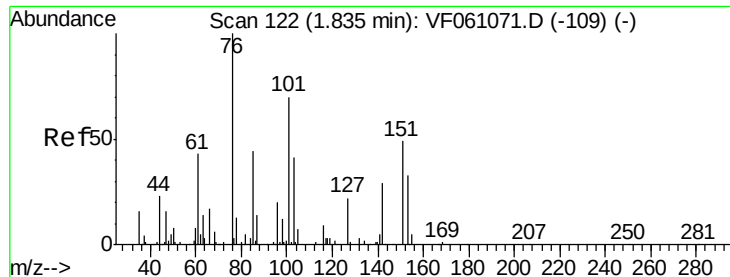
58 14.0 11.1 16.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#17

Carbon Disulfide

Concen: 14.992 ug/l

RT: 1.86 min Scan# 124

Delta R.T. 0.02 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

Instrument :

MSVOA_F

ClientSampleId :

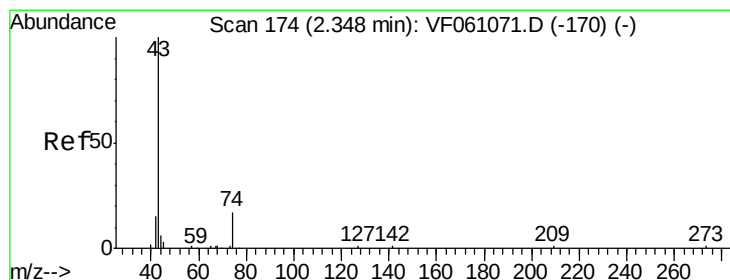
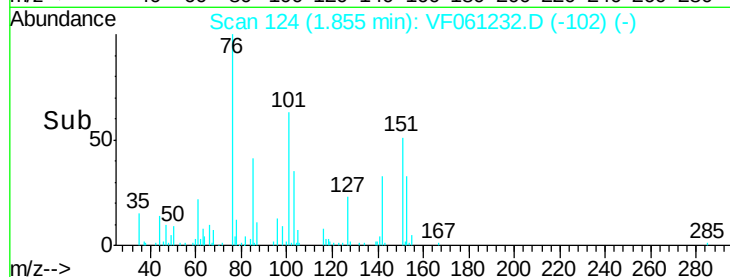
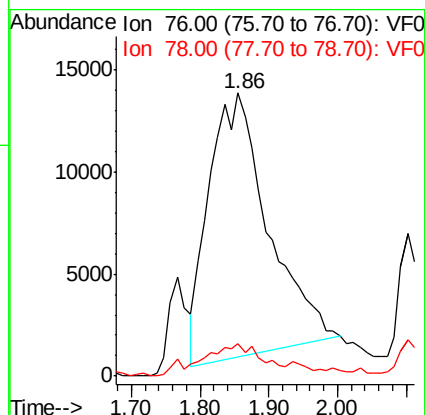
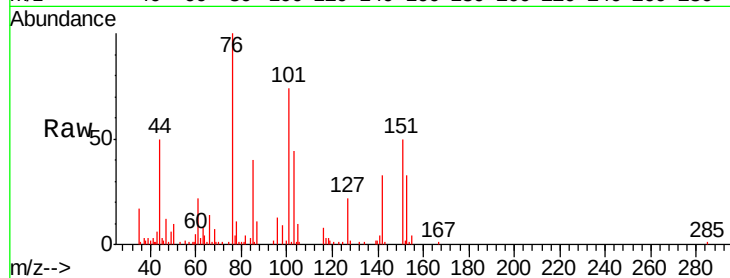
VF1228SBS02

Tgt Ion: 76 Resp: 77422

Ion Ratio Lower Upper

76 100

78 11.4 10.2 15.4



#18

Methyl Acetate

Concen: 22.239 ug/l

RT: 2.45 min Scan# 184

Delta R.T. 0.10 min

Lab File: VF061232.D

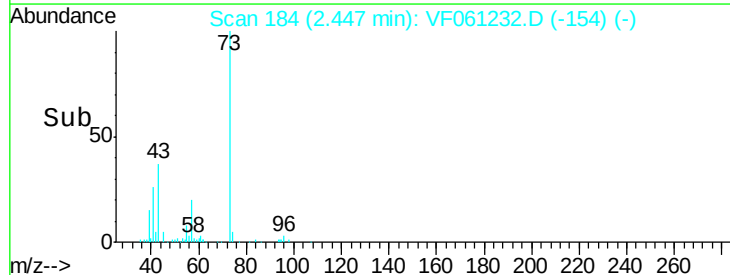
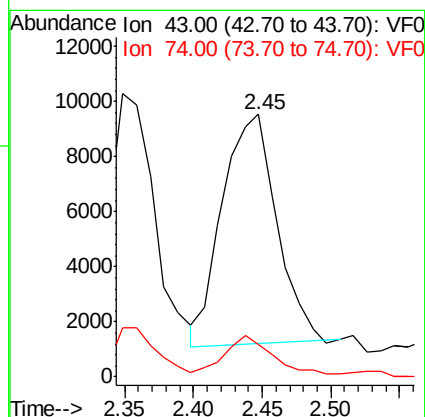
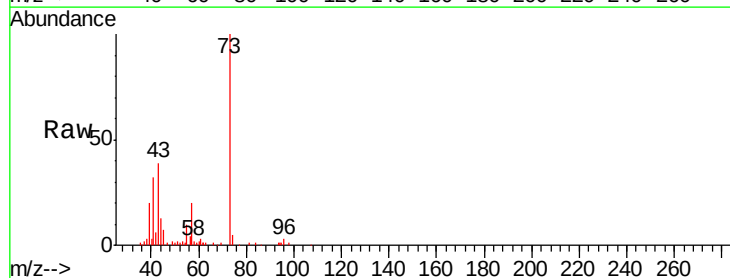
Acq: 28 Dec 2018 13:25

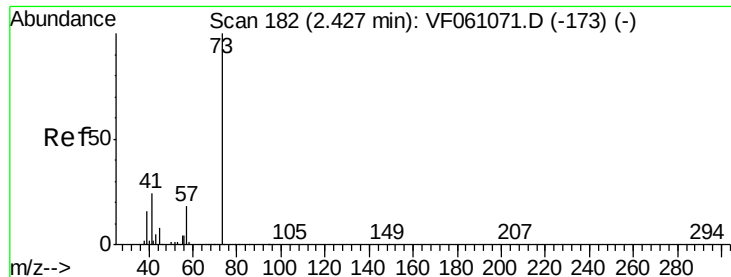
Tgt Ion: 43 Resp: 22934

Ion Ratio Lower Upper

43 100

74 12.3 11.0 16.6





#19

Methyl tert-butyl Ether

Concen: 22.185 ug/l

RT: 2.44 min Scan# 183

Delta R.T. 0.01 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

Instrument :

MSVOA_F

ClientSampleId :

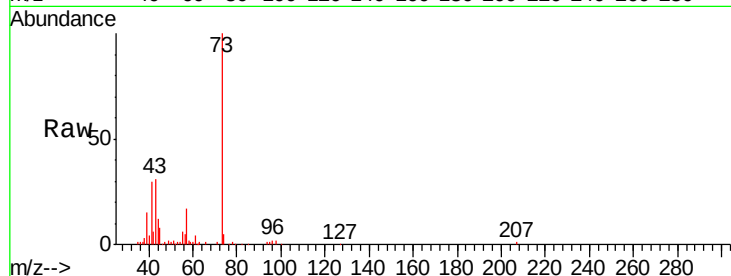
VF1228SBS02

Tgt Ion: 73 Resp: 84152

Ion Ratio Lower Upper

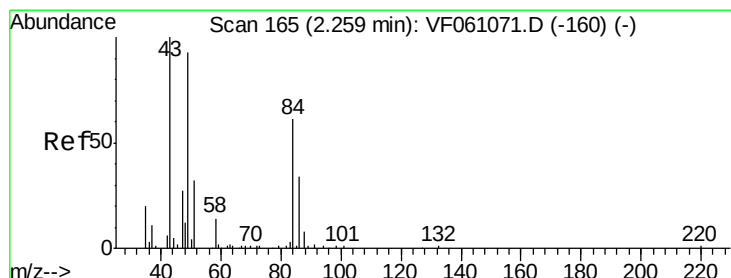
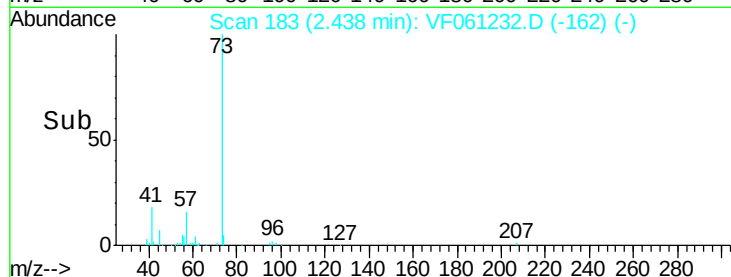
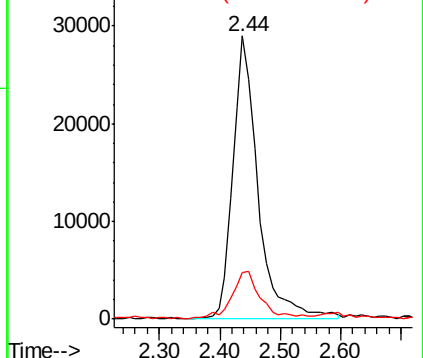
73 100

57 16.5 14.5 21.7



Abundance Ion 73.00 (72.70 to 73.70): VF0

Ion 57.00 (56.70 to 57.70): VF0



#20

Methylene Chloride

Concen: 2.609 ug/l

RT: 2.18 min Scan# 157

Delta R.T. -0.08 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

Tgt Ion: 84 Resp: 10937

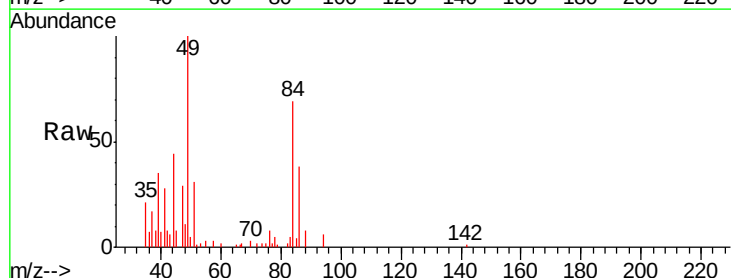
Ion Ratio Lower Upper

84 100

49 145.6 129.4 194.2

51 44.9 44.0 66.0

86 54.8 46.3 69.5

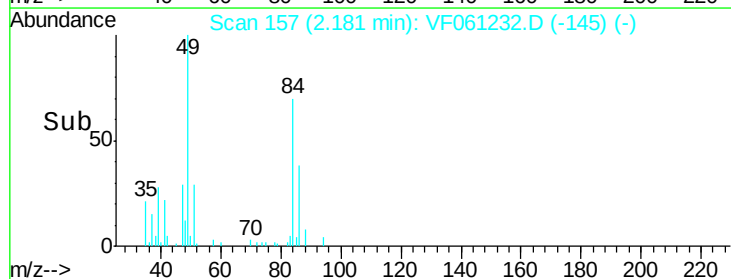
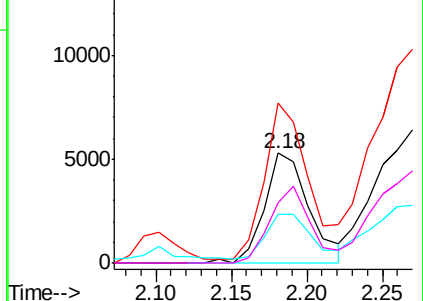


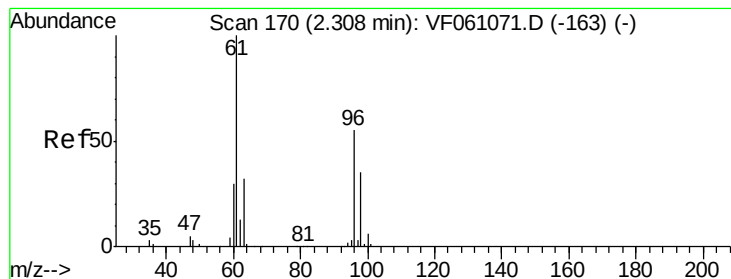
Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0





#21

trans-1,2-Dichloroethene

Concen: 15.115 ug/l

RT: 2.32 min Scan# 171

Delta R.T. 0.01 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

Instrument :

MSVOA_F

ClientSampleId :

VF1228SBS02

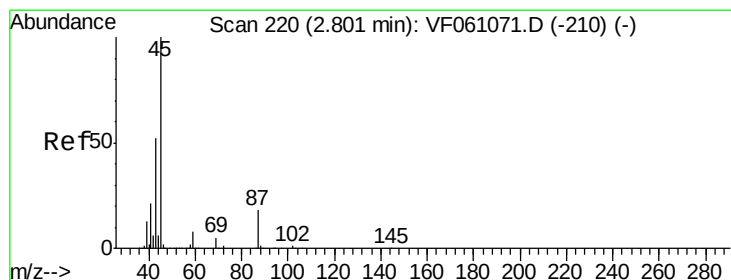
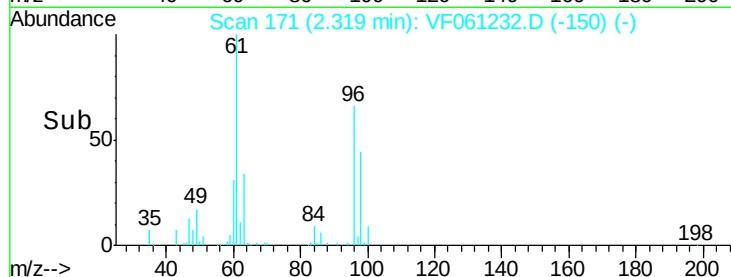
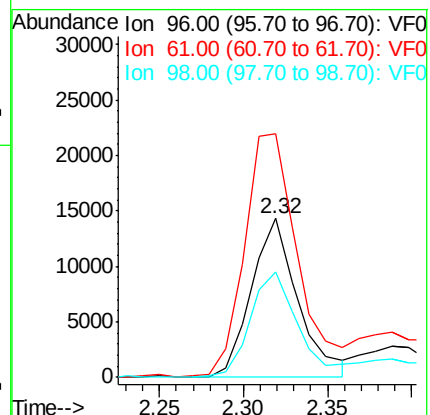
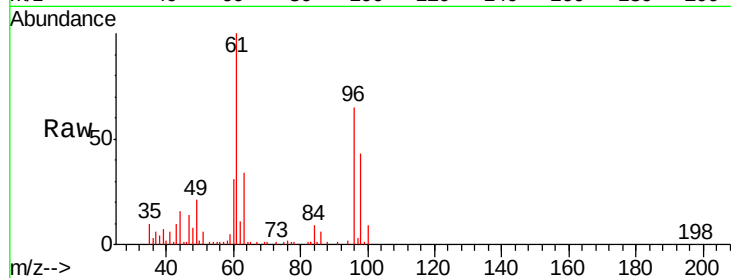
Tgt Ion: 96 Resp: 27627

Ion Ratio Lower Upper

96 100

61 153.1 146.0 219.0

98 65.9 51.6 77.4



#22

Diisopropyl ether

Concen: 22.660 ug/l

RT: 2.81 min Scan# 221

Delta R.T. 0.01 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

Tgt Ion: 45 Resp: 134234

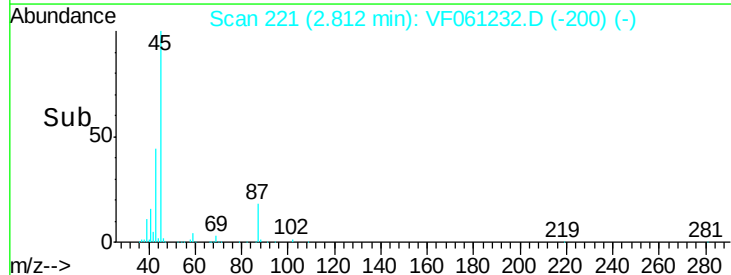
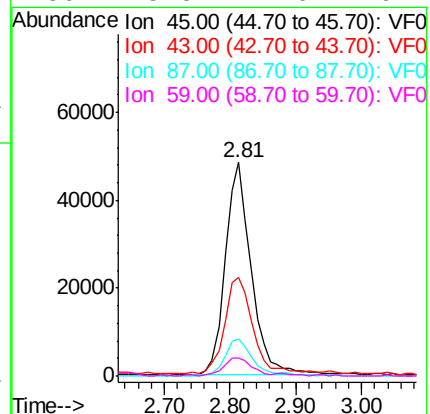
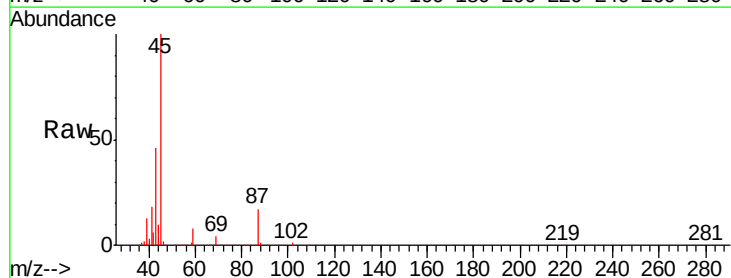
Ion Ratio Lower Upper

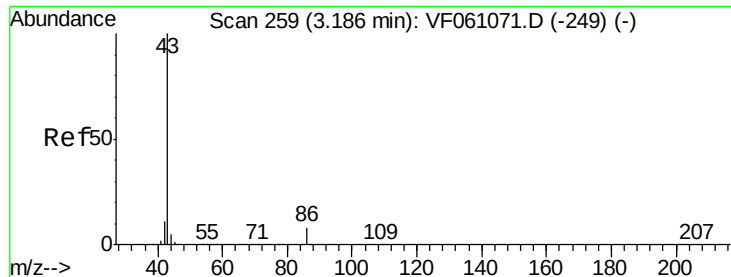
45 100

43 46.3 42.2 63.2

87 17.4 14.6 22.0

59 8.3 7.0 10.4





#23

Vinyl Acetate

Concen: 117.694 ug/l

RT: 3.20 min Scan# 260

Delta R.T. 0.01 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

Instrument :

MSVOA_F

ClientSampled :

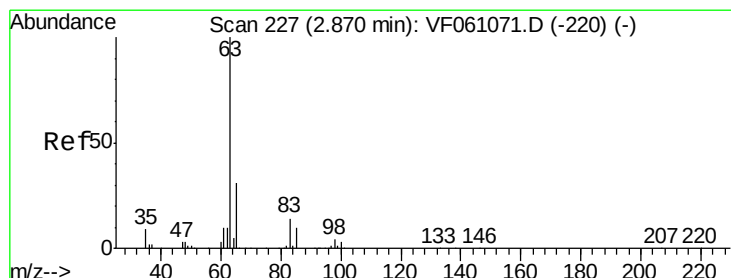
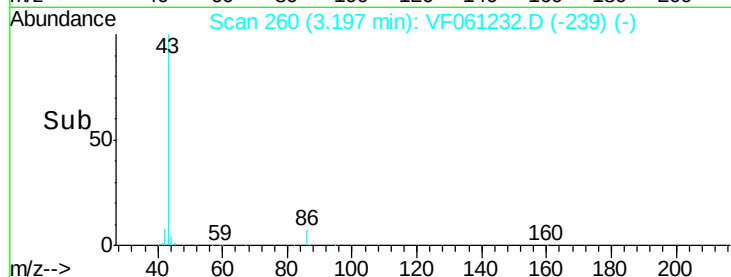
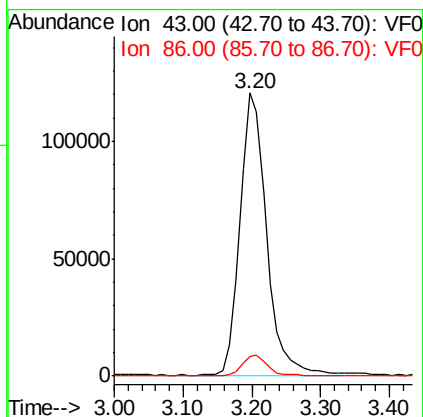
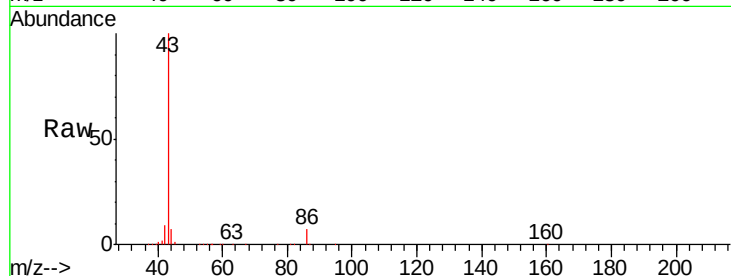
VF1228SBS02

Tgt Ion: 43 Resp: 321635

Ion Ratio Lower Upper

43 100

86 7.0 6.3 9.5



#24

1,1-Dichloroethane

Concen: 21.993 ug/l

RT: 2.88 min Scan# 228

Delta R.T. 0.01 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

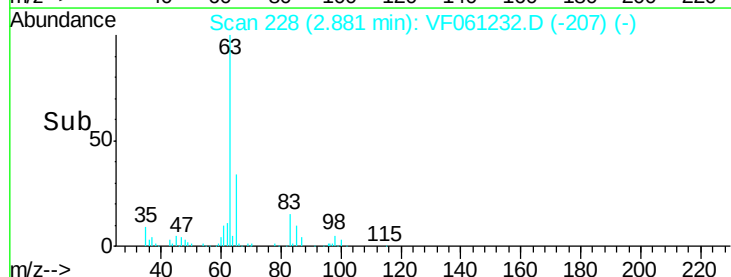
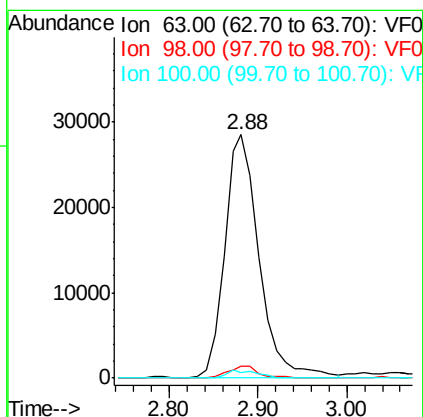
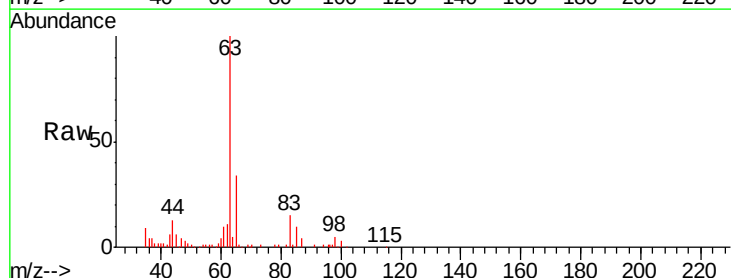
Tgt Ion: 63 Resp: 77193

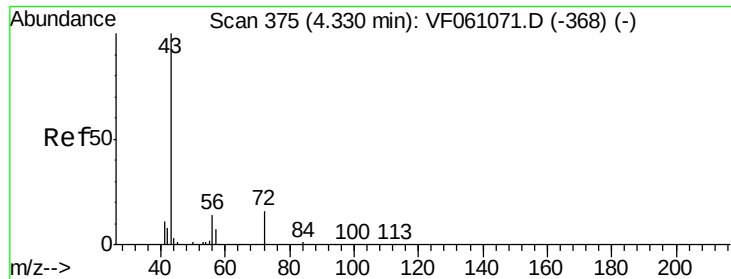
Ion Ratio Lower Upper

63 100

98 5.0 2.1 6.5

100 2.5 1.7 5.1





#25

2-Butanone

Concen: 120.052 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.02 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

Instrument :

MSVOA_F

ClientSampleId :

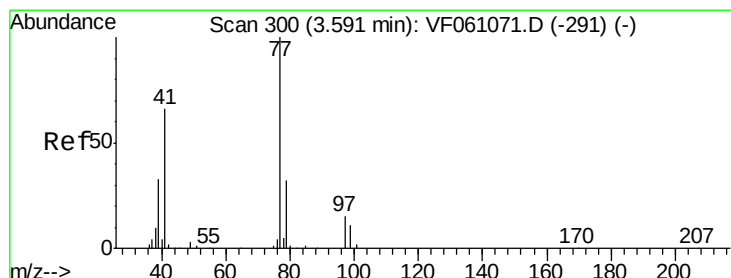
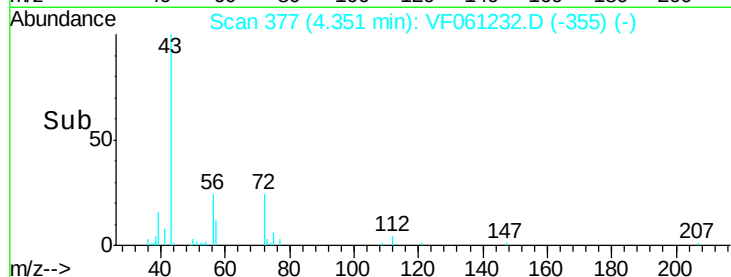
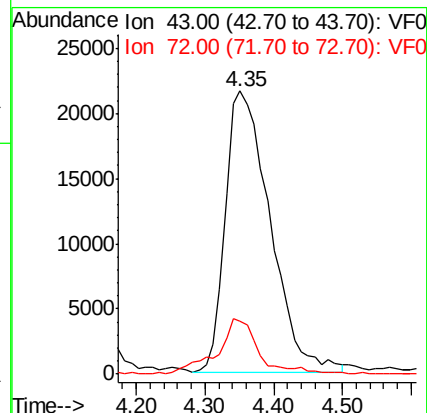
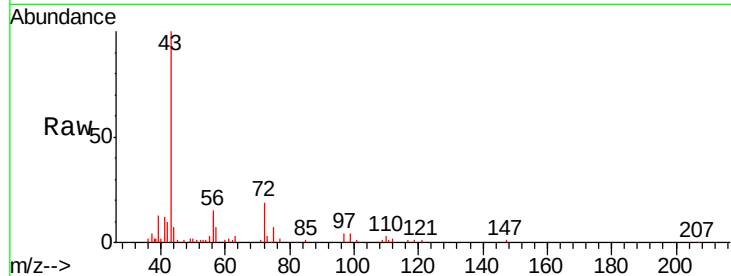
VF1228SBS02

Tgt Ion: 43 Resp: 97051

Ion Ratio Lower Upper

43 100

72 18.6 15.6 23.4



#26

2,2-Dichloropropane

Concen: 21.715 ug/l

RT: 3.61 min Scan# 302

Delta R.T. 0.02 min

Lab File: VF061232.D

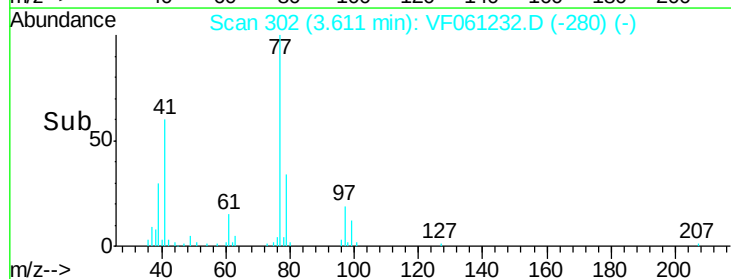
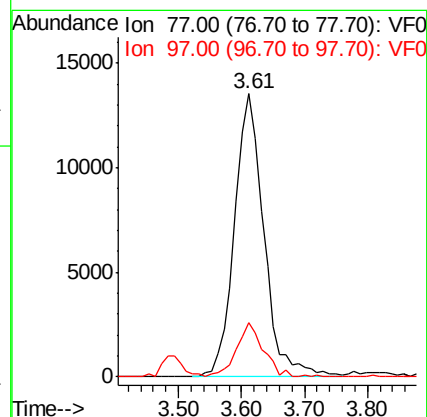
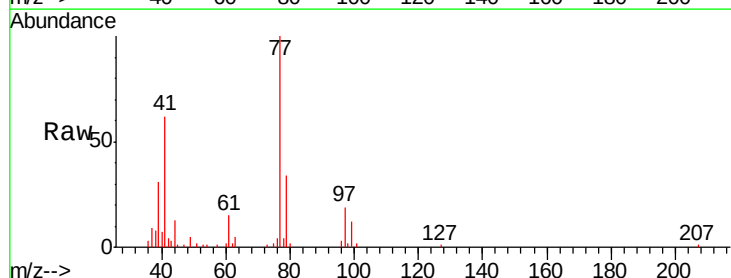
Acq: 28 Dec 2018 13:25

