

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122718\
 Data File : VF061204.D
 Acq On : 27 Dec 2018 13:18
 Operator : VA/AP
 Sample : VF1227SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1227SBS01

Quant Time: Dec 27 13:47:10 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	4.85	168	183922	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.57	114	326719	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.75	117	305020	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.53	152	146052	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.82	65	133252	56.33	ug/l	-0.02
Spiked Amount			Recovery	=	112.66%	
35) Dibromofluoromethane	4.08	113	142388	54.40	ug/l	-0.03
Spiked Amount			Recovery	=	108.80%	
50) Toluene-d8	7.53	98	376779	50.80	ug/l	-0.02
Spiked Amount			Recovery	=	101.60%	
62) 4-Bromofluorobenzene	11.39	95	177966	52.05	ug/l	-0.02
Spiked Amount			Recovery	=	104.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	81928	20.039	ug/l	99
3) Chloromethane	1.09	50	52462	22.401	ug/l	97
4) Vinyl Chloride	1.14	62	48132	22.155	ug/l #	86
5) Bromomethane	1.31	94	29399	19.510	ug/l	87
6) Chloroethane	1.39	64	21077	21.055	ug/l	94
7) Trichlorofluoromethane	1.48	101	66358	15.997	ug/l	97
8) Diethyl Ether	1.62	74	11714	20.622	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	1.83	101	51166	23.789	ug/l	94
10) Methyl Iodide	1.83	142	13307	3.925	ug/l	93
11) Tert butyl alcohol	2.55	59	9407	98.544	ug/l #	88
12) 1,1-Dichloroethene	1.79	96	35206	21.715	ug/l	90
13) Acrolein	1.99	56	6011	87.143	ug/l	95
14) Allyl chloride	2.08	41	51134	30.307	ug/l	90
15) Acrylonitrile	2.93	53	26253	118.932	ug/l	96
16) Acetone	2.23	43	51156	108.175	ug/l	96
17) Carbon Disulfide	1.75	76	16794	3.428	ug/l	96
18) Methyl Acetate	2.41	43	22735	23.237	ug/l	100
19) Methyl tert-butyl Ether	2.41	73	75694	21.034	ug/l	94
20) Methylene Chloride	2.17	84	13715	5.036	ug/l	95
21) trans-1,2-Dichloroethene	2.29	96	36713	21.172	ug/l	93
22) Diisopropyl ether	2.78	45	121647	21.645	ug/l	96
23) Vinyl Acetate	3.16	43	279077	107.641	ug/l	97
24) 1,1-Dichloroethane	2.86	63	72435	21.753	ug/l	97
25) 2-Butanone	4.31	43	81154	105.813	ug/l	95
26) 2,2-Dichloropropane	3.57	77	46553	24.361	ug/l	96
27) cis-1,2-Dichloroethene	3.46	96	57382	21.615	ug/l	93
28) Bromochloromethane	3.70	49	37776	22.358	ug/l	97
29) Tetrahydrofuran	4.05	42	33676	107.881	ug/l	94
30) Chloroform	3.83	83	103830	20.796	ug/l	93
31) Cyclohexane	3.68	56	52899	15.310	ug/l	93
32) 1,1,1-Trichloroethane	4.07	97	65755	21.972	ug/l	94
36) 1,1-Dichloropropene	4.26	75	80272	20.354	ug/l	96
37) Ethyl Acetate	4.09	43	29458	17.144	ug/l #	93
38) Carbon Tetrachloride	3.96	117	64249	21.393	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.43	83	78110	22.077	ug/l	97
40) Benzene	4.60	78	181232	21.369	ug/l	96
41) Methacrylonitrile	4.71	41	16008	19.220	ug/l	97
42) 1,2-Dichloroethane	4.92	62	62647	19.445	ug/l	99
43) Isopropyl Acetate	6.94	43	34148	17.933	ug/l	98
44) Trichloroethene	5.48	130	56458	21.115	ug/l	97
45) 1,2-Dichloropropane	6.21	63	46417	20.117	ug/l	98
46) Dibromomethane	6.06	93	29748	19.878	ug/l	93
47) Bromodichloromethane	6.36	83	77659	19.972	ug/l	98
48) Methyl methacrylate	6.69	41	22681	17.062	ug/l	99
49) 1,4-Dioxane	6.68	88	3091	320.452	ug/l #	21
51) 4-Methyl-2-Pentanone	8.23	43	132990	101.833	ug/l	97
52) Toluene	7.60	92	113465	20.211	ug/l	99
53) t-1,3-Dichloropropene	8.25	75	58810	18.748	ug/l	96
54) cis-1,3-Dichloropropene	7.28	75	80124	20.352	ug/l	99
55) 1,1,2-Trichloroethane	8.47	97	31558	18.751	ug/l	97
56) Ethyl methacrylate	8.60	69	34933	19.182	ug/l	98
57) 1,3-Dichloropropane	8.82	76	58475	19.211	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.27	63	21341	61.016	ug/l	93
59) 2-Hexanone	9.47	43	94012	99.542	ug/l	95
60) Dibromochloromethane	8.70	129	48202	19.980	ug/l	98
61) 1,2-Dibromoethane	8.96	107	36490	20.301	ug/l	98
64) Tetrachloroethene	8.12	164	44888	19.131	ug/l	97
65) Chlorobenzene	9.77	112	127798	20.281	ug/l	95
66) 1,1,1,2-Tetrachloroethane	9.91	131	52022	20.202	ug/l	96
67) Ethyl Benzene	9.88	91	239016	20.821	ug/l	98
68) m/p-Xylenes	10.11	106	162163	40.139	ug/l	92
69) o-Xylene	10.69	106	90050	20.098	ug/l	99
70) Styrene	10.77	104	125003	19.961	ug/l	99
71) Bromoform	10.75	173	22582	18.955	ug/l	94
73) Isopropylbenzene	11.10	105	279493	22.207	ug/l	98
74) N-amyl acetate	11.36	43	58393	20.897	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.68	83	45542	21.802	ug/l	94
76) 1,2,3-Trichloropropane	11.77	75	31783	20.445	ug/l	96
77) Bromobenzene	11.48	156	55245	20.390	ug/l	84
78) n-propylbenzene	11.58	91	333804	20.461	ug/l	100
79) 2-Chlorotoluene	11.71	91	190635	22.079	ug/l	100
80) 1,3,5-Trimethylbenzene	11.80	105	218347	21.068	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.85	75	19667	29.442	ug/l	92
82) 4-Chlorotoluene	11.88	91	192760	21.582	ug/l	99
83) tert-Butylbenzene	12.11	119	231490	21.707	ug/l	98
84) 1,2,4-Trimethylbenzene	12.19	105	217841	21.078	ug/l	98
85) sec-Butylbenzene	12.29	105	312267	22.437	ug/l	97
86) p-Isopropyltoluene	12.45	119	267798	23.182	ug/l	98
87) 1,3-Dichlorobenzene	12.45	146	111625	22.261	ug/l	97
88) 1,4-Dichlorobenzene	12.54	146	100892	20.280	ug/l	95
89) n-Butylbenzene	12.83	91	275498	20.873	ug/l	95
90) Hexachloroethane	12.90	117	60887	21.333	ug/l	100
91) 1,2-Dichlorobenzene	12.93	146	107437	22.181	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.63	75	7315	19.083	ug/l	98

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Quant Time: Dec 27 13:47:10 2018
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Quant Title : SW846 8260
QLast Update : Thu Dec 20 00:56:59 2018
Response via : Initial Calibration

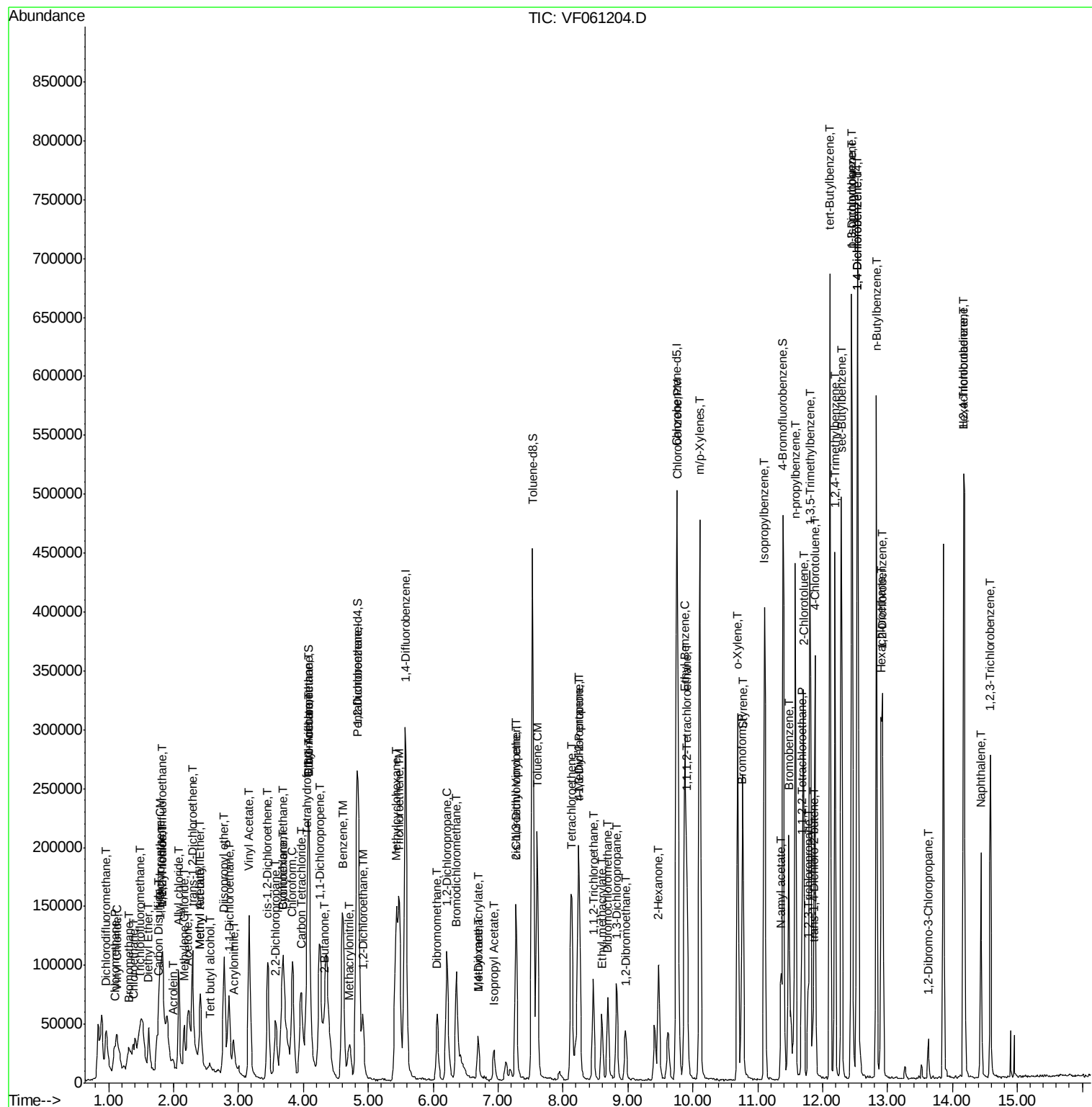
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.18	180	74376	21.652	ug/l	95
94) Hexachlorobutadiene	14.17	225	47039	21.500	ug/l	96
95) Naphthalene	14.44	128	126421	20.155	ug/l	99
96) 1,2,3-Trichlorobenzene	14.59	180	67780	21.344	ug/l	94

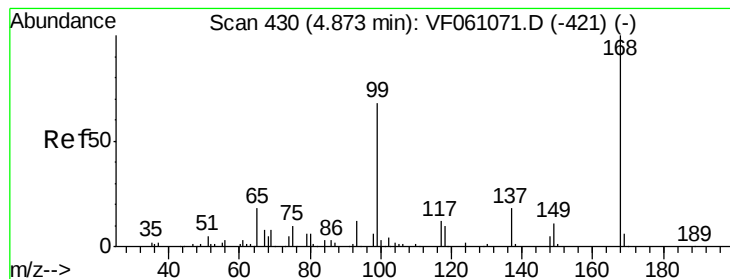
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Dec 20 00:56:59 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.02 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

Instrument :

MSVOA_F

ClientSampleId :

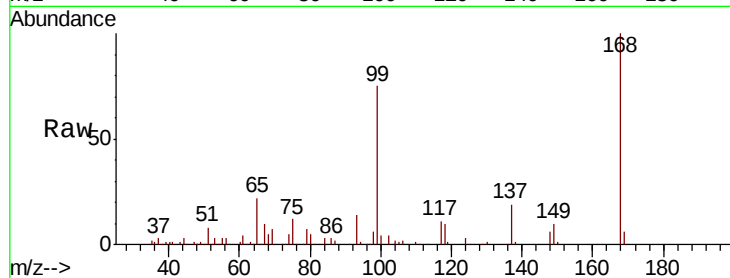
VF1227SBS01

Tot Ion:168 Resp: 183922

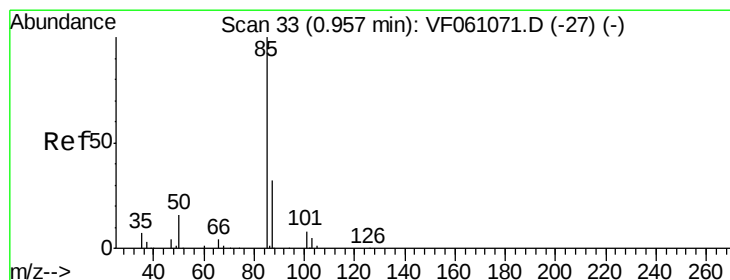
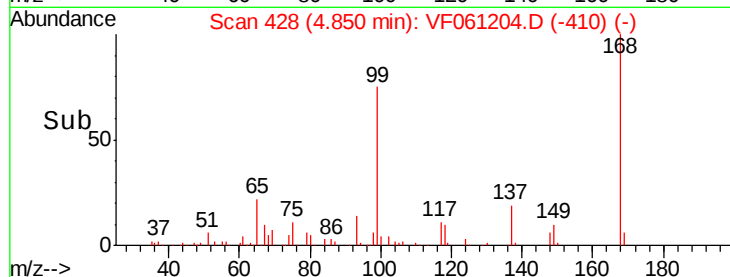
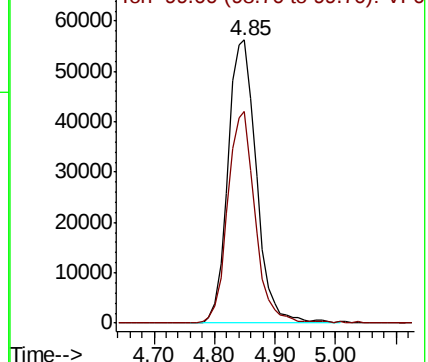
Ion Ratio Lower Upper

168 100

99 74.7 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0



#2

Dichlorodifluoromethane

Concen: 20.039 ug/l

RT: 0.96 min Scan# 34

Delta R.T. 0.01 min

Lab File: VF061204.D

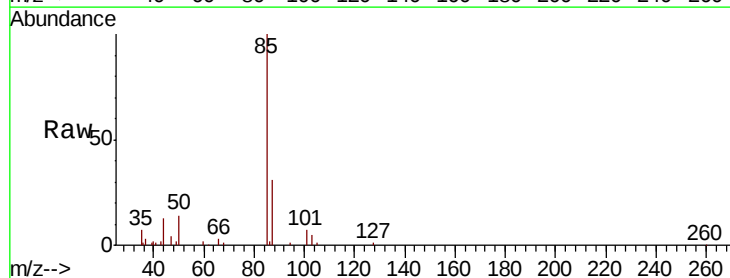
Acq: 27 Dec 2018 13:18

Tgt Ion: 85 Resp: 81928

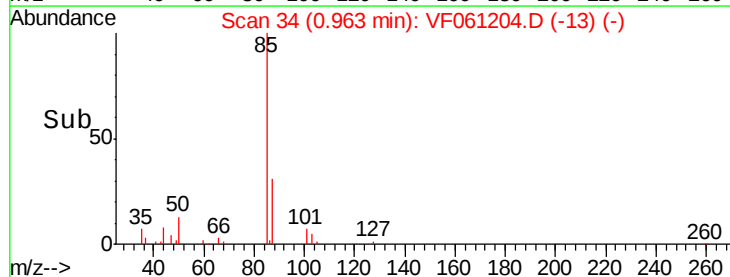
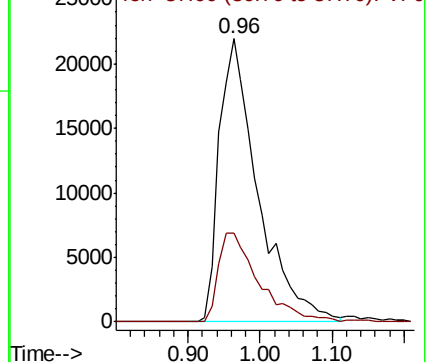
Ion Ratio Lower Upper

85 100

87 31.2 15.9 47.6



Abundance Ion 85.00 (84.70 to 85.70): VF0





#3

Chloromethane

Concen: 22.401 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

Instrument :

MSVOA_F

ClientSampleId :

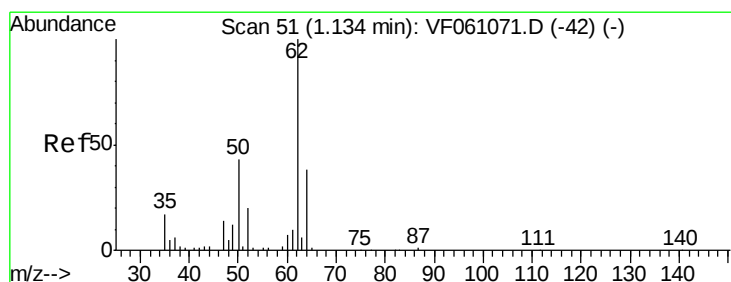
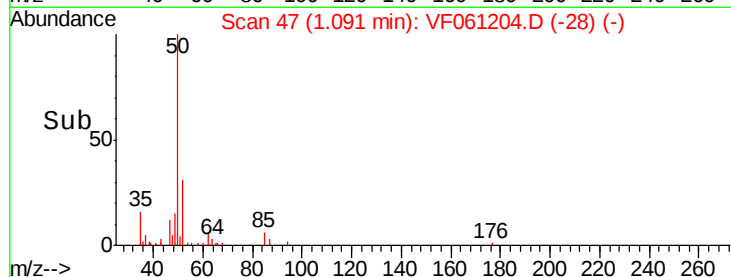
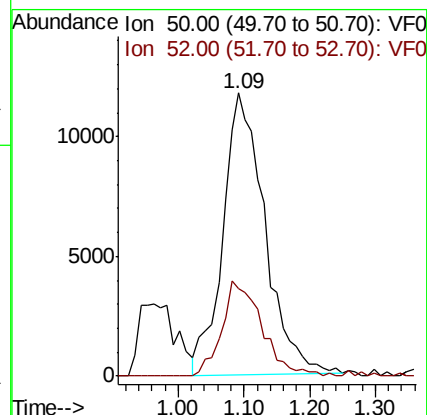
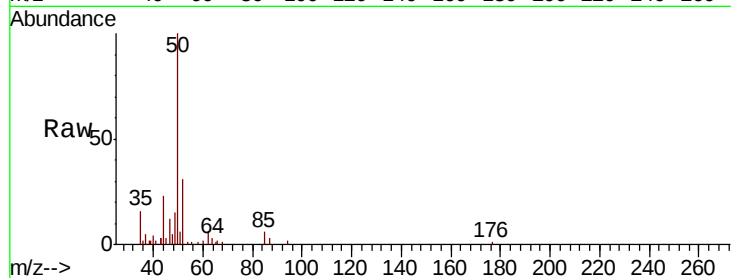
VF1227SBS01

Tot Ion: 50 Resp: 52462

Ion Ratio Lower Upper

50 100

52 31.0 26.3 39.5



#4

Vinyl Chloride

Concen: 22.155 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.01 min

Lab File: VF061204.D

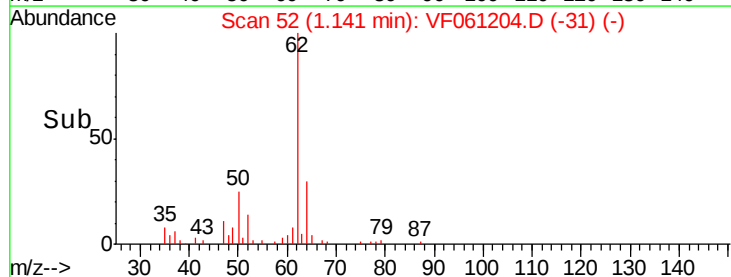
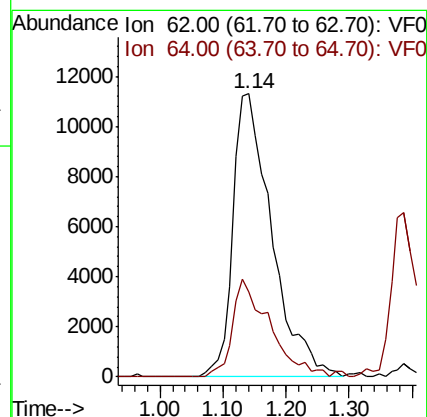
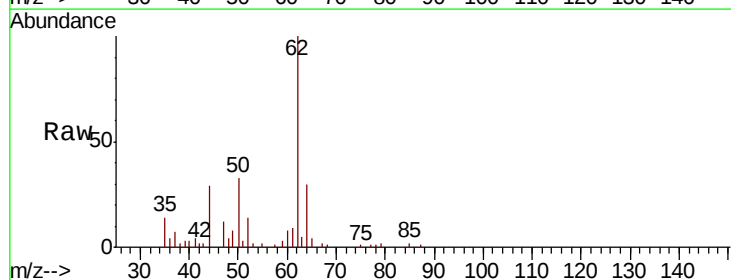
Acq: 27 Dec 2018 13:18

Tgt Ion: 62 Resp: 48132

Ion Ratio Lower Upper

62 100

64 29.8 30.4 45.6#





#5

Bromomethane

Concen: 19.510 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.03 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

Instrument :

MSVOA_F

ClientSampleId :

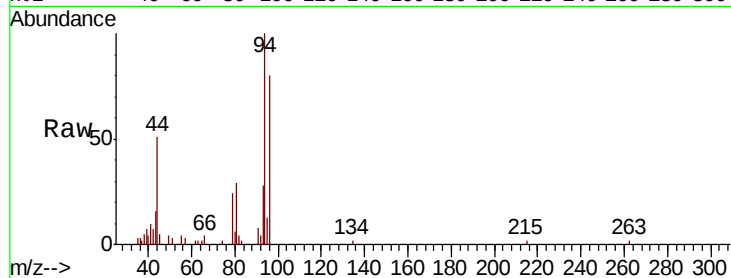
VF1227SBS01

Tot Ion: 94 Resp: 29399

Ion Ratio Lower Upper

94 100

96 80.3 74.4 111.6



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

8000

6000

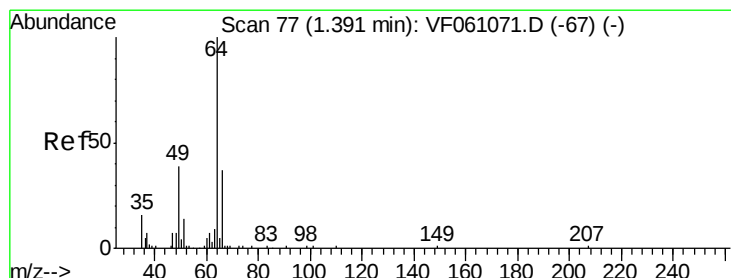
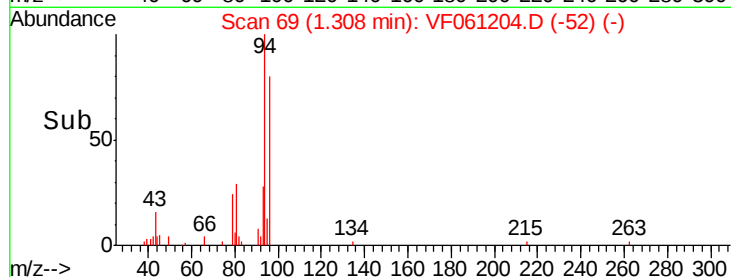
4000