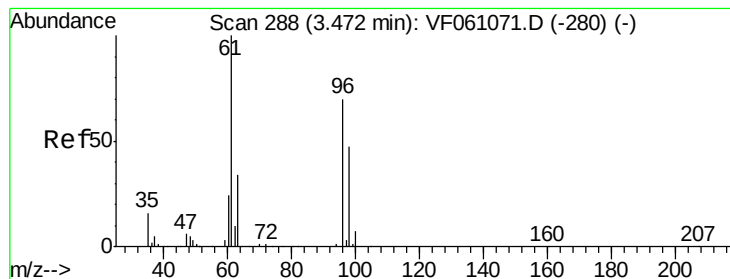
Tgt Ion: 77 Resp: 43738

Ion Ratio Lower Upper

77 100

97 19.0 8.2 24.4





#27

cis-1,2-Dichloroethene

Concen: 21.306 ug/l

RT: 3.48 min Scan# 289

Delta R.T. 0.01 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

Instrument :

MSVOA_F

ClientSampleId :

VF1228SBS02

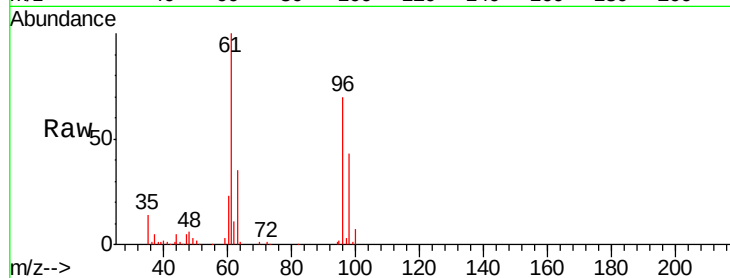
Tgt Ion: 96 Resp: 59617

Ion Ratio Lower Upper

96 100

61 143.8 0.0 287.8

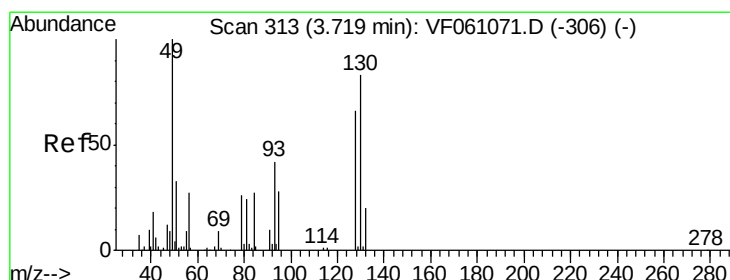
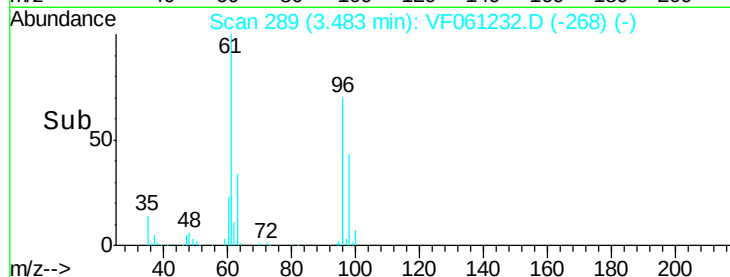
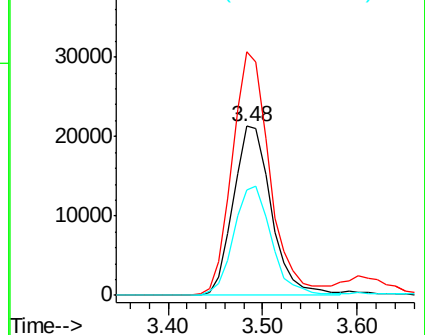
98 62.3 0.0 134.2



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#28

Bromochloromethane

Concen: 22.518 ug/l

RT: 3.73 min Scan# 314

Delta R.T. 0.01 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

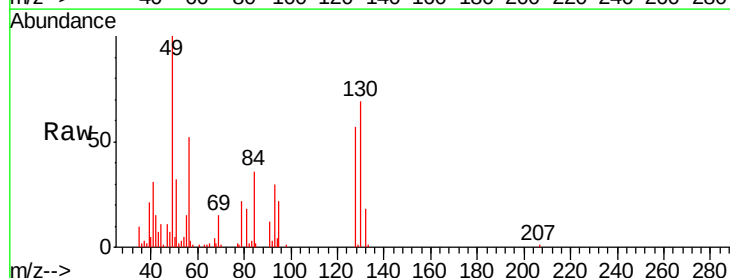
Tgt Ion: 49 Resp: 40103

Ion Ratio Lower Upper

49 100

129 1.2 0.0 3.6

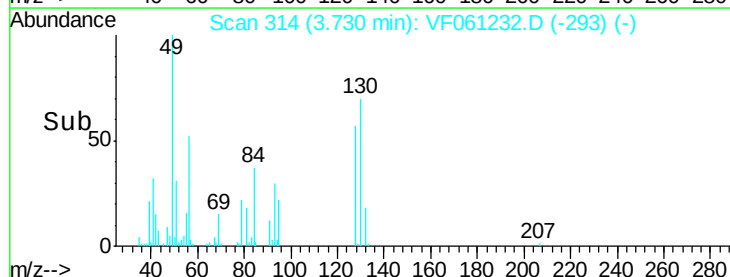
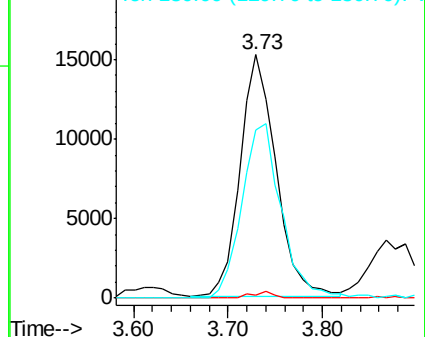
130 69.1 65.8 98.6

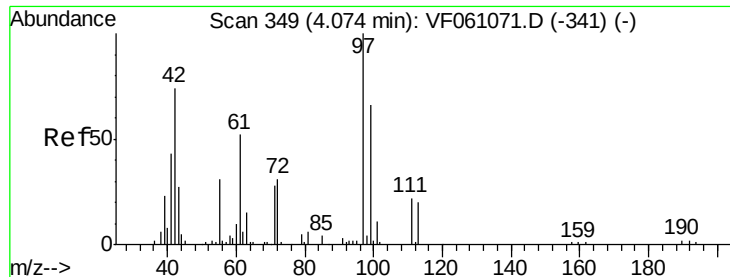


Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V





#29

Tetrahydrofuran

Concen: 122.934 ug/l

RT: 4.08 min Scan# 350

Delta R.T. 0.01 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

Instrument :

MSVOA_F

ClientSampleId :

VF1228SBS02

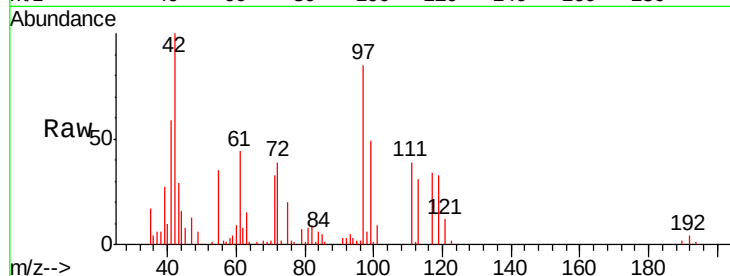
Tgt Ion: 42 Resp: 40449

Ion Ratio Lower Upper

42 100

72 39.6 31.8 47.8

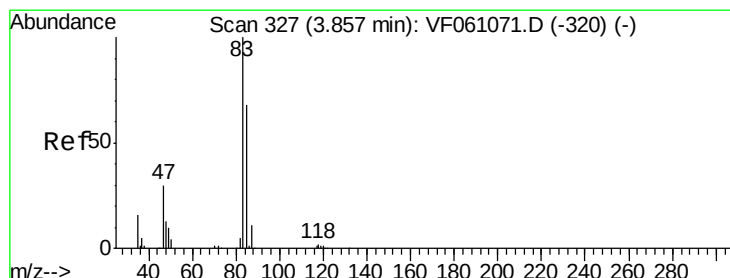
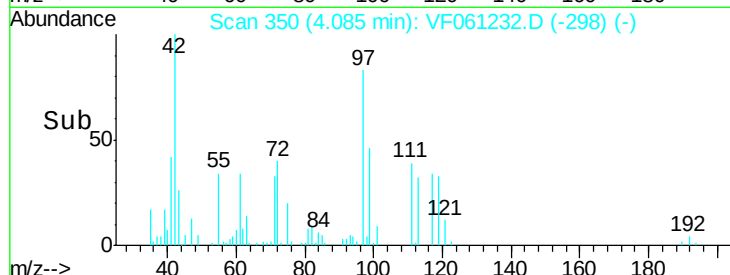
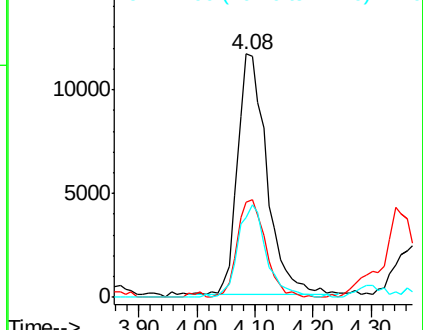
71 37.7 29.7 44.5



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 20.863 ug/l

RT: 3.88 min Scan# 329

Delta R.T. 0.02 min

Lab File: VF061232.D

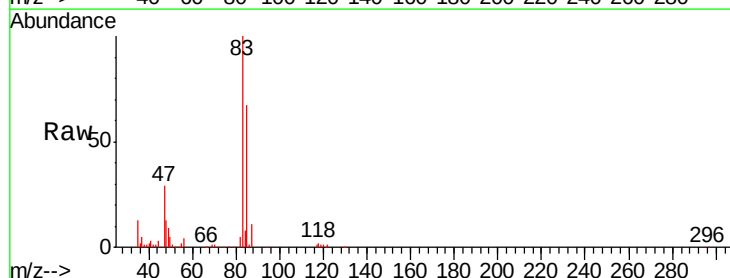
Acq: 28 Dec 2018 13:25

Tgt Ion: 83 Resp: 109795

Ion Ratio Lower Upper

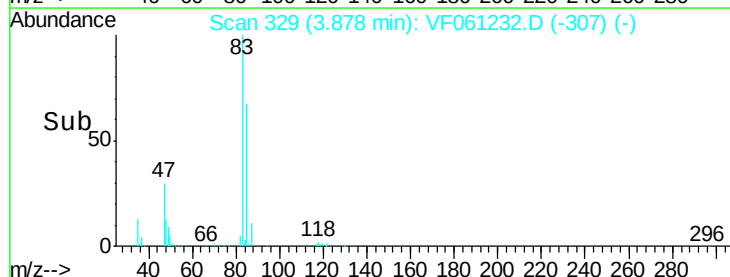
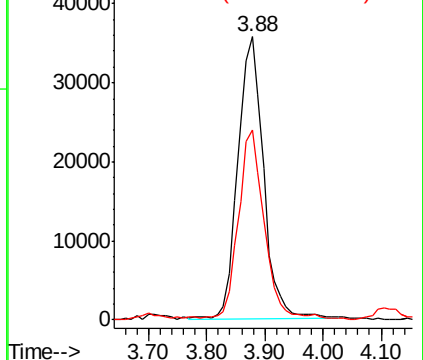
83 100

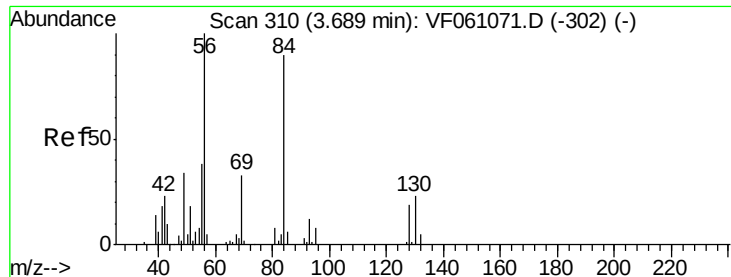
85 67.2 54.5 81.7



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

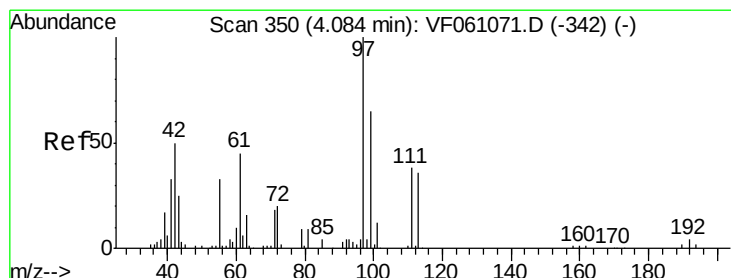
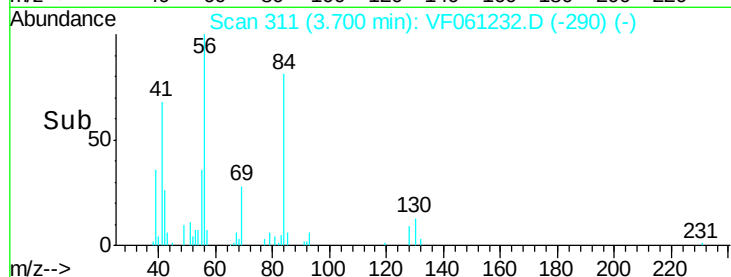
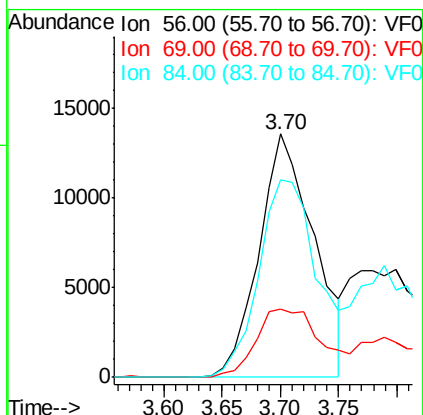
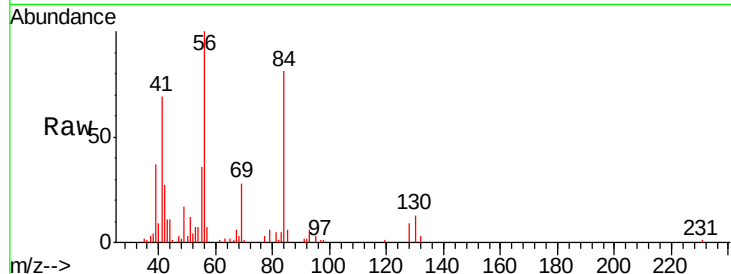




#31
Cyclohexane
Concen: 12.264 ug/l
RT: 3.70 min Scan# 311
Delta R.T. 0.01 min
Lab File: VF061232.D
Acq: 28 Dec 2018 13:25

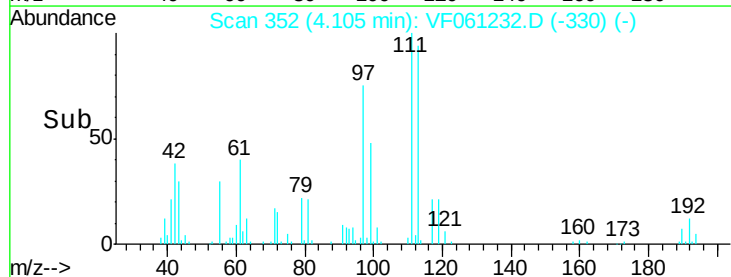
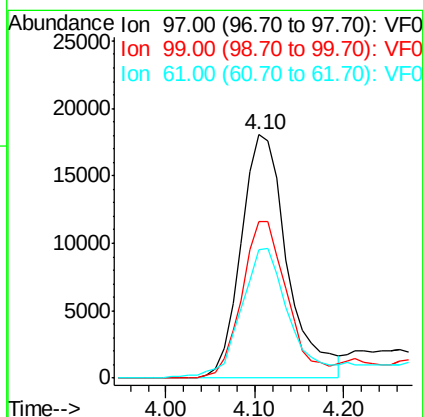
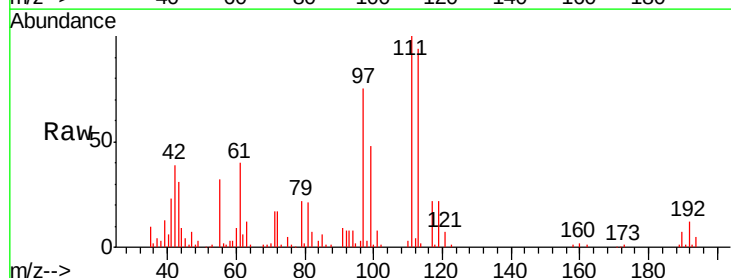
Instrument :
MSVOA_F
ClientSampleId :
VF1228SBS02

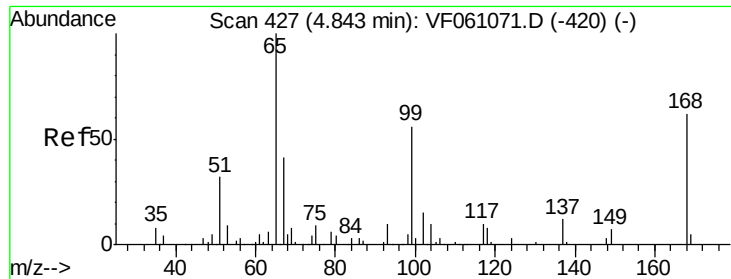
Tgt Ion: 56 Resp: 44667
Ion Ratio Lower Upper
56 100
69 28.1 26.0 39.0
84 81.3 71.4 107.2



#32
1,1,1-Trichloroethane
Concen: 20.679 ug/l
RT: 4.10 min Scan# 352
Delta R.T. 0.02 min
Lab File: VF061232.D
Acq: 28 Dec 2018 13:25

Tgt Ion: 97 Resp: 65231
Ion Ratio Lower Upper
97 100
99 64.3 51.6 77.4
61 52.6 36.2 54.2

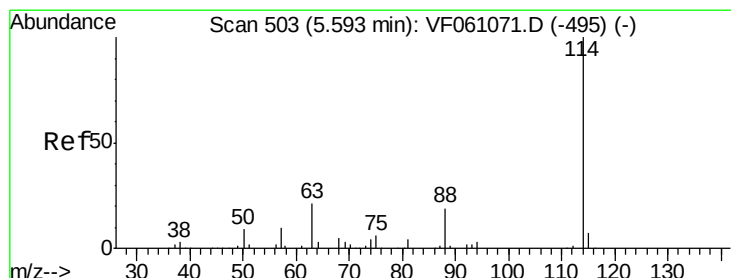
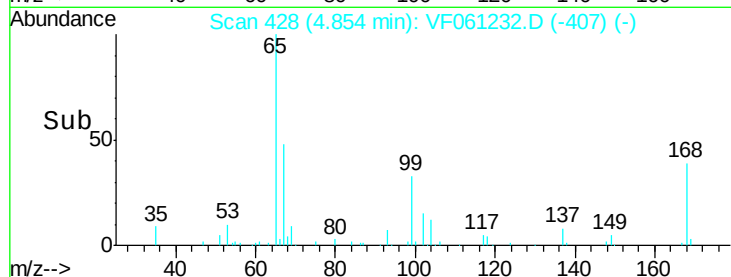
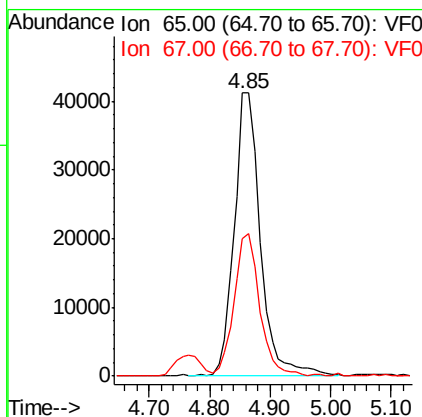
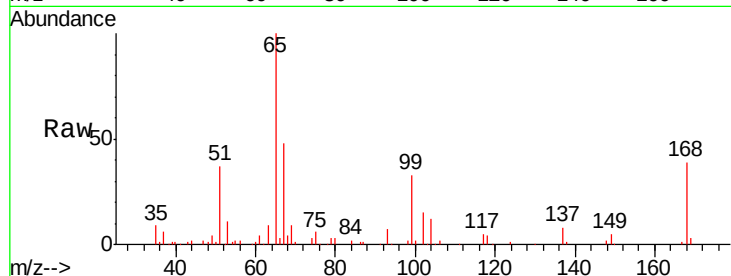




#33
 1,2-Dichloroethane-d4
 Concen: 50.136 ug/l
 RT: 4.85 min Scan# 428
 Delta R.T. 0.01 min
 Lab File: VF061232.D
 Acq: 28 Dec 2018 13:25

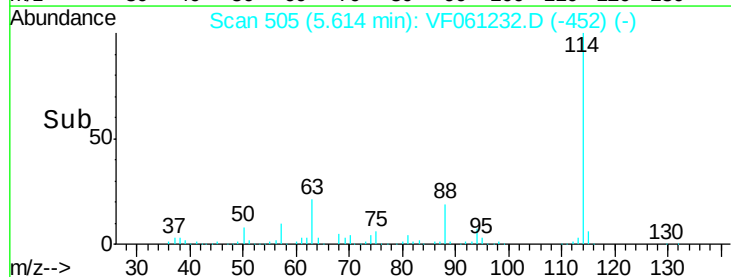
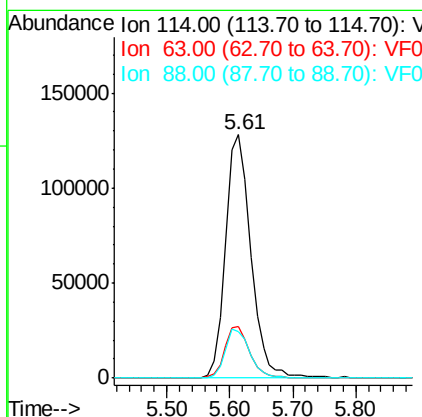
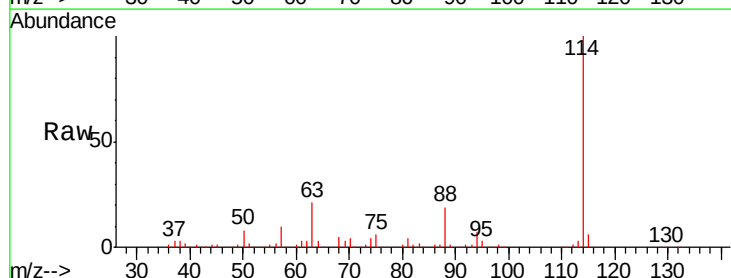
Instrument :
 MSVOA_F
 ClientSampleId :
 VF1228SBS02

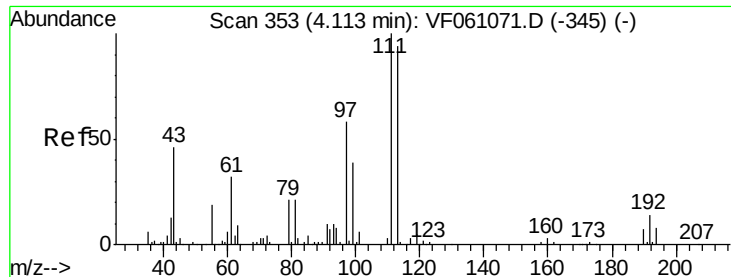
Tgt Ion: 65 Resp: 125009
 Ion Ratio Lower Upper
 65 100
 67 48.5 0.0 94.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.61 min Scan# 505
 Delta R.T. 0.02 min
 Lab File: VF061232.D
 Acq: 28 Dec 2018 13:25

Tgt Ion: 114 Resp: 357448
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 41.6
 88 19.0 0.0 38.0

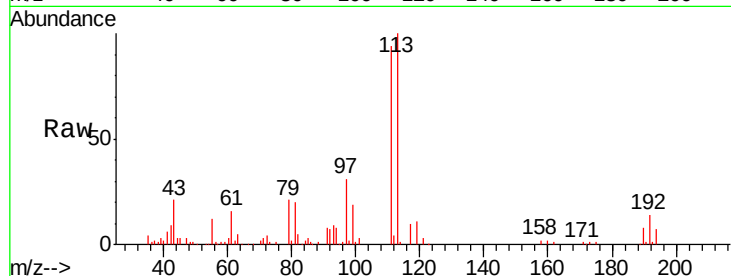




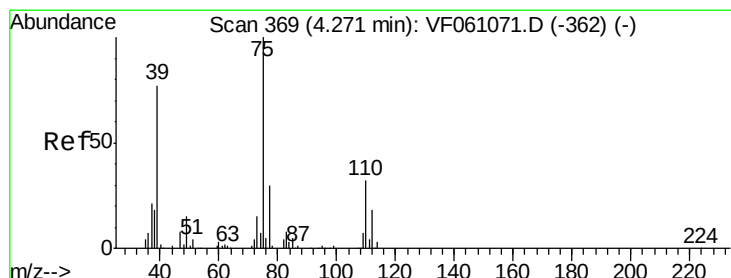
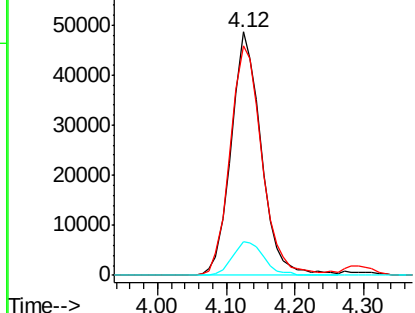
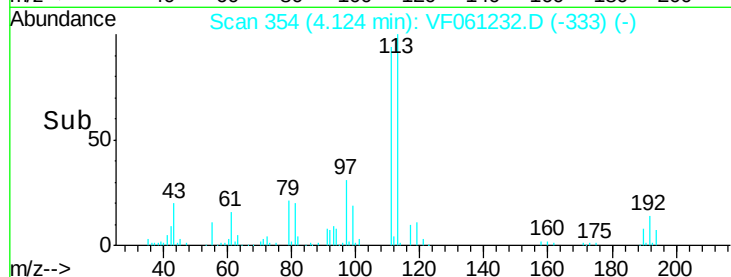
#35
 Dibromofluoromethane
 Concen: 51.444 ug/l
 RT: 4.12 min Scan# 354
 Delta R.T. 0.01 min
 Lab File: VF061232.D
 Acq: 28 Dec 2018 13:25

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1228SBS02

Tgt Ion: 113 Resp: 147302
 Ion Ratio Lower Upper
 113 100
 111 94.5 85.2 127.8
 192 14.4 12.8 19.2

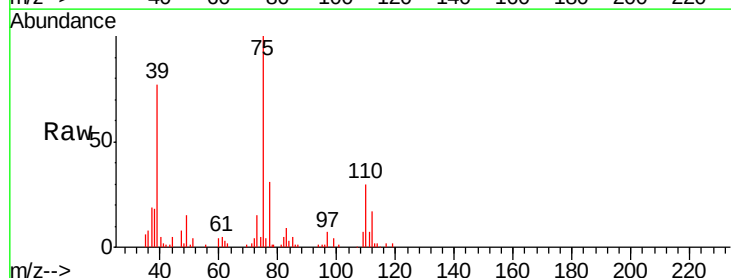


Abundance Ion 113.00 (112.70 to 113.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 192.00 (191.70 to 192.70): V

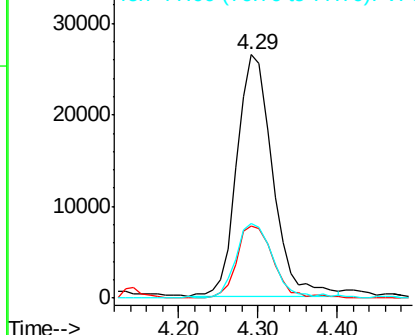
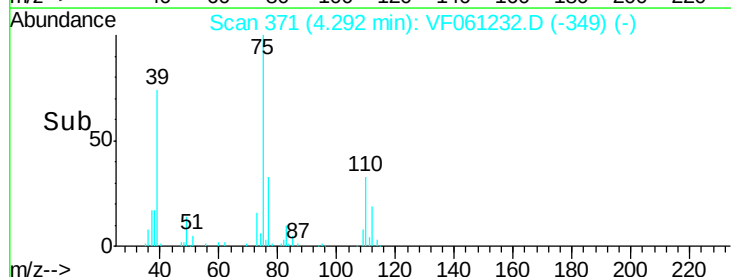


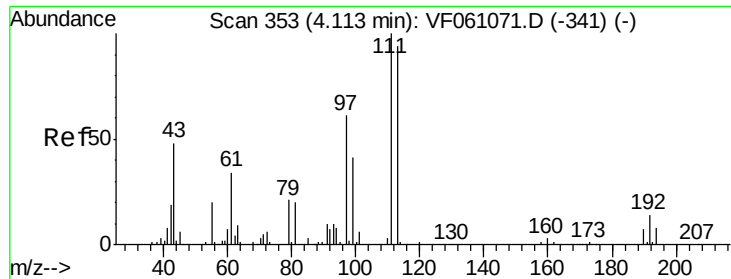
#36
 1,1-Dichloropropene
 Concen: 18.936 ug/l
 RT: 4.29 min Scan# 371
 Delta R.T. 0.02 min
 Lab File: VF061232.D
 Acq: 28 Dec 2018 13:25

Tgt Ion: 75 Resp: 81704
 Ion Ratio Lower Upper
 75 100
 110 29.7 16.1 48.2
 77 30.7 24.5 36.7



Abundance Ion 75.00 (74.70 to 75.70): VF0
 Ion 110.00 (109.70 to 110.70): V
 Ion 77.00 (76.70 to 77.70): VF0

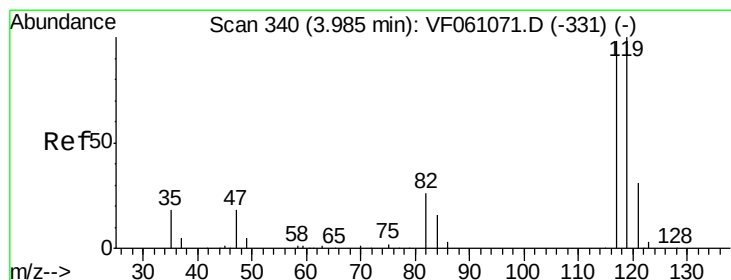
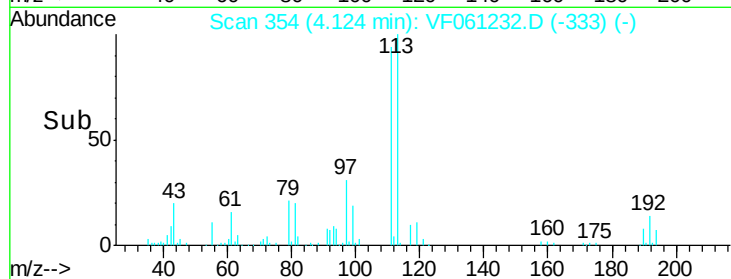
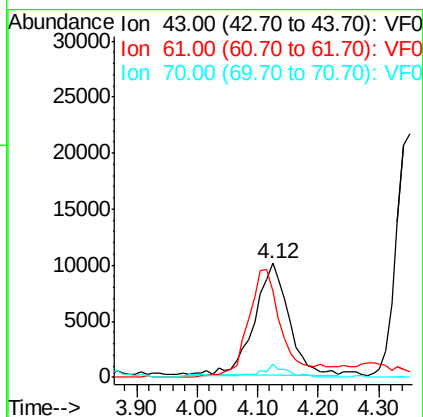
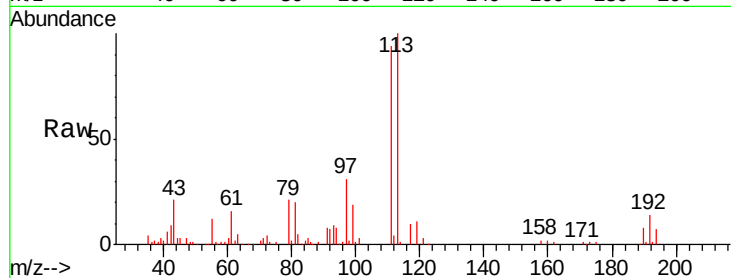




#37
Ethyl Acetate
Concen: 21.029 ug/l
RT: 4.12 min Scan# 354
Delta R.T. 0.01 min
Lab File: VF061232.D
Acq: 28 Dec 2018 13:25

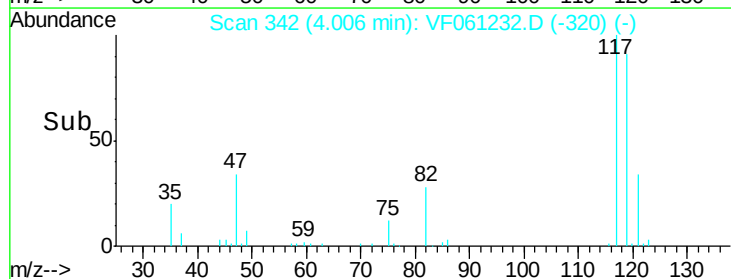
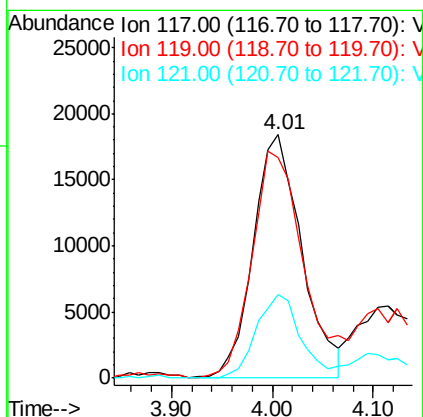
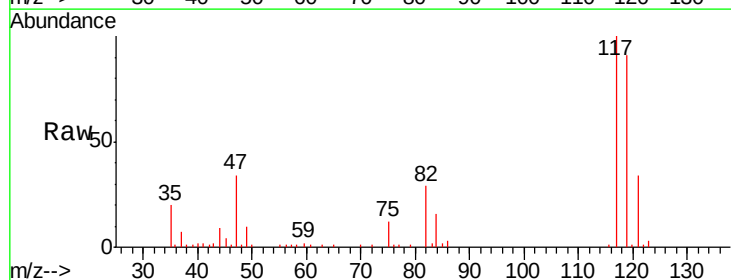
Instrument :
MSVOA_F
ClientSampleId :
VF1228SBS02

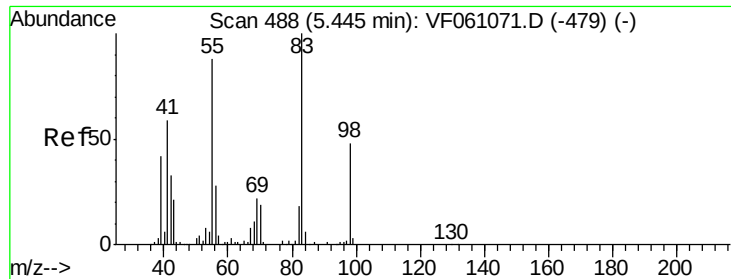
Tgt Ion: 43 Resp: 38992
Ion Ratio Lower Upper
43 100
61 76.0 56.6 84.8
70 11.3 6.3 9.5#



#38
Carbon Tetrachloride
Concen: 18.880 ug/l
RT: 4.01 min Scan# 342
Delta R.T. 0.02 min
Lab File: VF061232.D
Acq: 28 Dec 2018 13:25

Tgt Ion: 117 Resp: 62035
Ion Ratio Lower Upper
117 100
119 90.7 82.1 123.1
121 34.3 25.5 38.3

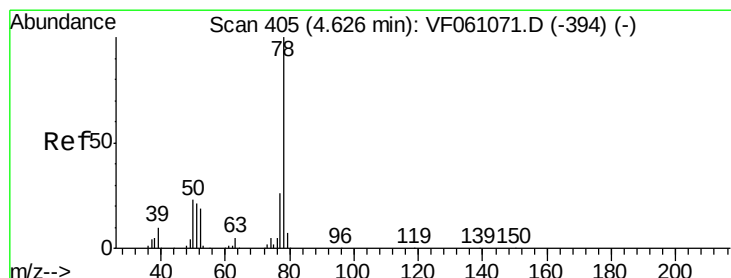
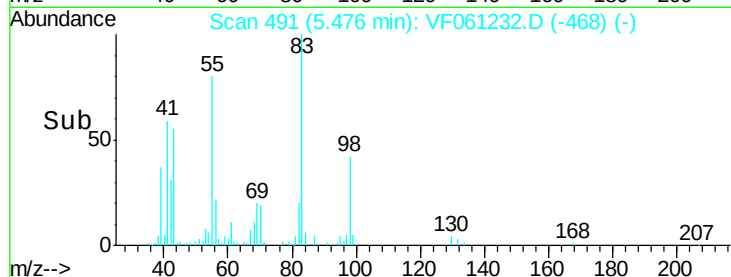
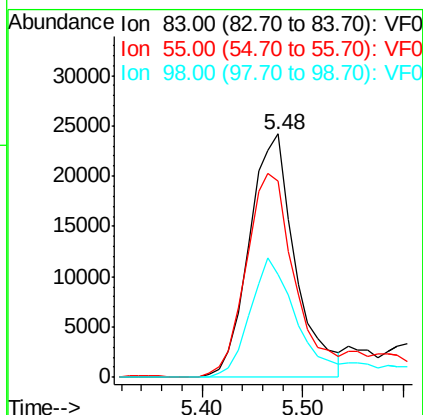
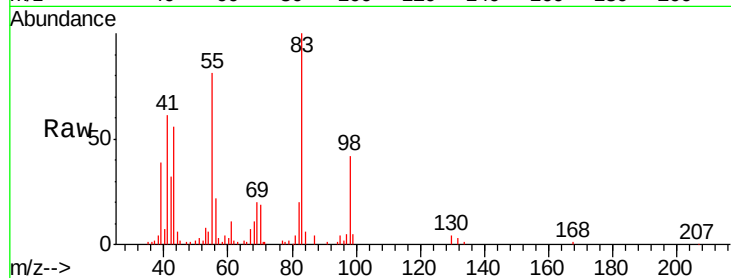




#39
Methylcyclohexane
Concen: 19.804 ug/l
RT: 5.48 min Scan# 491
Delta R.T. 0.03 min
Lab File: VF061232.D
Acq: 28 Dec 2018 13:25

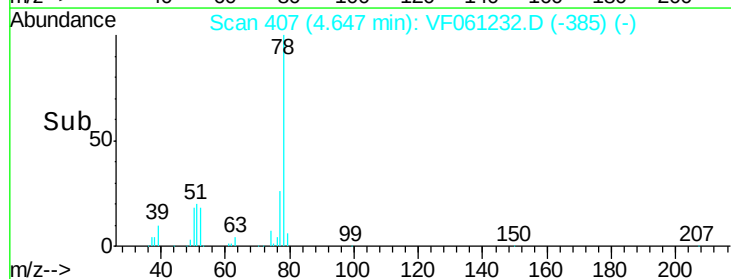
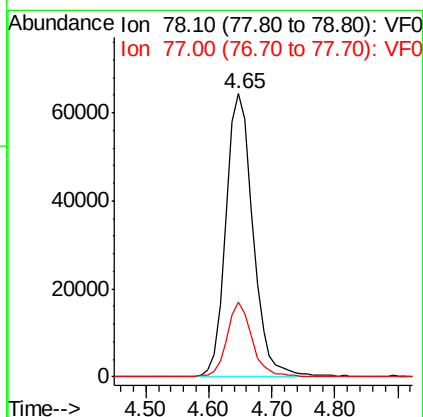
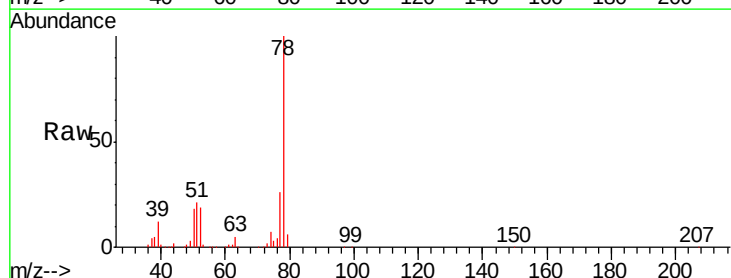
Instrument :
MSVOA_F
ClientSampleId :
VF1228SBS02

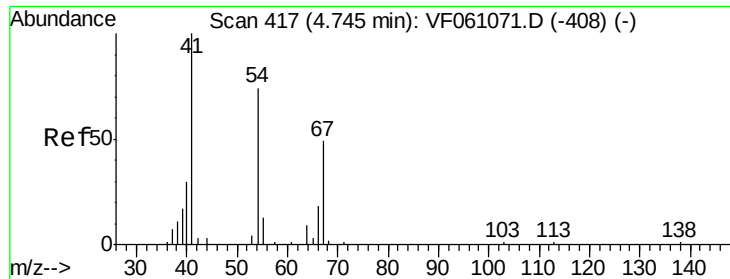
Tgt Ion: 83 Resp: 76659
Ion Ratio Lower Upper
83 100
55 80.6 70.6 105.8
98 42.3 38.5 57.7



#40
Benzene
Concen: 20.676 ug/l
RT: 4.65 min Scan# 407
Delta R.T. 0.02 min
Lab File: VF061232.D
Acq: 28 Dec 2018 13:25

Tgt Ion: 78 Resp: 191850
Ion Ratio Lower Upper
78 100
77 26.3 20.7 31.1

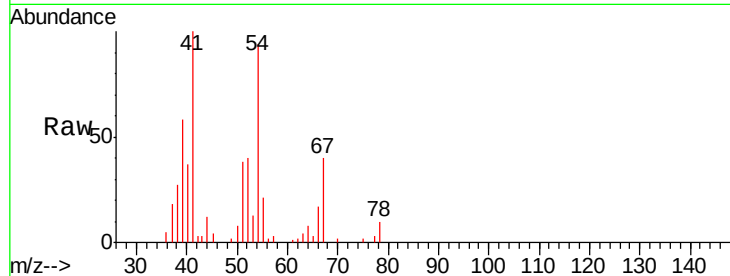




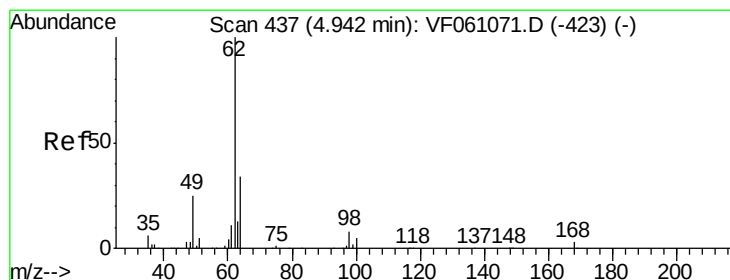
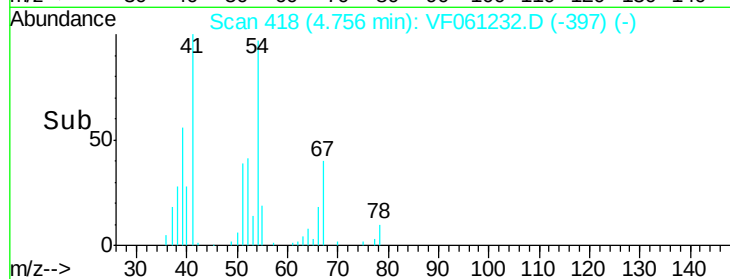
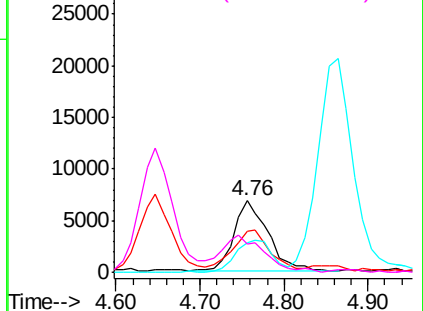
#41
Methacrylonitrile
Concen: 21.262 ug/l
RT: 4.76 min Scan# 418
Delta R.T. 0.01 min
Lab File: VF061232.D
Acq: 28 Dec 2018 13:25

Instrument :
MSVOA_F
ClientSampleId :
VF1228SBS02

Tgt Ion: 41 Resp: 19374
Ion Ratio Lower Upper
41 100
39 57.6 45.7 68.5
67 40.4 38.9 58.3
52 39.8 35.2 52.8

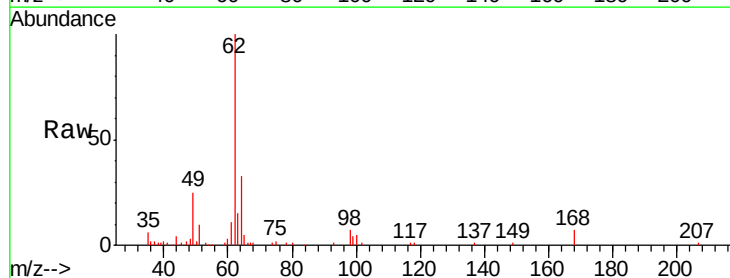


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0

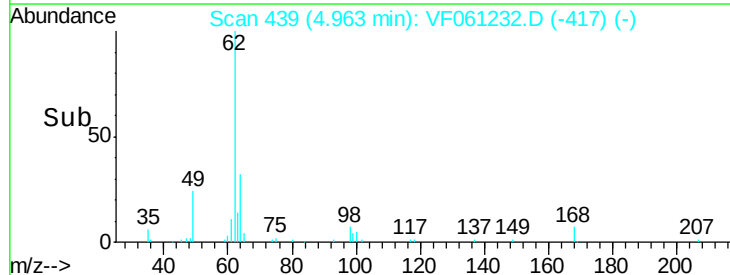
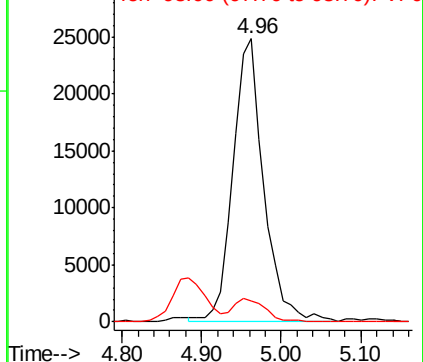


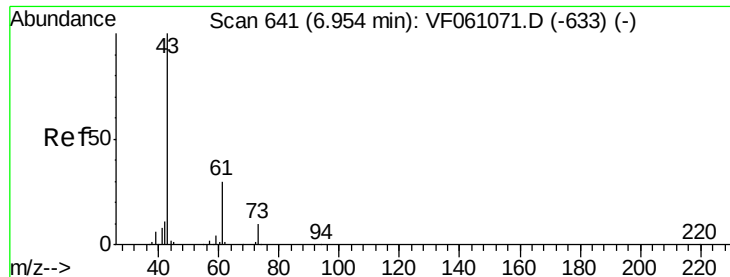
#42
1,2-Dichloroethane
Concen: 19.012 ug/l
RT: 4.96 min Scan# 439
Delta R.T. 0.02 min
Lab File: VF061232.D
Acq: 28 Dec 2018 13:25

Tgt Ion: 62 Resp: 67014
Ion Ratio Lower Upper
62 100
98 7.2 0.0 16.6



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





#43

Isopropyl Acetate

Concen: 21.764 ug/l

RT: 6.98 min Scan# 643

Delta R.T. 0.02 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

Instrument :

MSVOA_F

ClientSampleId :

VF1228SBS02

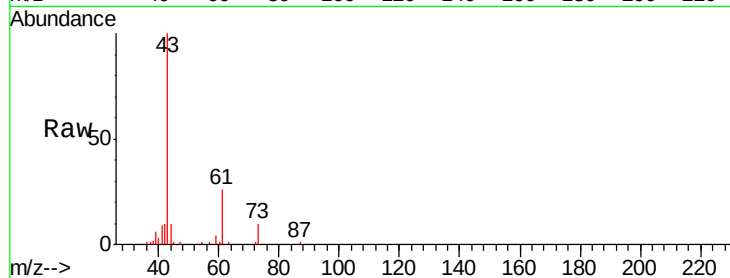
Tgt Ion: 43 Resp: 45341

Ion Ratio Lower Upper

43 100

61 26.3 23.8 35.8

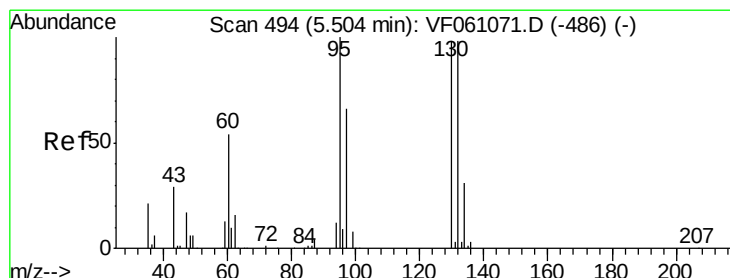
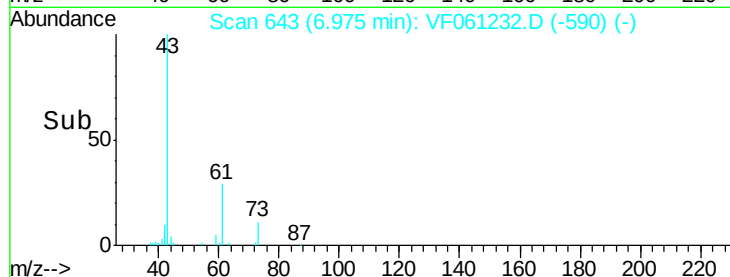
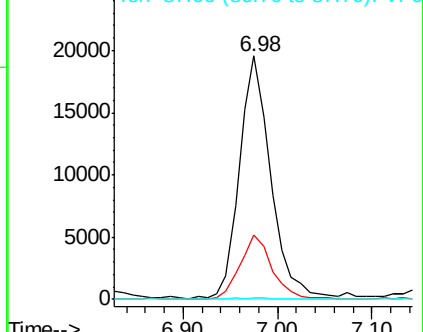
87 0.6 0.0 0.0#



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: 20.870 ug/l

RT: 5.52 min Scan# 495

Delta R.T. 0.01 min

Lab File: VF061232.D

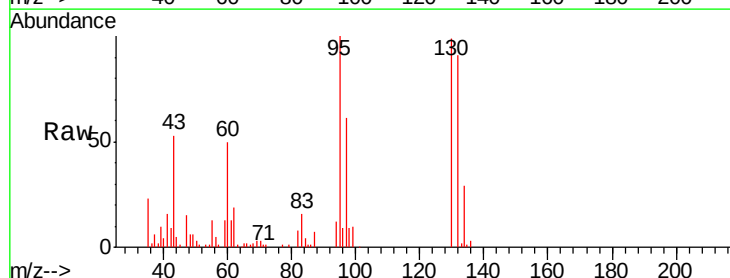
Acq: 28 Dec 2018 13:25

Tgt Ion: 130 Resp: 61051

Ion Ratio Lower Upper

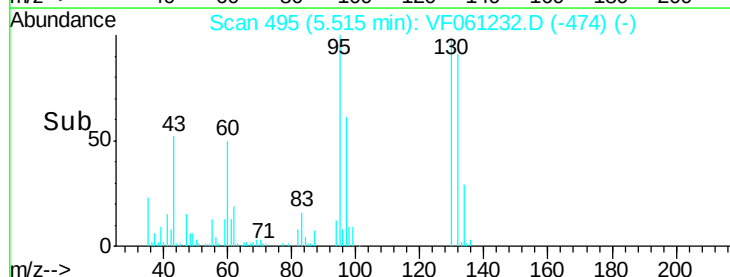
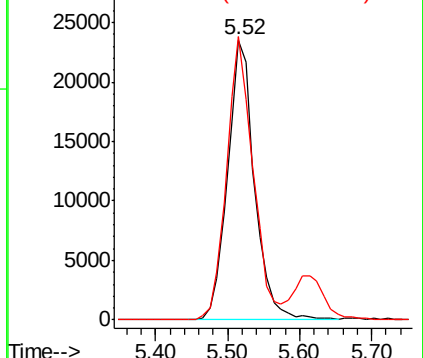
130 100

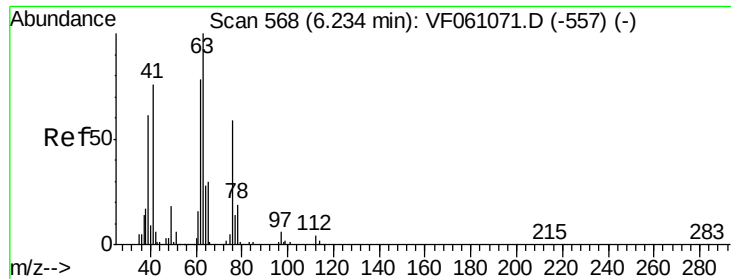
95 101.1 0.0 205.2



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0

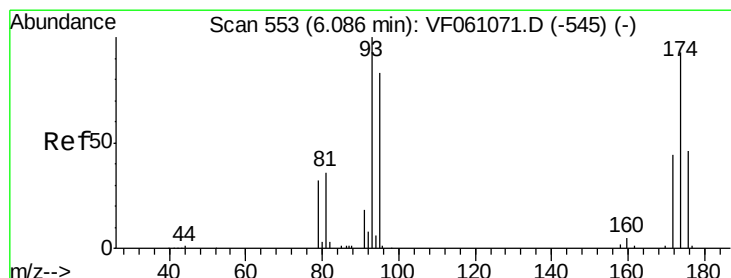
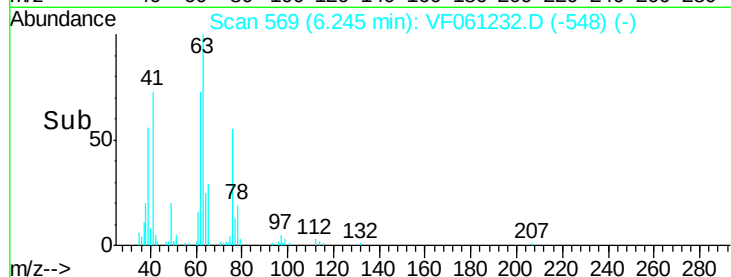
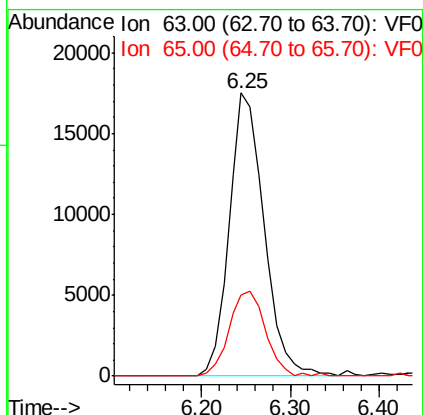
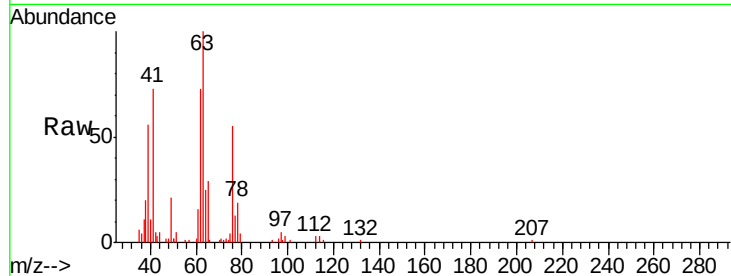




#45
 1,2-Dichloropropane
 Concen: 18.961 ug/l
 RT: 6.25 min Scan# 569
 Delta R.T. 0.01 min
 Lab File: VF061232.D
 Acq: 28 Dec 2018 13:25

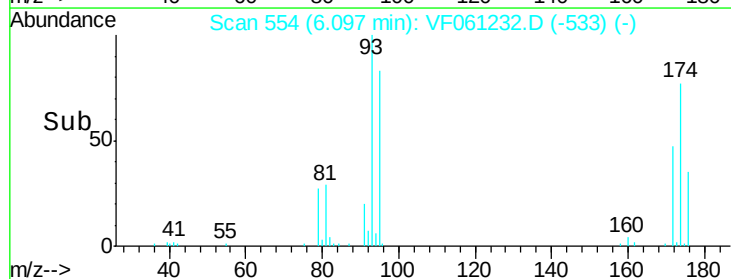
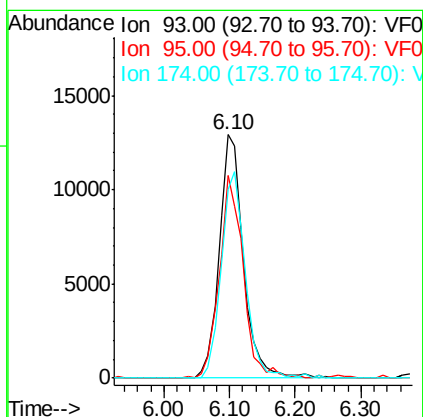
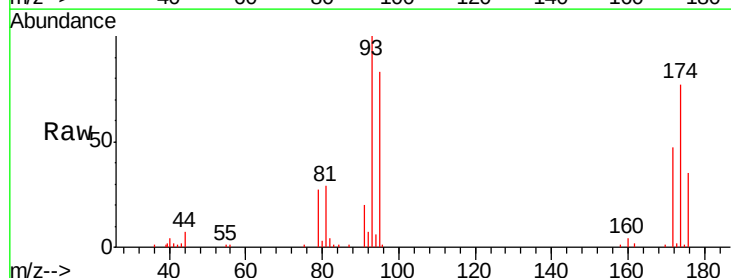
Instrument :
 MSVOA_F
 ClientSampleId :
 VF1228SBS02