2000

0

1.10 1.20 1.30 1.40 1.50

Time-->



#6

Chloroethane

Concen: 21.055 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.00 min

Lab File: VF061204.D

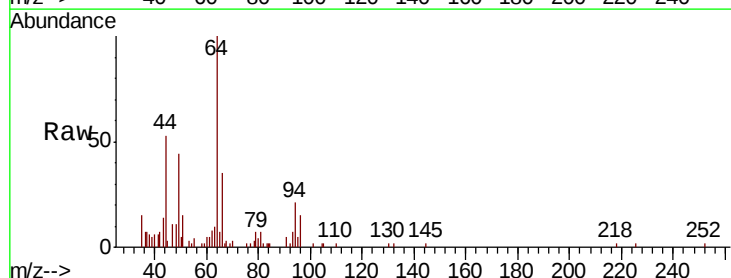
Acq: 27 Dec 2018 13:18

Tgt Ion: 64 Resp: 21077

Ion Ratio Lower Upper

64 100

66 35.1 30.9 46.3



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

6000

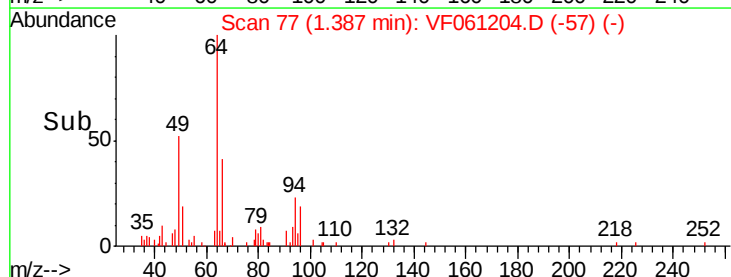
4000

2000

0

1.20 1.30 1.40 1.50 1.60

Time-->



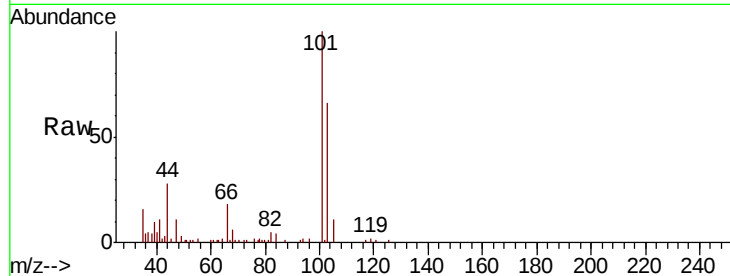


#7

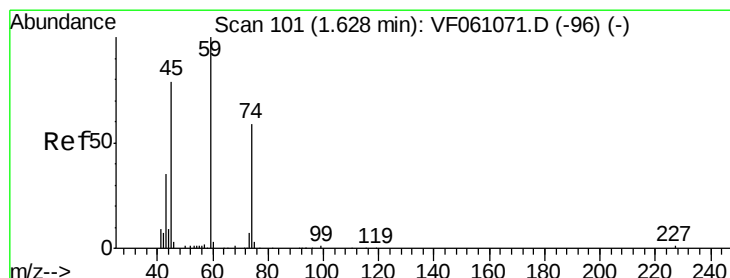
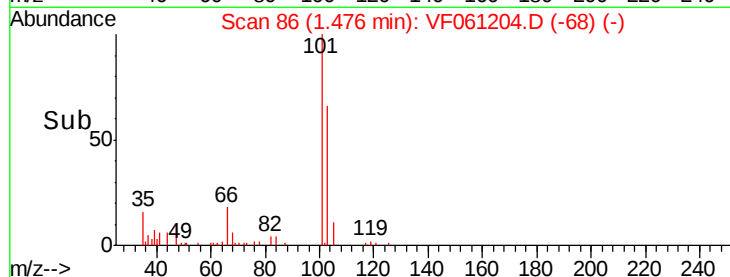
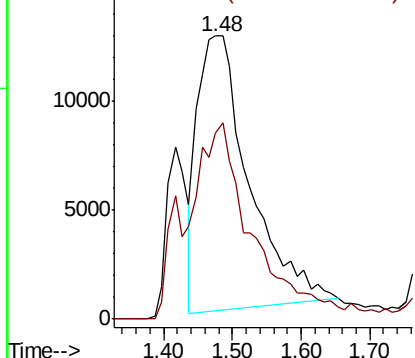
Trichlorofluoromethane
Concen: 15.997 ug/l
RT: 1.48 min Scan# 86
Delta R.T. -0.02 min
Lab File: VF061204.D
Acq: 27 Dec 2018 13:18

Instrument :
MSVOA_F
ClientSampleId :
VF1227SBS01

Tot Ion:101 Resp: 66358
Ion Ratio Lower Upper
101 100
103 65.7 50.7 76.1



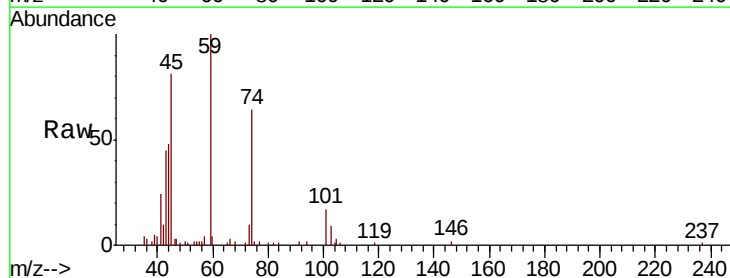
Abundance Ion 101.00 (100.70 to 101.70): V
Ion 103.00 (102.70 to 103.70): V



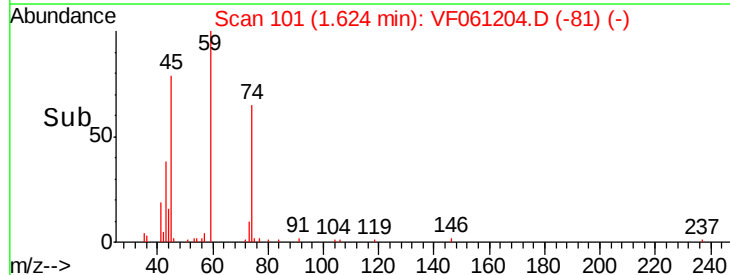
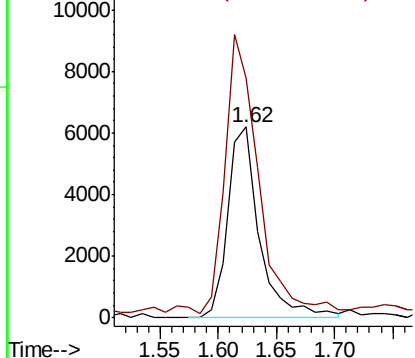
#8

Diethyl Ether
Concen: 20.622 ug/l
RT: 1.62 min Scan# 101
Delta R.T. -0.00 min
Lab File: VF061204.D
Acq: 27 Dec 2018 13:18

Tgt Ion: 74 Resp: 11714
Ion Ratio Lower Upper
74 100
45 126.1 67.8 203.4



Abundance Ion 74.00 (73.70 to 74.70): VF0
Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.789 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.00 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

Instrument :

MSVOA_F

ClientSampleId :

VF1227SBS01

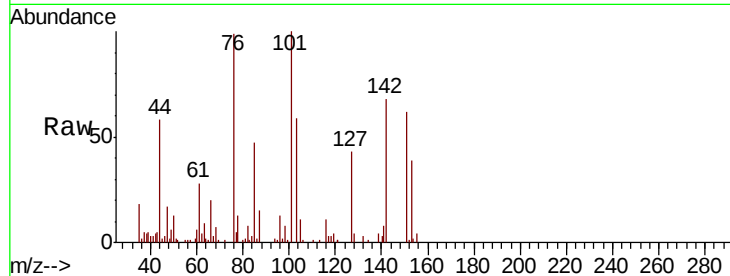
Tot Ion:101 Resp: 51166

Ion Ratio Lower Upper

101 100

85 47.4 44.5 66.7

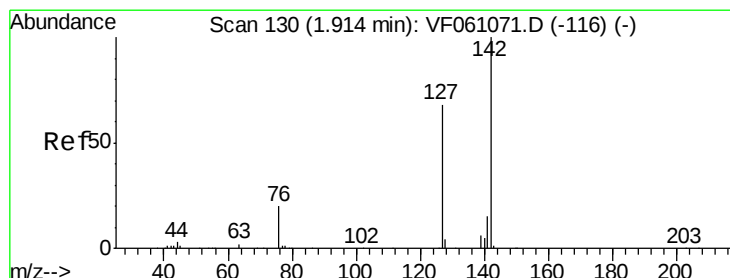
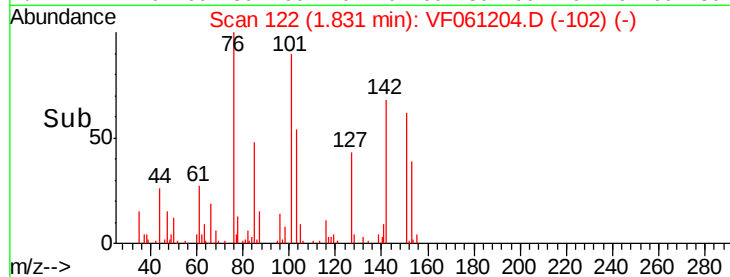
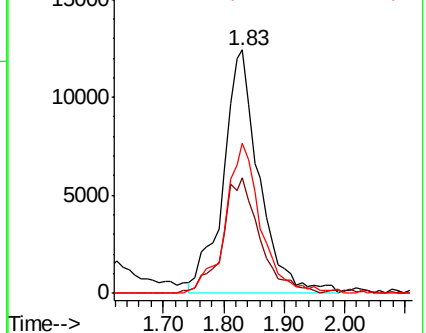
151 61.8 49.9 74.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 3.925 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.08 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

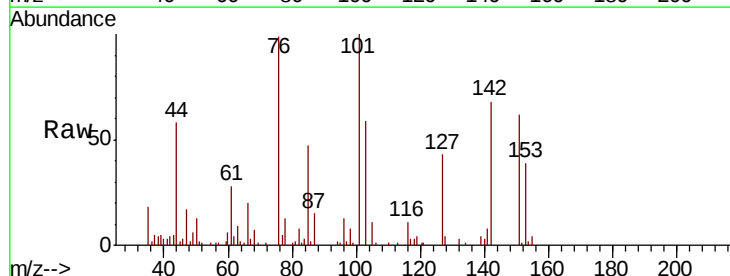
Tgt Ion:142 Resp: 13307

Ion Ratio Lower Upper

142 100

127 62.9 54.7 82.1

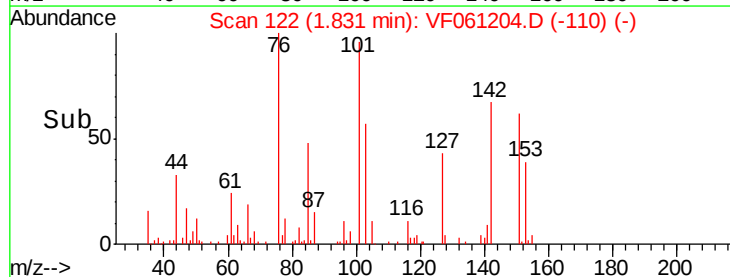
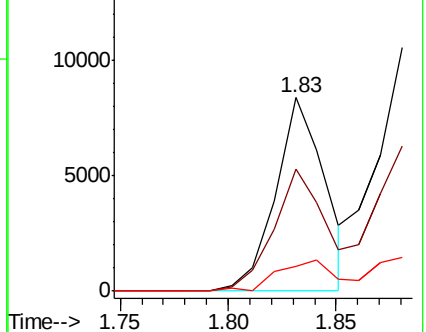
141 12.5 12.2 18.2

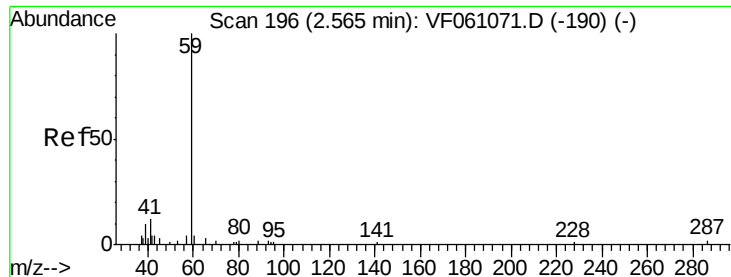


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



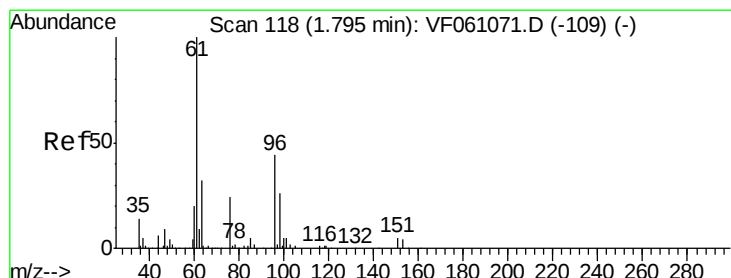
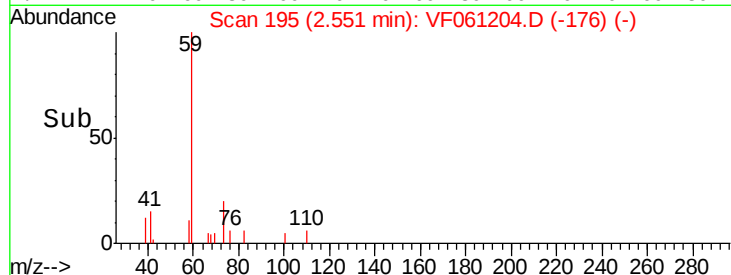
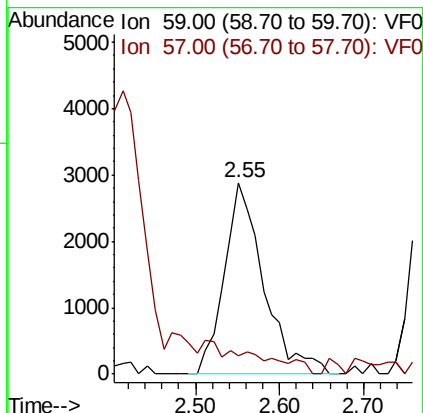
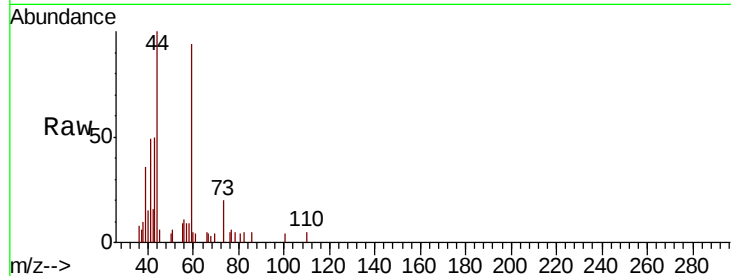


#11

Tert butyl alcohol
 Concen: 98.544 ug/l
 RT: 2.55 min Scan# 195
 Delta R.T. -0.01 min
 Lab File: VF061204.D
 Acq: 27 Dec 2018 13:18

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1227SBS01

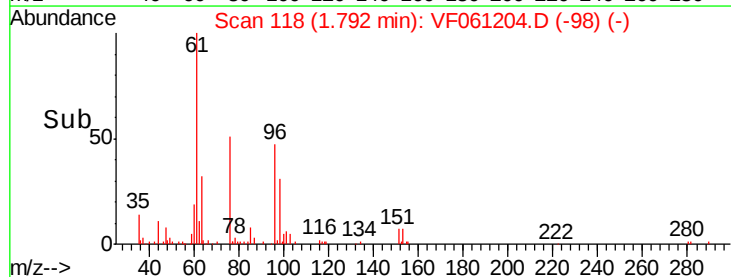
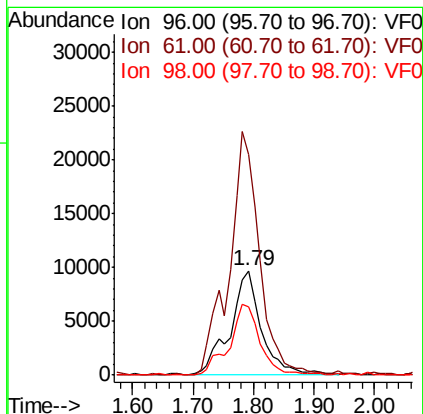
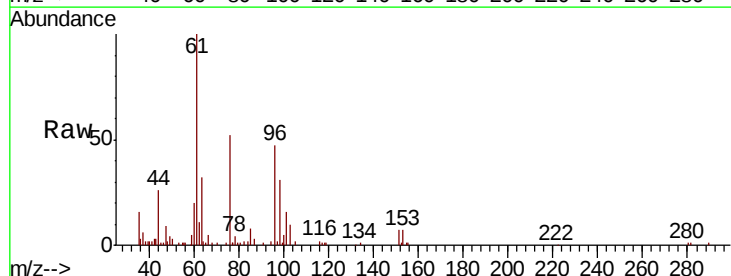
Tot Ion: 59 Resp: 9407
 Ion Ratio Lower Upper
 59 100
 57 9.5 11.5 17.3#

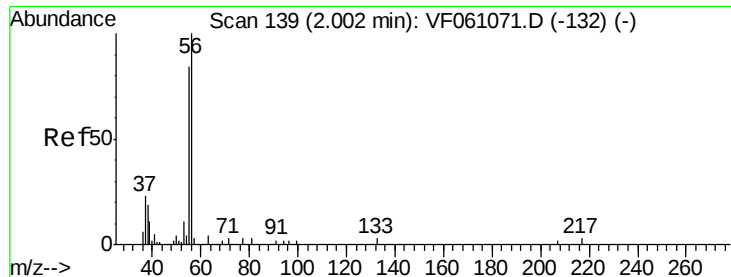


#12

1,1-Dichloroethene
 Concen: 21.715 ug/l
 RT: 1.79 min Scan# 118
 Delta R.T. -0.00 min
 Lab File: VF061204.D
 Acq: 27 Dec 2018 13:18

Tgt Ion: 96 Resp: 35206
 Ion Ratio Lower Upper
 96 100
 61 210.9 182.0 273.0
 98 65.7 46.5 69.7





#13

Acrolein

Concen: 87.143 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.01 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

Instrument :

MSVOA_F

ClientSampleId :

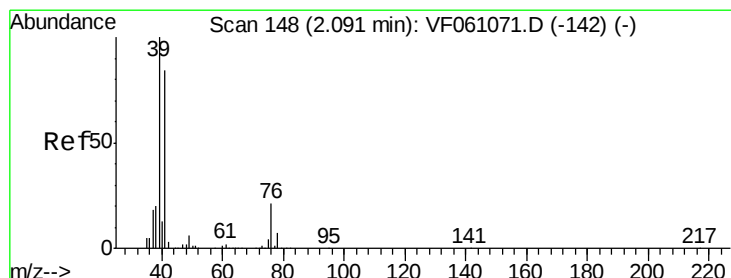
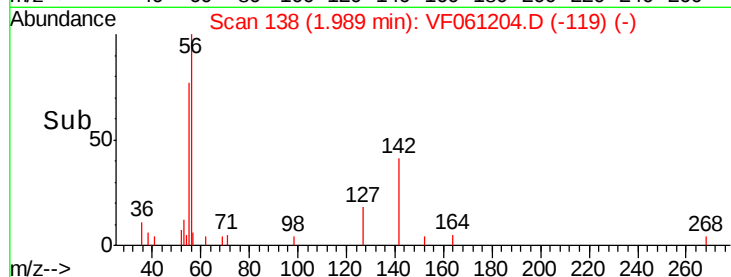
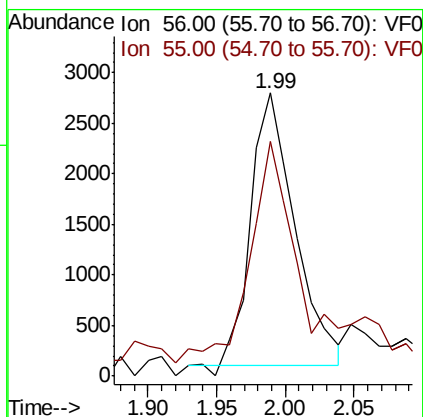
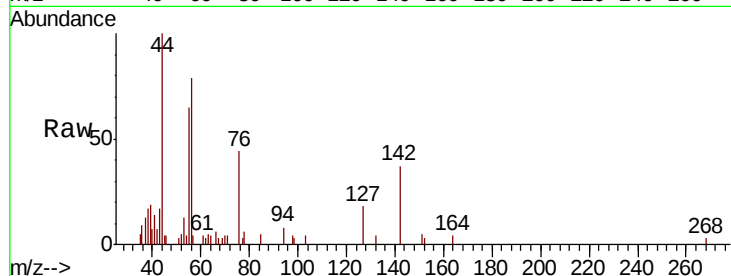
VF1227SBS01

Tot Ion: 56 Resp: 6011

Ion Ratio Lower Upper

56 100

55 82.9 70.2 105.2



#14

Allyl chloride

Concen: 30.307 ug/l

RT: 2.08 min Scan# 147

Delta R.T. -0.01 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

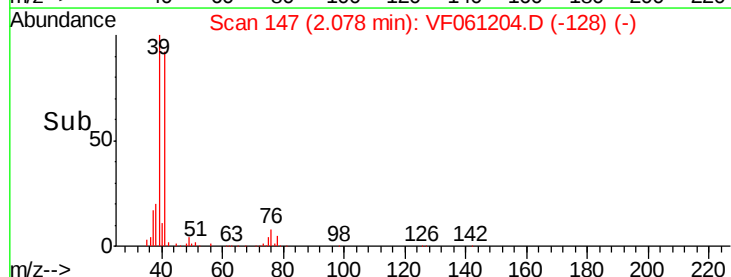
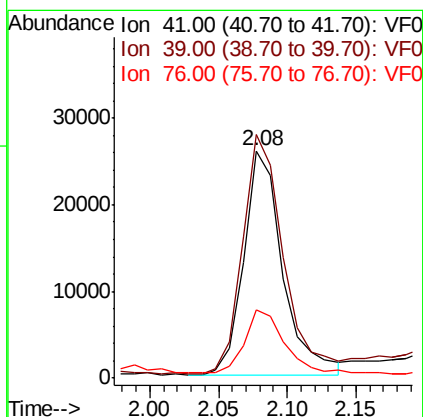
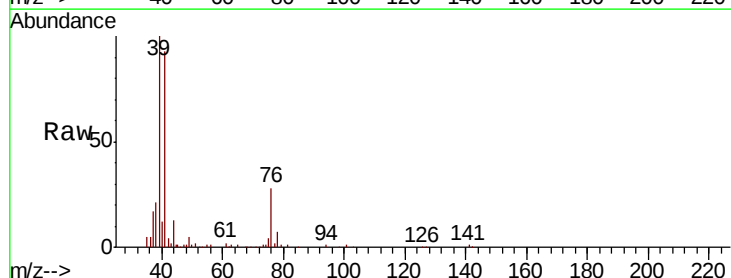
Tgt Ion: 41 Resp: 51134

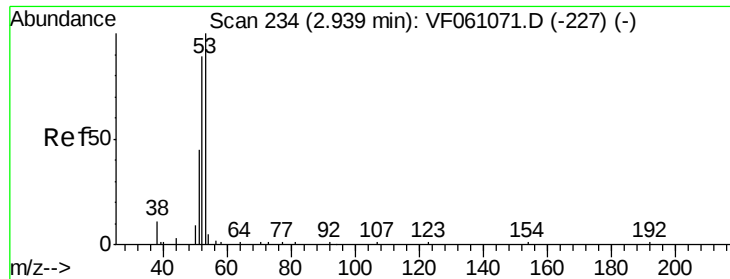
Ion Ratio Lower Upper

41 100

39 107.3 96.4 144.6

76 30.0 25.4 38.0

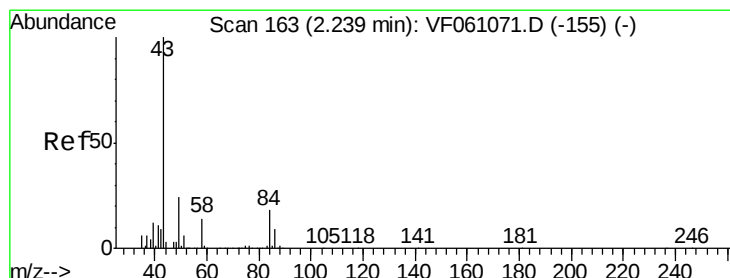
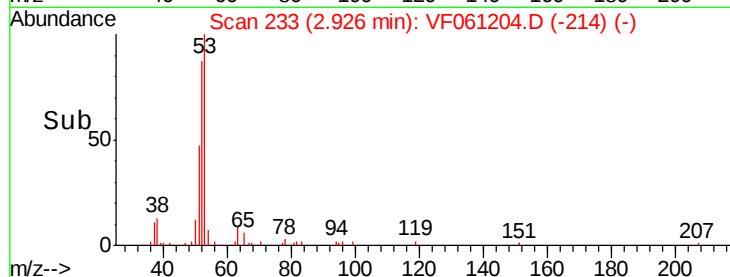
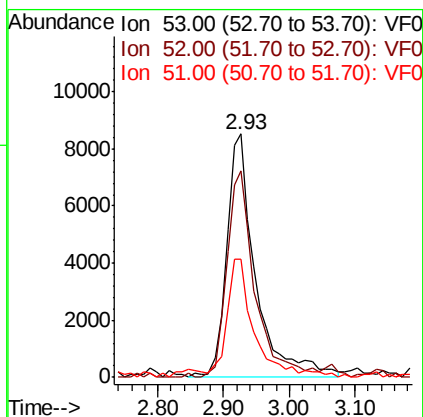
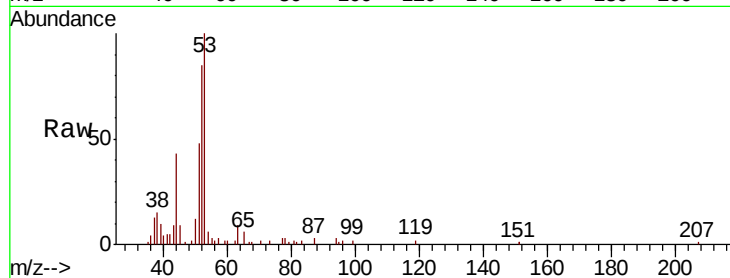




#15
 Acrylonitrile
 Concen: 118.932 ug/l
 RT: 2.93 min Scan# 233
 Delta R.T. -0.01 min
 Lab File: VF061204.D
 Acq: 27 Dec 2018 13:18

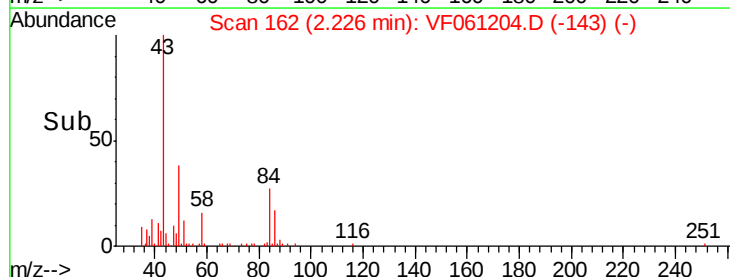
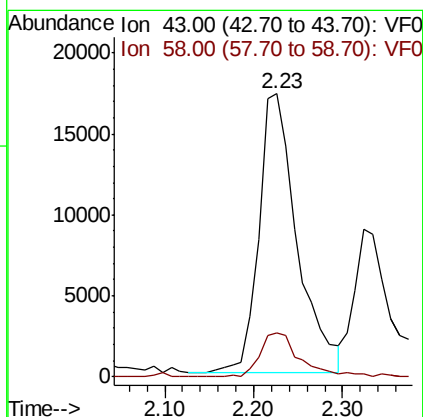
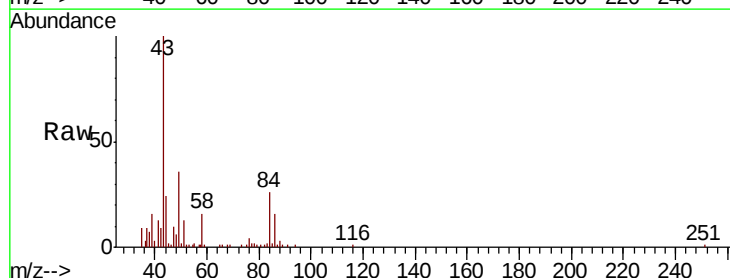
Instrument :
 MSVOA_F
 ClientSampleId :
 VF1227SBS01

Tot Ion:	53	Resp:	26253
Ion	Ratio	Lower	Upper
53	100		
52	84.8	71.3	106.9
51	48.3	36.8	55.2



#16
 Acetone
 Concen: 108.175 ug/l
 RT: 2.23 min Scan# 162
 Delta R.T. -0.01 min
 Lab File: VF061204.D
 Acq: 27 Dec 2018 13:18

Tgt Ion:	43	Resp:	51156
Ion	Ratio	Lower	Upper
43	100		
58	15.5	11.1	16.7

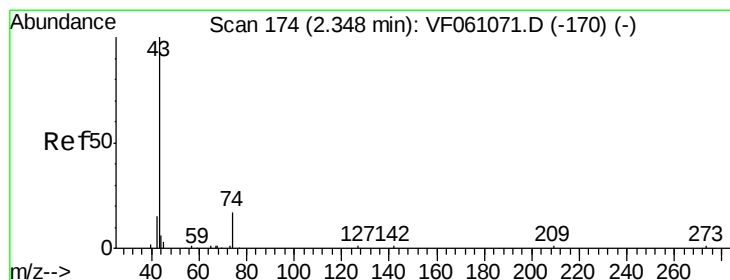
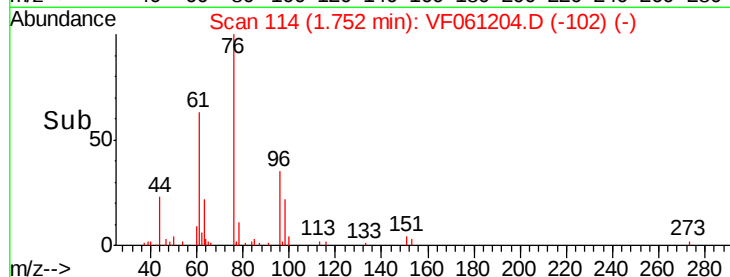
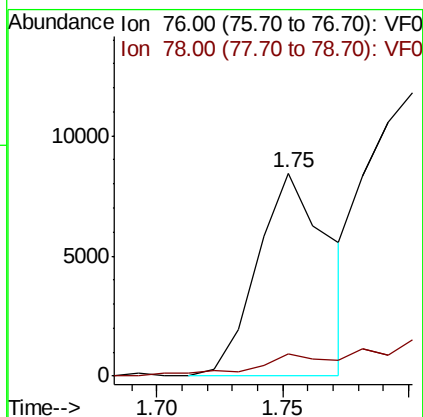
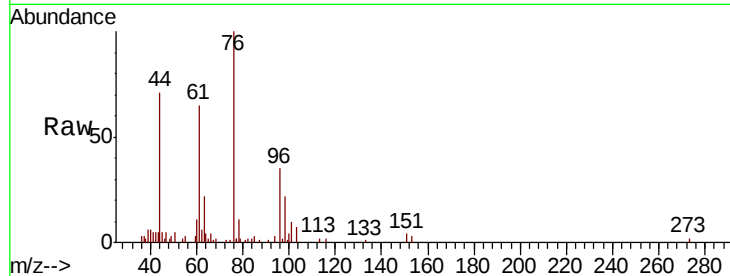




#17
Carbon Disulfide
Concen: 3.428 ug/l
RT: 1.75 min Scan# 114
Delta R.T. -0.08 min
Lab File: VF061204.D
Acq: 27 Dec 2018 13:18

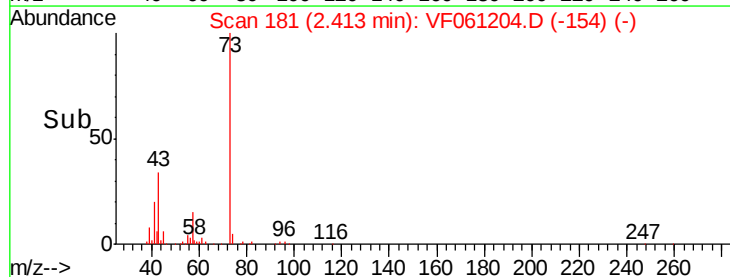
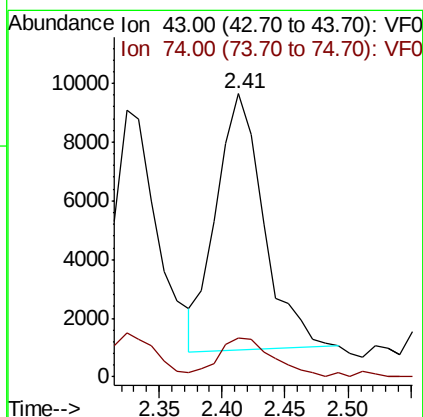
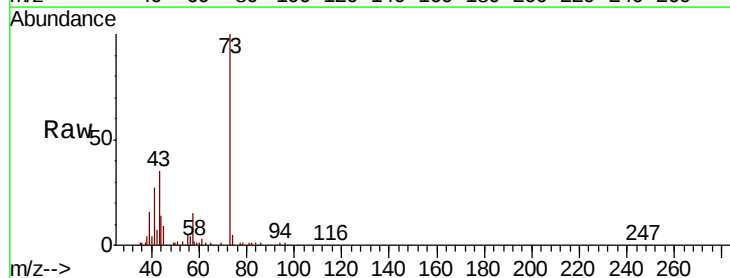
Instrument :
MSVOA_F
ClientSampleId :
VF1227SBS01

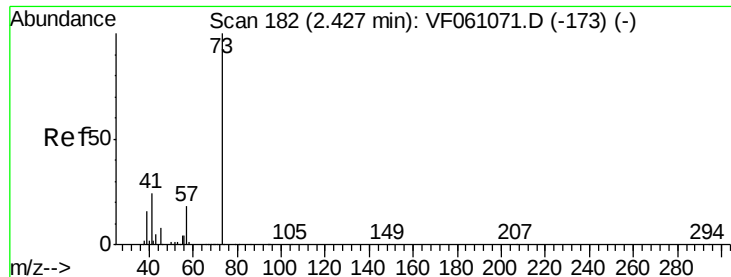
Tot Ion: 76 Resp: 16794
Ion Ratio Lower Upper
76 100
78 11.2 10.2 15.4



#18
Methyl Acetate
Concen: 23.237 ug/l
RT: 2.41 min Scan# 181
Delta R.T. 0.07 min
Lab File: VF061204.D
Acq: 27 Dec 2018 13:18

Tgt Ion: 43 Resp: 22735
Ion Ratio Lower Upper
43 100
74 13.6 11.0 16.6

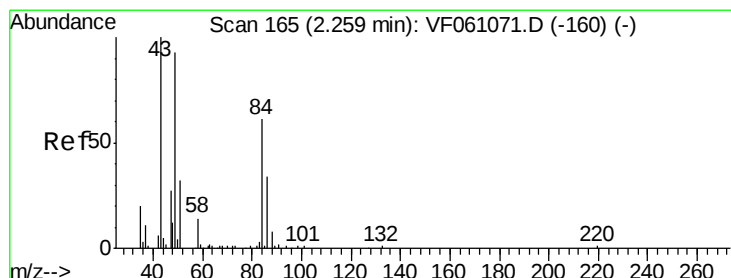
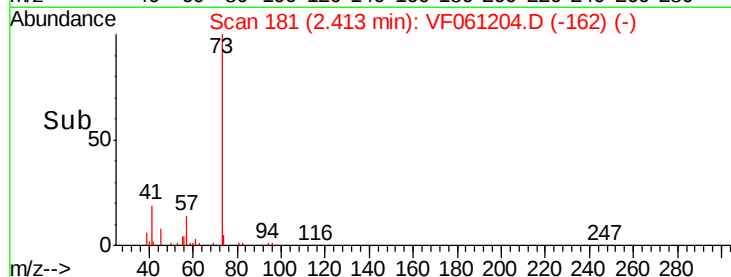
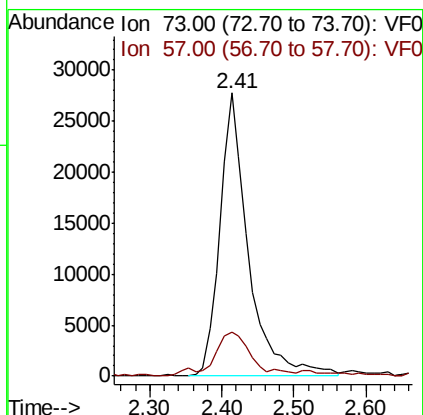
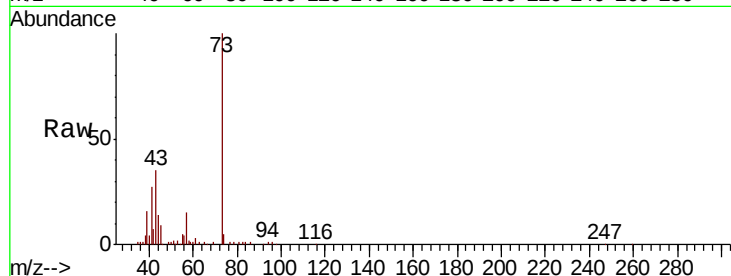




#19
Methyl tert-butyl Ether
Concen: 21.034 ug/l
RT: 2.41 min Scan# 181
Delta R.T. -0.01 min
Lab File: VF061204.D
Acq: 27 Dec 2018 13:18

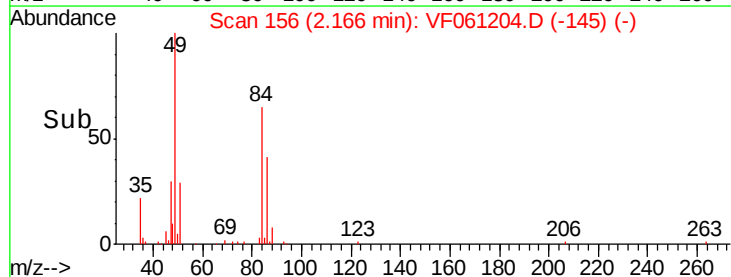
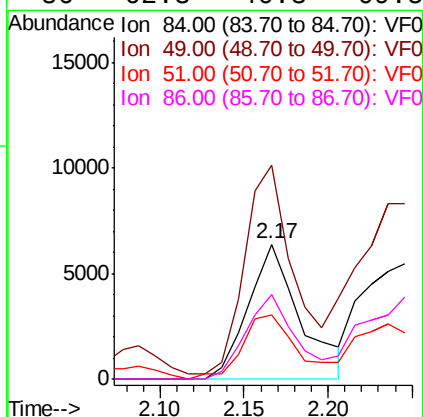
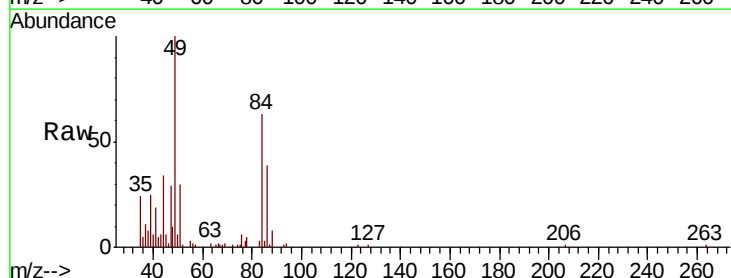
Instrument :
MSVOA_F
ClientSampleId :
VF1227SBS01

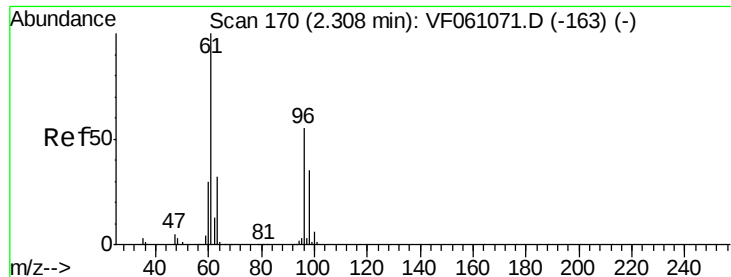
Tot Ion: 73 Resp: 75694
Ion Ratio Lower Upper
73 100
57 15.4 14.5 21.7



#20
Methylene Chloride
Concen: 5.036 ug/l
RT: 2.17 min Scan# 156
Delta R.T. -0.09 min
Lab File: VF061204.D
Acq: 27 Dec 2018 13:18

Tgt Ion: 84 Resp: 13715
Ion Ratio Lower Upper
84 100
49 158.5 129.4 194.2
51 47.9 44.0 66.0
86 62.3 46.3 69.5





#21

trans-1,2-Dichloroethene

Concen: 21.172 ug/l

RT: 2.29 min Scan# 169

Delta R.T. -0.01 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

Instrument :

MSVOA_F

ClientSampleId :

VF1227SBS01

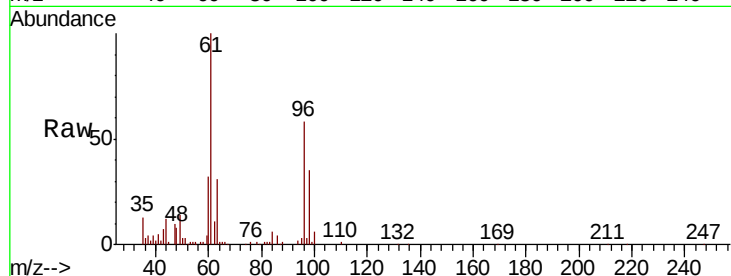
Tot Ion: 96 Resp: 36713

Ion Ratio Lower Upper

96 100

61 172.1 146.0 219.0

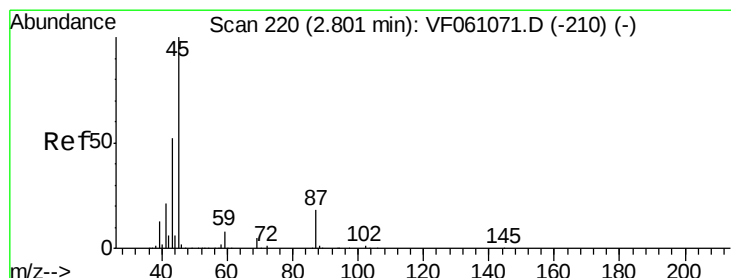
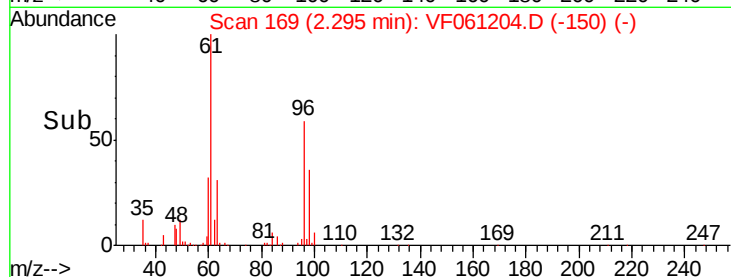
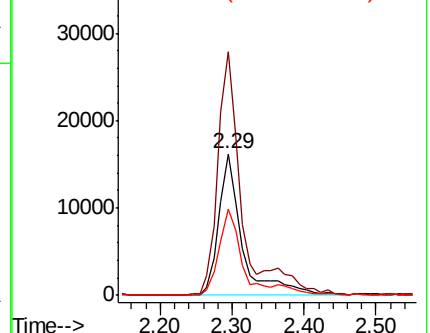
98 61.1 51.6 77.4



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 21.645 ug/l

RT: 2.78 min Scan# 218

Delta R.T. -0.02 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

Tgt Ion: 45 Resp: 121647

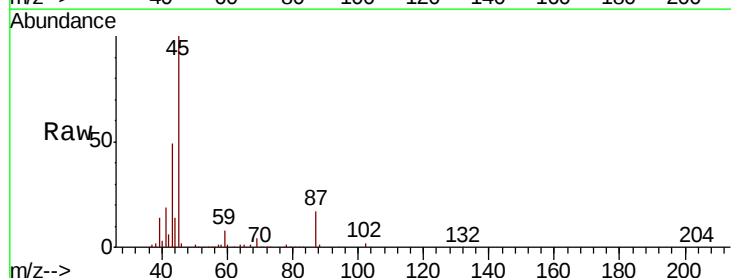
Ion Ratio Lower Upper

45 100

43 49.4 42.2 63.2

87 17.3 14.6 22.0

59 8.5 7.0 10.4

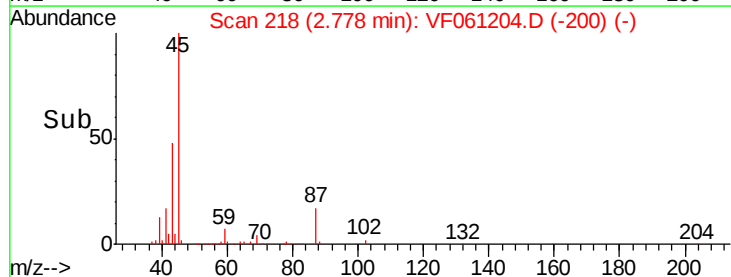
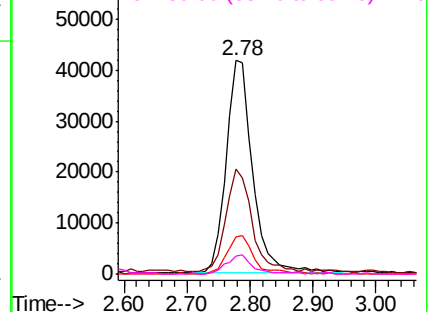


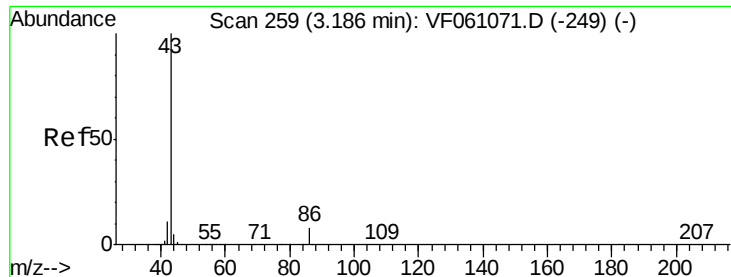
Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 107.641 ug/l

RT: 3.16 min Scan# 257

Delta R.T. -0.02 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

Instrument :

MSVOA_F

ClientSampleId :

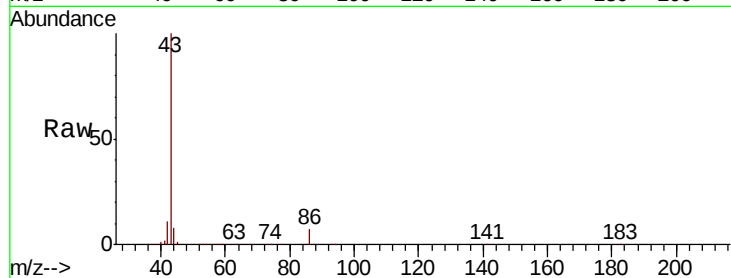
VF1227SBS01

Tot Ion: 43 Resp: 279077

Ion Ratio Lower Upper

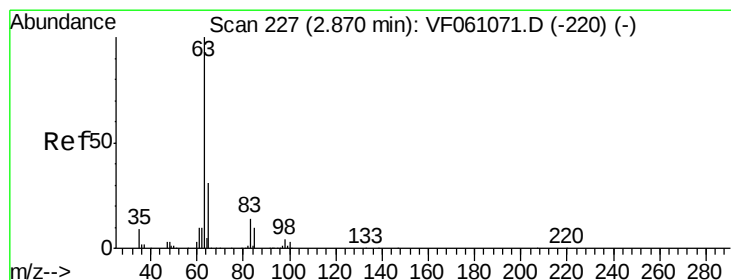
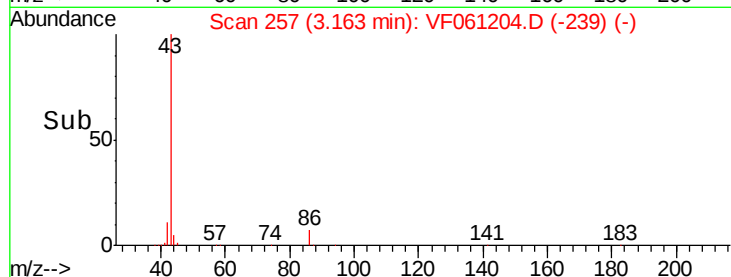
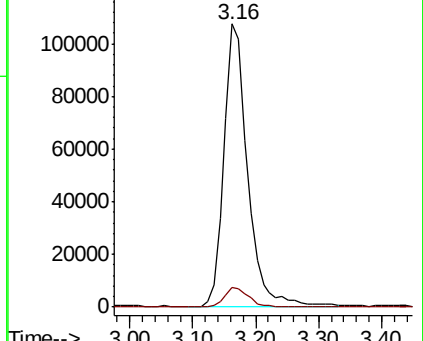
43 100

86 6.8 6.3 9.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 21.753 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.01 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

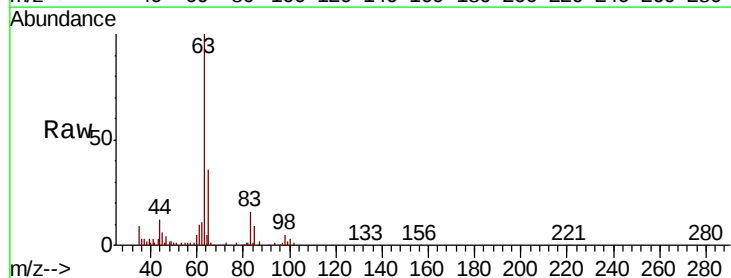
Tgt Ion: 63 Resp: 72435

Ion Ratio Lower Upper

63 100

98 5.4 2.1 6.5

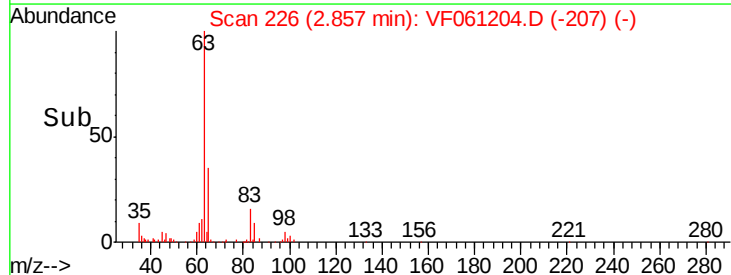
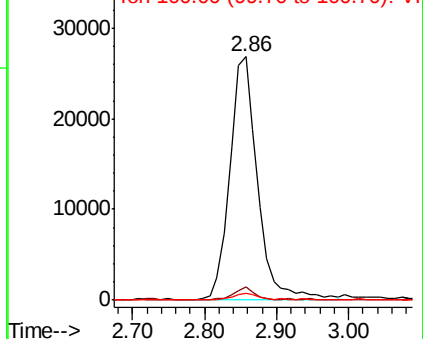
100 2.7 1.7 5.1