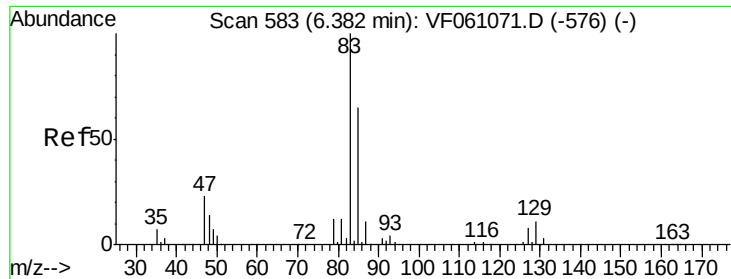
Tgt Ion: 63 Resp: 47866
 Ion Ratio Lower Upper
 63 100
 65 28.5 24.4 36.6



#46
 Dibromomethane
 Concen: 20.209 ug/l
 RT: 6.10 min Scan# 554
 Delta R.T. 0.01 min
 Lab File: VF061232.D
 Acq: 28 Dec 2018 13:25

Tgt Ion: 93 Resp: 33089
 Ion Ratio Lower Upper
 93 100
 95 83.4 66.9 100.3
 174 77.3 74.1 111.1





#47

Bromodichloromethane

Concen: 19.543 ug/l

RT: 6.40 min Scan# 585

Delta R.T. 0.02 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

Instrument :

MSVOA_F

ClientSampleId :

VF1228SBS02

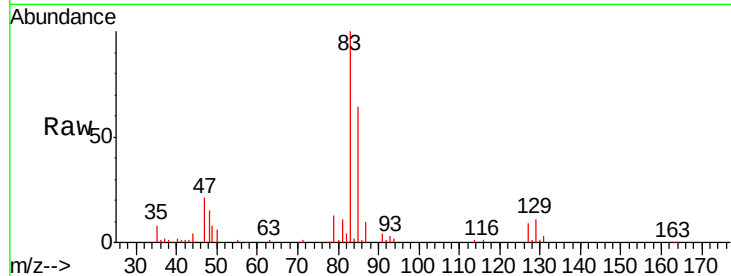
Tgt Ion: 83 Resp: 83137

Ion Ratio Lower Upper

83 100

85 64.1 52.2 78.4

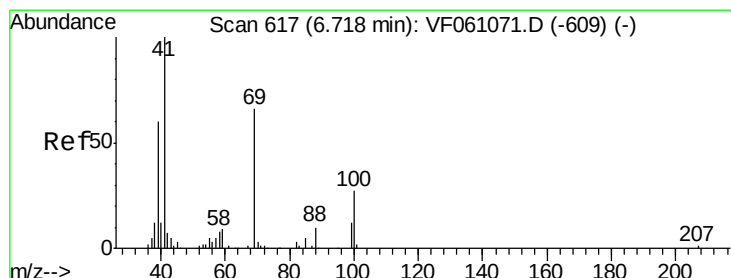
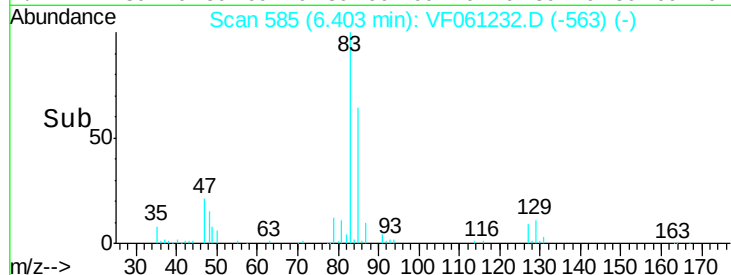
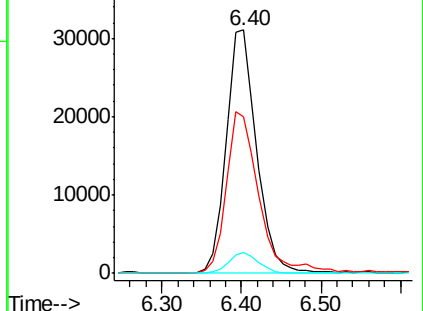
127 8.6 6.1 9.1



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 21.395 ug/l

RT: 6.73 min Scan# 618

Delta R.T. 0.01 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

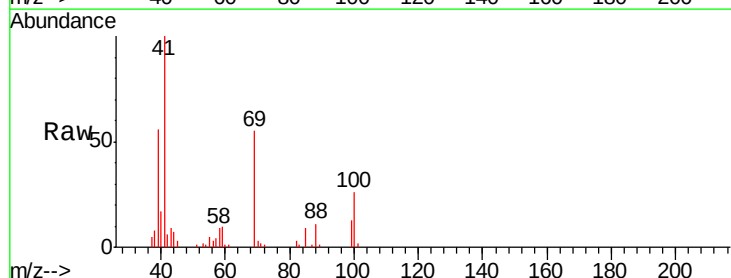
Tgt Ion: 41 Resp: 31117

Ion Ratio Lower Upper

41 100

69 54.9 52.7 79.1

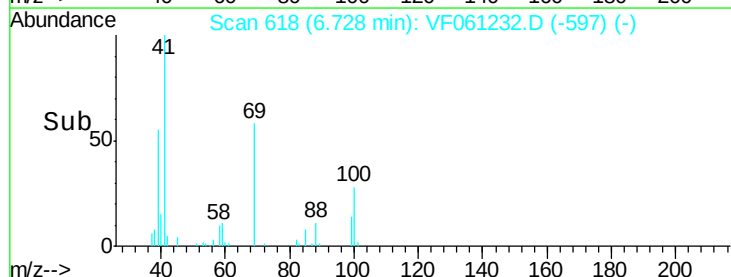
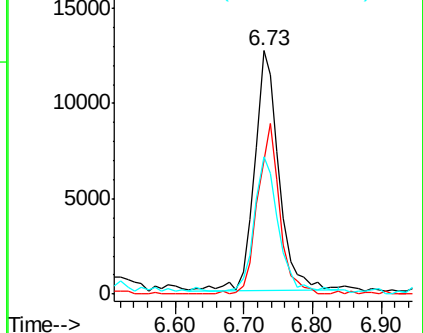
39 56.2 47.8 71.6

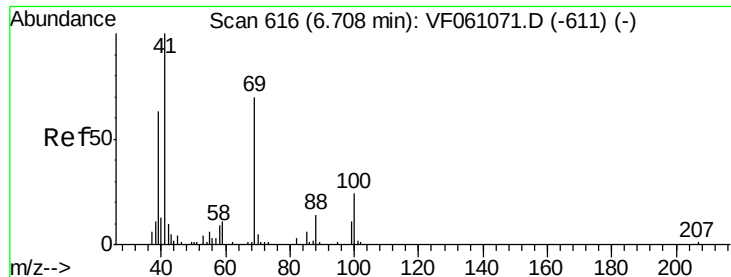


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

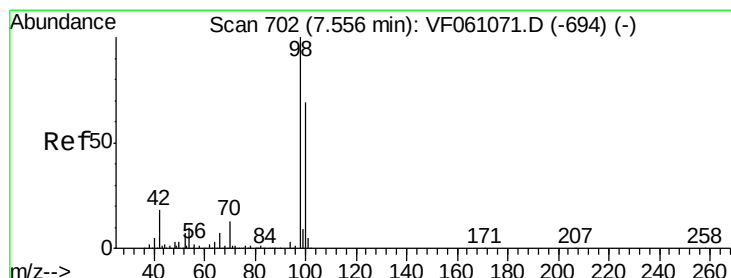
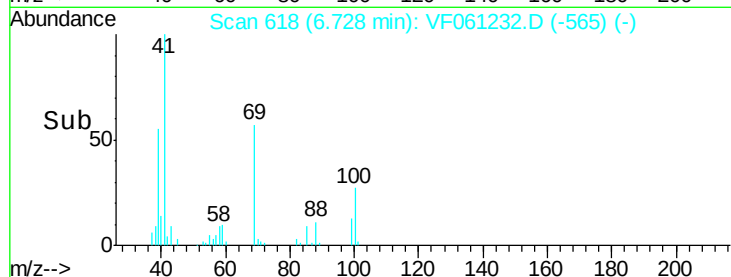
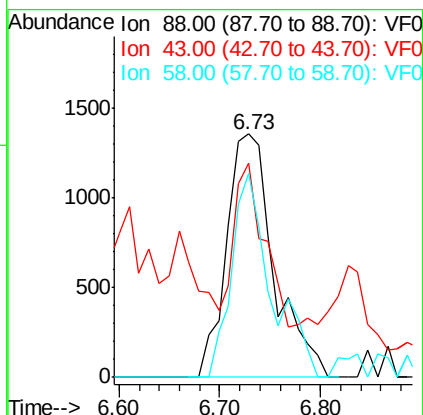
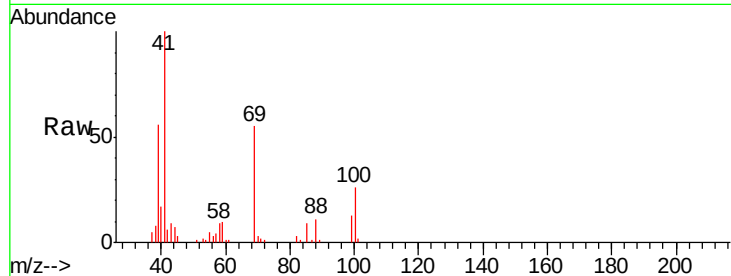




#49
1,4-Dioxane
Concen: 421.018 ug/l
RT: 6.73 min Scan# 618
Delta R.T. 0.02 min
Lab File: VF061232.D
Acq: 28 Dec 2018 13:25

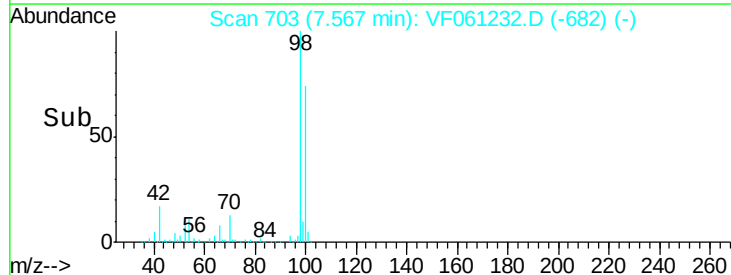
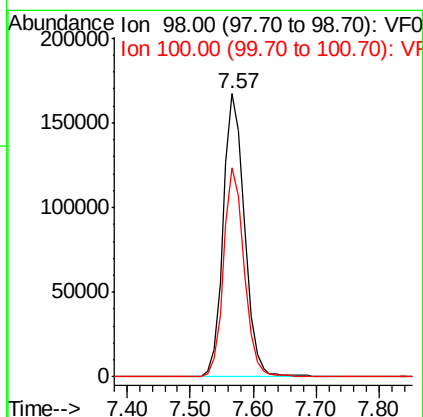
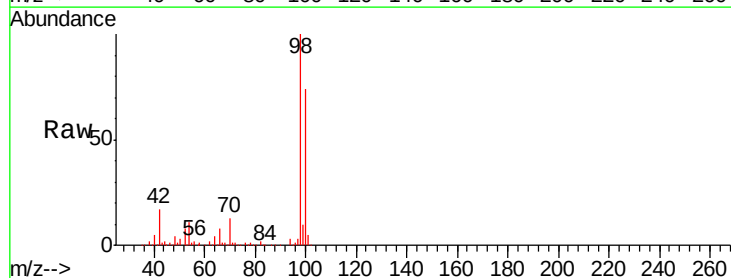
Instrument :
MSVOA_F
ClientSampleId :
VF1228SBS02

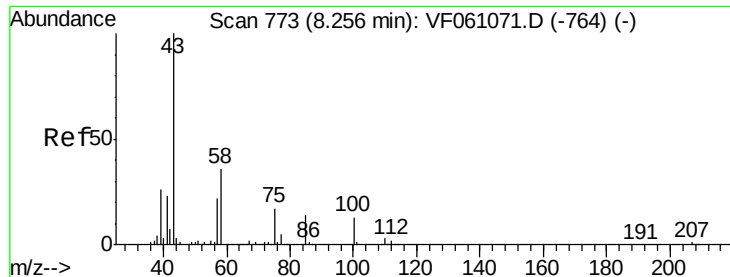
Tgt Ion: 88 Resp: 4443
Ion Ratio Lower Upper
88 100
43 88.1 33.3 49.9#
58 83.7 53.2 79.8#



#50
Toluene-d8
Concen: 48.720 ug/l
RT: 7.57 min Scan# 703
Delta R.T. 0.01 min
Lab File: VF061232.D
Acq: 28 Dec 2018 13:25

Tgt Ion: 98 Resp: 395332
Ion Ratio Lower Upper
98 100
100 74.0 55.3 82.9





#51

4-Methyl-2-Pentanone

Concen: 110.729 ug/l

RT: 8.28 min Scan# 775

Delta R.T. 0.02 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

Instrument :

MSVOA_F

ClientSampleId :

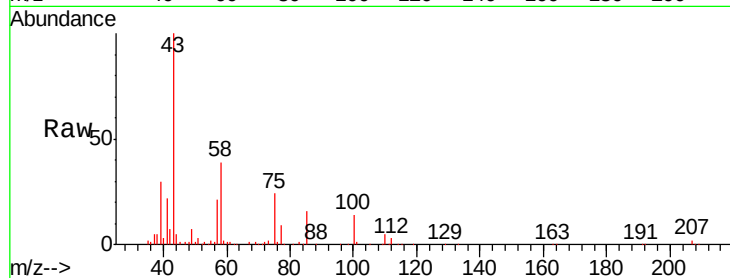
VF1228SBS02

Tgt Ion: 43 Resp: 158209

Ion Ratio Lower Upper

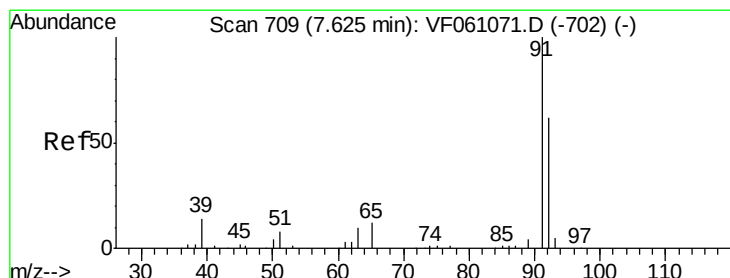
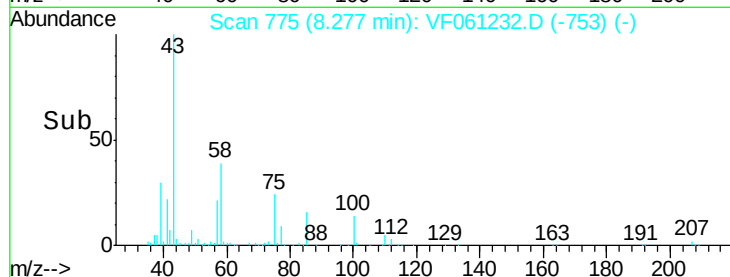
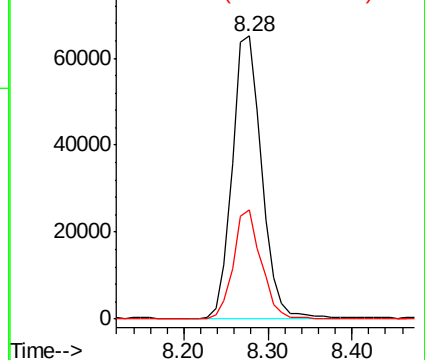
43 100

58 38.6 29.1 43.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 19.179 ug/l

RT: 7.64 min Scan# 710

Delta R.T. 0.01 min

Lab File: VF061232.D

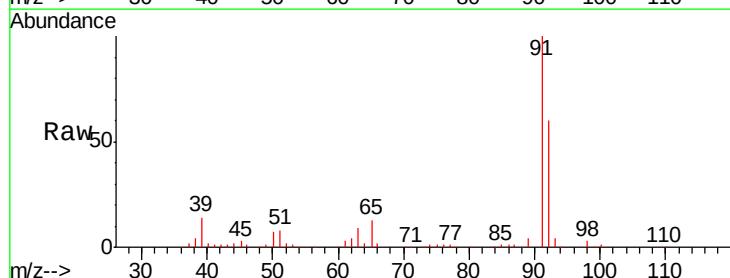
Acq: 28 Dec 2018 13:25

Tgt Ion: 92 Resp: 117800

Ion Ratio Lower Upper

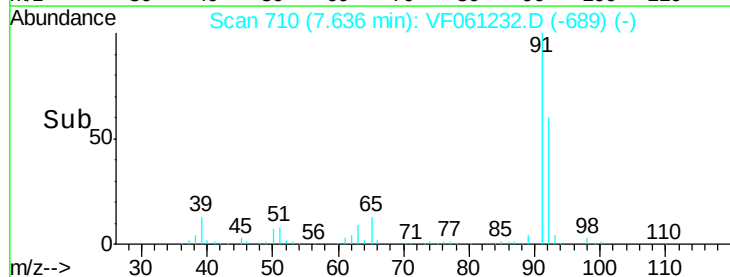
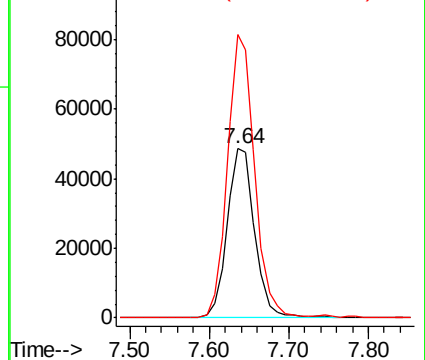
92 100

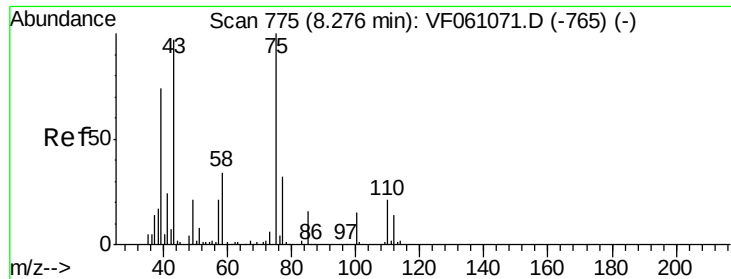
91 167.2 128.8 193.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

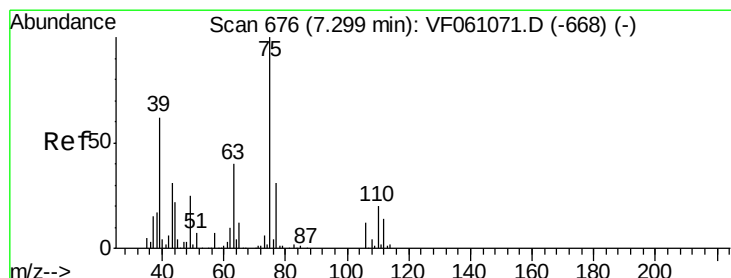
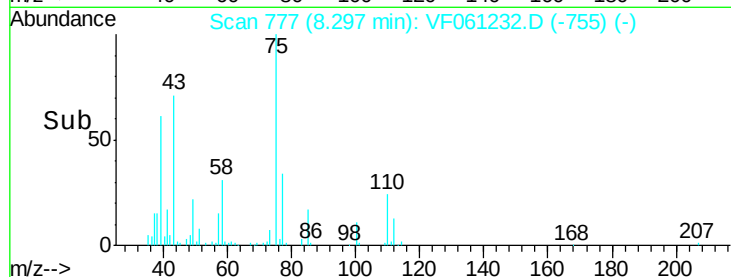
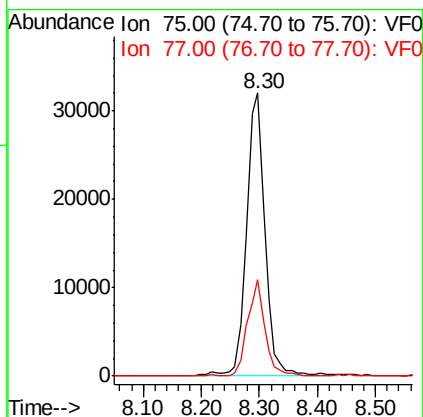
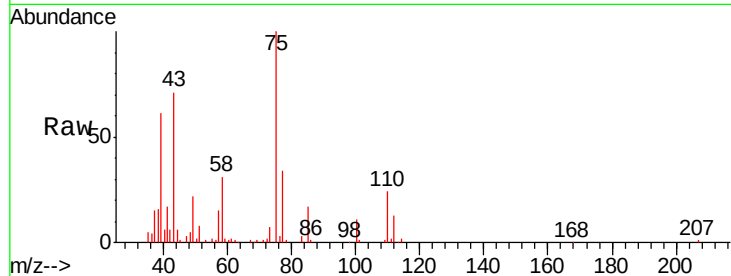




#53
 t-1,3-Dichloropropene
 Concen: 20.761 ug/l
 RT: 8.30 min Scan# 777
 Delta R.T. 0.02 min
 Lab File: VF061232.D
 Acq: 28 Dec 2018 13:25

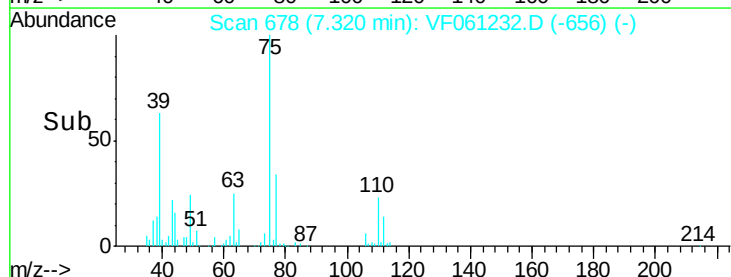
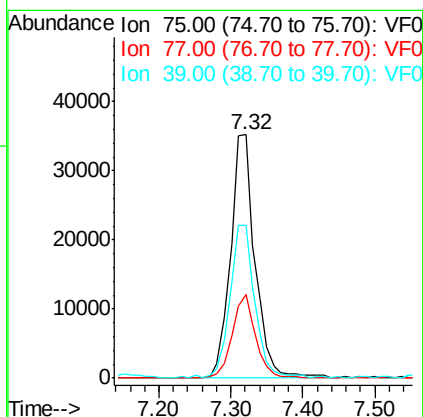
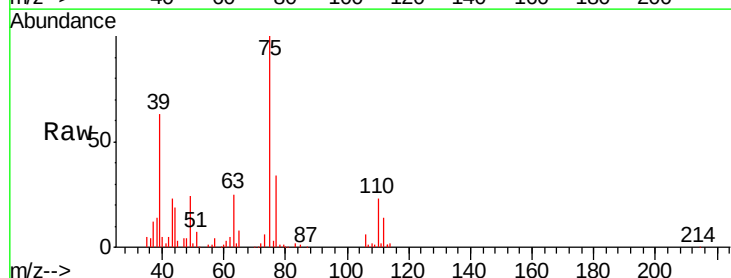
Instrument :
 MSVOA_F
 ClientSampleId :
 VF1228SBS02

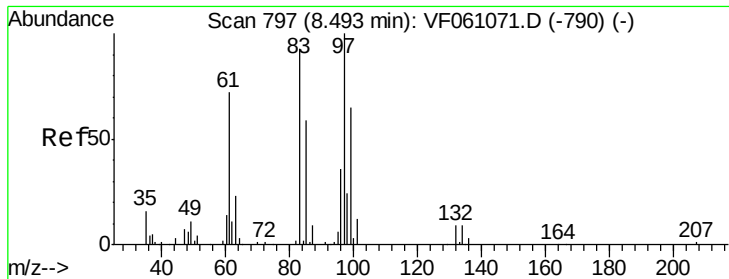
Tgt Ion: 75 Resp: 71249
 Ion Ratio Lower Upper
 75 100
 77 34.3 25.8 38.8



#54
 cis-1,3-Dichloropropene
 Concen: 19.402 ug/l
 RT: 7.32 min Scan# 678
 Delta R.T. 0.02 min
 Lab File: VF061232.D
 Acq: 28 Dec 2018 13:25

Tgt Ion: 75 Resp: 83571
 Ion Ratio Lower Upper
 75 100
 77 34.4 25.0 37.4
 39 62.9 50.1 75.1





#55

1,1,2-Trichloroethane

Concen: 20.895 ug/l

RT: 8.50 min Scan# 798

Delta R.T. 0.01 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

Instrument :

MSVOA_F

ClientSampleId :

VF1228SBS02

Tgt Ion: 97 Resp: 38474

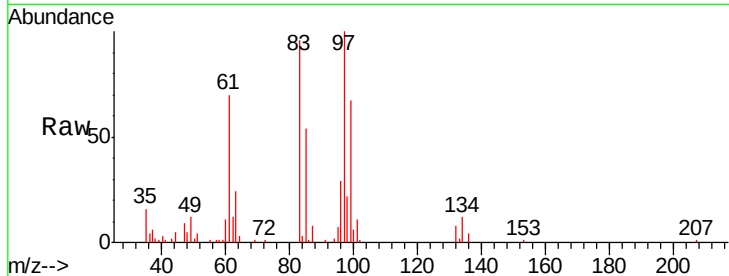
Ion Ratio Lower Upper

97 100

83 95.6 75.0 112.4

85 54.2 47.5 71.3

99 66.5 51.9 77.9

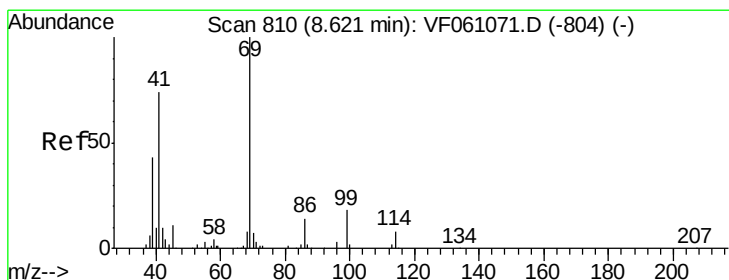
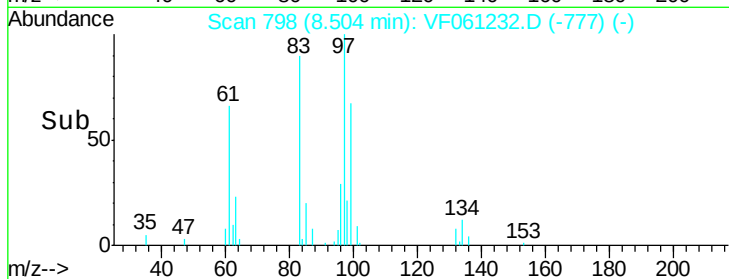
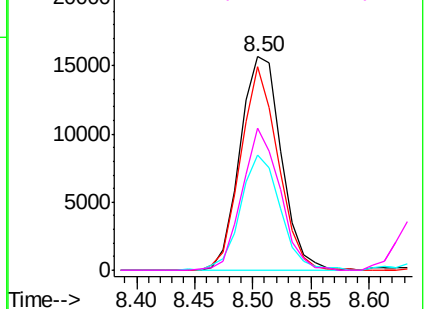