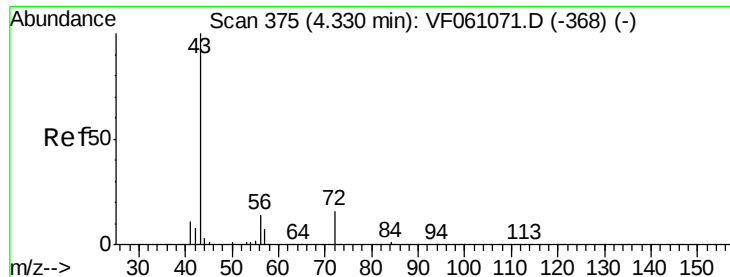


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

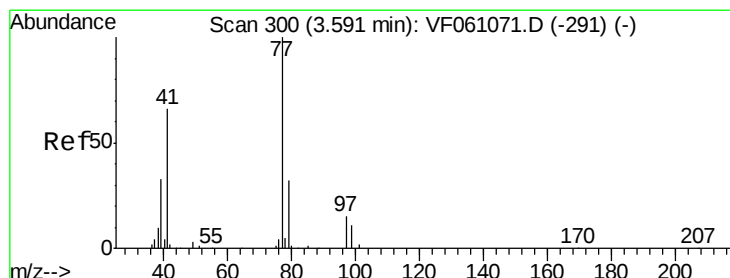
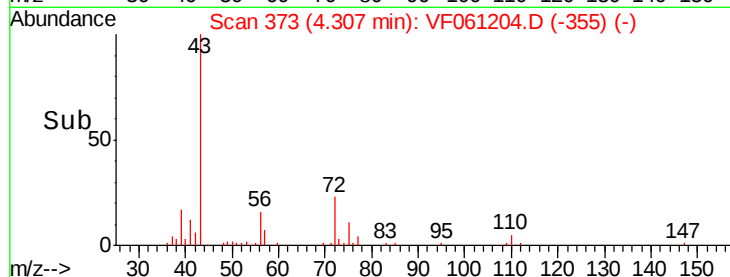
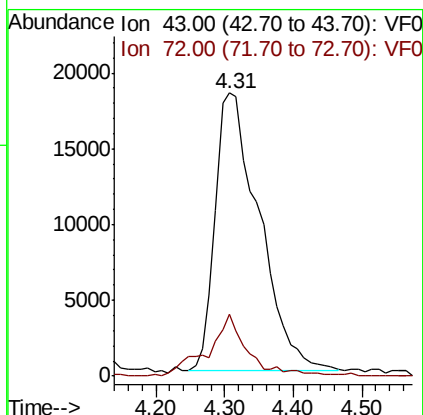
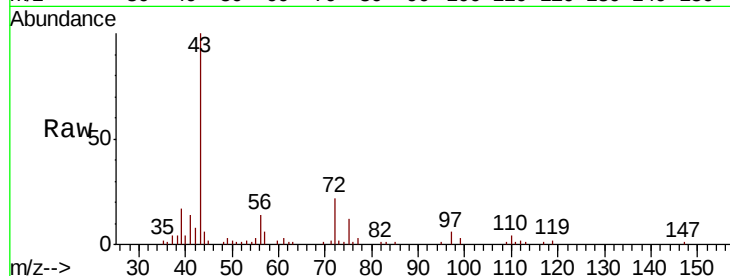




#25
2-Butanone
Concen: 105.813 ug/l
RT: 4.31 min Scan# 373
Delta R.T. -0.02 min
Lab File: VF061204.D
Acq: 27 Dec 2018 13:18

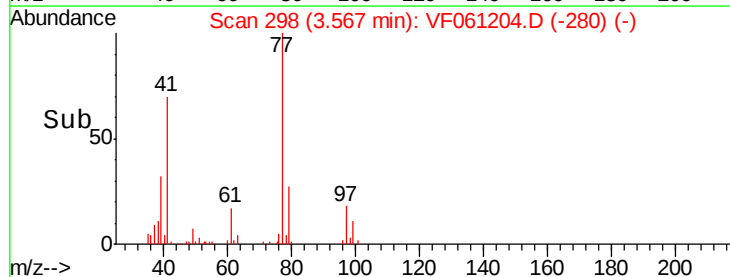
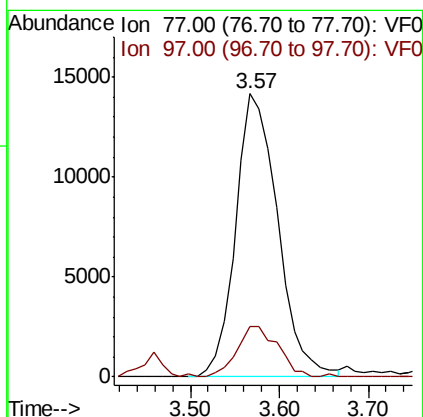
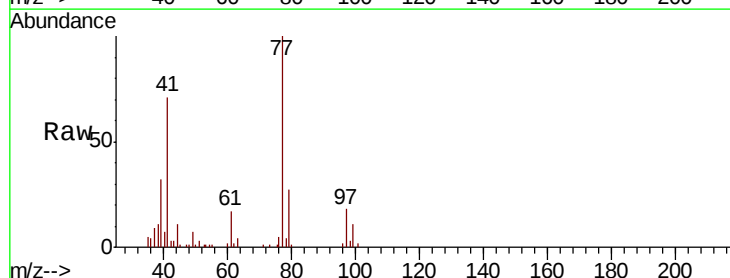
Instrument :
MSVOA_F
ClientSampleId :
VF1227SBS01

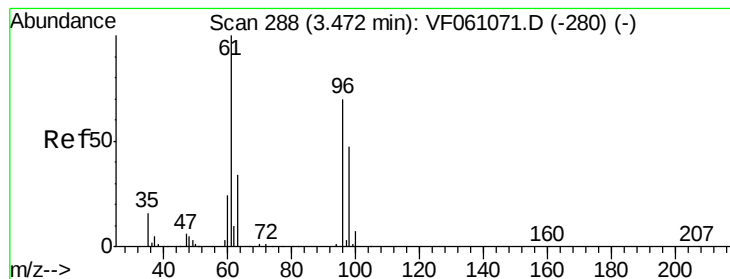
Tot Ion: 43 Resp: 81154
Ion Ratio Lower Upper
43 100
72 22.0 15.6 23.4



#26
2,2-Dichloropropane
Concen: 24.361 ug/l
RT: 3.57 min Scan# 298
Delta R.T. -0.02 min
Lab File: VF061204.D
Acq: 27 Dec 2018 13:18

Tgt Ion: 77 Resp: 46553
Ion Ratio Lower Upper
77 100
97 18.0 8.2 24.4



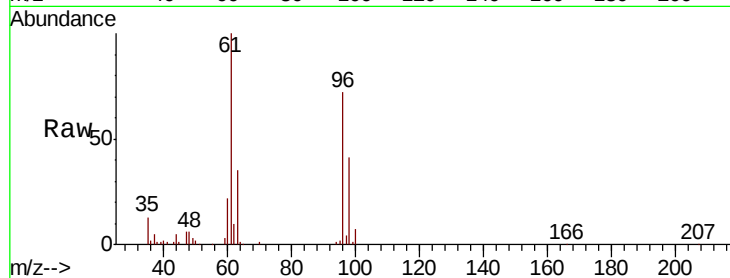


#27

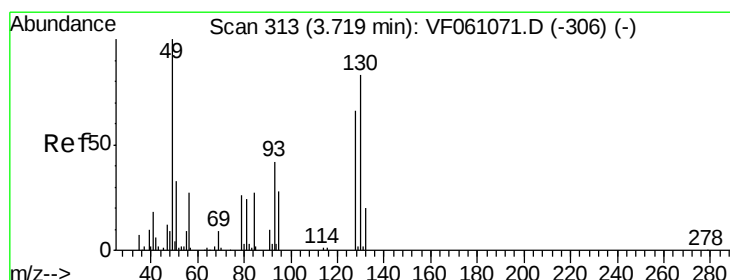
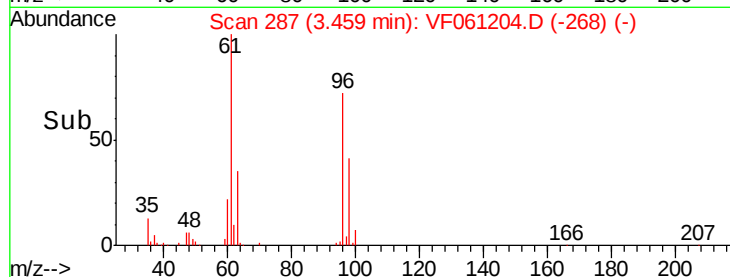
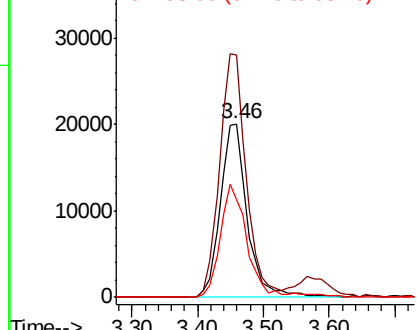
cis-1,2-Dichloroethene
 Concen: 21.615 ug/l
 RT: 3.46 min Scan# 287
 Delta R.T. -0.01 min
 Lab File: VF061204.D
 Acq: 27 Dec 2018 13:18

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1227SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	139.4	0.0	287.8
98	56.5	0.0	134.2



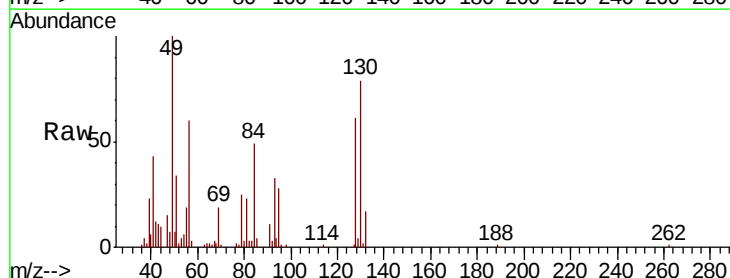
Abundance Ion 96.00 (95.70 to 96.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 98.00 (97.70 to 98.70): VF0



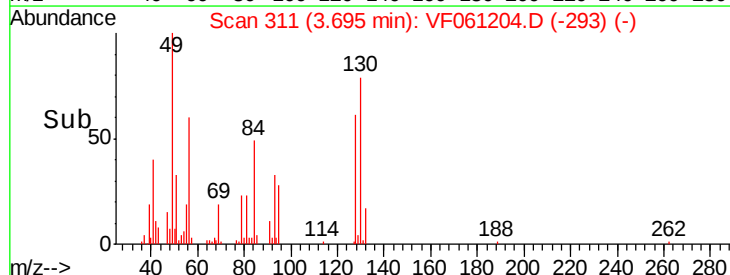
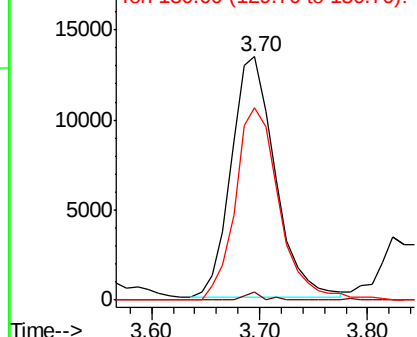
#28

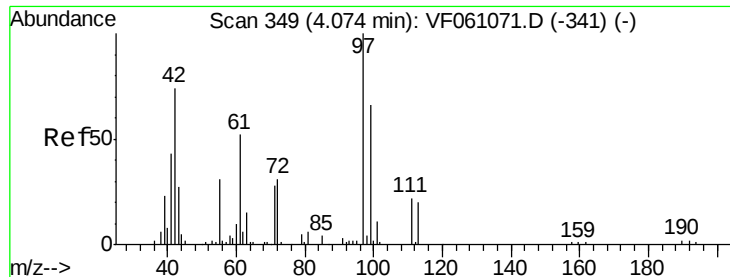
Bromochloromethane
 Concen: 22.358 ug/l
 RT: 3.70 min Scan# 311
 Delta R.T. -0.02 min
 Lab File: VF061204.D
 Acq: 27 Dec 2018 13:18

Tgt Ion	Ratio	Lower	Upper
49	100		
129	3.5	0.0	3.6
130	79.1	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: 107.881 ug/l

RT: 4.05 min Scan# 347

Delta R.T. -0.02 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

Instrument :

MSVOA_F

ClientSampleId :

VF1227SBS01

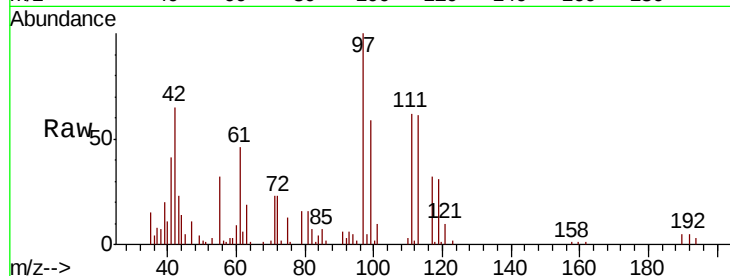
Tot Ion: 42 Resp: 33676

Ion Ratio Lower Upper

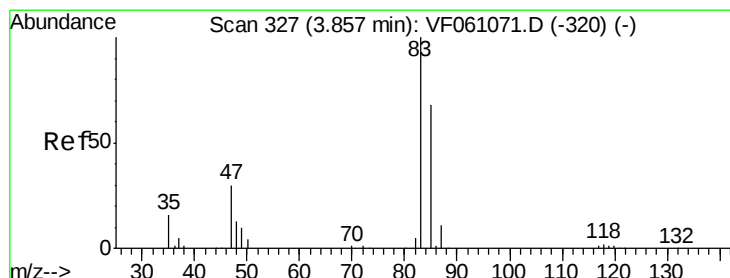
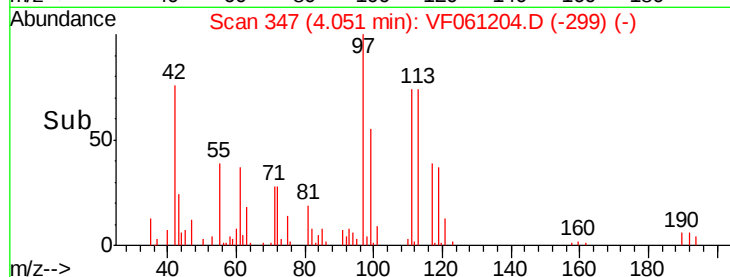
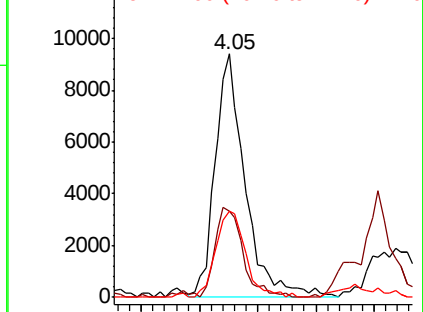
42 100

72 33.9 31.8 47.8

71 35.2 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: 20.796 ug/l

RT: 3.83 min Scan# 325

Delta R.T. -0.02 min

Lab File: VF061204.D

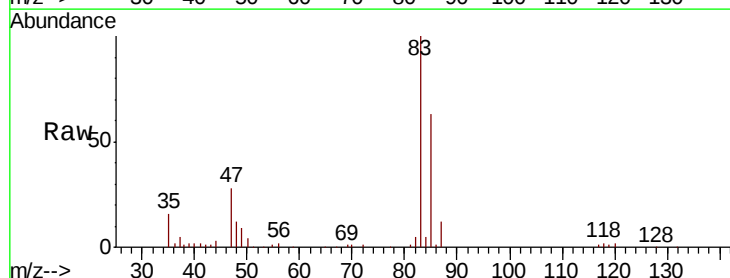
Acq: 27 Dec 2018 13:18

Tgt Ion: 83 Resp: 103830

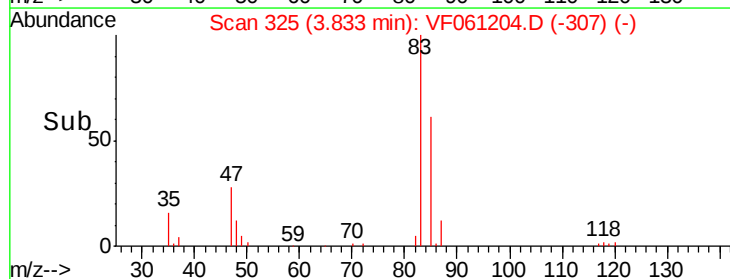
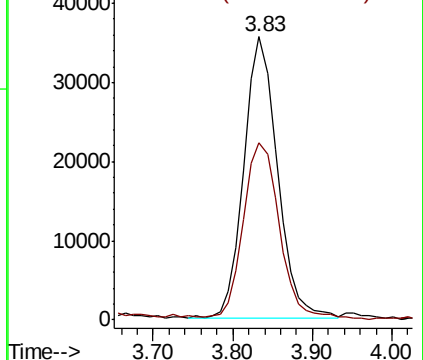
Ion Ratio Lower Upper

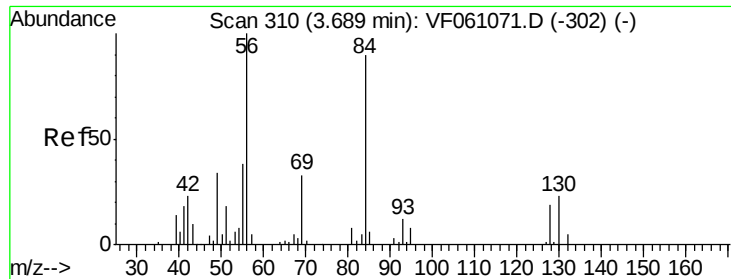
83 100

85 62.7 54.5 81.7



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

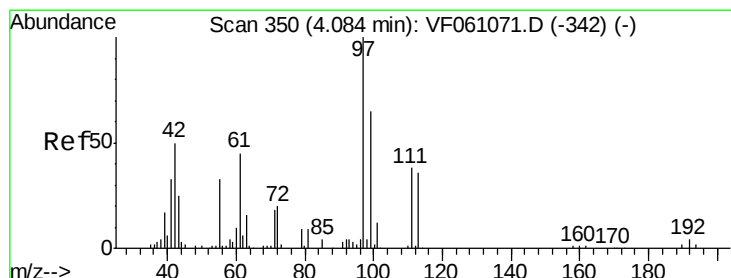
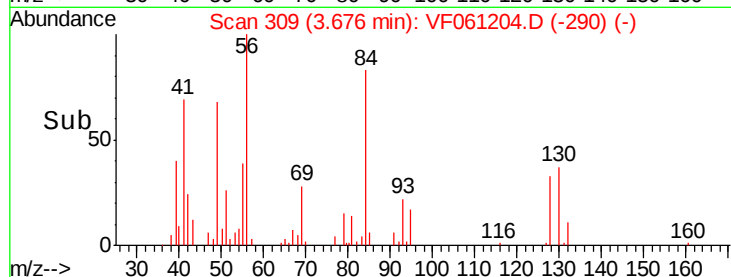
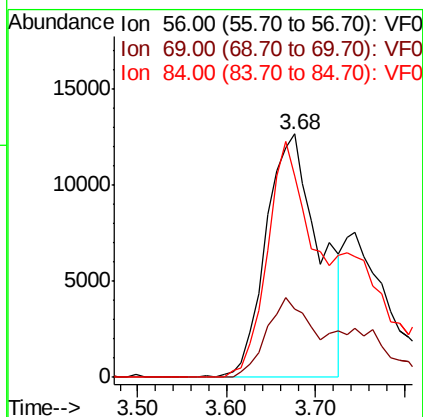
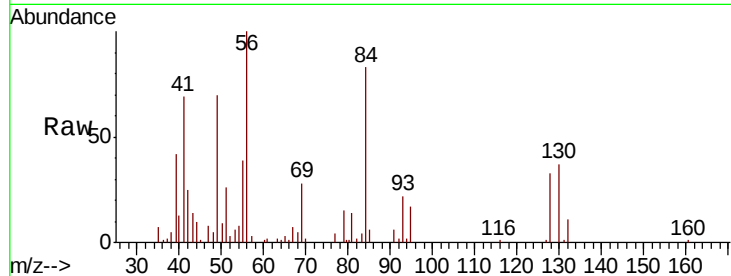




#31
Cyclohexane
Concen: 15.310 ug/l
RT: 3.68 min Scan# 309
Delta R.T. -0.01 min
Lab File: VF061204.D
Acq: 27 Dec 2018 13:18

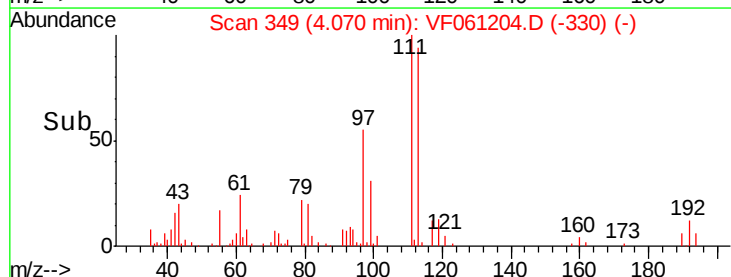
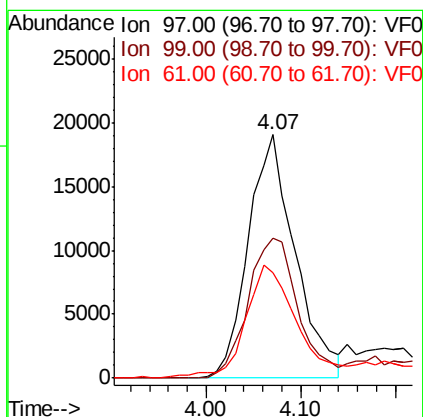
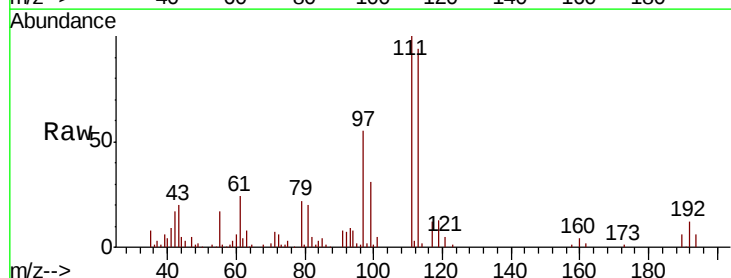
Instrument :
MSVOA_F
ClientSampleId :
VF1227SBS01

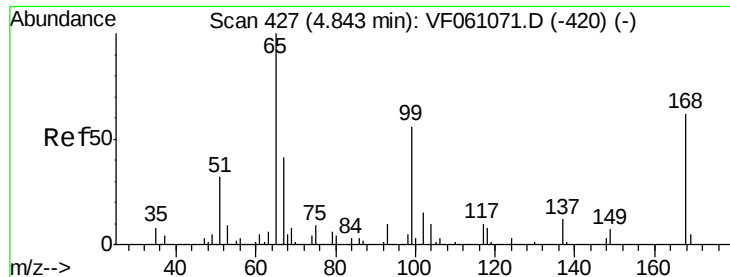
Tot Ion: 56 Resp: 52899
Ion Ratio Lower Upper
56 100
69 27.9 26.0 39.0
84 82.7 71.4 107.2



#32
1,1,1-Trichloroethane
Concen: 21.972 ug/l
RT: 4.07 min Scan# 349
Delta R.T. -0.01 min
Lab File: VF061204.D
Acq: 27 Dec 2018 13:18

Tgt Ion: 97 Resp: 65755
Ion Ratio Lower Upper
97 100
99 57.2 51.6 77.4
61 43.5 36.2 54.2