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 19.910 ug/l

RT: 8.63 min Scan# 811

Delta R.T. 0.01 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

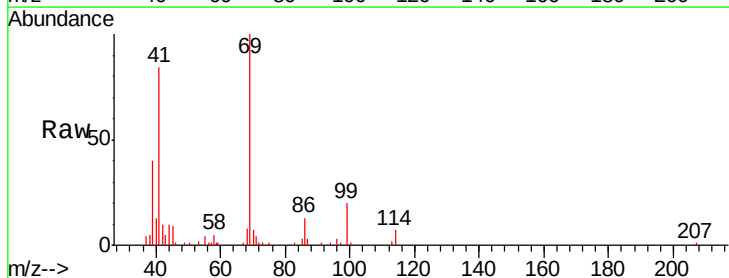
Tgt Ion: 69 Resp: 39668

Ion Ratio Lower Upper

69 100

41 83.7 59.7 89.5

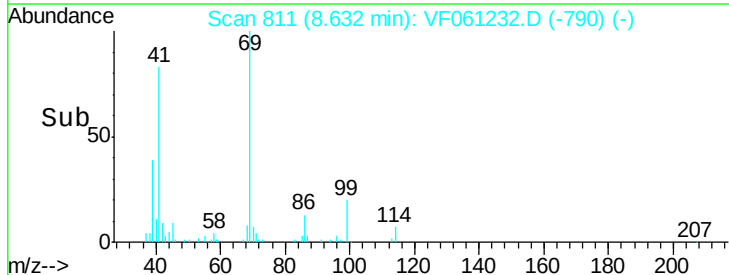
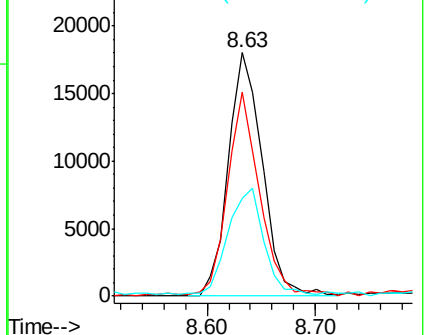
39 39.9 35.0 52.6

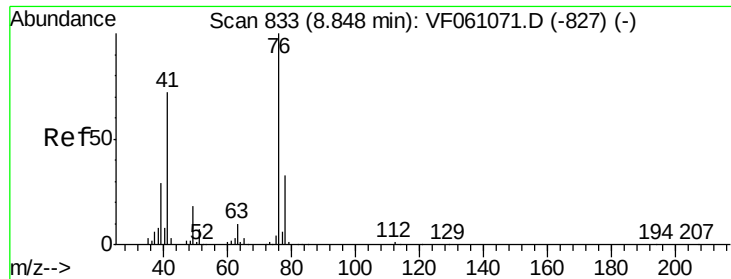


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 20.999 ug/l

RT: 8.87 min Scan# 835

Delta R.T. 0.02 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

Instrument :

MSVOA_F

ClientSampleId :

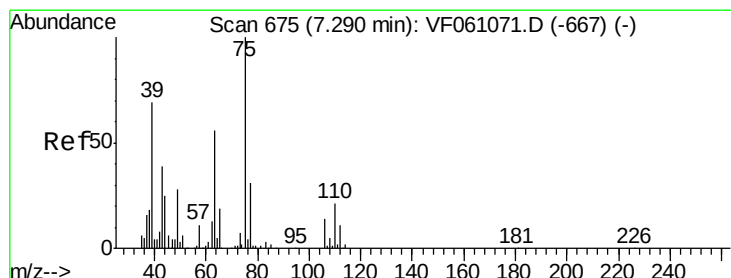
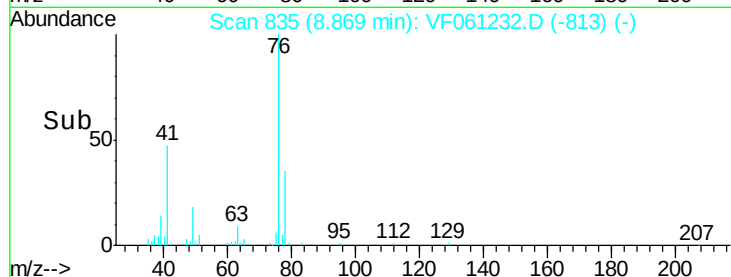
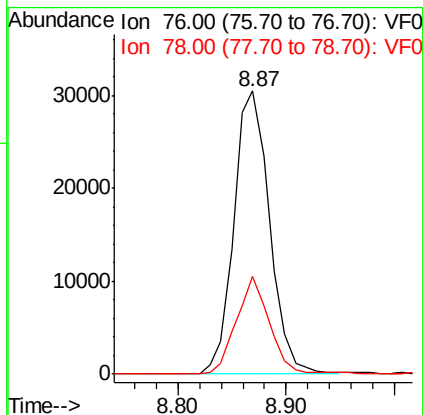
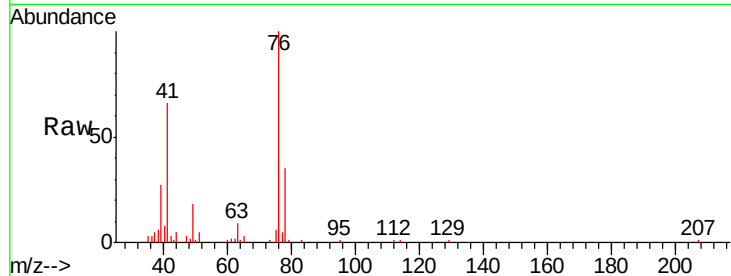
VF1228SBS02

Tgt Ion: 76 Resp: 69932

Ion Ratio Lower Upper

76 100

78 34.5 26.5 39.7



#58

2-Chloroethyl Vinyl ether

Concen: 67.037 ug/l

RT: 7.31 min Scan# 677

Delta R.T. 0.02 min

Lab File: VF061232.D

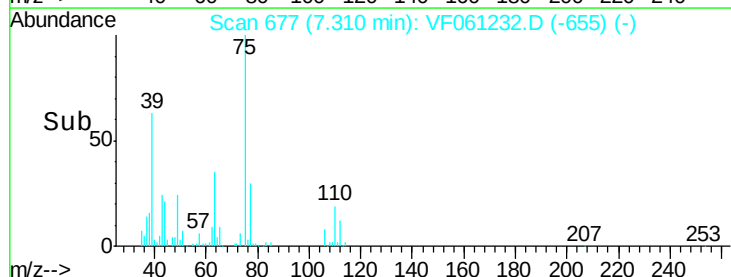
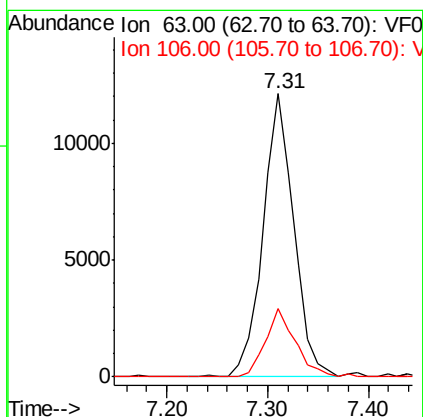
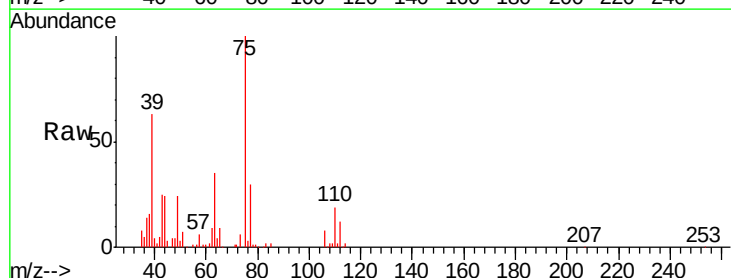
Acq: 28 Dec 2018 13:25

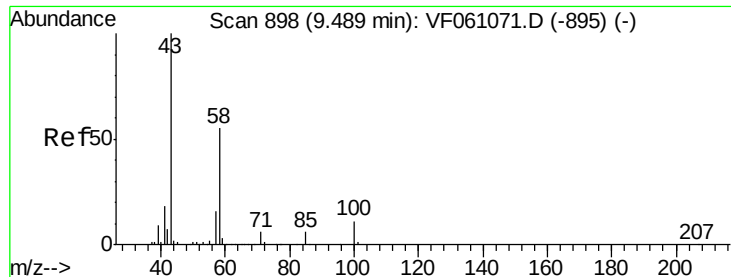
Tgt Ion: 63 Resp: 25652

Ion Ratio Lower Upper

63 100

106 24.1 19.8 29.8

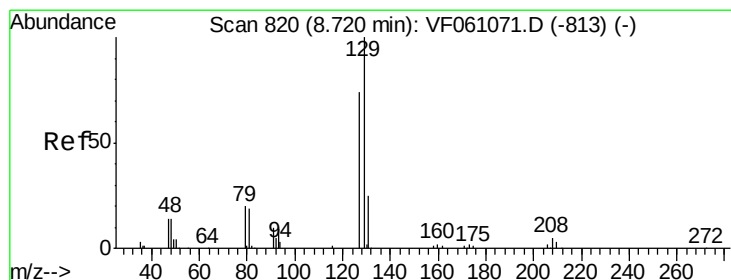
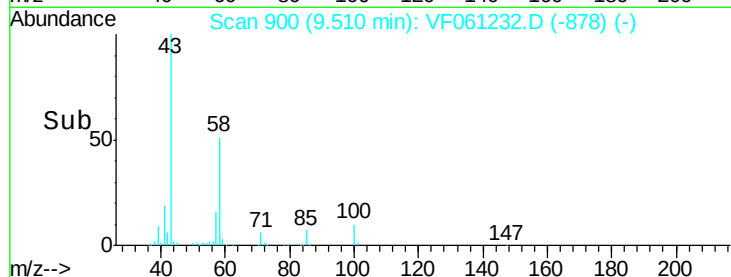
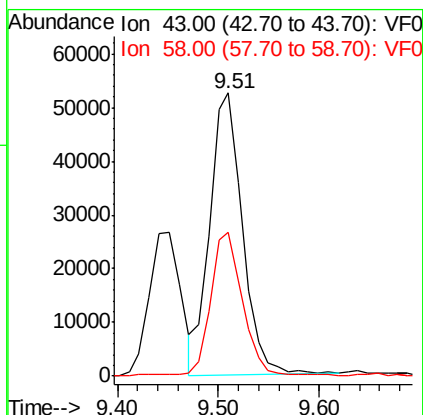
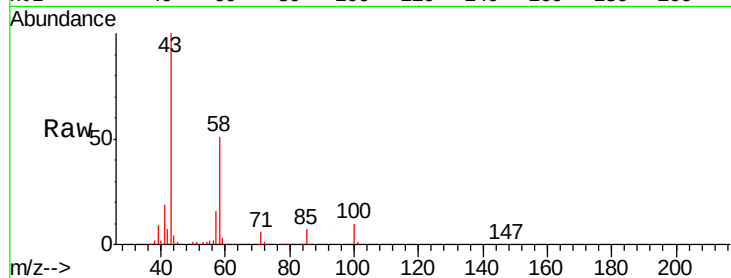




#59
2-Hexanone
Concen: 114.145 ug/l
RT: 9.51 min Scan# 900
Delta R.T. 0.02 min
Lab File: VF061232.D
Acq: 28 Dec 2018 13:25

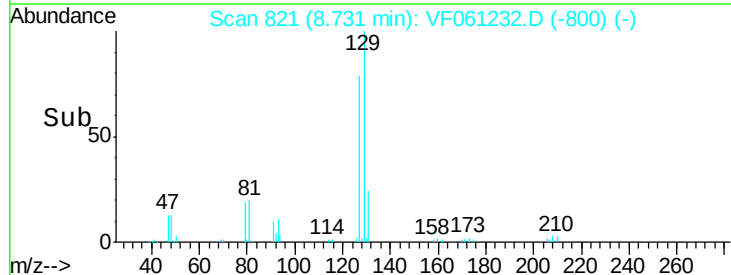
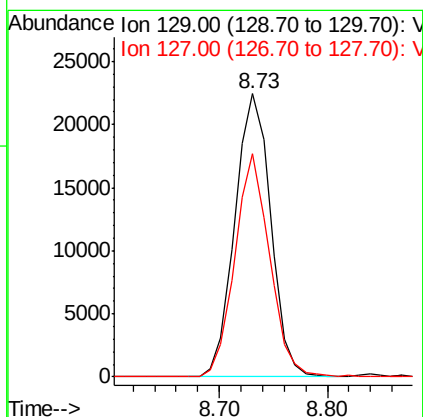
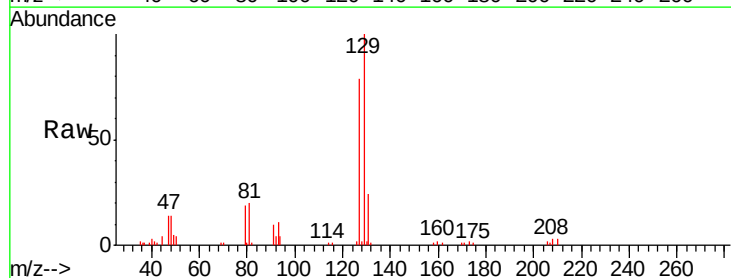
Instrument :
MSVOA_F
ClientSampleId :
VF1228SBS02

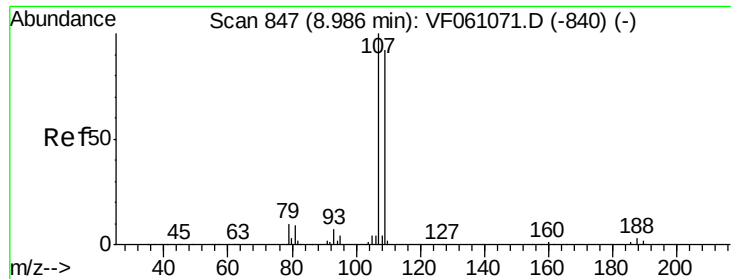
Tgt Ion: 43 Resp: 117943
Ion Ratio Lower Upper
43 100
58 50.9 25.1 75.2



#60
Dibromochloromethane
Concen: 19.624 ug/l
RT: 8.73 min Scan# 821
Delta R.T. 0.01 min
Lab File: VF061232.D
Acq: 28 Dec 2018 13:25

Tgt Ion: 129 Resp: 51797
Ion Ratio Lower Upper
129 100
127 78.9 36.8 110.3





#61

1,2-Dibromoethane

Concen: 20.998 ug/l

RT: 9.00 min Scan# 848

Delta R.T. 0.01 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

Instrument :

MSVOA_F

ClientSampleId :

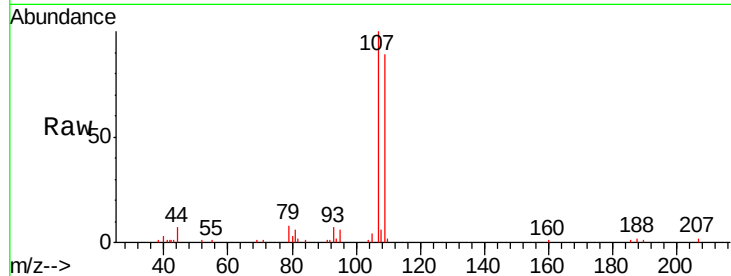
VF1228SBS02

Tgt Ion: 107 Resp: 41291

Ion Ratio Lower Upper

107 100

109 88.9 73.7 110.5



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

20000

15000

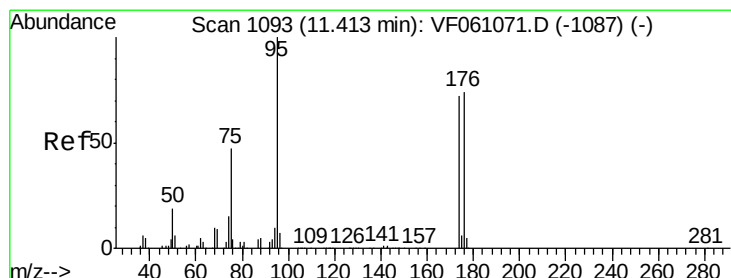
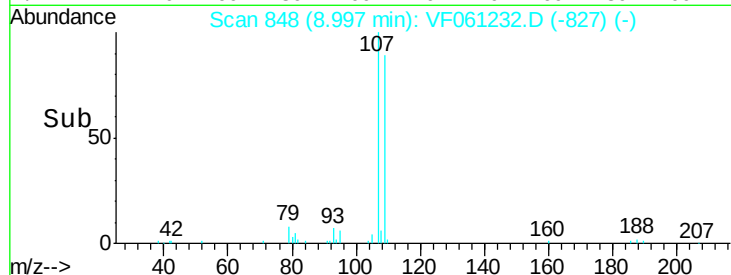
10000

5000

0

8.90 9.00 9.10

Time-->



#62

4-Bromofluorobenzene

Concen: 46.091 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.01 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

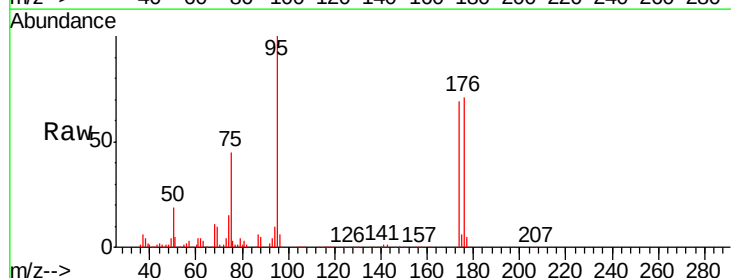
Tgt Ion: 95 Resp: 172419

Ion Ratio Lower Upper

95 100

174 69.4 0.0 143.8

176 70.9 0.0 147.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

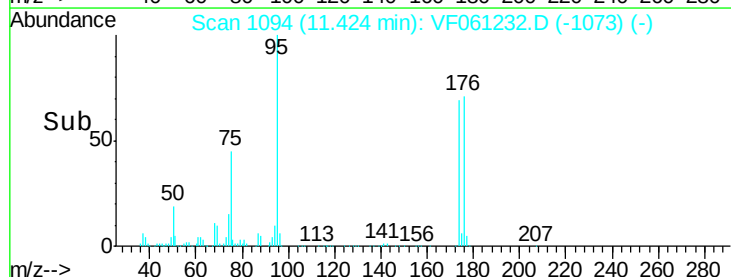
100000

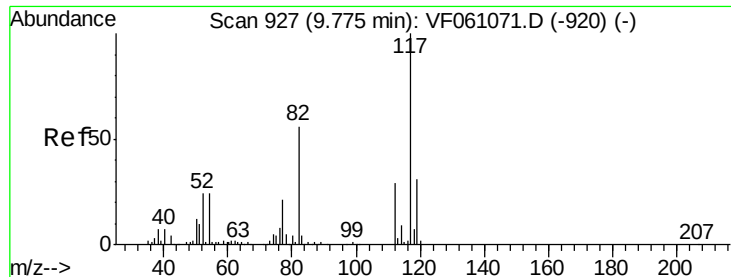
50000

0

11.40 11.60

Time-->

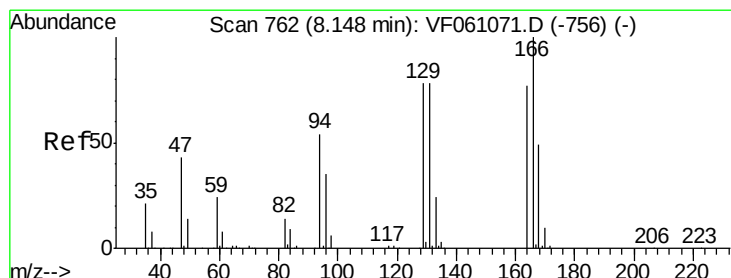
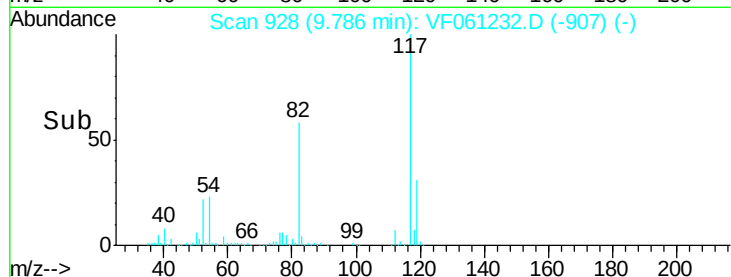
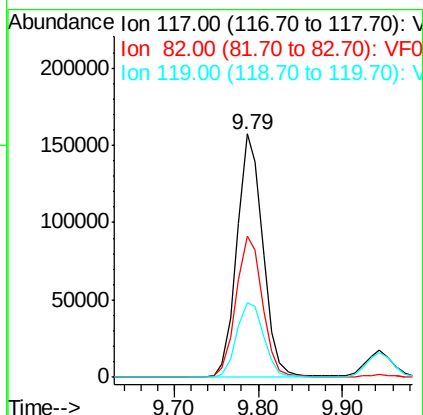
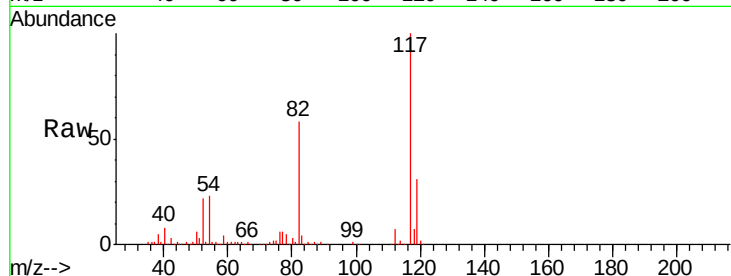




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 928
Delta R.T. 0.01 min
Lab File: VF061232.D
Acq: 28 Dec 2018 13:25

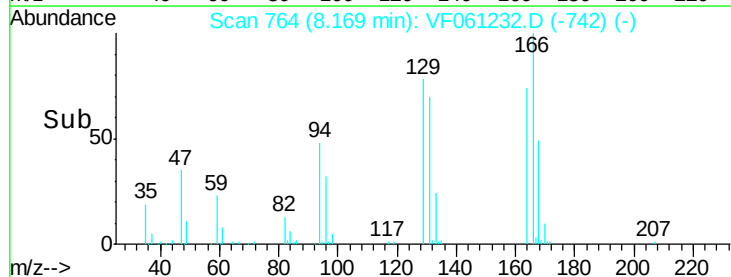
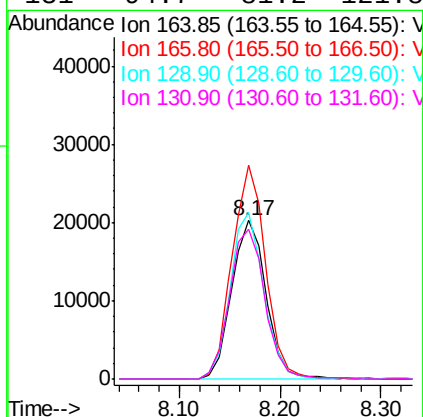
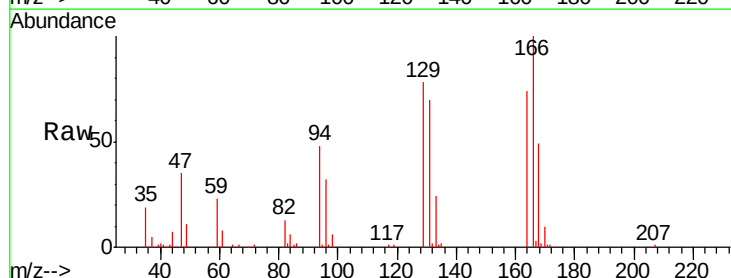
Instrument :
MSVOA_F
ClientSampleId :
VF1228SBS02

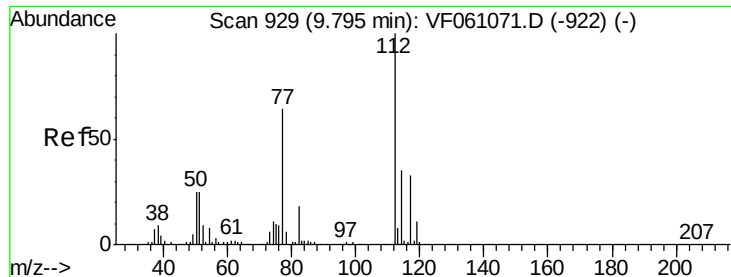
Tgt Ion:117 Resp: 338602
Ion Ratio Lower Upper
117 100
82 58.0 45.0 67.4
119 30.6 24.8 37.2



#64
Tetrachloroethene
Concen: 18.367 ug/l
RT: 8.17 min Scan# 764
Delta R.T. 0.02 min
Lab File: VF061232.D
Acq: 28 Dec 2018 13:25

Tgt Ion:164 Resp: 47841
Ion Ratio Lower Upper
164 100
166 135.1 104.0 156.0
129 104.9 81.1 121.7
131 94.7 81.2 121.8

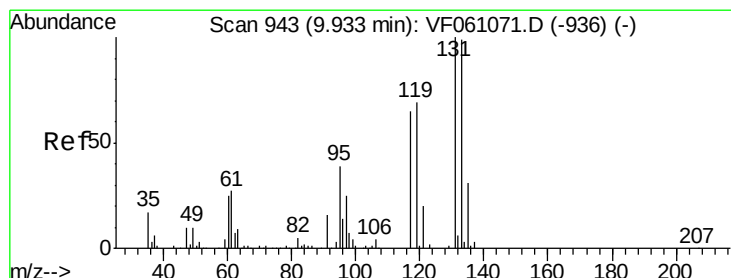
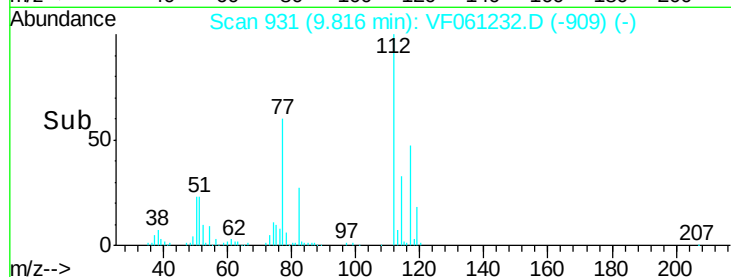
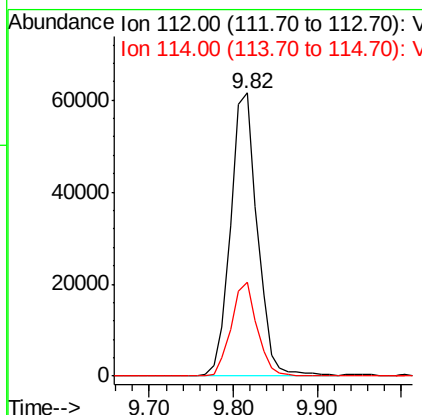
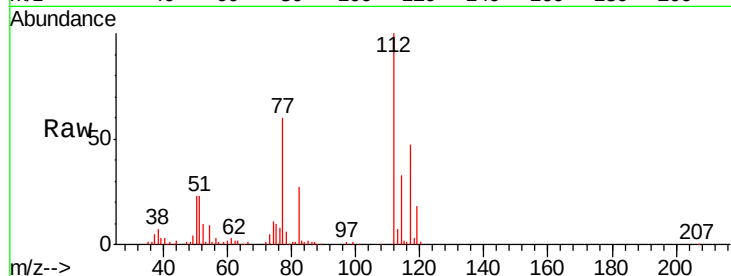




#65
Chlorobenzene
Concen: 19.566 ug/l
RT: 9.82 min Scan# 931
Delta R.T. 0.02 min
Lab File: VF061232.D
Acq: 28 Dec 2018 13:25

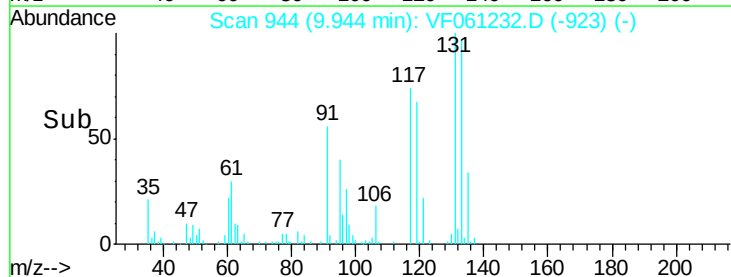
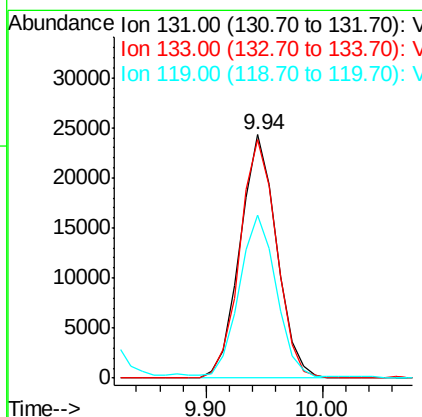
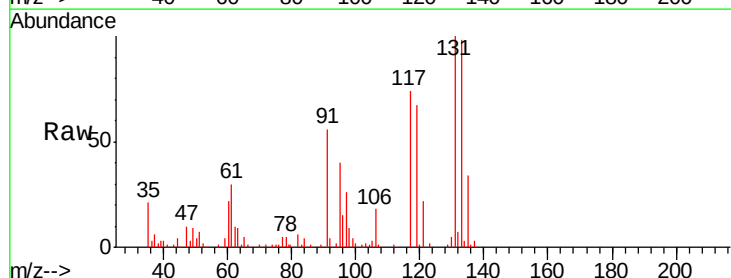
Instrument :
MSVOA_F
ClientSampleId :
VF1228SBS02

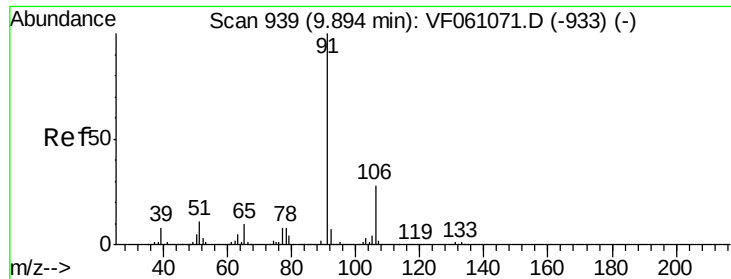
Tgt Ion:112 Resp: 136867
Ion Ratio Lower Upper
112 100
114 33.3 27.8 41.6



#66
1,1,1,2-Tetrachloroethane
Concen: 18.561 ug/l
RT: 9.94 min Scan# 944
Delta R.T. 0.01 min
Lab File: VF061232.D
Acq: 28 Dec 2018 13:25

Tgt Ion:131 Resp: 53058
Ion Ratio Lower Upper
131 100
133 98.0 49.5 148.7
119 67.2 34.5 103.5

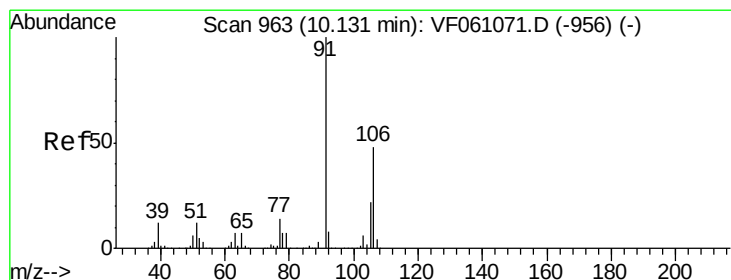
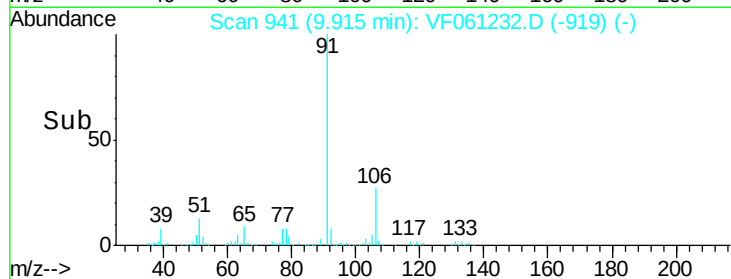
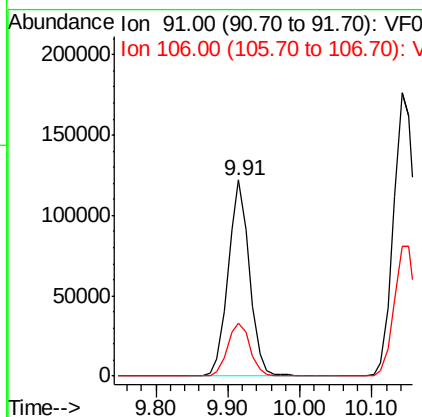
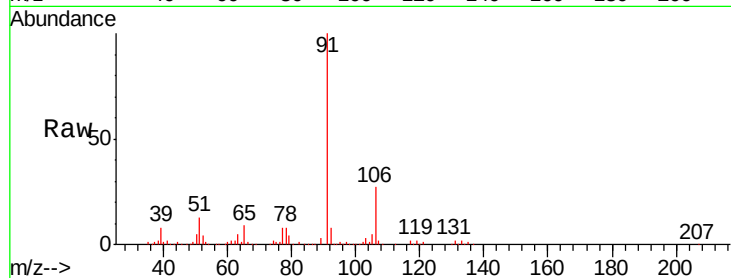




#67
Ethyl Benzene
Concen: 19.624 ug/l
RT: 9.91 min Scan# 941
Delta R.T. 0.02 min
Lab File: VF061232.D
Acq: 28 Dec 2018 13:25

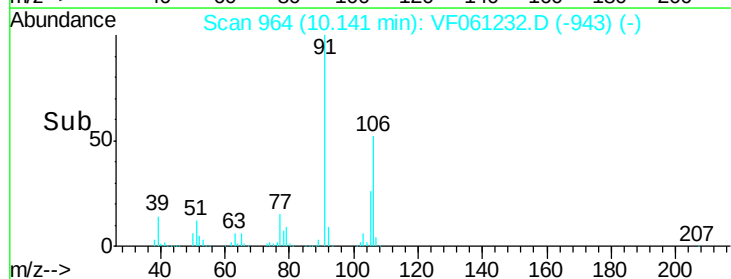
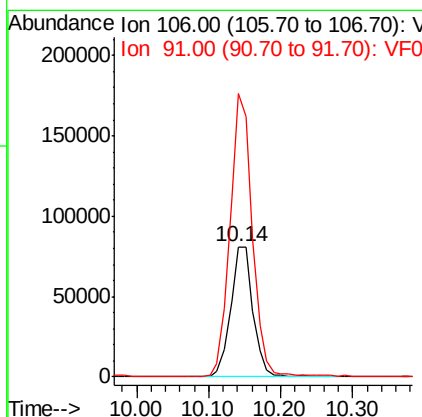
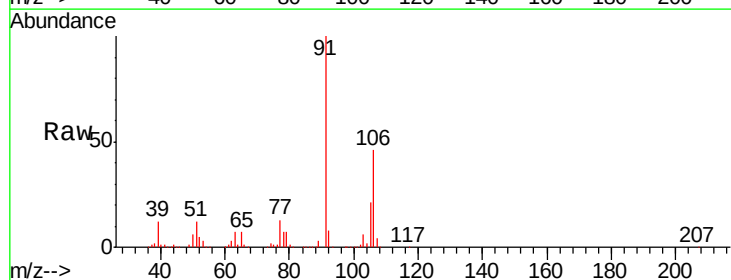
Instrument :
MSVOA_F
ClientSampleId :
VF1228SBS02

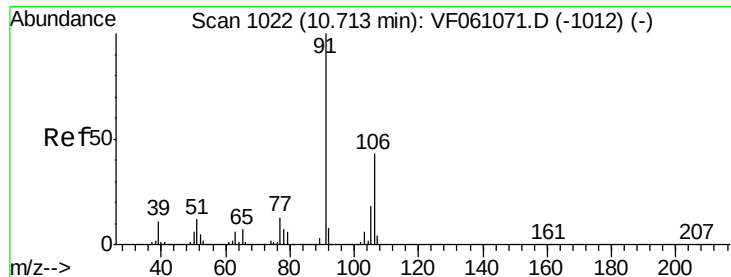
Tgt Ion: 91 Resp: 250078
Ion Ratio Lower Upper
91 100
106 27.3 22.5 33.7



#68
m/p-Xylenes
Concen: 39.245 ug/l
RT: 10.14 min Scan# 964
Delta R.T. 0.01 min
Lab File: VF061232.D
Acq: 28 Dec 2018 13:25

Tgt Ion: 106 Resp: 176006
Ion Ratio Lower Upper
106 100
91 217.3 168.2 252.2

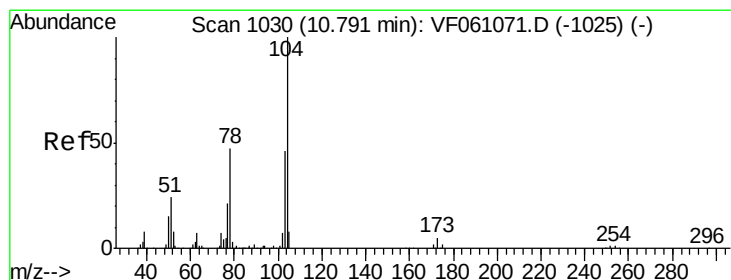
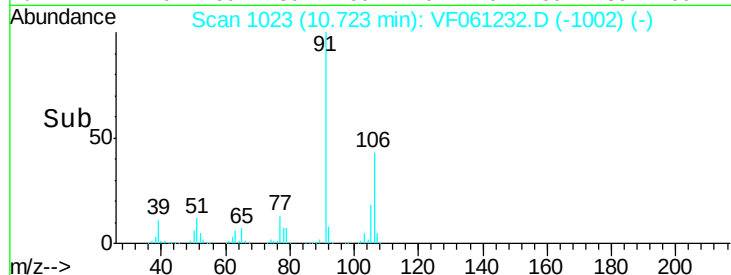
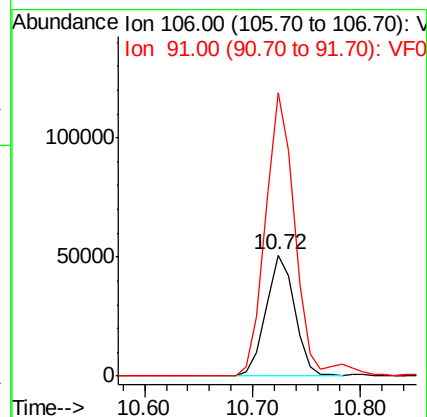
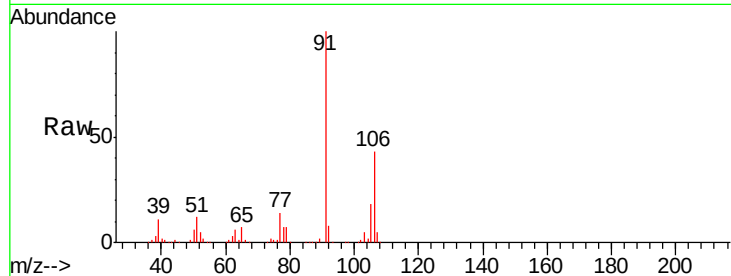




#69
o-Xylene
Concen: 18.996 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. 0.01 min
Lab File: VF061232.D
Acq: 28 Dec 2018 13:25

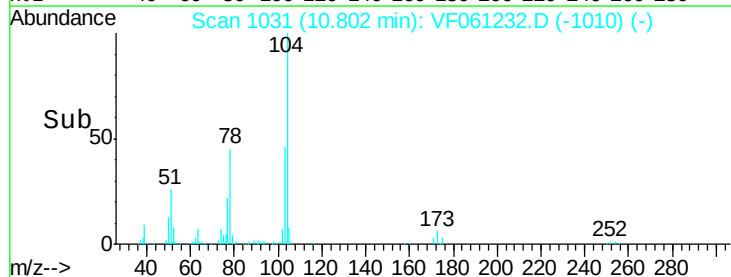
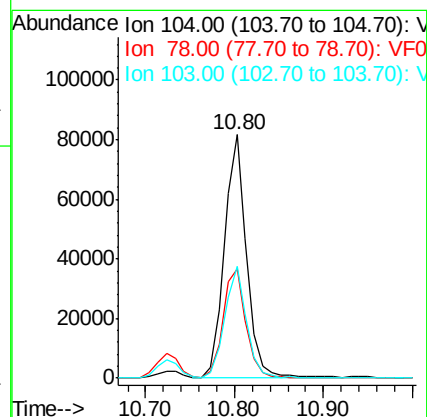
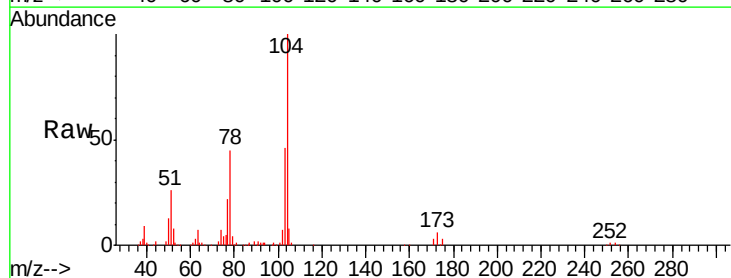
Instrument :
MSVOA_F
ClientSampleId :
VF1228SBS02

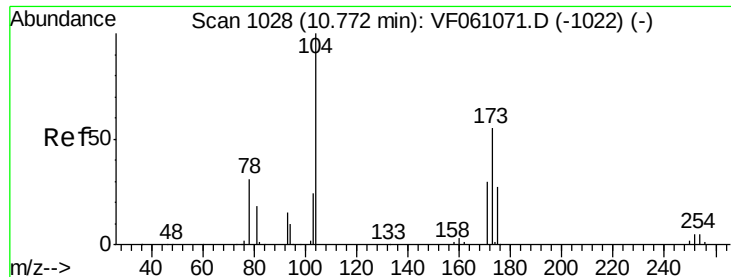
Tgt Ion:106 Resp: 94484
Ion Ratio Lower Upper
106 100
91 233.7 115.9 347.7



#70
Styrene
Concen: 20.617 ug/l
RT: 10.80 min Scan# 1031
Delta R.T. 0.01 min
Lab File: VF061232.D
Acq: 28 Dec 2018 13:25

Tgt Ion:104 Resp: 142351
Ion Ratio Lower Upper
104 100
78 45.0 38.4 57.6
103 46.2 37.0 55.6





#71

Bromoform

Concen: 20.217 ug/l

RT: 10.78 min Scan# 1029

Delta R.T. 0.01 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

Instrument :

MSVOA_F

ClientSampleId :

VF1228SBS02

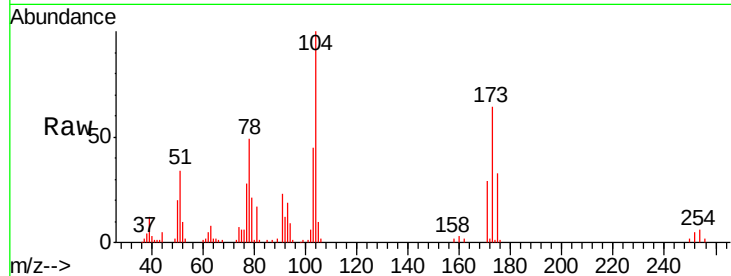
Tgt Ion:173 Resp: 26737

Ion Ratio Lower Upper

173 100

175 53.0 24.8 74.4

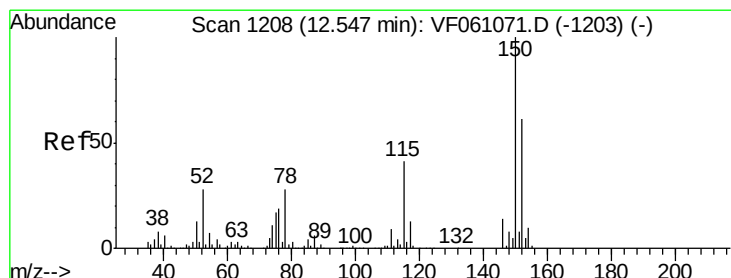
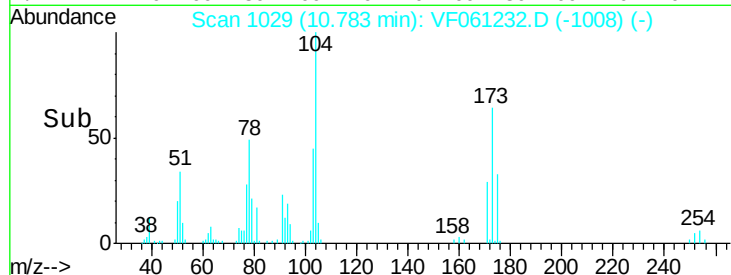
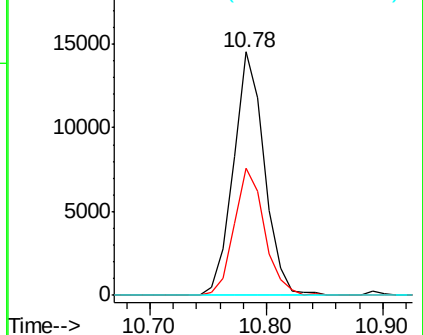
254 0.0 0.0 0.0



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1209

Delta R.T. 0.01 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

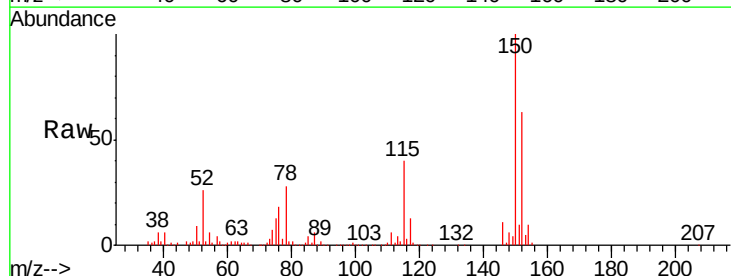
Tgt Ion:152 Resp: 171798

Ion Ratio Lower Upper

152 100

115 63.5 33.3 99.9

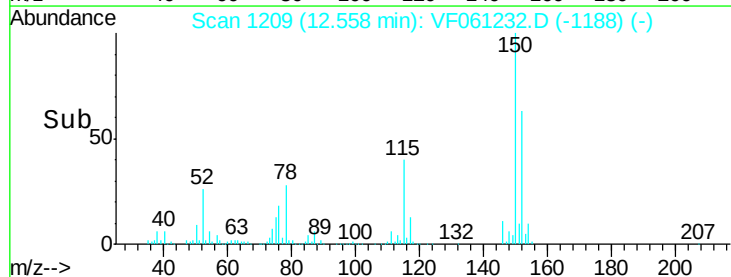
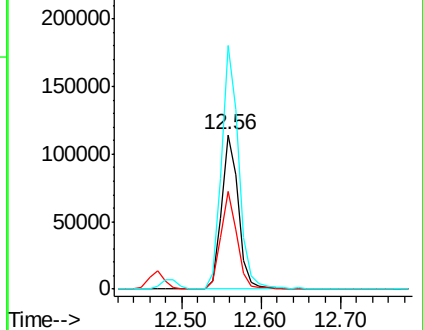
150 158.0 0.0 328.2

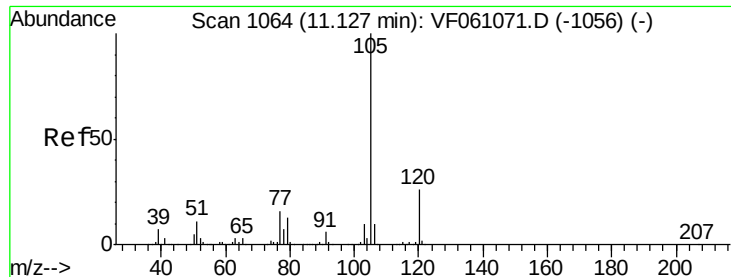


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 19.225 ug/l

RT: 11.14 min Scan# 1065

Delta R.T. 0.01 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

Instrument :

MSVOA_F

ClientSampleId :

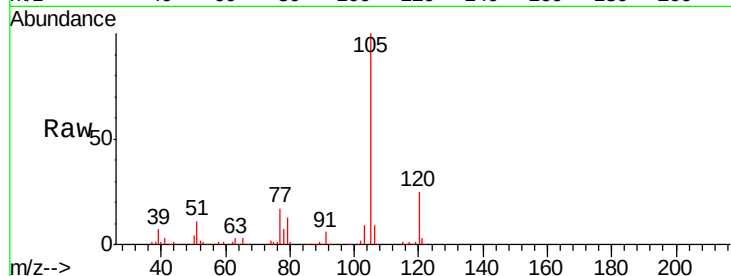
VF1228SBS02

Tgt Ion:105 Resp: 284625

Ion Ratio Lower Upper

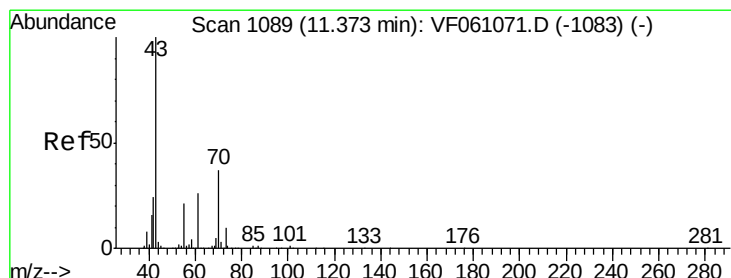
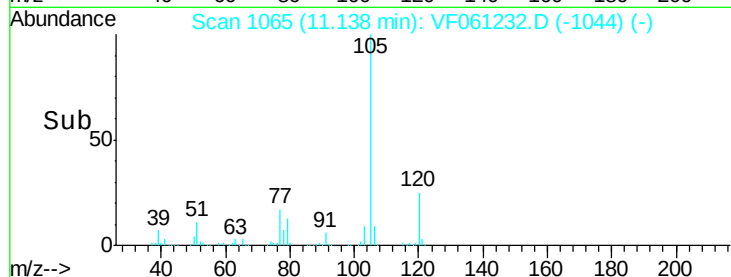
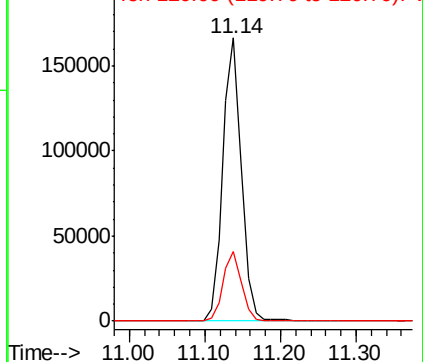
105 100

120 24.7 13.0 39.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 21.505 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. 0.01 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

Tgt Ion: 43 Resp: 70684

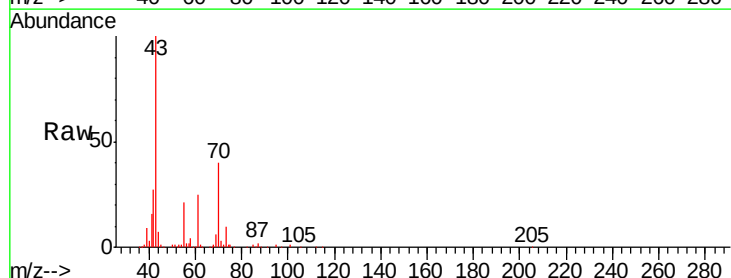
Ion Ratio Lower Upper

43 100

70 39.8 29.2 43.8

55 20.9 16.5 24.7

61 25.3 20.7 31.1

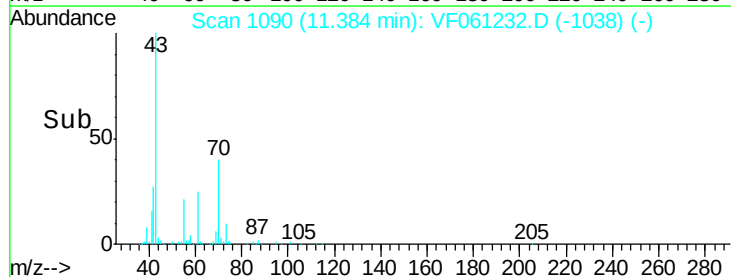
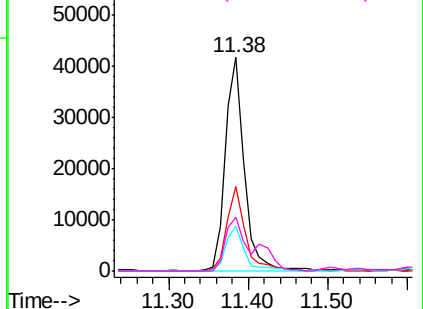


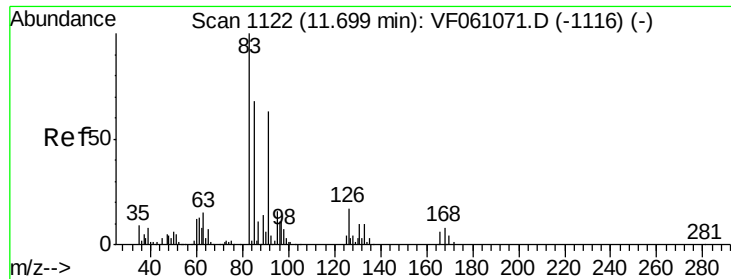
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 21.707 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. 0.01 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

Instrument :

MSVOA_F

ClientSampleId :

VF1228SBS02

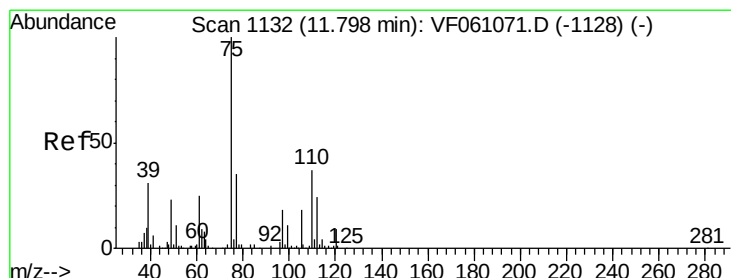
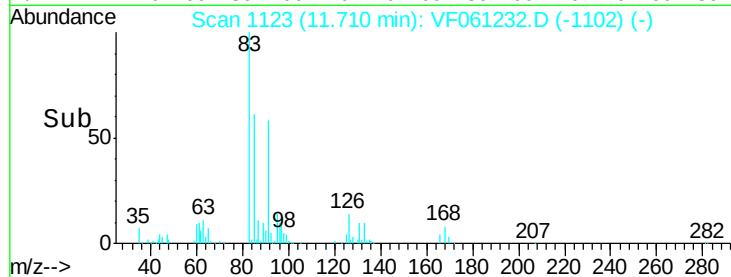
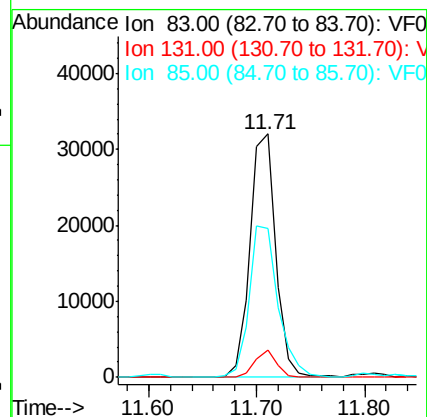
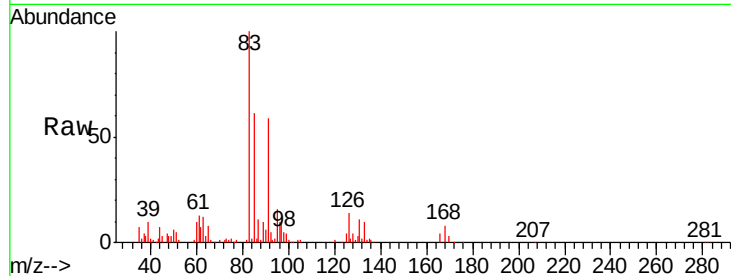
Tgt Ion: 83 Resp: 53336

Ion Ratio Lower Upper

83 100

131 11.2 4.8 14.3

85 61.3 33.9 101.6



#76

1,2,3-Trichloropropane

Concen: 20.179 ug/l

RT: 11.80 min Scan# 1132

Delta R.T. 0.00 min

Lab File: VF061232.D

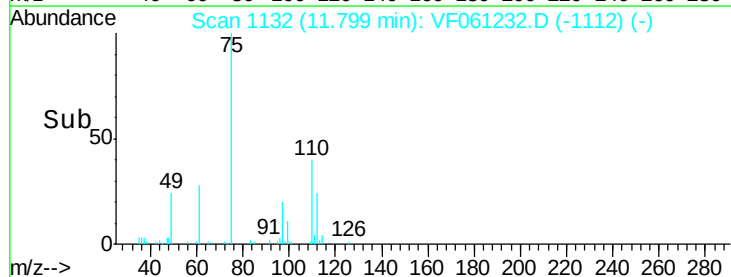
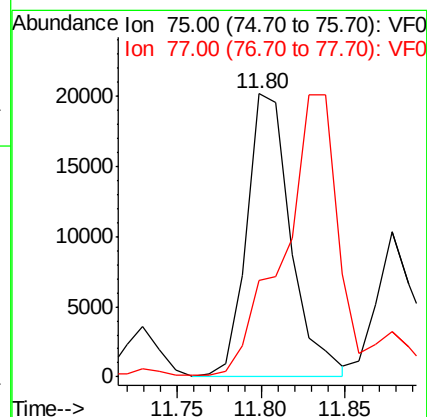
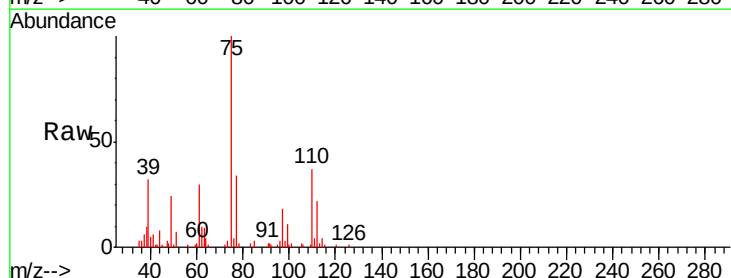
Acq: 28 Dec 2018 13:25