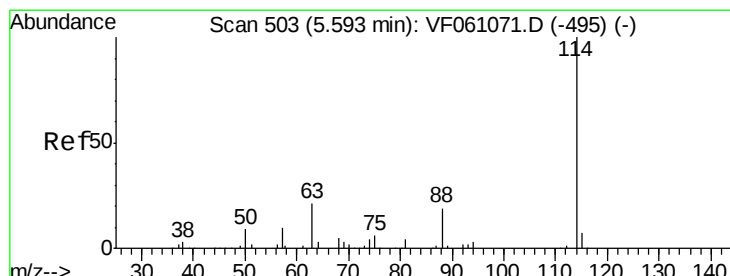
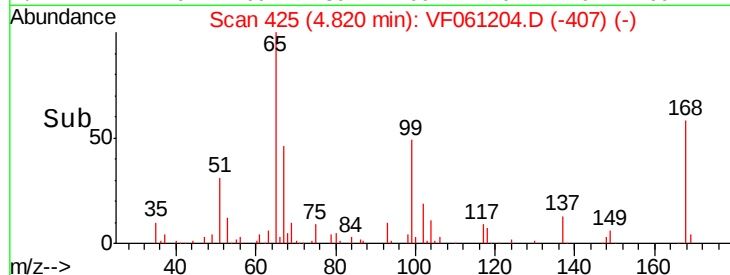
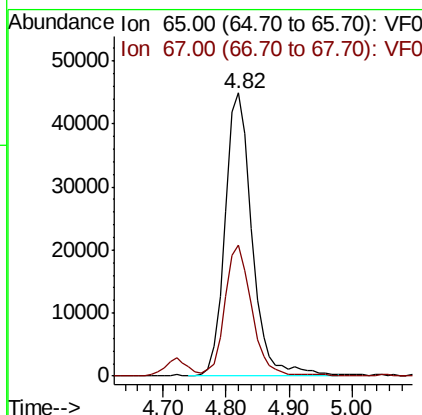
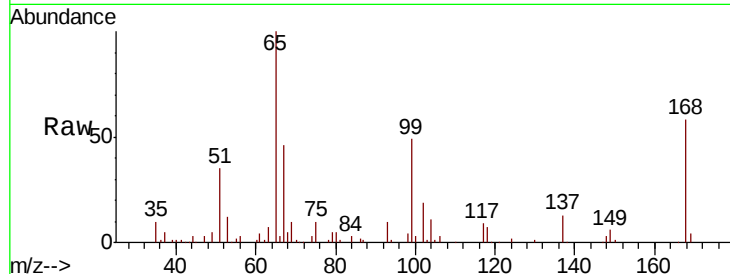




#33
 1,2-Dichloroethane-d4
 Concen: 56.330 ug/l
 RT: 4.82 min Scan# 425
 Delta R.T. -0.02 min
 Lab File: VF061204.D
 Acq: 27 Dec 2018 13:18

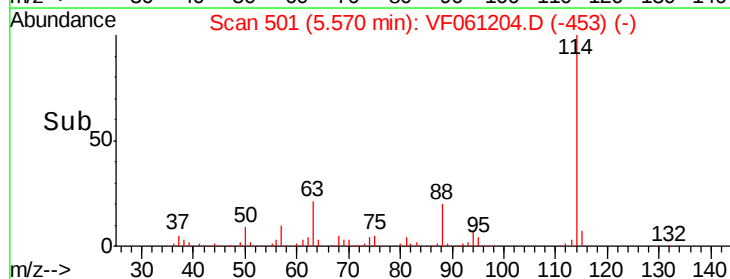
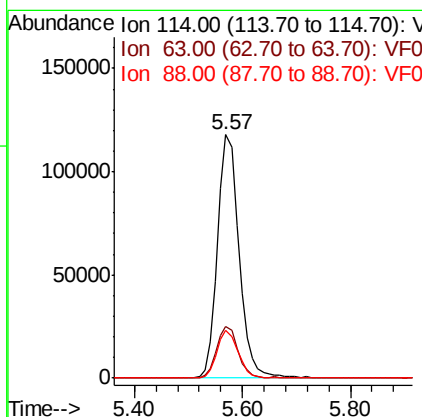
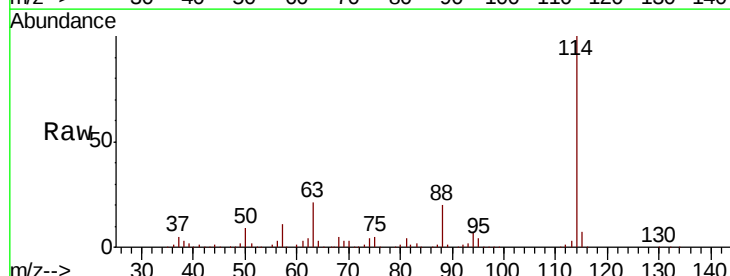
Instrument :
 MSVOA_F
 ClientSampleId :
 VF1227SBS01

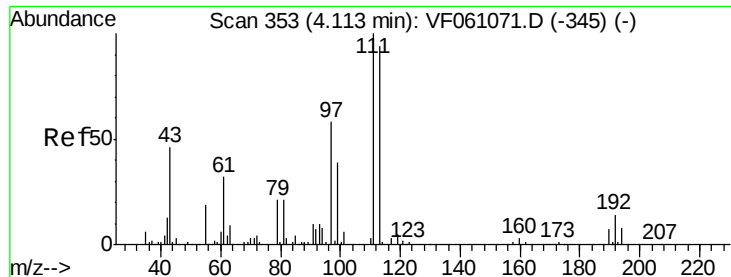
Tot Ion: 65 Resp: 133252
 Ion Ratio Lower Upper
 65 100
 67 46.2 0.0 94.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.57 min Scan# 501
 Delta R.T. -0.02 min
 Lab File: VF061204.D
 Acq: 27 Dec 2018 13:18

Tgt Ion: 114 Resp: 326719
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 41.6
 88 19.8 0.0 38.0

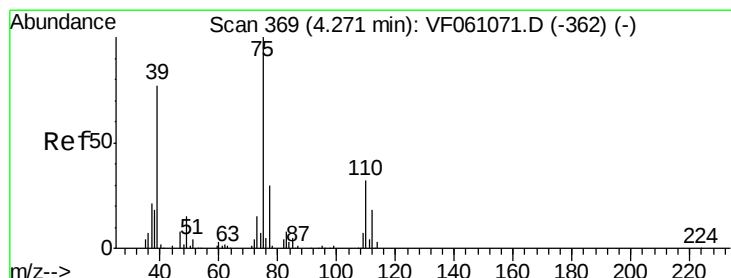
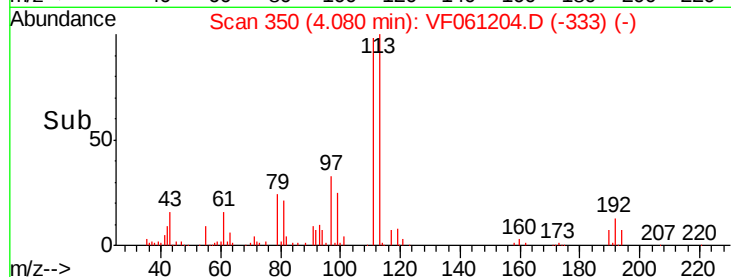
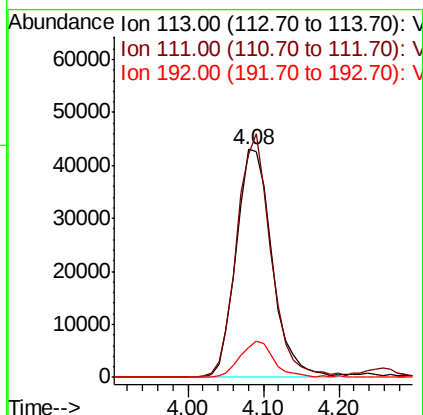
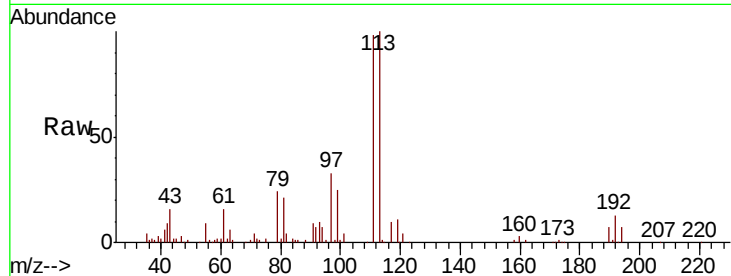




#35
 Dibromofluoromethane
 Concen: 54.405 ug/l
 RT: 4.08 min Scan# 350
 Delta R.T. -0.03 min
 Lab File: VF061204.D
 Acq: 27 Dec 2018 13:18

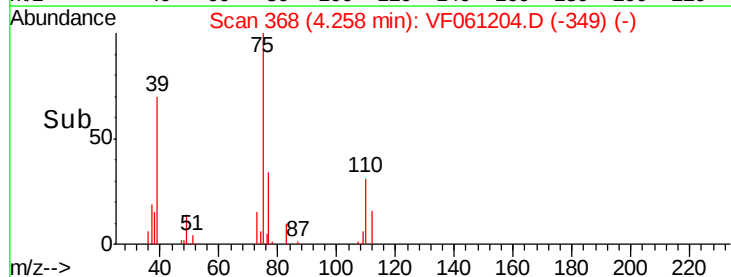
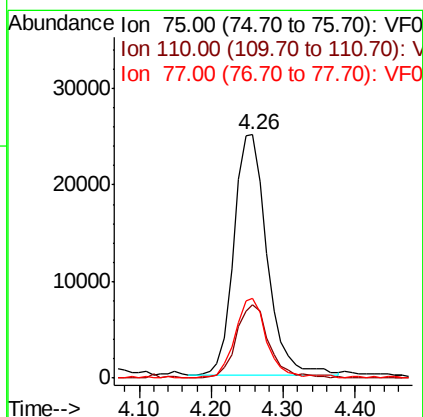
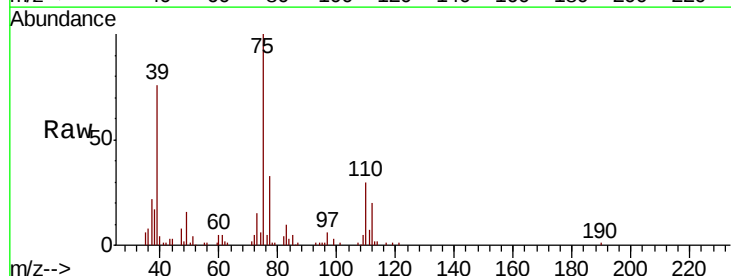
Instrument :
 MSVOA_F
 ClientSampleId :
 VF1227SBS01

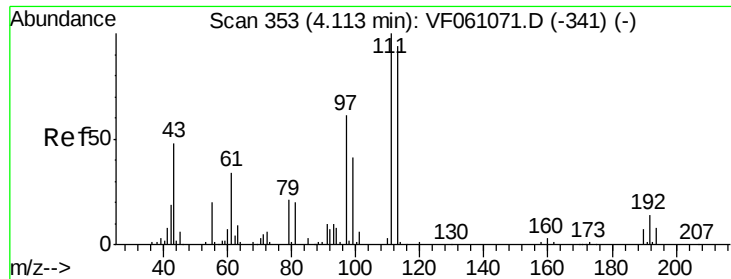
Tot Ion:113 Resp: 142388
 Ion Ratio Lower Upper
 113 100
 111 97.9 85.2 127.8
 192 13.1 12.8 19.2



#36
 1,1-Dichloropropene
 Concen: 20.354 ug/l
 RT: 4.26 min Scan# 368
 Delta R.T. -0.01 min
 Lab File: VF061204.D
 Acq: 27 Dec 2018 13:18

Tgt Ion: 75 Resp: 80272
 Ion Ratio Lower Upper
 75 100
 110 30.1 16.1 48.2
 77 33.0 24.5 36.7

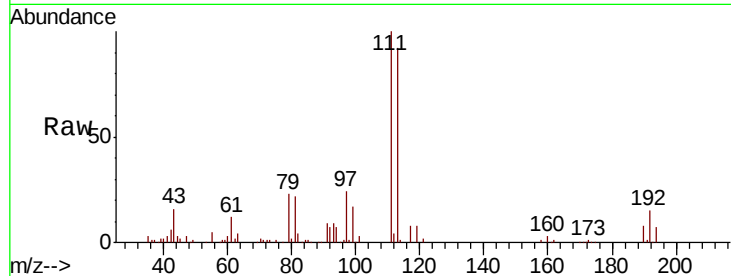




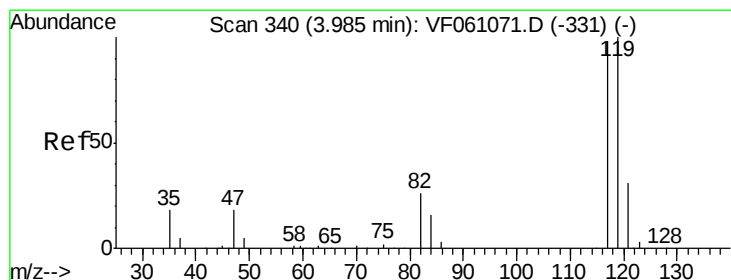
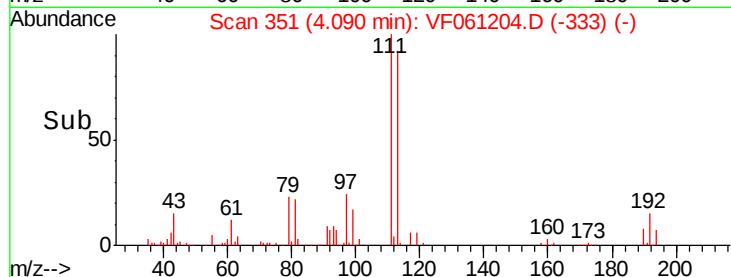
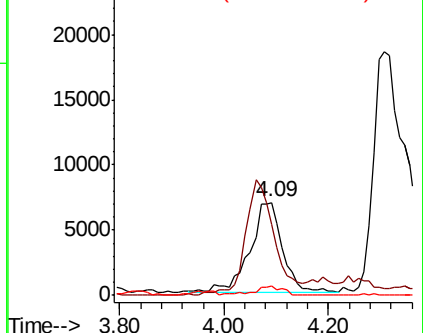
#37
Ethyl Acetate
Concen: 17.144 ug/l
RT: 4.09 min Scan# 351
Delta R.T. -0.02 min
Lab File: VF061204.D
Acq: 27 Dec 2018 13:18

Instrument :
MSVOA_F
ClientSampleId :
VF1227SBS01

Tot Ion: 43 Resp: 29458
Ion Ratio Lower Upper
43 100
61 76.6 56.6 84.8
70 9.7 6.3 9.5#

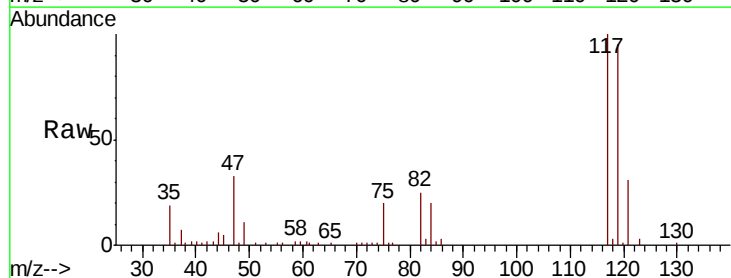


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0

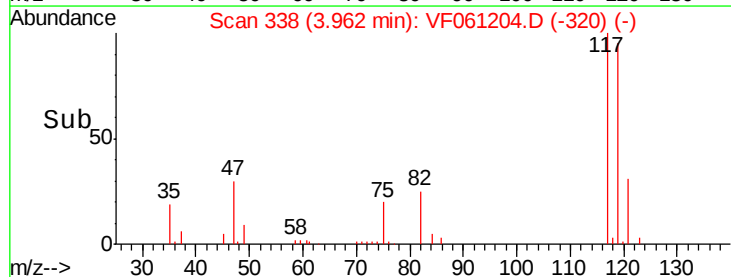
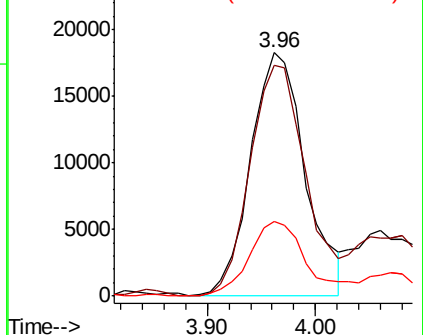


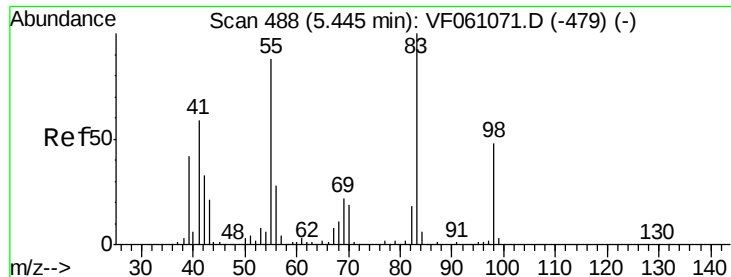
#38
Carbon Tetrachloride
Concen: 21.393 ug/l
RT: 3.96 min Scan# 338
Delta R.T. -0.02 min
Lab File: VF061204.D
Acq: 27 Dec 2018 13:18

Tgt Ion: 117 Resp: 64249
Ion Ratio Lower Upper
117 100
119 95.0 82.1 123.1
121 30.7 25.5 38.3



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

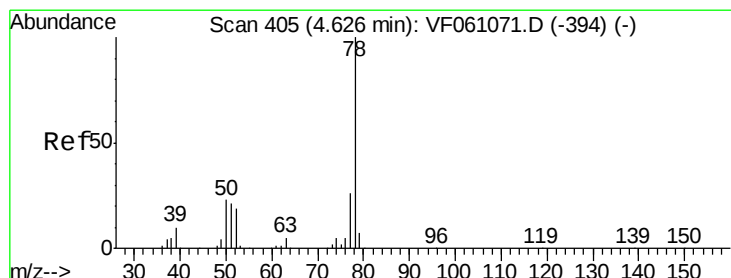
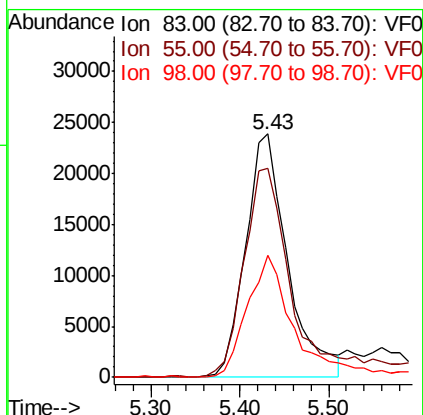
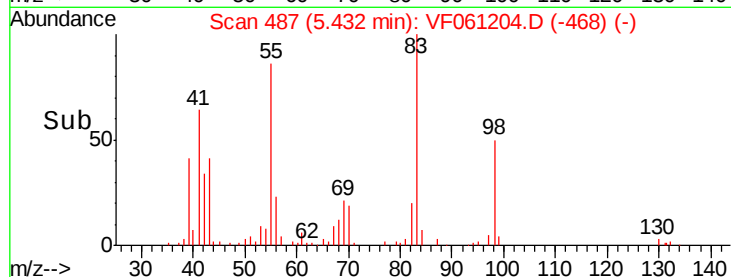
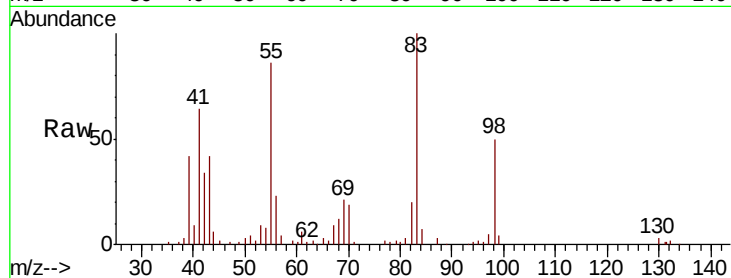




#39
Methylcyclohexane
Concen: 22.077 ug/l
RT: 5.43 min Scan# 487
Delta R.T. -0.01 min
Lab File: VF061204.D
Acq: 27 Dec 2018 13:18

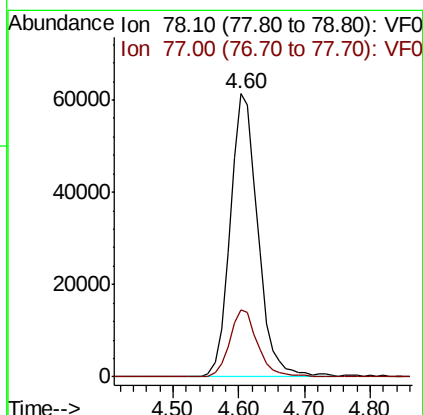
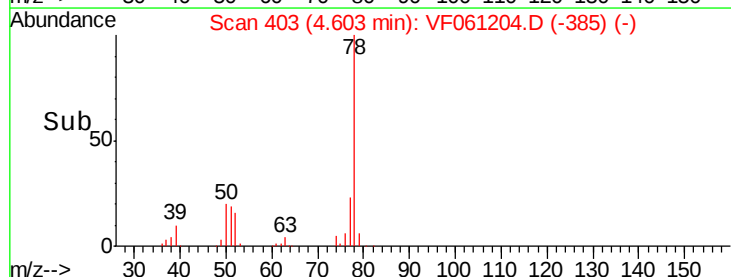
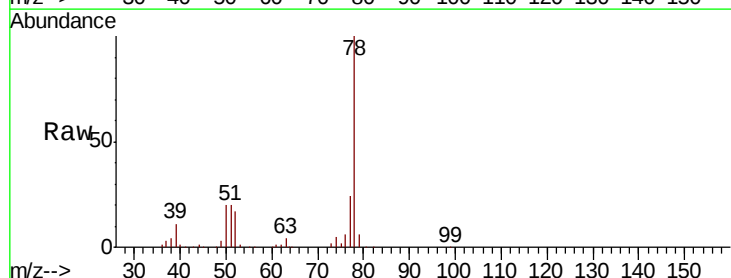
Instrument :
MSVOA_F
ClientSampleId :
VF1227SBS01

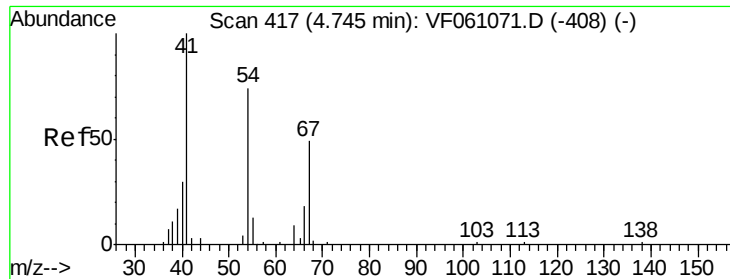
Tot Ion: 83 Resp: 78110
Ion Ratio Lower Upper
83 100
55 86.0 70.6 105.8
98 50.2 38.5 57.7



#40
Benzene
Concen: 21.369 ug/l
RT: 4.60 min Scan# 403
Delta R.T. -0.02 min
Lab File: VF061204.D
Acq: 27 Dec 2018 13:18

Tgt Ion: 78 Resp: 181232
Ion Ratio Lower Upper
78 100
77 23.8 20.7 31.1

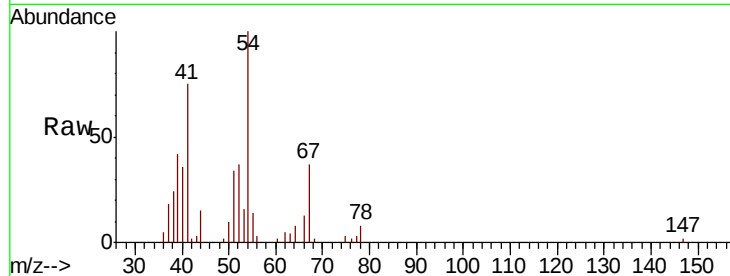




#41
Methacrylonitrile
Concen: 19.220 ug/l
RT: 4.71 min Scan# 414
Delta R.T. -0.03 min
Lab File: VF061204.D
Acq: 27 Dec 2018 13:18

Instrument :
MSVOA_F
ClientSampleId :
VF1227SBS01

Tot Ion:	41	Resp:	16008
Ion	Ratio	Lower	Upper
41	100		
39	56.2	45.7	68.5
67	49.1	38.9	58.3
52	49.8	35.2	52.8



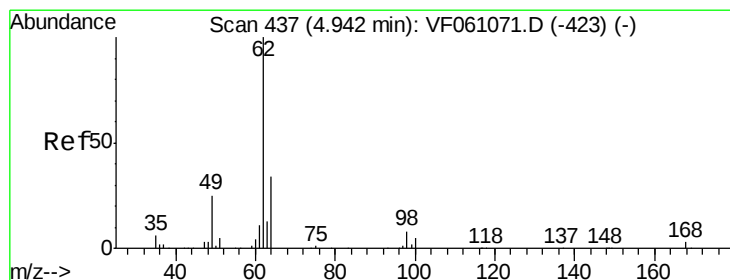
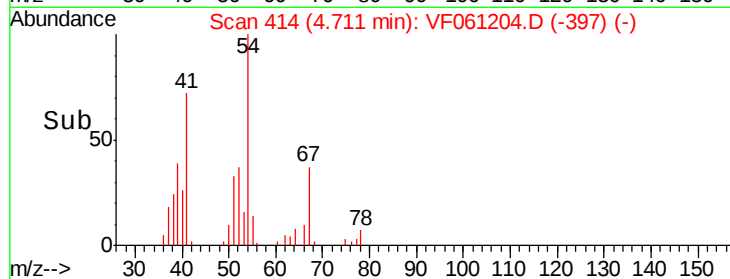
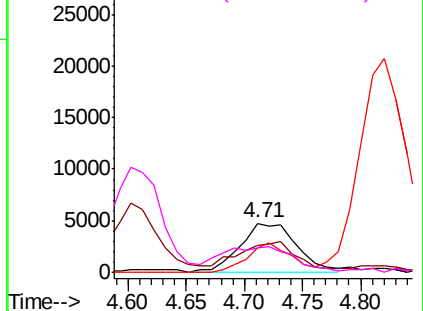
Abundance