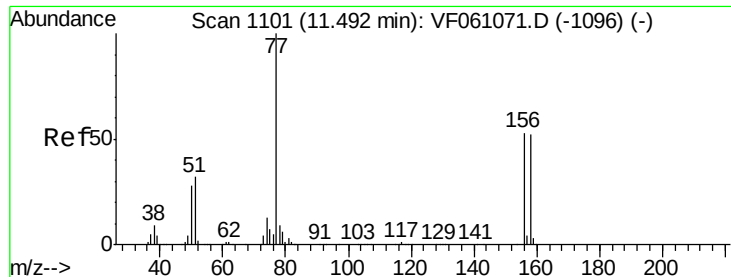
Tgt Ion: 75 Resp: 36898

Ion Ratio Lower Upper

75 100

77 34.1 17.6 52.9





#77

Bromobenzene

Concen: 18.761 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. 0.01 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

Instrument :

MSVOA_F

ClientSampleId :

VF1228SBS02

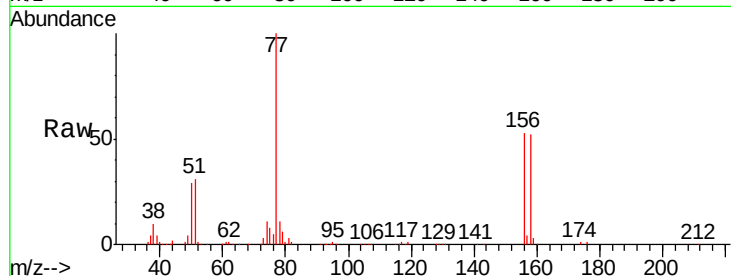
Tgt Ion:156 Resp: 59791

Ion Ratio Lower Upper

156 100

77 189.4 93.8 281.4

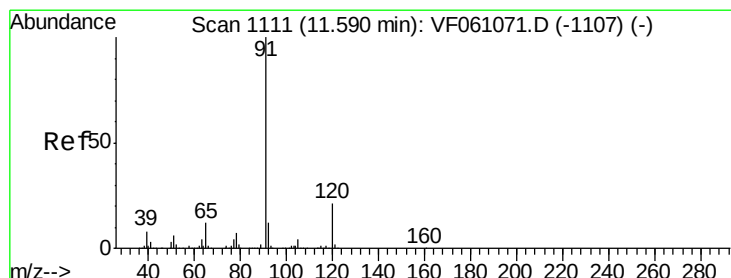
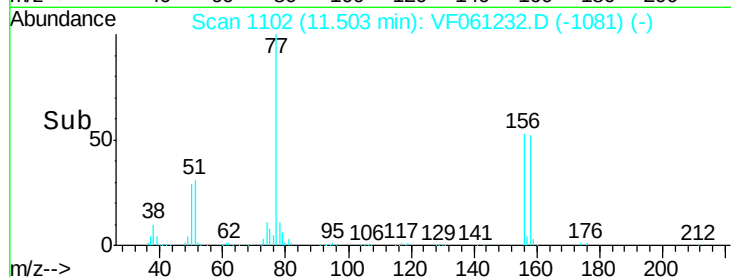
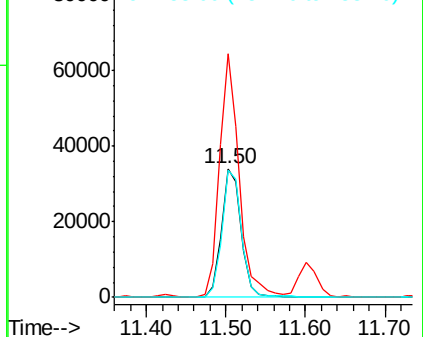
158 98.8 48.9 146.8



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 17.346 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VF061232.D

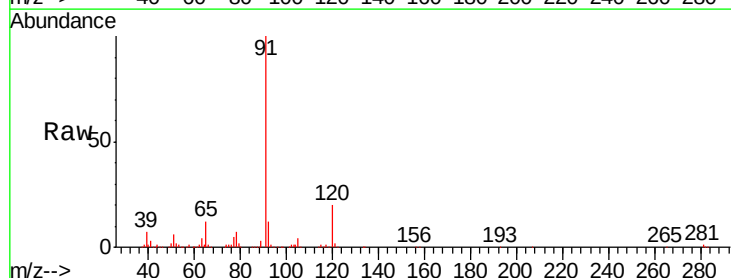
Acq: 28 Dec 2018 13:25

Tgt Ion: 91 Resp: 337078

Ion Ratio Lower Upper

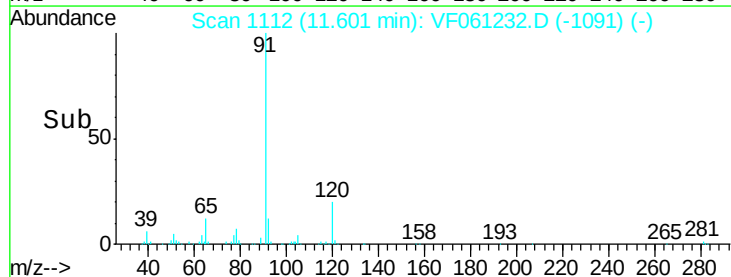
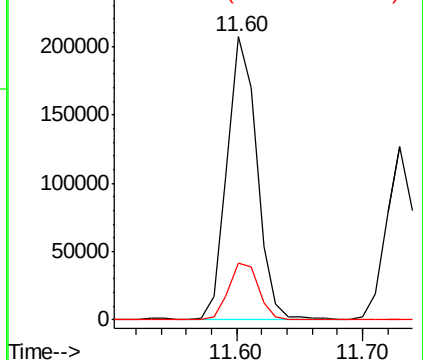
91 100

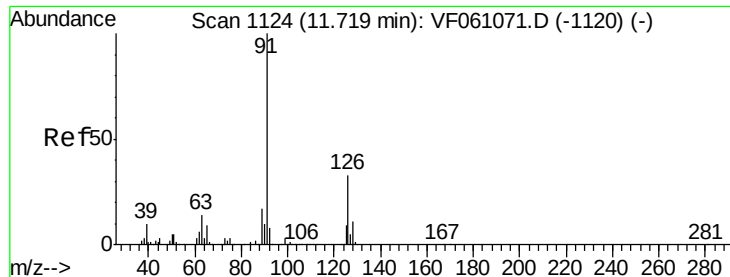
120 20.2 10.4 31.2



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 19.096 ug/l

RT: 11.73 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

Instrument :

MSVOA_F

ClientSampleId :

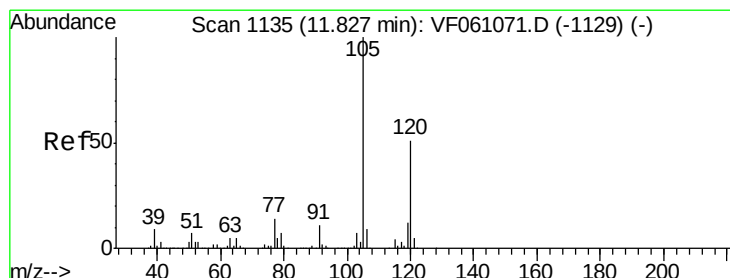
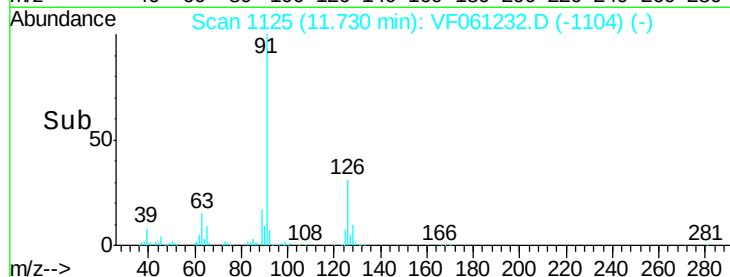
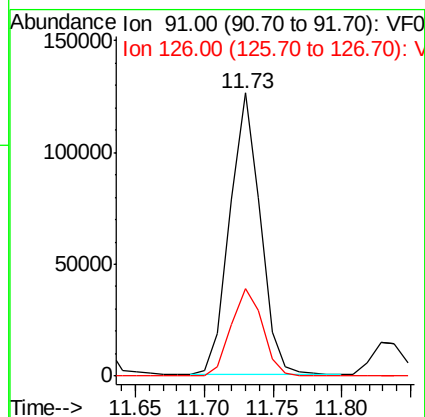
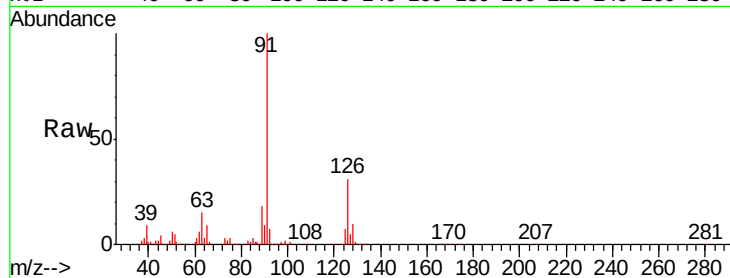
VF1228SBS02

Tgt Ion: 91 Resp: 193939

Ion Ratio Lower Upper

91 100

126 31.1 16.4 49.1



#80

1,3,5-Trimethylbenzene

Concen: 19.143 ug/l

RT: 11.84 min Scan# 1136

Delta R.T. 0.01 min

Lab File: VF061232.D

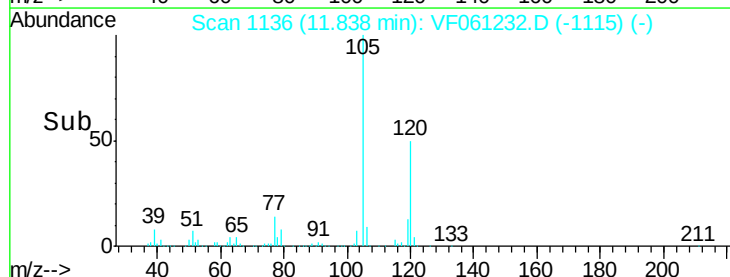
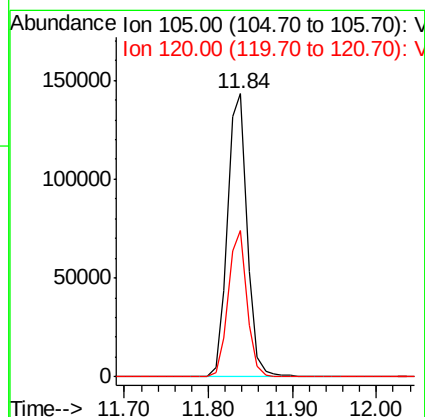
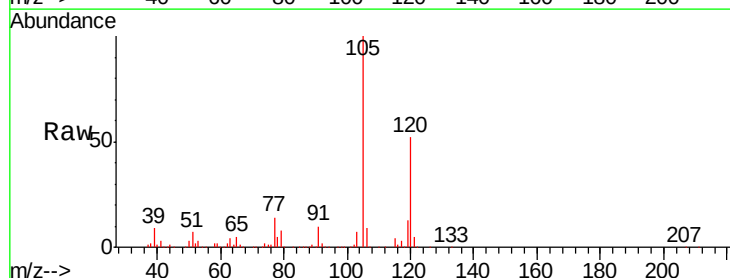
Acq: 28 Dec 2018 13:25

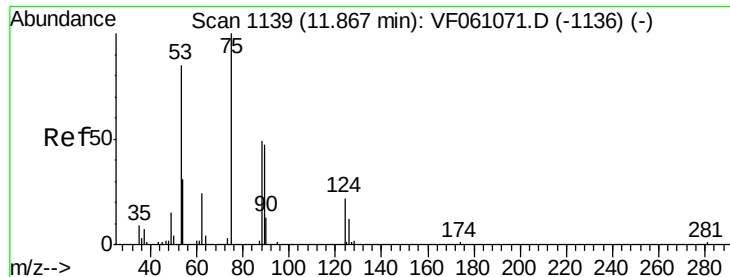
Tgt Ion: 105 Resp: 233359

Ion Ratio Lower Upper

105 100

120 51.8 25.4 76.4





#81

trans-1,4-Dichloro-2-butene

Concen: 26.954 ug/l

RT: 11.88 min Scan# 1140

Delta R.T. 0.01 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

Instrument :

MSVOA_F

ClientSampleId :

VF1228SBS02

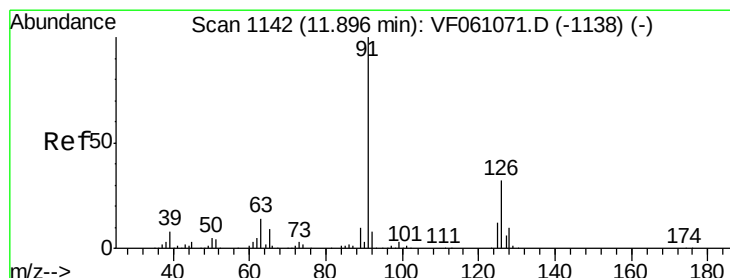
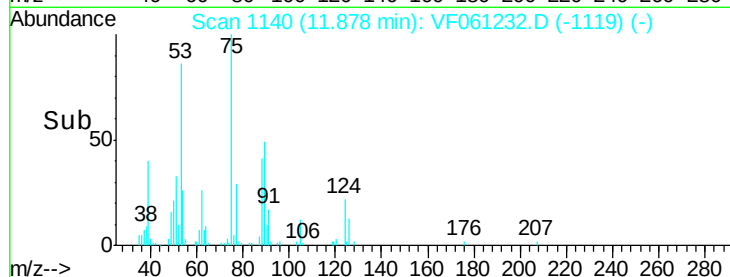
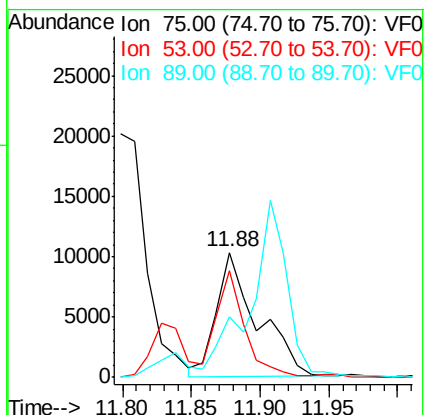
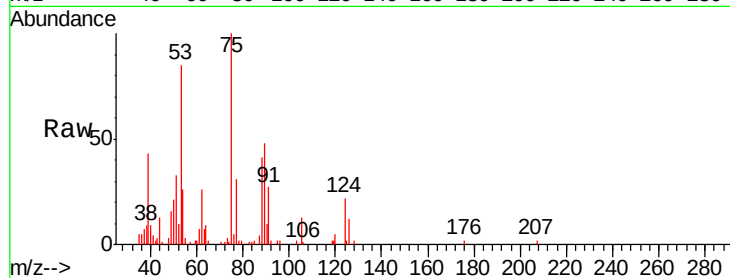
Tgt Ion: 75 Resp: 21179

Ion Ratio Lower Upper

75 100

53 84.9 74.1 111.1

89 47.9 42.6 64.0



#82

4-Chlorotoluene

Concen: 19.012 ug/l

RT: 11.91 min Scan# 1143

Delta R.T. 0.01 min

Lab File: VF061232.D

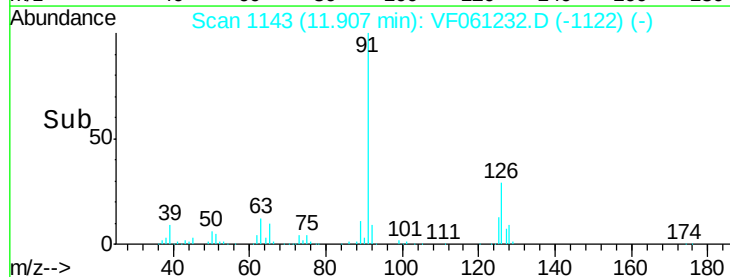
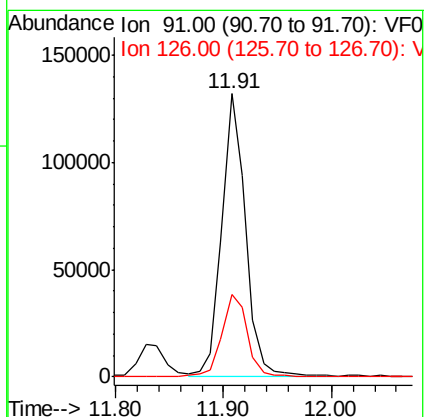
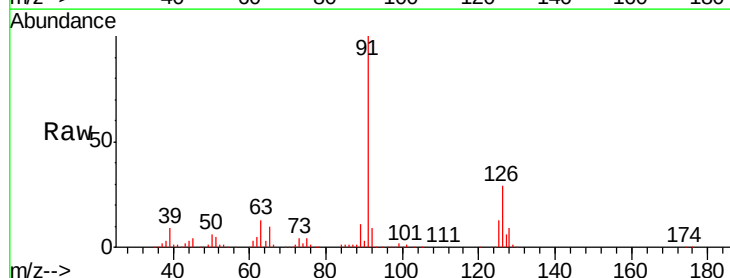
Acq: 28 Dec 2018 13:25

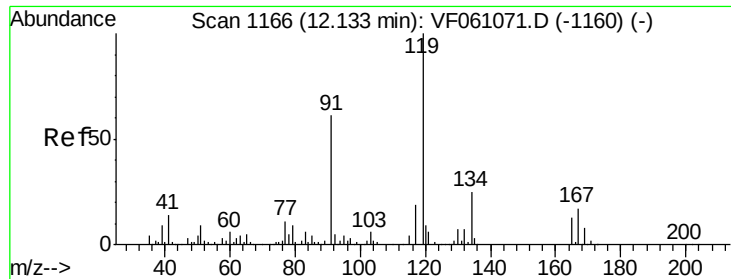
Tgt Ion: 91 Resp: 199742

Ion Ratio Lower Upper

91 100

126 29.1 16.0 47.9

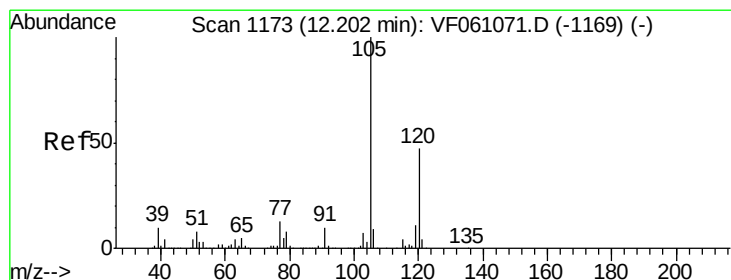
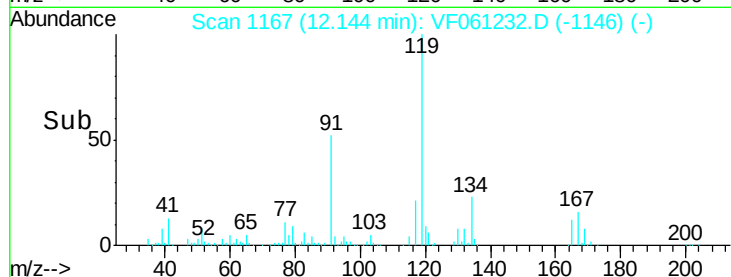
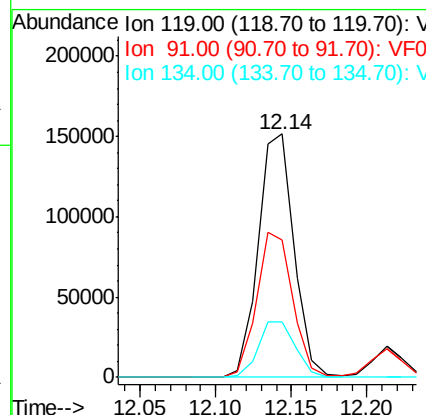
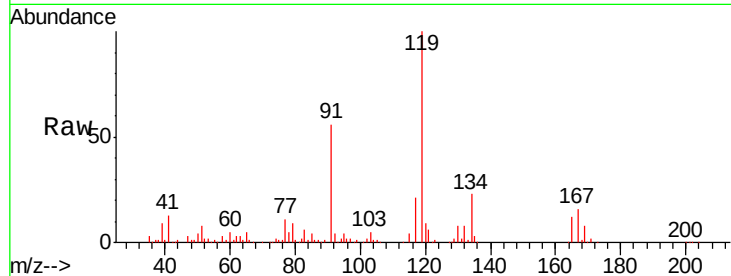




#83
 tert-Butylbenzene
 Concen: 20.002 ug/l
 RT: 12.14 min Scan# 1167
 Delta R.T. 0.01 min
 Lab File: VF061232.D
 Acq: 28 Dec 2018 13:25

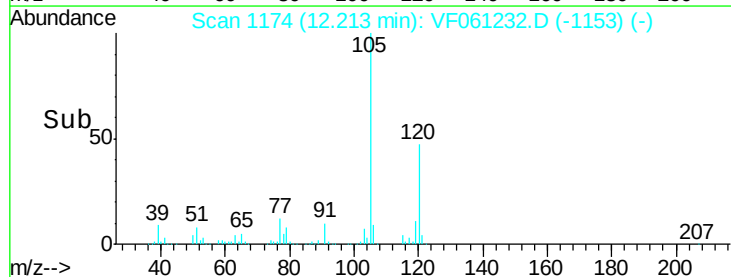
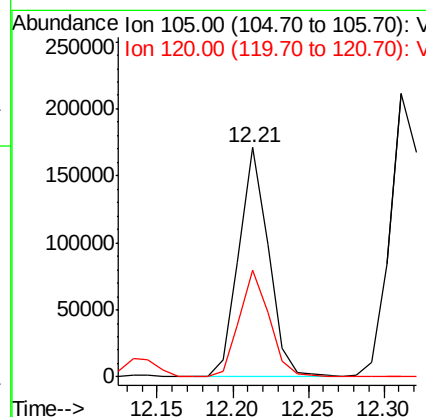
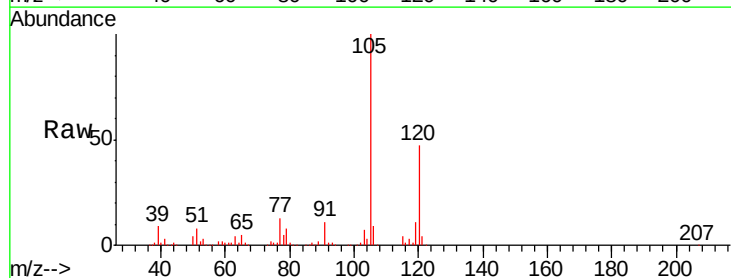
Instrument :
 MSVOA_F
 ClientSampleId :
 VF1228SBS02

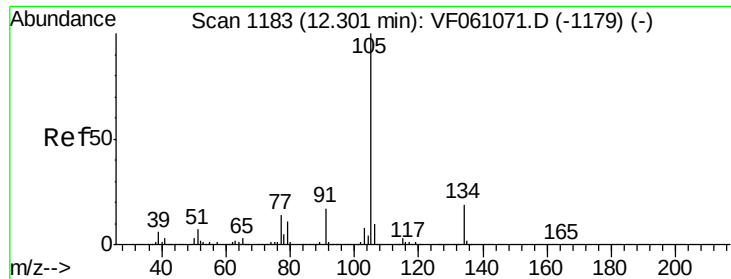
Tgt Ion	Ratio	Lower	Upper
119	100		
91	56.5	30.5	91.5
134	22.6	12.4	37.4



#84
 1,2,4-Trimethylbenzene
 Concen: 19.272 ug/l
 RT: 12.21 min Scan# 1174
 Delta R.T. 0.01 min
 Lab File: VF061232.D
 Acq: 28 Dec 2018 13:25

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.5	23.6	71.0





#85

sec-Butylbenzene

Concen: 19.495 ug/l

RT: 12.31 min Scan# 1184

Delta R.T. 0.01 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

Instrument :

MSVOA_F

ClientSampleId :

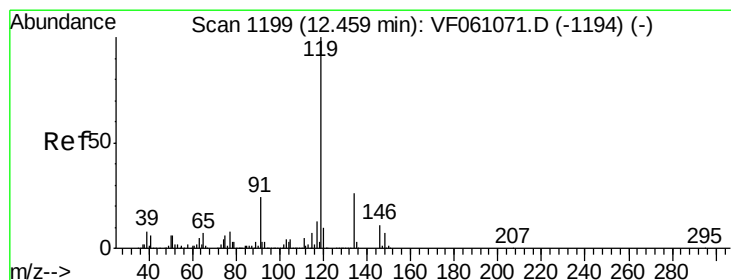
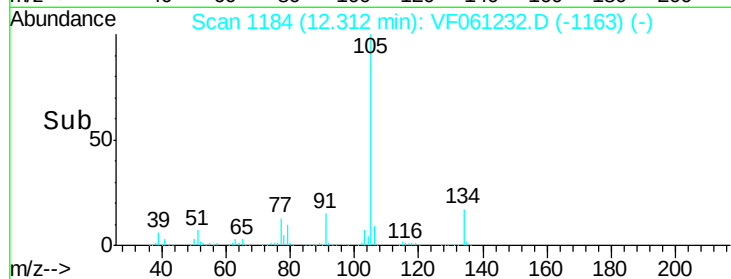
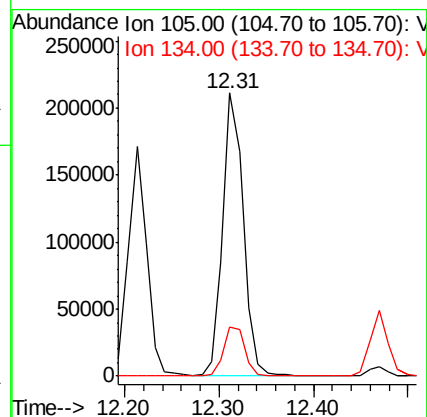
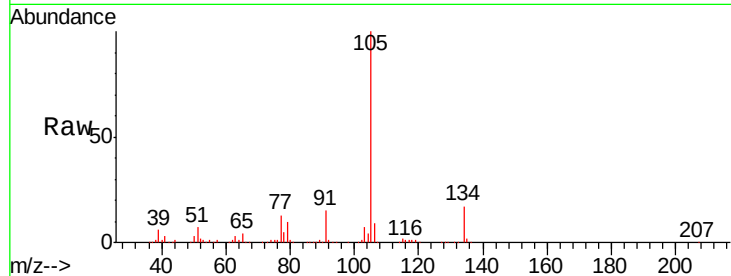
VF1228SBS02

Tgt Ion:105 Resp: 319136

Ion Ratio Lower Upper

105 100

134 17.2 9.4 28.2



#86

p-Isopropyltoluene

Concen: 20.041 ug/l

RT: 12.47 min Scan# 1200

Delta R.T. 0.01 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

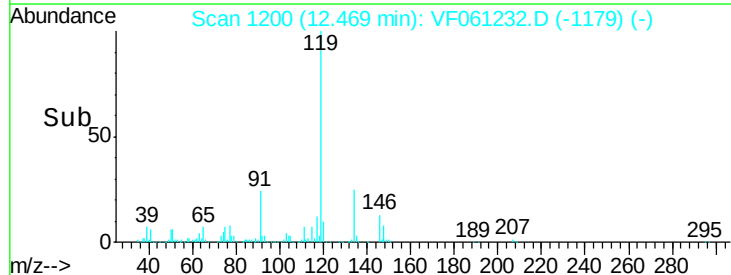
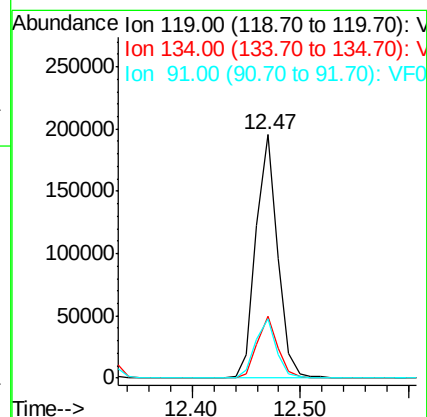
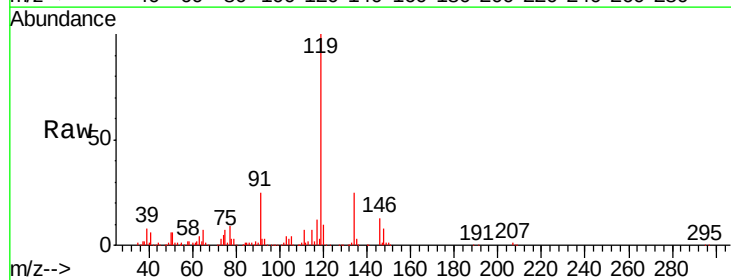
Tgt Ion:119 Resp: 272321