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

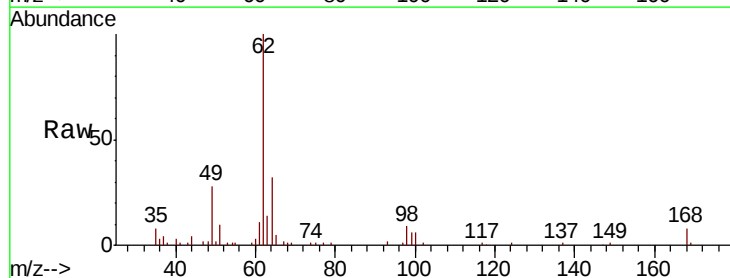
Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42
1,2-Dichloroethane
Concen: 19.445 ug/l
RT: 4.92 min Scan# 435
Delta R.T. -0.02 min
Lab File: VF061204.D
Acq: 27 Dec 2018 13:18

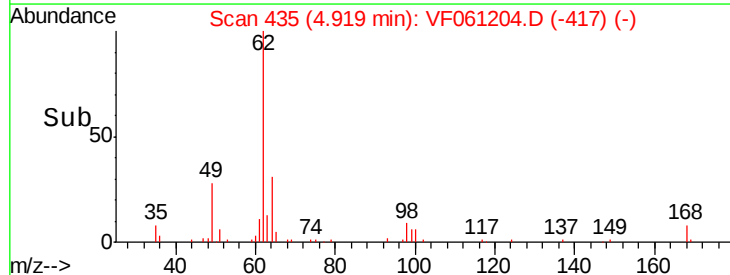
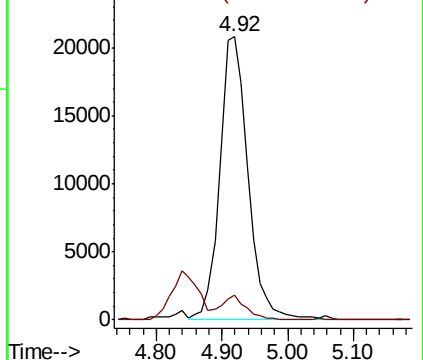
Tgt Ion:	62	Resp:	62647
Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	16.6

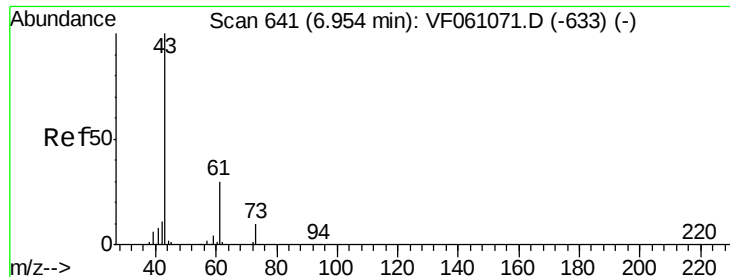


Abundance

Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



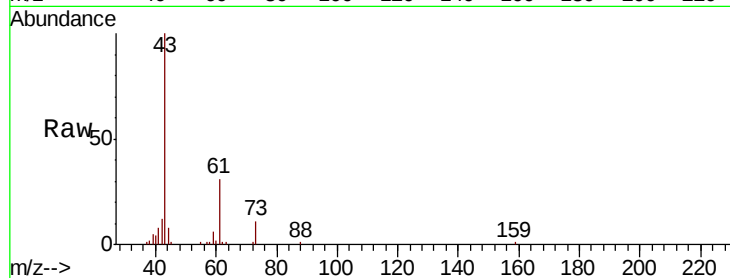


#43

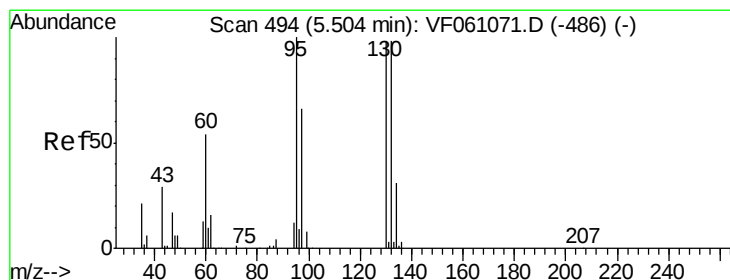
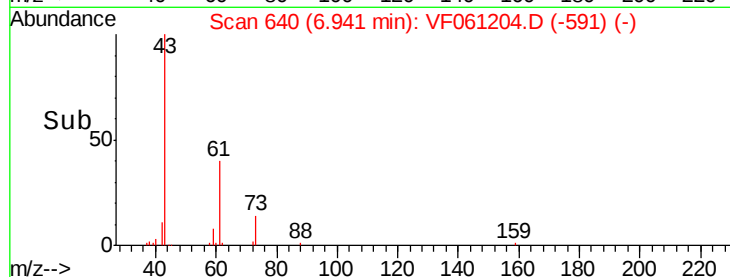
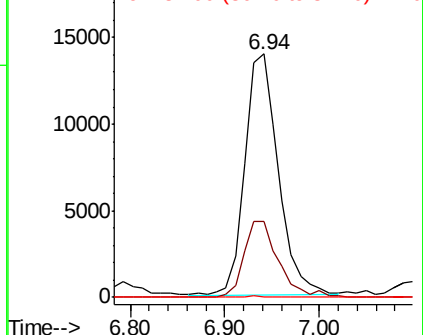
Isopropyl Acetate
 Concen: 17.933 ug/l
 RT: 6.94 min Scan# 640
 Delta R.T. -0.01 min
 Lab File: VF061204.D
 Acq: 27 Dec 2018 13:18

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1227SBS01

Tot Ion: 43 Resp: 34148
 Ion Ratio Lower Upper
 43 100
 61 31.0 23.8 35.8
 87 0.0 0.0 0.0



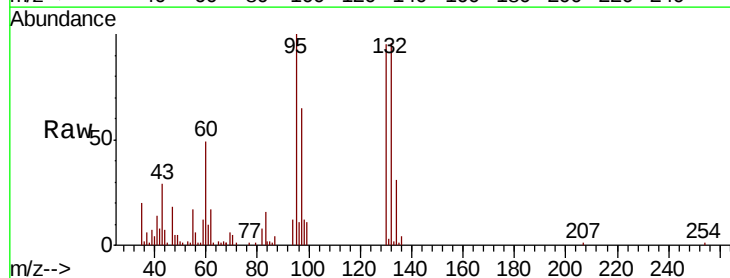
Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



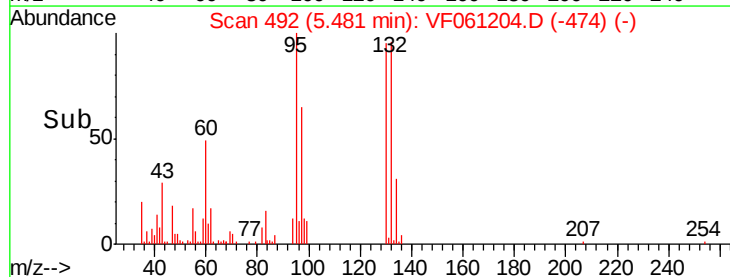
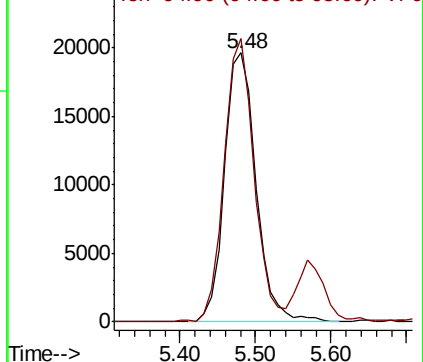
#44

Trichloroethene
 Concen: 21.115 ug/l
 RT: 5.48 min Scan# 492
 Delta R.T. -0.02 min
 Lab File: VF061204.D
 Acq: 27 Dec 2018 13:18

Tgt Ion:130 Resp: 56458
 Ion Ratio Lower Upper
 130 100
 95 105.2 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: 20.117 ug/l

RT: 6.21 min Scan# 566

Delta R.T. -0.02 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

Instrument :

MSVOA_F

ClientSampleId :

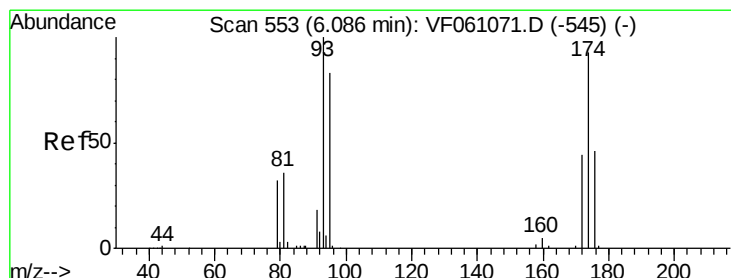
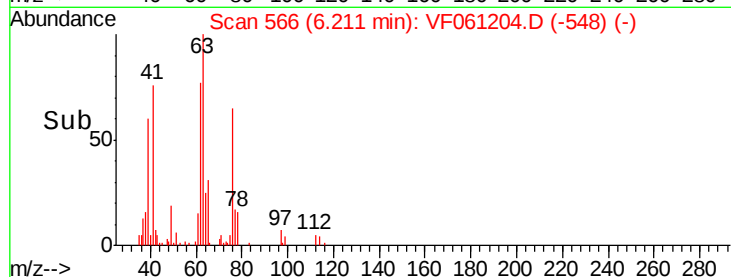
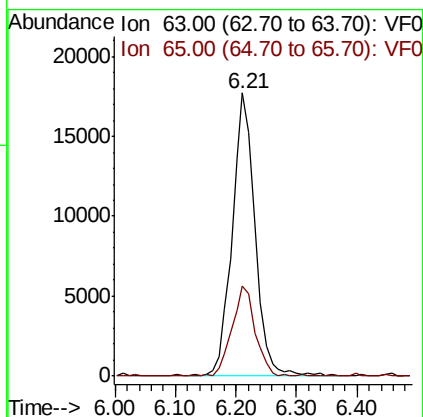
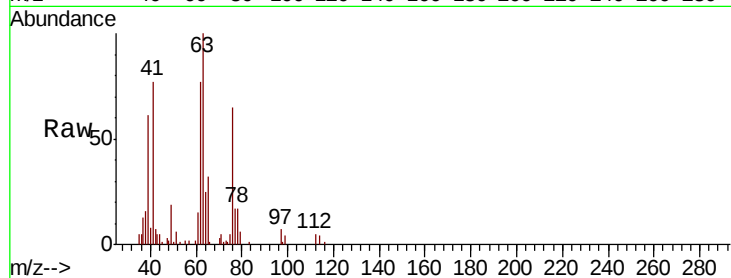
VF1227SBS01

Tot Ion: 63 Resp: 46417

Ion Ratio Lower Upper

63 100

65 31.8 24.4 36.6



#46

Dibromomethane

Concen: 19.878 ug/l

RT: 6.06 min Scan# 551

Delta R.T. -0.02 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

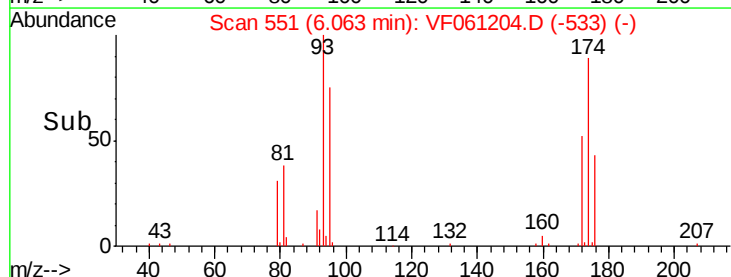
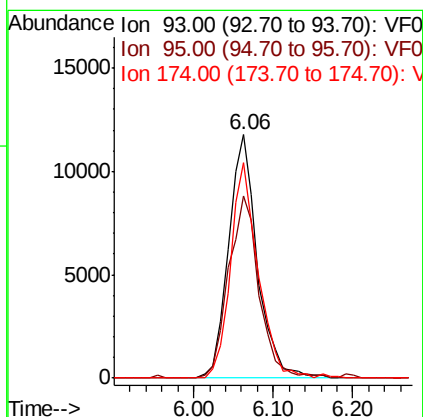
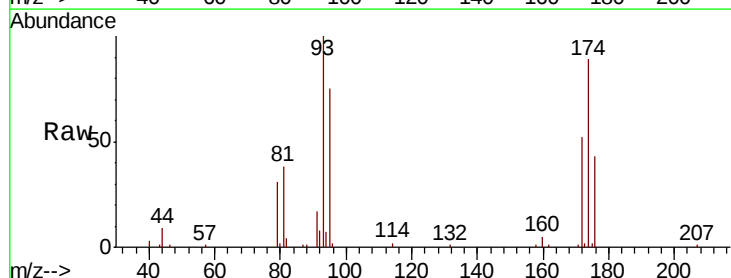
Tgt Ion: 93 Resp: 29748

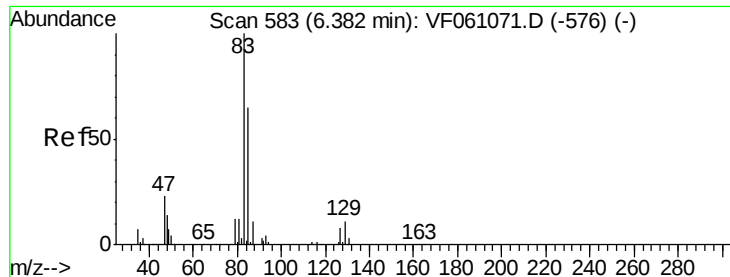
Ion Ratio Lower Upper

93 100

95 74.7 66.9 100.3

174 88.7 74.1 111.1





#47

Bromodichloromethane

Concen: 19.972 ug/l

RT: 6.36 min Scan# 581

Delta R.T. -0.02 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

Instrument :

MSVOA_F

ClientSampleId :

VF1227SBS01

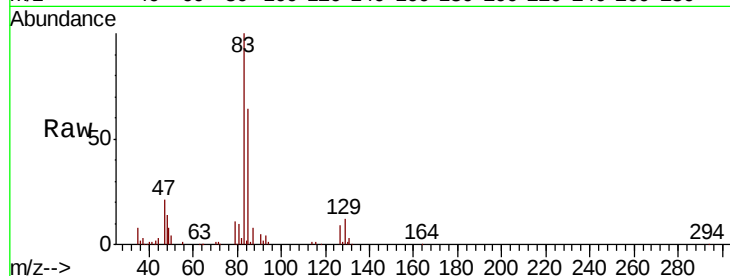
Tot Ion: 83 Resp: 77659

Ion Ratio Lower Upper

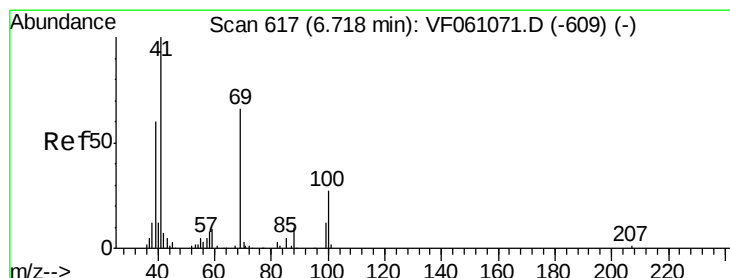
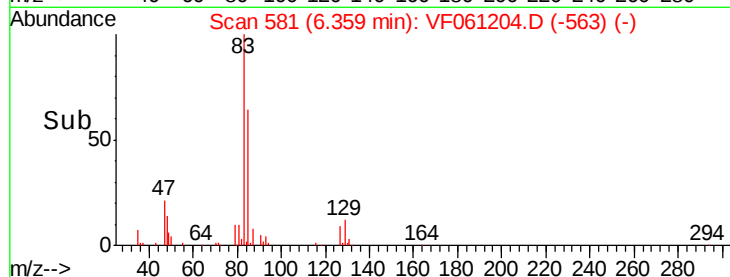
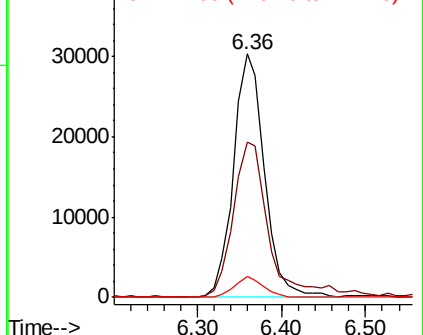
83 100

85 63.8 52.2 78.4

127 8.7 6.1 9.1



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0
Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 17.062 ug/l

RT: 6.69 min Scan# 615

Delta R.T. -0.02 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

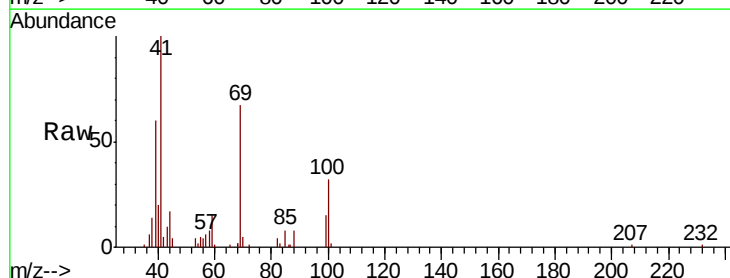
Tgt Ion: 41 Resp: 22681

Ion Ratio Lower Upper

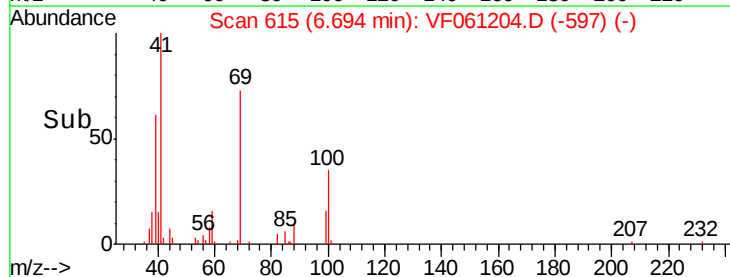
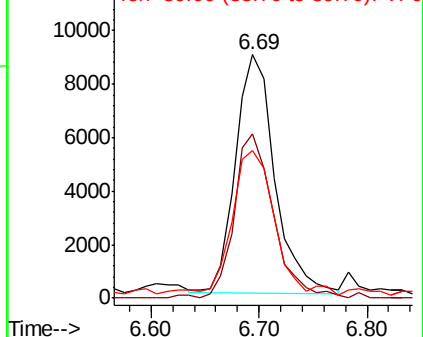
41 100

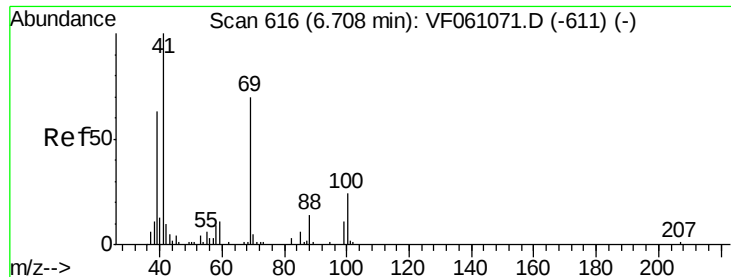
69 67.3 52.7 79.1

39 60.4 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

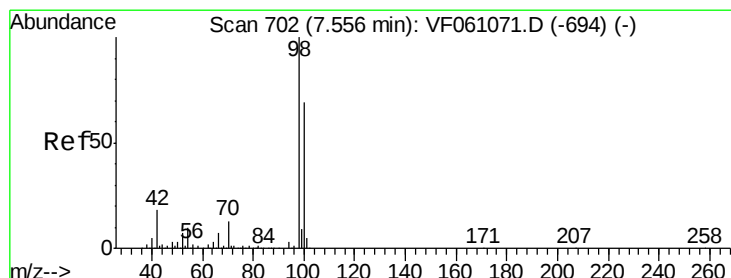
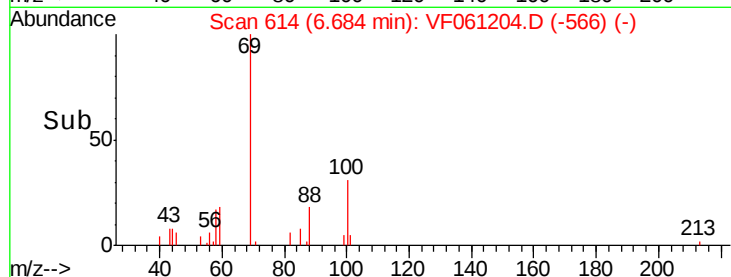
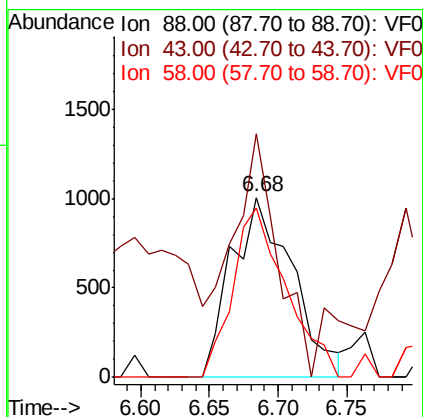
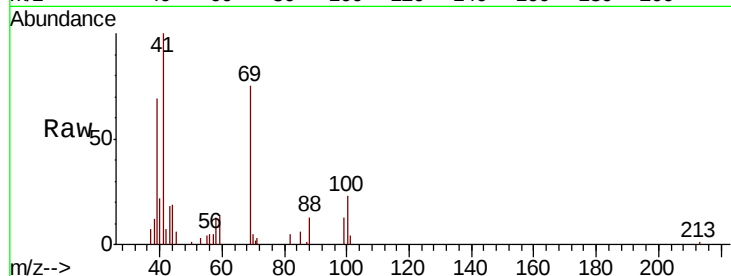




#49
1,4-Dioxane
Concen: 320.452 ug/l
RT: 6.68 min Scan# 614
Delta R.T. -0.02 min
Lab File: VF061204.D
Acq: 27 Dec 2018 13:18

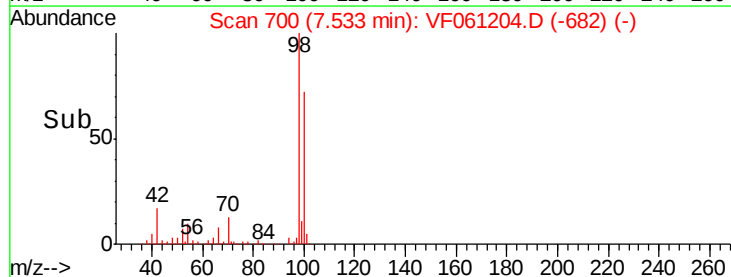
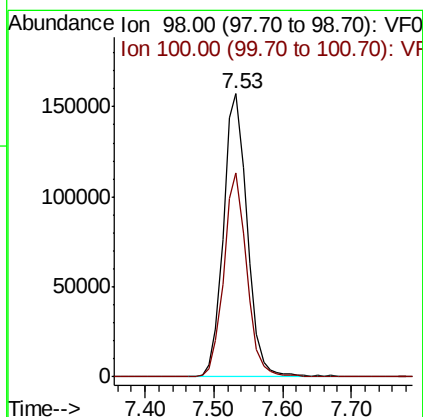
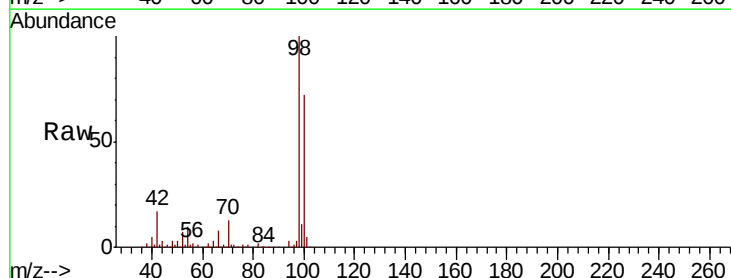
Instrument :
MSVOA_F
ClientSampleId :
VF1227SBS01

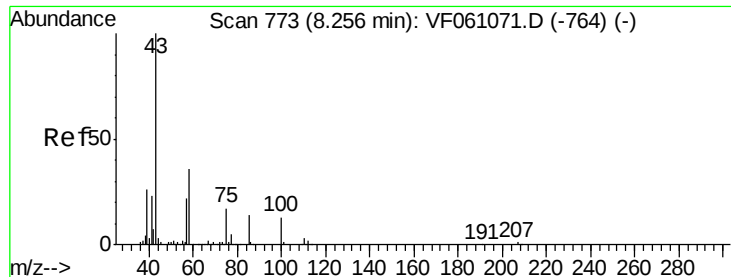
Tot Ion: 88 Resp: 3091
Ion Ratio Lower Upper
88 100
43 135.4 33.3 49.9#
58 94.2 53.2 79.8#



#50
Toluene-d8
Concen: 50.800 ug/l
RT: 7.53 min Scan# 700
Delta R.T. -0.02 min
Lab File: VF061204.D
Acq: 27 Dec 2018 13:18

Tgt Ion: 98 Resp: 376779
Ion Ratio Lower Upper
98 100
100 72.3 55.3 82.9





#51

4-Methyl-2-Pentanone

Concen: 101.833 ug/l

RT: 8.23 min Scan# 771

Delta R.T. -0.02 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

Instrument :

MSVOA_F

ClientSampleId :

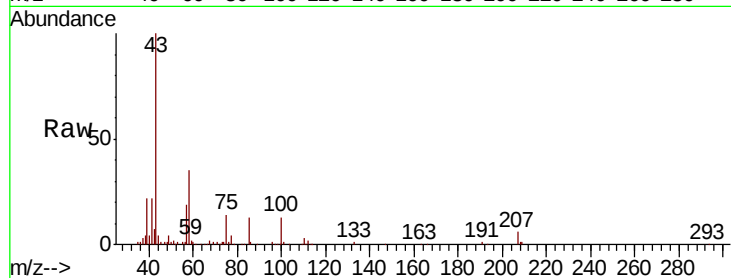
VF1227SBS01

Tot Ion: 43 Resp: 132990

Ion Ratio Lower Upper

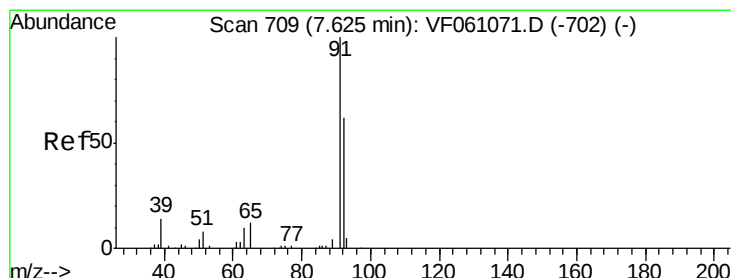
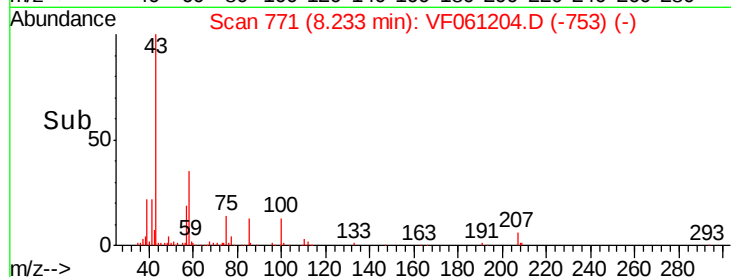
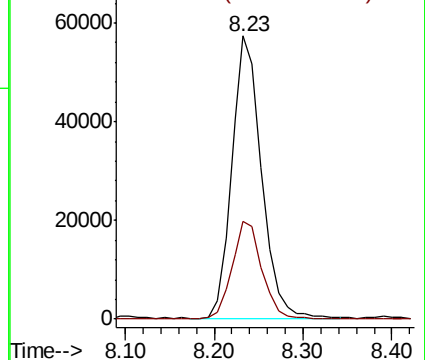
43 100

58 34.6 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: 20.211 ug/l

RT: 7.60 min Scan# 707

Delta R.T. -0.02 min

Lab File: VF061204.D

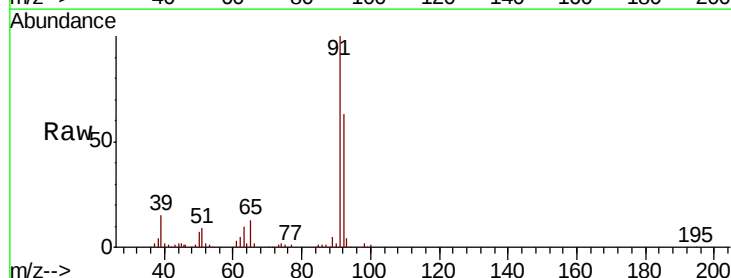
Acq: 27 Dec 2018 13:18

Tgt Ion: 92 Resp: 113465

Ion Ratio Lower Upper

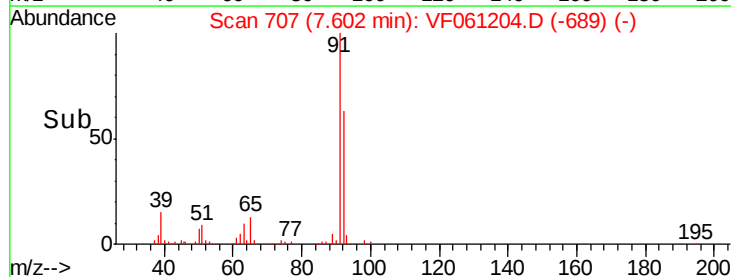
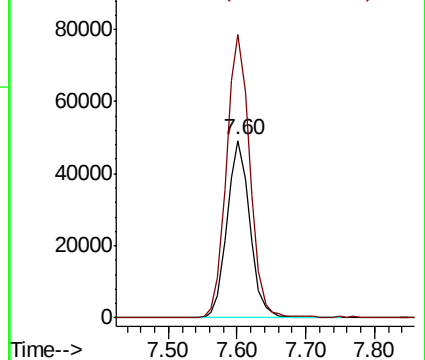
92 100

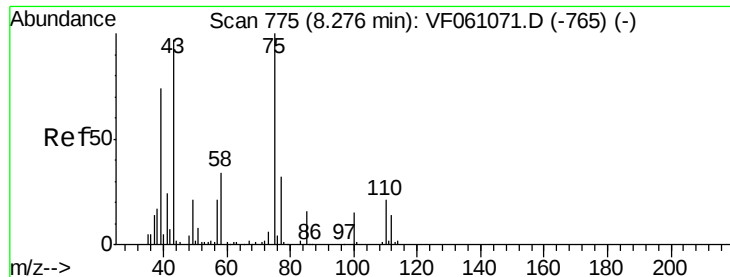
91 159.6 128.8 193.2



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: 18.748 ug/l

RT: 8.25 min Scan# 773

Delta R.T. -0.02 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

Instrument :

MSVOA_F

ClientSampleId :

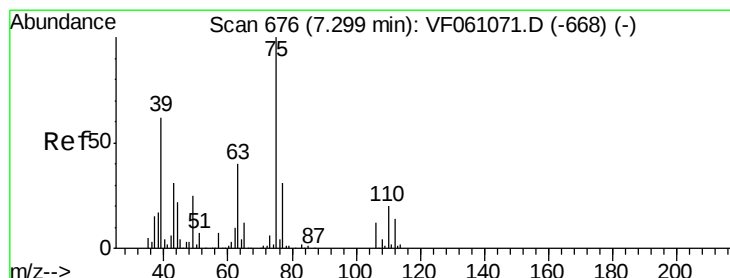
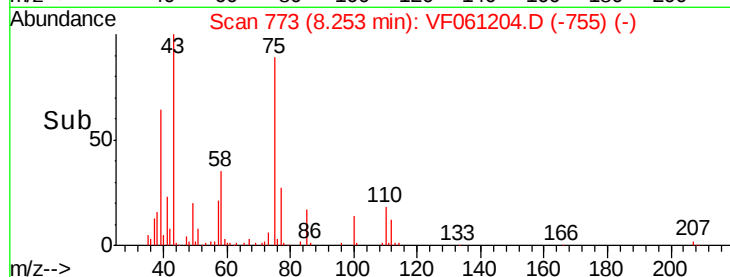
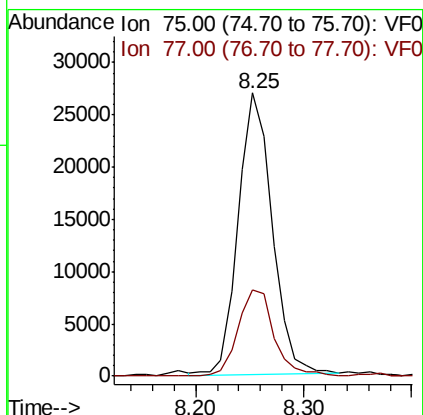
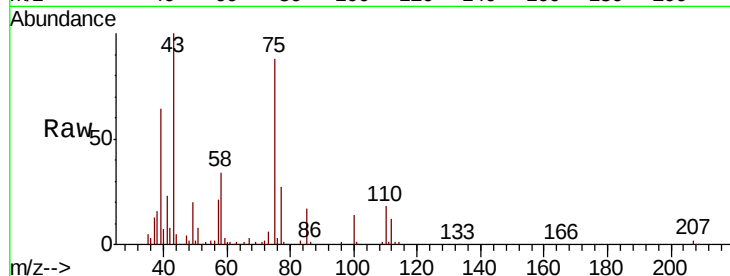
VF1227SBS01

Tot Ion: 75 Resp: 58810

Ion Ratio Lower Upper

75 100

77 30.3 25.8 38.8



#54

cis-1,3-Dichloropropene

Concen: 20.352 ug/l

RT: 7.28 min Scan# 674

Delta R.T. -0.02 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

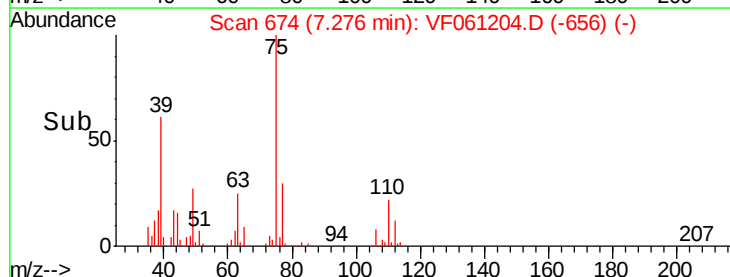
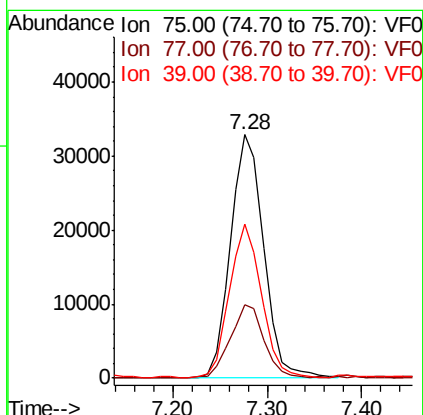
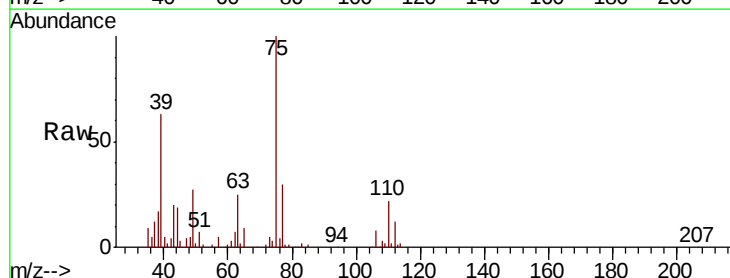
Tgt Ion: 75 Resp: 80124

Ion Ratio Lower Upper

75 100

77 30.3 25.0 37.4

39 63.1 50.1 75.1

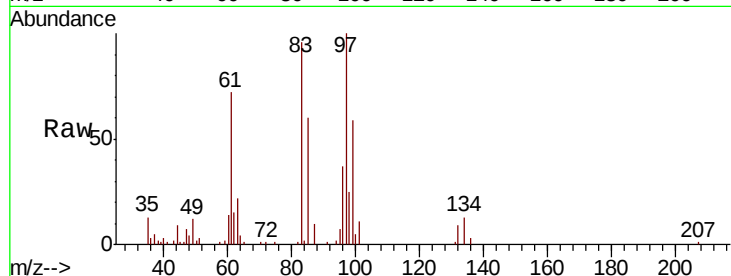




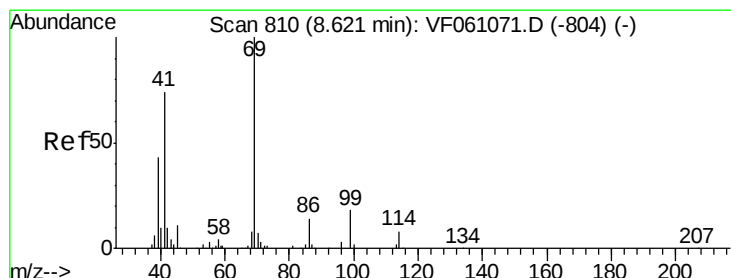
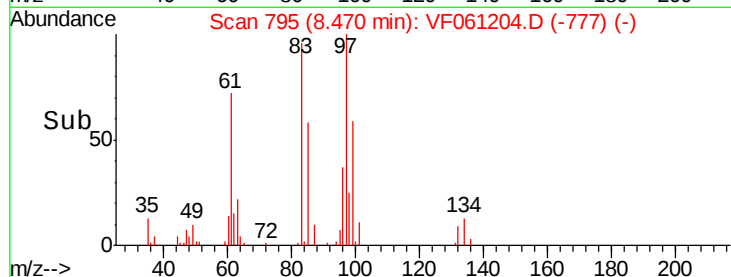
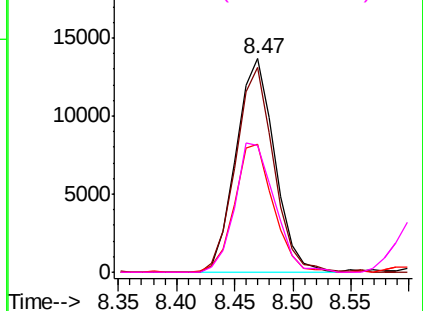
#55
 1,1,2-Trichloroethane
 Concen: 18.751 ug/l
 RT: 8.47 min Scan# 795
 Delta R.T. -0.02 min
 Lab File: VF061204.D
 Acq: 27 Dec 2018 13:18

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1227SBS01

Tot Ion:	97	Resp:	31558
Ion	Ratio	Lower	Upper
97	100		
83	96.2	75.0	112.4
85	59.9	47.5	71.3
99	59.1	51.9	77.9

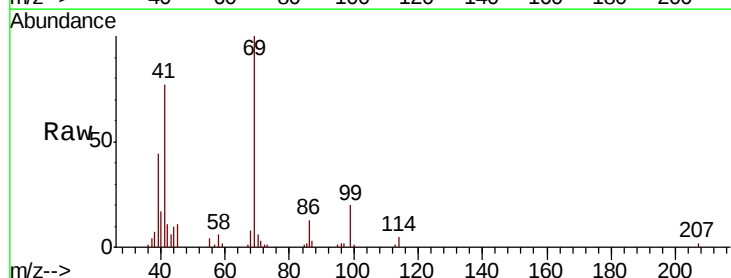


Abundance Ion 97.00 (96.70 to 97.70): VF0
 Ion 82.95 (82.65 to 83.65): VF0
 Ion 84.95 (84.65 to 85.65): VF0
 Ion 98.95 (98.65 to 99.65): VF0

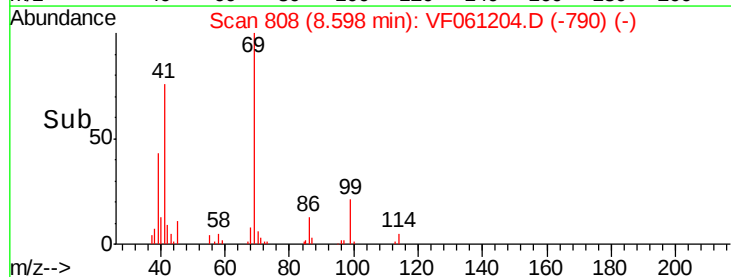
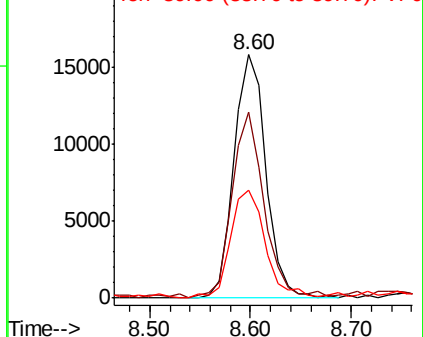


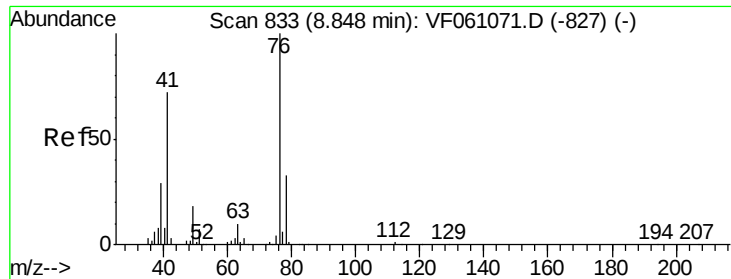
#56
 Ethyl methacrylate
 Concen: 19.182 ug/l
 RT: 8.60 min Scan# 808
 Delta R.T. -0.02 min
 Lab File: VF061204.D
 Acq: 27 Dec 2018 13:18

Tgt Ion:	69	Resp:	34933
Ion	Ratio	Lower	Upper
69	100		
41	76.5	59.7	89.5
39	44.3	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: 19.211 ug/l

RT: 8.82 min Scan# 831

Delta R.T. -0.02 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

Instrument :

MSVOA_F

ClientSampleId :

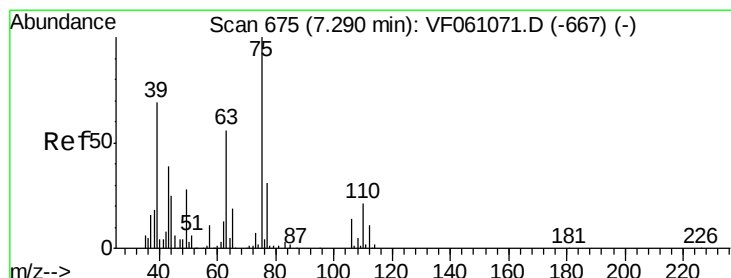
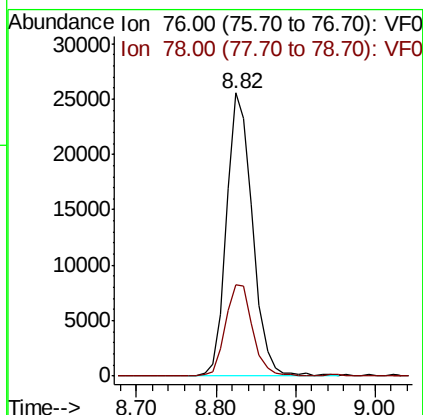
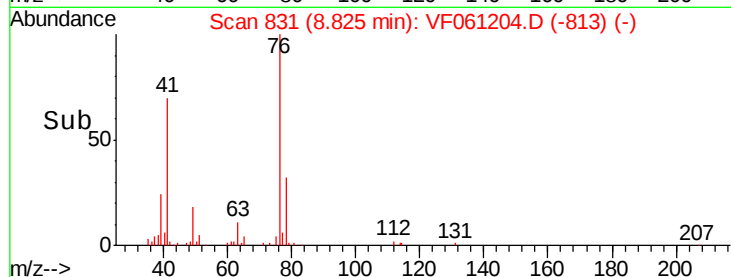
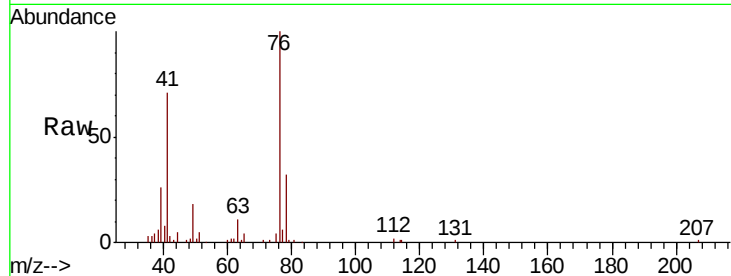
VF1227SBS01

Tot Ion: 76 Resp: 58475

Ion Ratio Lower Upper

76 100

78 32.2 26.5 39.7



#58

2-Chloroethyl Vinyl ether

Concen: 61.016 ug/l

RT: 7.27 min Scan# 673

Delta R.T. -0.02 min

Lab File: VF061204.D

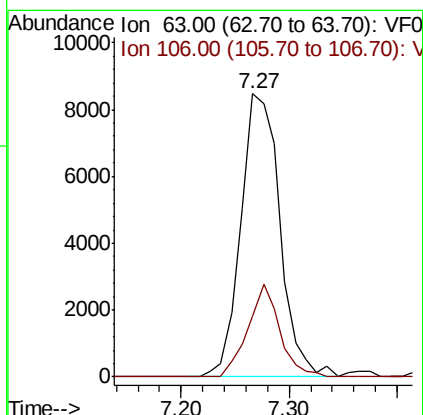
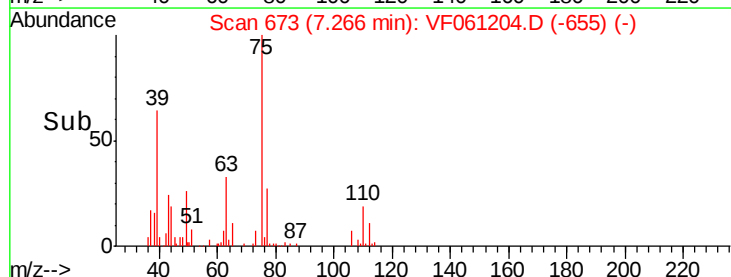
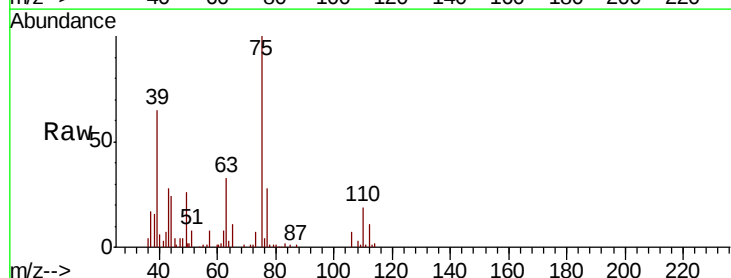
Acq: 27 Dec 2018 13:18

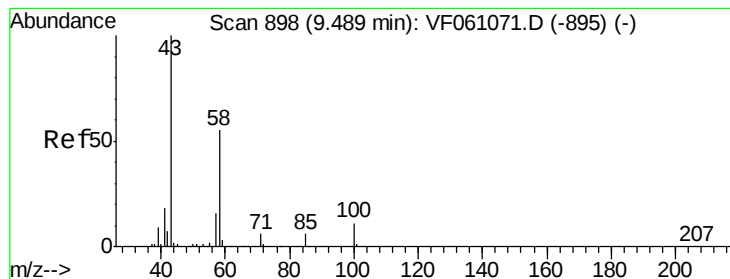
Tgt Ion: 63 Resp: 21341

Ion Ratio Lower Upper

63 100

106 21.2 19.8 29.8





#59

2-Hexanone

Concen: 99.542 ug/l

RT: 9.47 min Scan# 896

Delta R.T. -0.02 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

Instrument :

MSVOA_F

ClientSampleId :

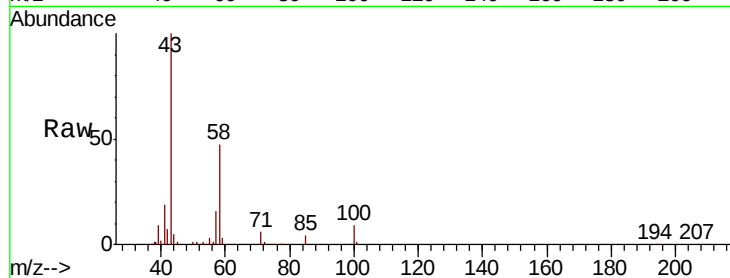
VF1227SBS01

Tot Ion: 43 Resp: 94012

Ion Ratio Lower Upper

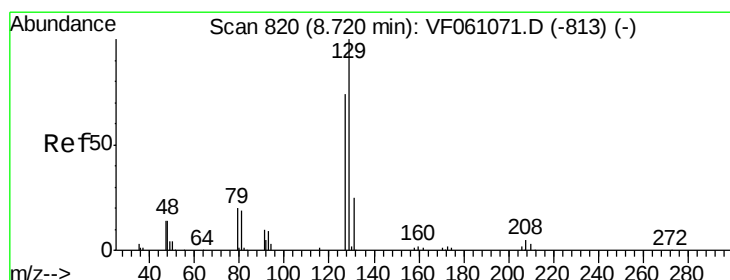
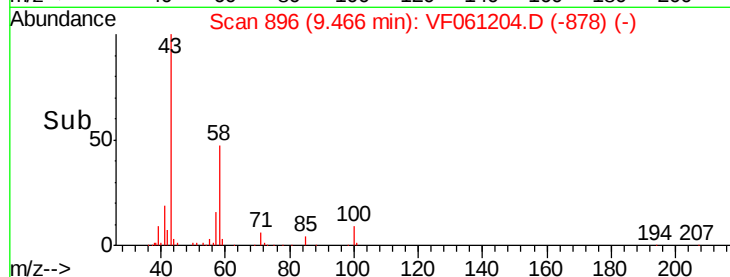
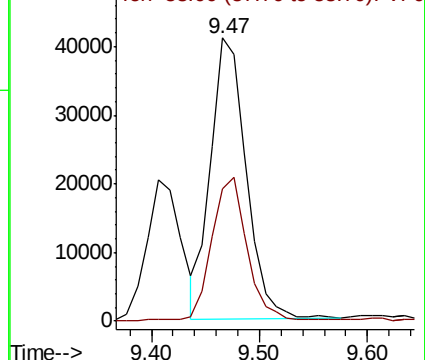
43 100