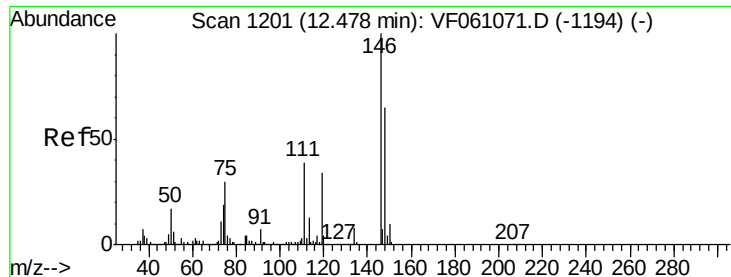
Ion Ratio Lower Upper

119 100

134 25.2 12.8 38.4

91 24.6 12.2 36.6

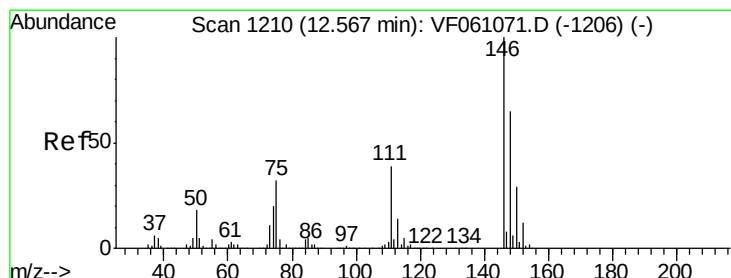
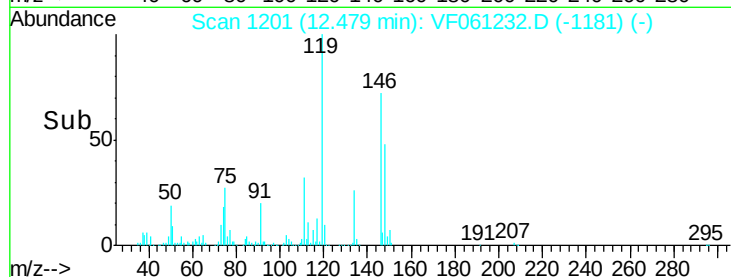
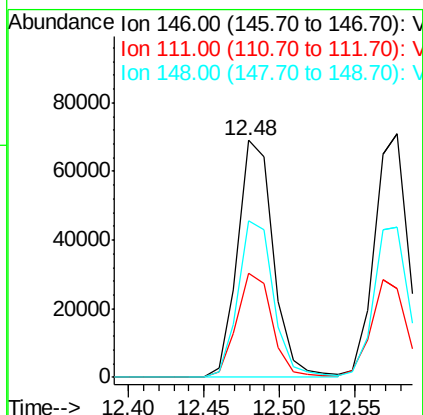
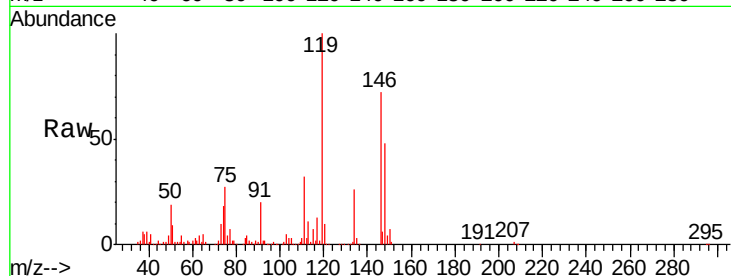




#87
 1,3-Dichlorobenzene
 Concen: 18.472 ug/l
 RT: 12.48 min Scan# 1201
 Delta R.T. 0.00 min
 Lab File: VF061232.D
 Acq: 28 Dec 2018 13:25

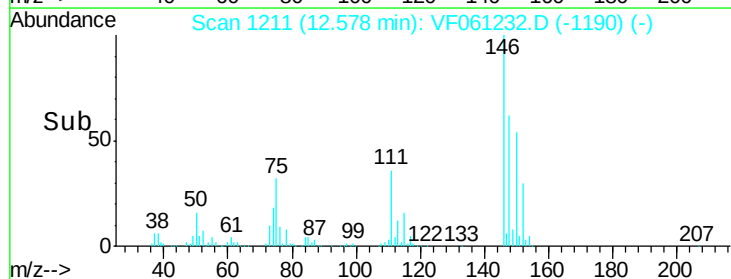
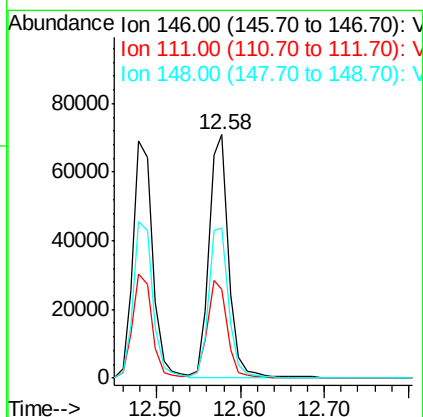
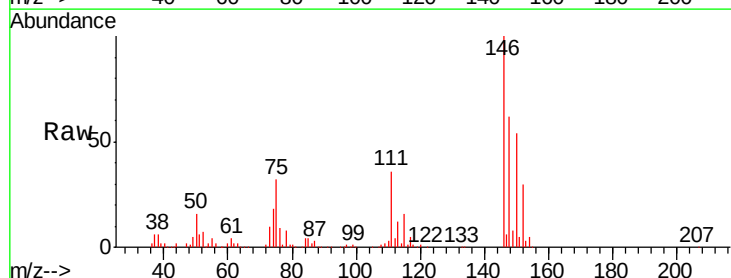
Instrument :
 MSVOA_F
 ClientSampleId :
 VF1228SBS02

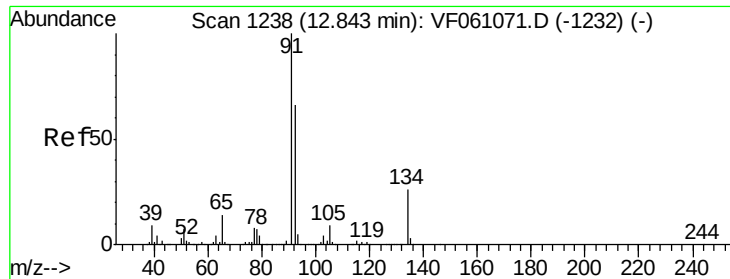
Tgt Ion:146 Resp: 113712
 Ion Ratio Lower Upper
 146 100
 111 44.2 19.3 57.9
 148 66.1 32.4 97.2



#88
 1,4-Dichlorobenzene
 Concen: 19.608 ug/l
 RT: 12.58 min Scan# 1211
 Delta R.T. 0.01 min
 Lab File: VF061232.D
 Acq: 28 Dec 2018 13:25

Tgt Ion:146 Resp: 114746
 Ion Ratio Lower Upper
 146 100
 111 36.4 19.4 58.4
 148 61.9 32.4 97.0

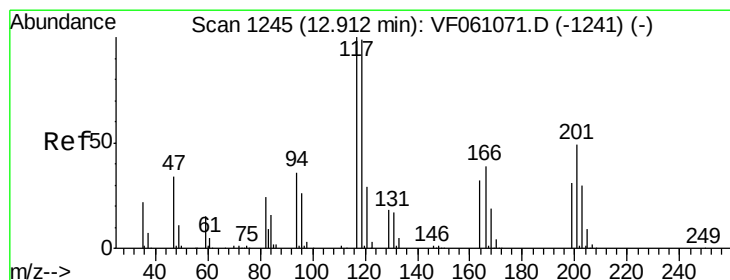
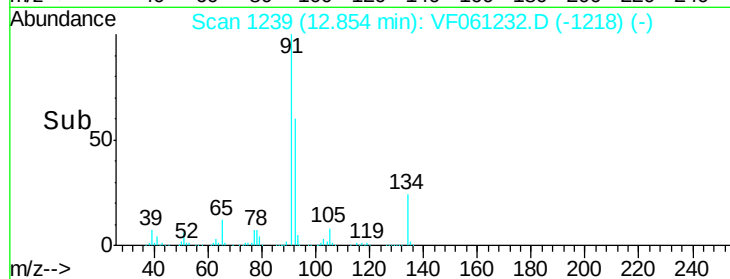
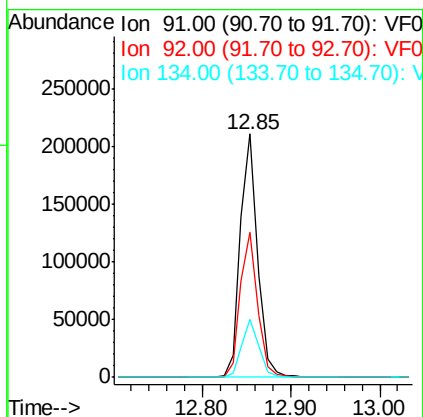
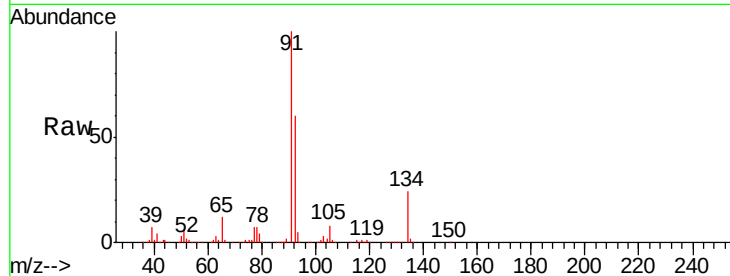




#89
n-Butylbenzene
Concen: 18.281 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. 0.01 min
Lab File: VF061232.D
Acq: 28 Dec 2018 13:25

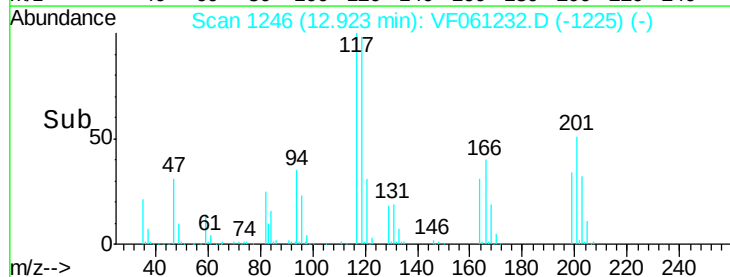
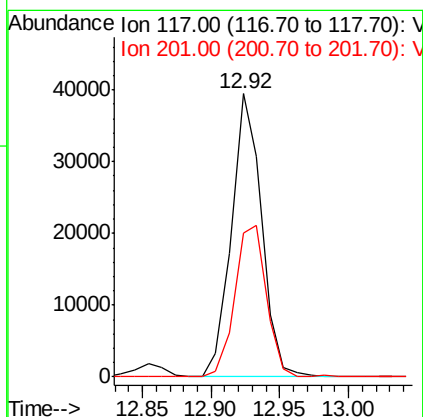
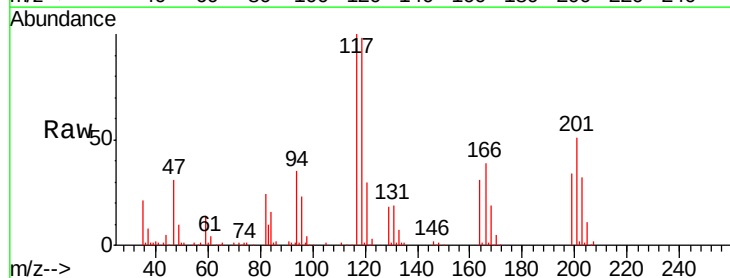
Instrument :
MSVOA_F
ClientSampleId :
VF1228SBS02

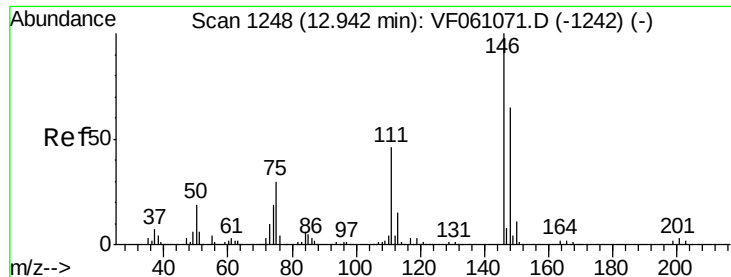
Tgt Ion: 91 Resp: 286334
Ion Ratio Lower Upper
91 100
92 59.6 32.8 98.4
134 24.0 13.2 39.5



#90
Hexachloroethane
Concen: 17.897 ug/l
RT: 12.92 min Scan# 1246
Delta R.T. 0.01 min
Lab File: VF061232.D
Acq: 28 Dec 2018 13:25

Tgt Ion: 117 Resp: 60083
Ion Ratio Lower Upper
117 100
201 50.7 24.9 74.8





#91

1,2-Dichlorobenzene

Concen: 19.388 ug/l

RT: 12.95 min Scan# 1249

Delta R.T. 0.01 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

Instrument :

MSVOA_F

ClientSampleId :

VF1228SBS02

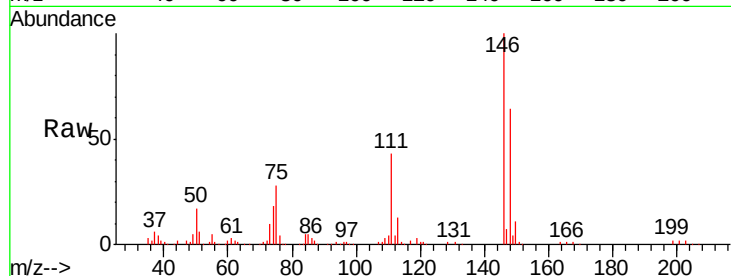
Tgt Ion:146 Resp: 110463

Ion Ratio Lower Upper

146 100

111 43.1 23.2 69.5

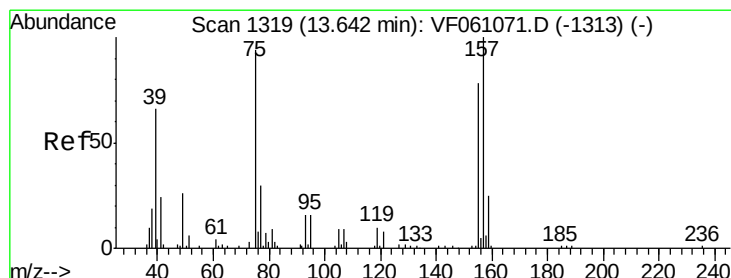
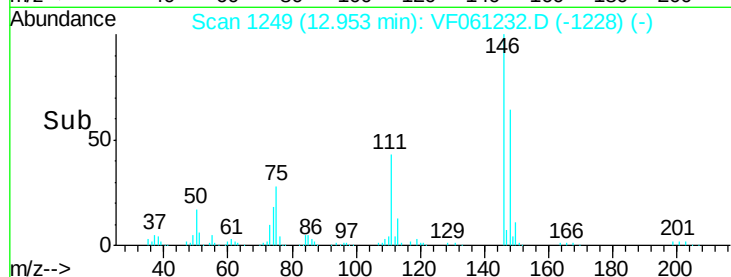
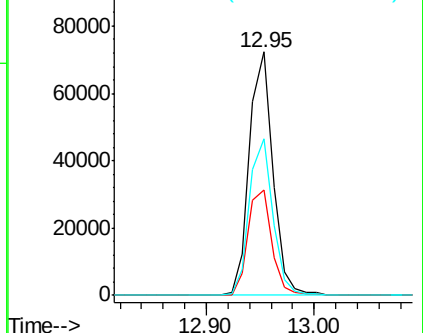
148 64.4 32.4 97.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 20.568 ug/l

RT: 13.65 min Scan# 1320

Delta R.T. 0.01 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

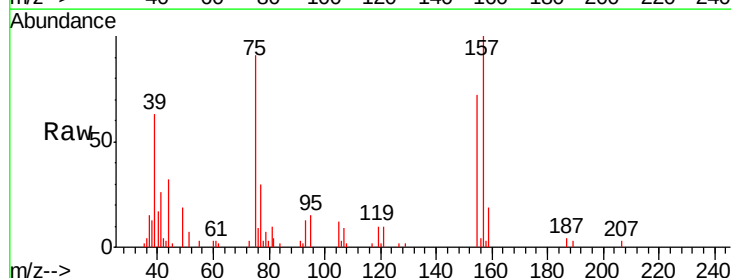
Tgt Ion: 75 Resp: 9274

Ion Ratio Lower Upper

75 100

155 78.7 41.5 124.5

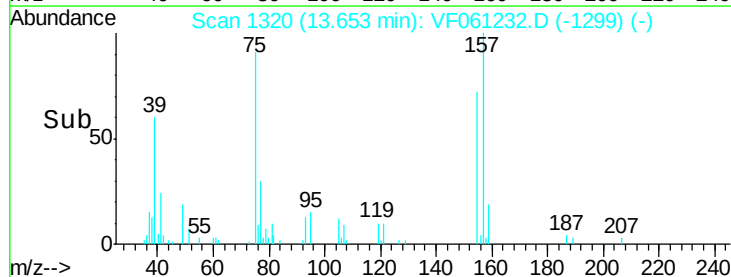
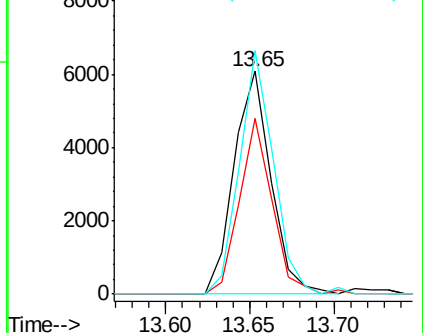
157 109.3 53.2 159.6

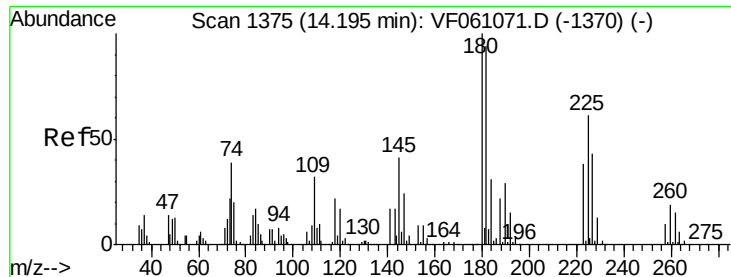


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

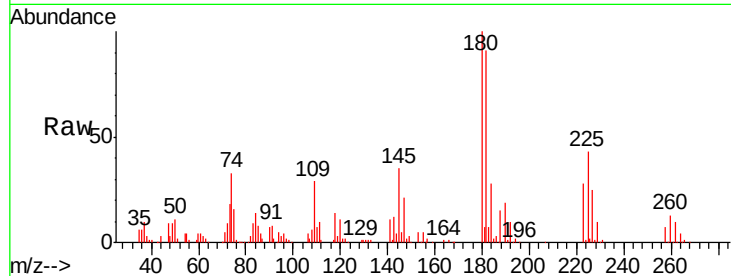




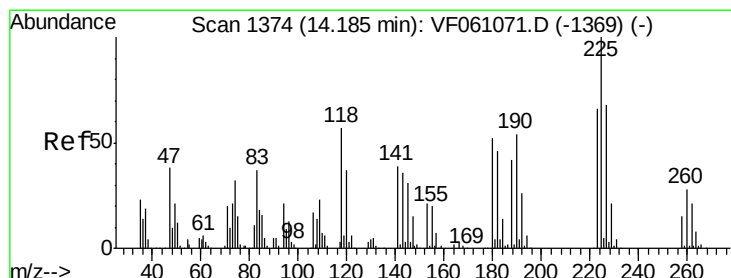
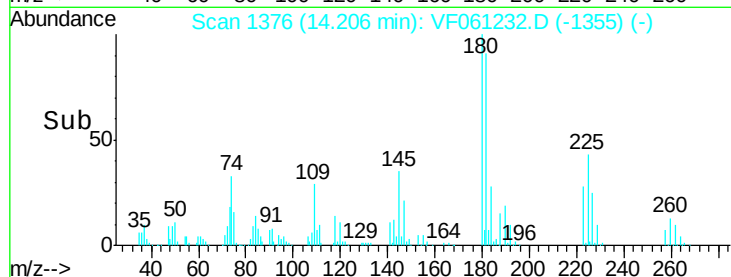
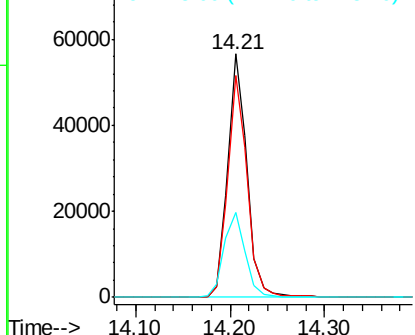
#93
 1,2,4-Trichlorobenzene
 Concen: 19.723 ug/l
 RT: 14.21 min Scan# 1376
 Delta R.T. 0.01 min
 Lab File: VF061232.D
 Acq: 28 Dec 2018 13:25

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1228SBS02

Tgt Ion:180 Resp: 79694
 Ion Ratio Lower Upper
 180 100
 182 91.3 46.9 140.6
 145 34.7 20.5 61.6

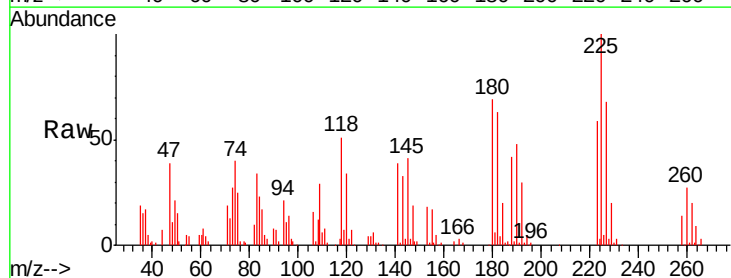


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

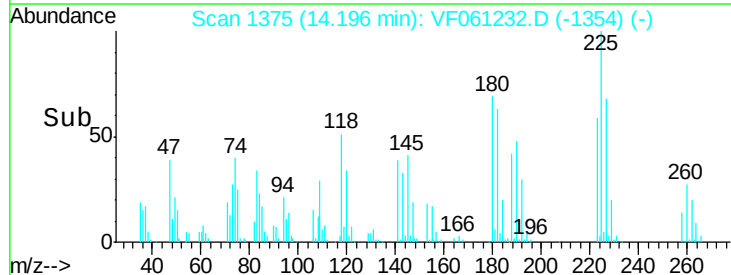
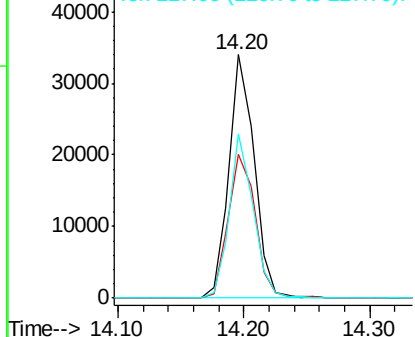


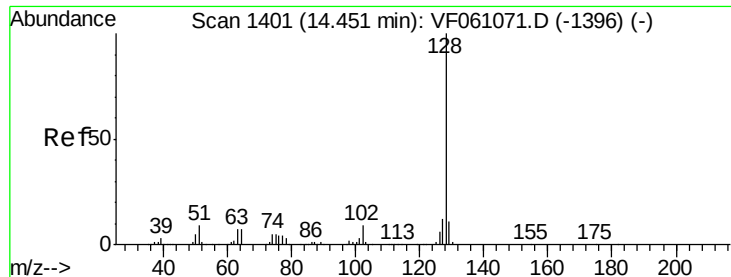
#94
 Hexachlorobutadiene
 Concen: 18.279 ug/l
 RT: 14.20 min Scan# 1375
 Delta R.T. 0.01 min
 Lab File: VF061232.D
 Acq: 28 Dec 2018 13:25

Tgt Ion:225 Resp: 47040
 Ion Ratio Lower Upper
 225 100
 223 59.2 32.8 98.3
 227 67.5 34.0 101.8



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





#95

Naphthalene

Concen: 19.451 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. 0.01 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

Instrument :

MSVOA_F

ClientSampleId :

VF1228SBS02

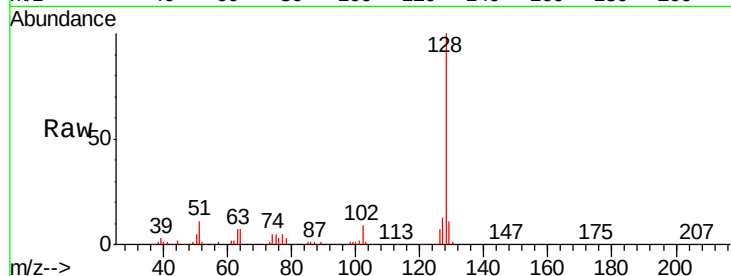
Tgt Ion:128 Resp: 143514

Ion Ratio Lower Upper

128 100

127 13.3 9.4 14.2

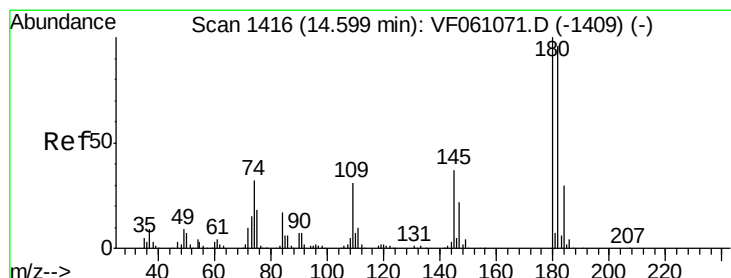
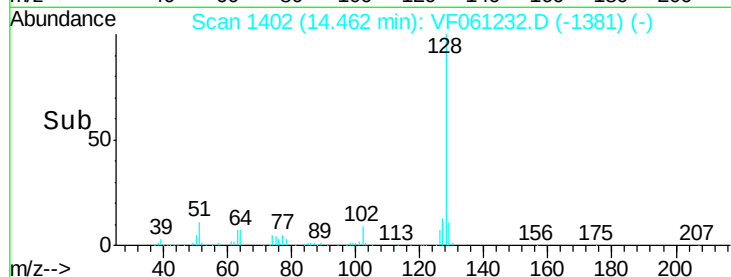
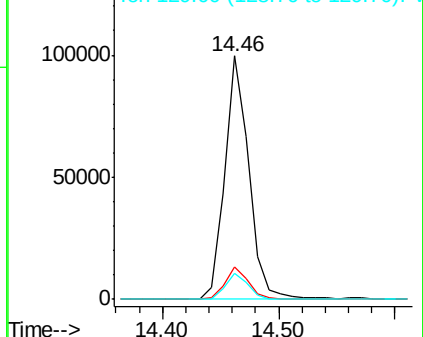
129 10.7 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 19.511 ug/l

RT: 14.61 min Scan# 1417

Delta R.T. 0.01 min

Lab File: VF061232.D

Acq: 28 Dec 2018 13:25

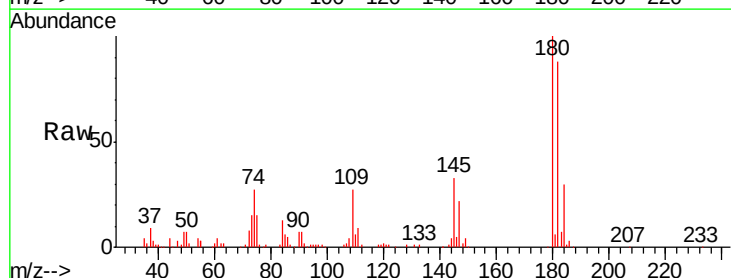
Tgt Ion:180 Resp: 72879

Ion Ratio Lower Upper

180 100

182 88.0 47.9 143.8

145 33.1 18.6 55.8



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