58 46.9 25.1 75.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#60

Dibromochloromethane

Concen: 19.980 ug/l

RT: 8.70 min Scan# 818

Delta R.T. -0.02 min

Lab File: VF061204.D

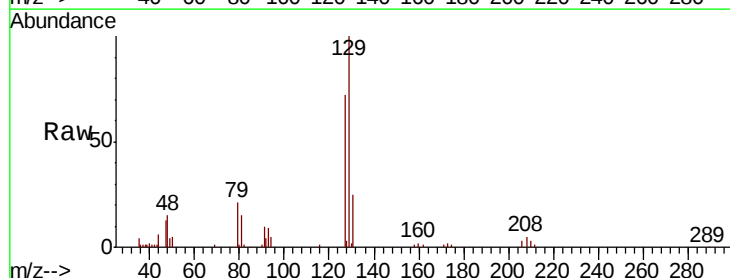
Acq: 27 Dec 2018 13:18

Tgt Ion: 129 Resp: 48202

Ion Ratio Lower Upper

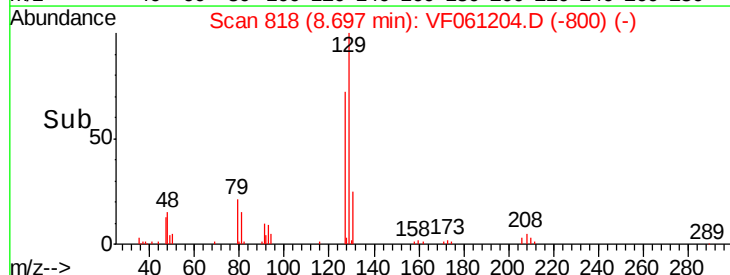
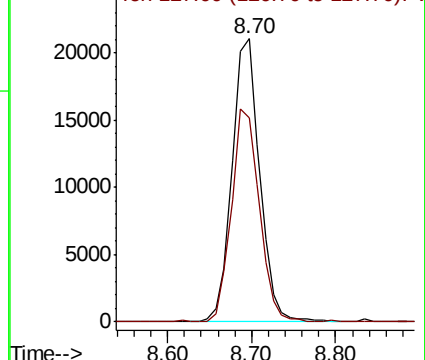
129 100

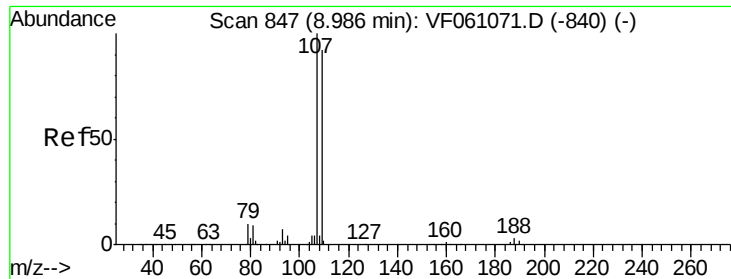
127 71.9 36.8 110.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#61

1,2-Dibromoethane

Concen: 20.301 ug/l

RT: 8.96 min Scan# 845

Delta R.T. -0.02 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

Instrument :

MSVOA_F

ClientSampleId :

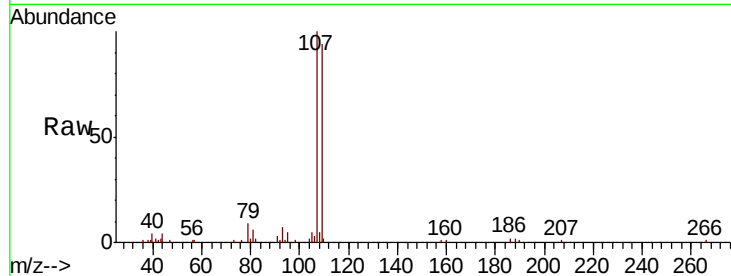
VF1227SBS01

Tot Ion:107 Resp: 36490

Ion Ratio Lower Upper

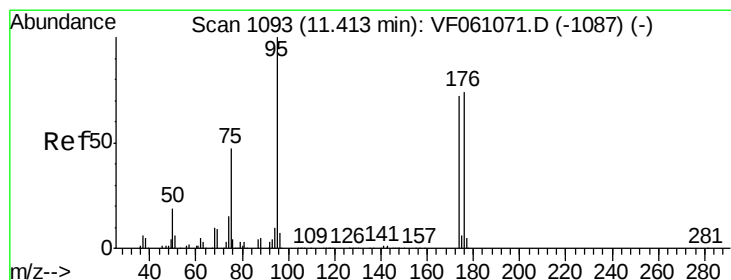
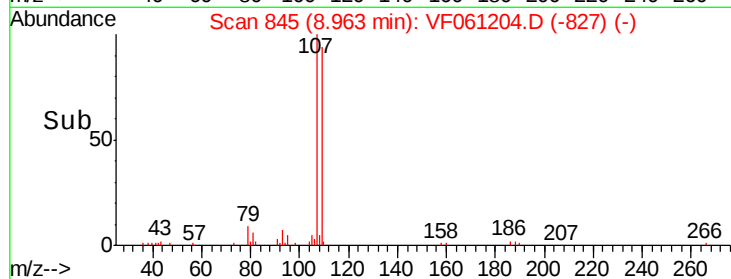
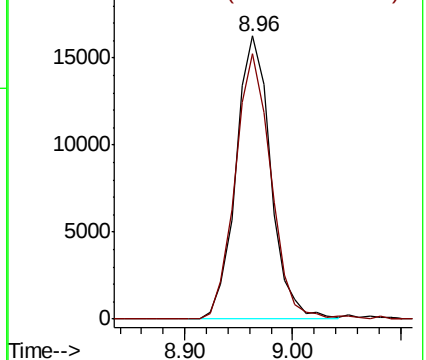
107 100

109 93.9 73.7 110.5



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 52.048 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. -0.02 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

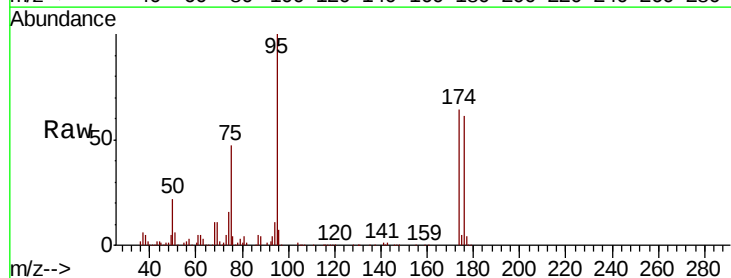
Tgt Ion: 95 Resp: 177966

Ion Ratio Lower Upper

95 100

174 64.1 0.0 143.8

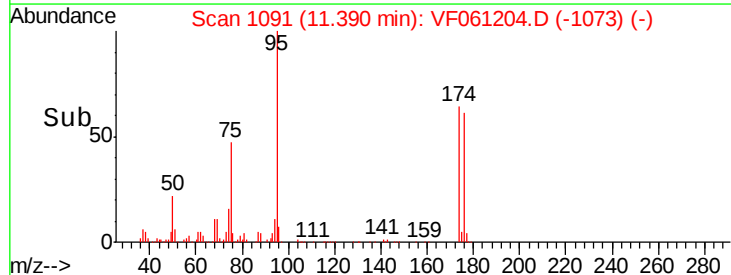
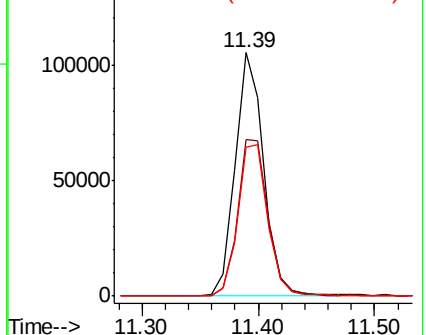
176 61.1 0.0 147.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

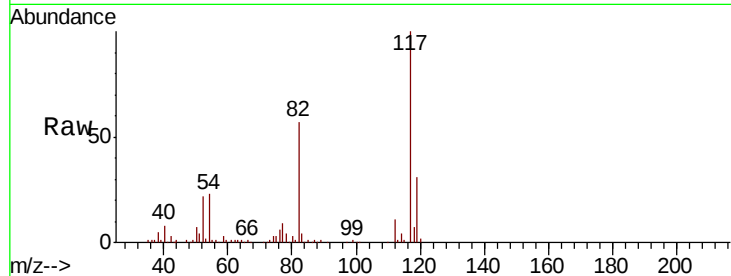




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.75 min Scan# 925
Delta R.T. -0.02 min
Lab File: VF061204.D
Acq: 27 Dec 2018 13:18

Instrument :
MSVOA_F
ClientSampleId :
VF1227SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.7	45.0	67.4
119	31.4	24.8	37.2

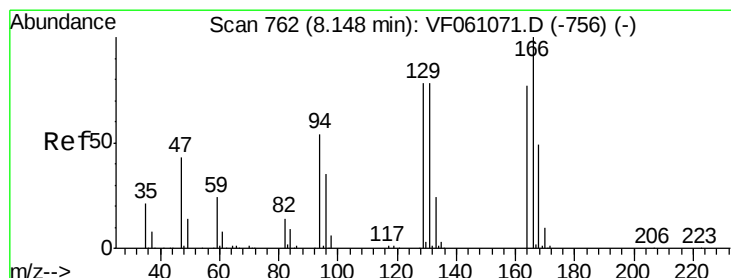
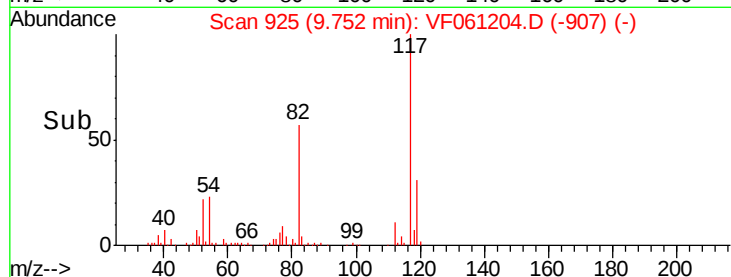
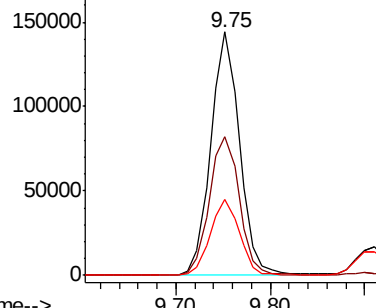


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



#64
Tetrachloroethene
Concen: 19.131 ug/l
RT: 8.12 min Scan# 760
Delta R.T. -0.02 min
Lab File: VF061204.D
Acq: 27 Dec 2018 13:18

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.0	104.0	156.0
129	99.8	81.1	121.7
131	99.0	81.2	121.8

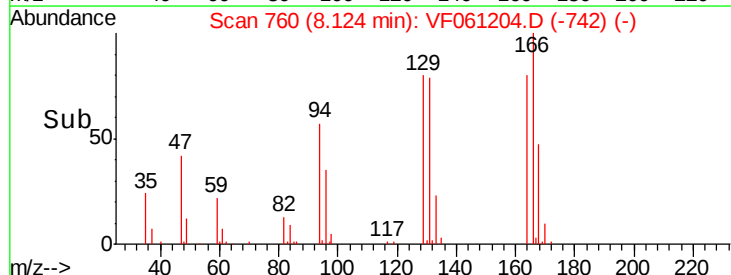
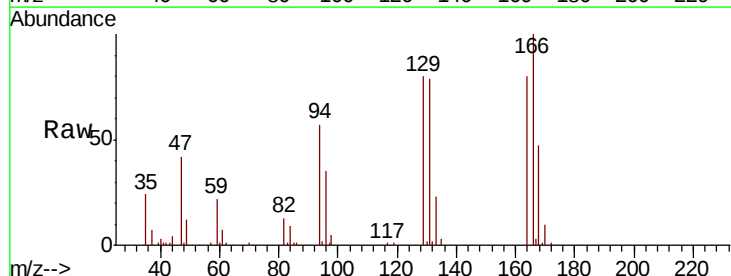
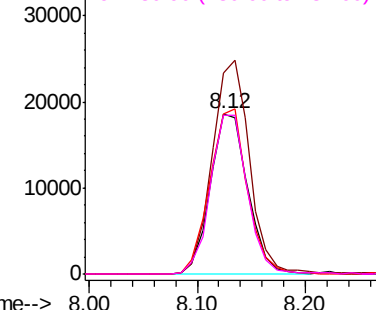
Abundance

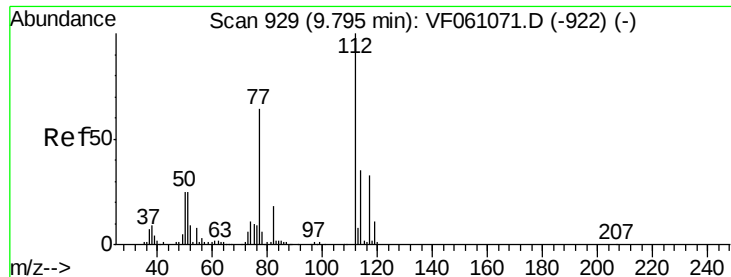
Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V

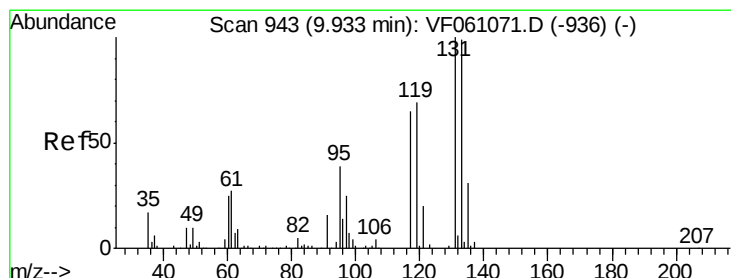
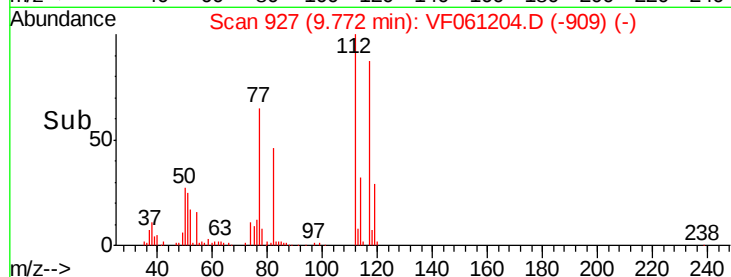
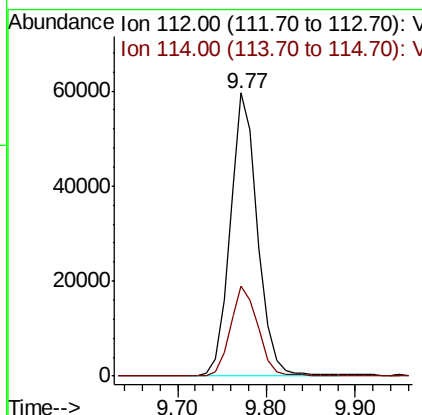
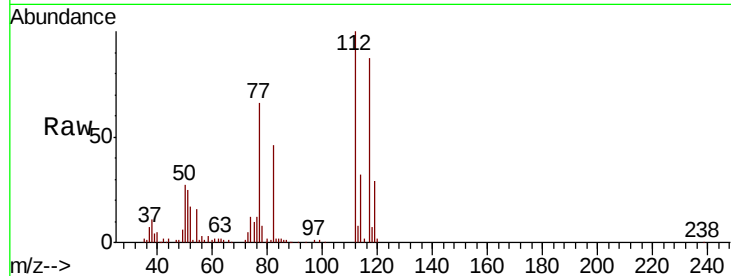




#65
Chlorobenzene
Concen: 20.281 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.02 min
Lab File: VF061204.D
Acq: 27 Dec 2018 13:18

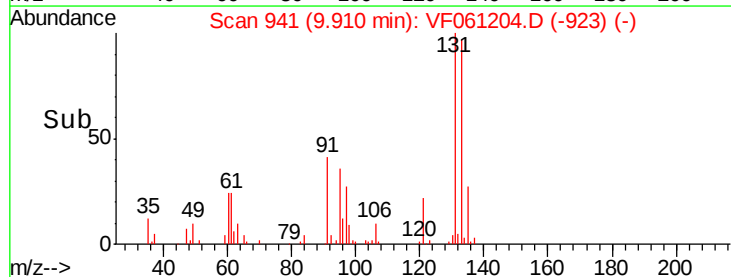
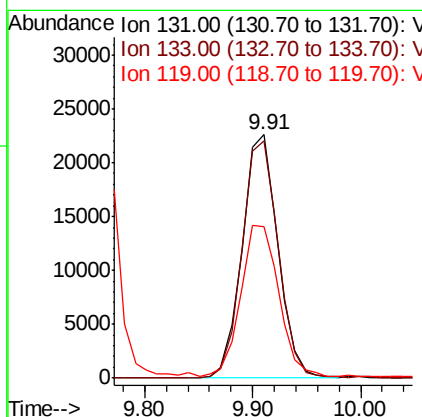
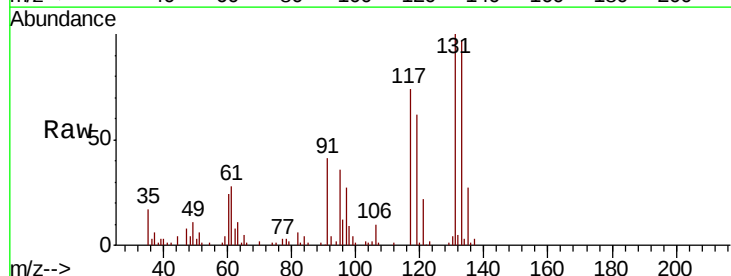
Instrument :
MSVOA_F
ClientSampleId :
VF1227SBS01

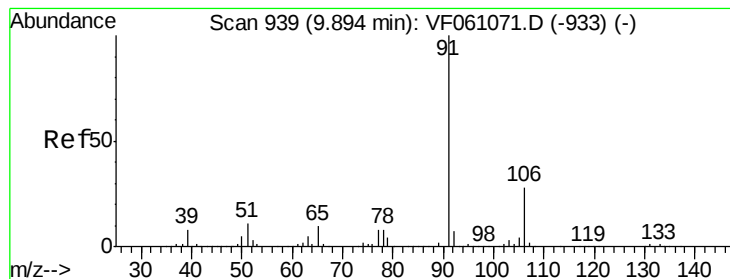
Tot Ion:112 Resp: 127798
Ion Ratio Lower Upper
112 100
114 32.0 27.8 41.6



#66
1,1,1,2-Tetrachloroethane
Concen: 20.202 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.02 min
Lab File: VF061204.D
Acq: 27 Dec 2018 13:18

Tgt Ion:131 Resp: 52022
Ion Ratio Lower Upper
131 100
133 97.5 49.5 148.7
119 62.4 34.5 103.5





#67

Ethyl Benzene

Concen: 20.821 ug/l

RT: 9.88 min Scan# 938

Delta R.T. -0.01 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

Instrument :

MSVOA_F

ClientSampleId :

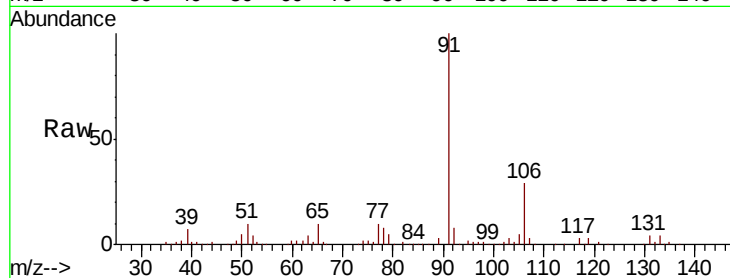
VF1227SBS01

Tot Ion: 91 Resp: 239016

Ion Ratio Lower Upper

91 100

106 29.0 22.5 33.7



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

9.88

120000

100000

80000

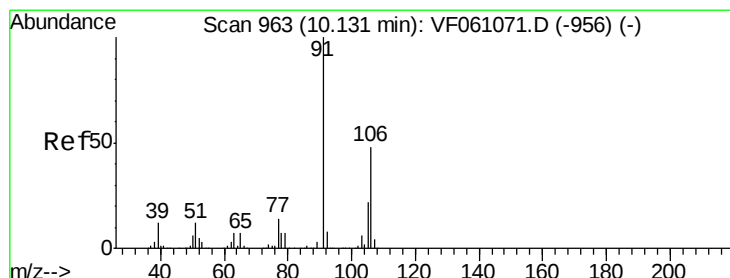
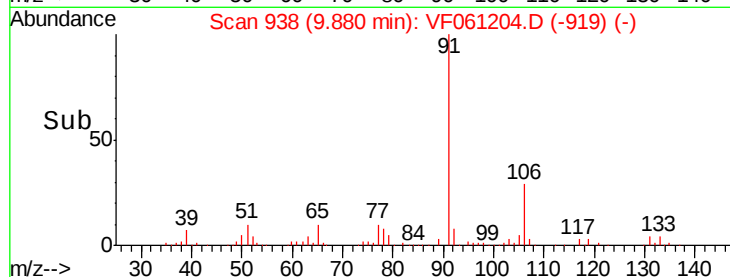
60000

40000

20000

0

Time-->



#68

m/p-Xylenes

Concen: 40.139 ug/l

RT: 10.11 min Scan# 961

Delta R.T. -0.02 min

Lab File: VF061204.D

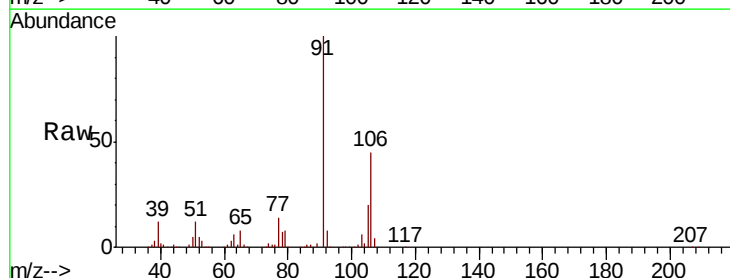
Acq: 27 Dec 2018 13:18

Tgt Ion:106 Resp: 162163

Ion Ratio Lower Upper

106 100

91 223.1 168.2 252.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

10.11

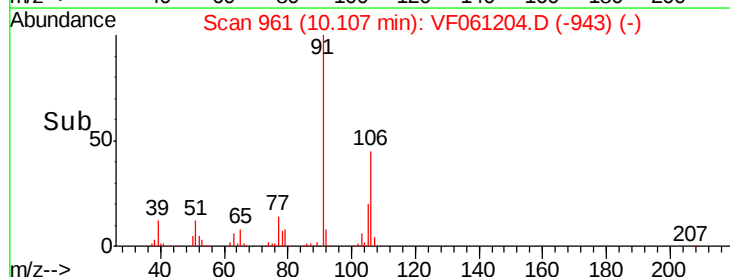
150000

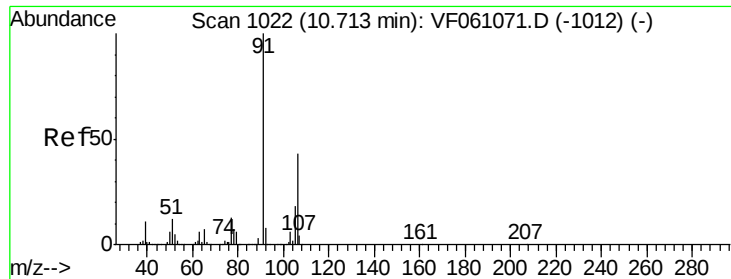
100000

50000

0

Time-->

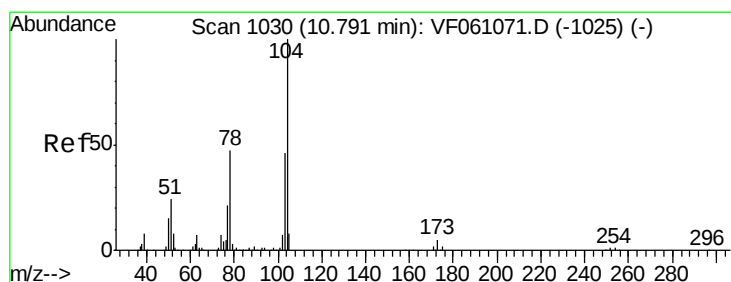
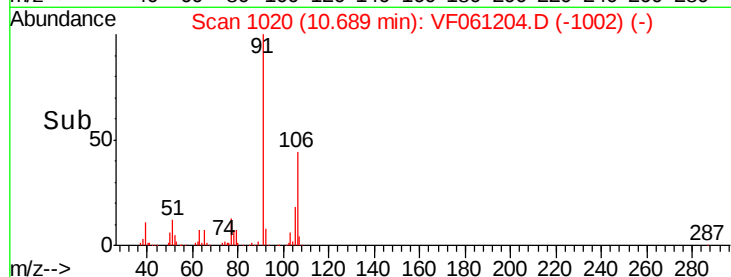
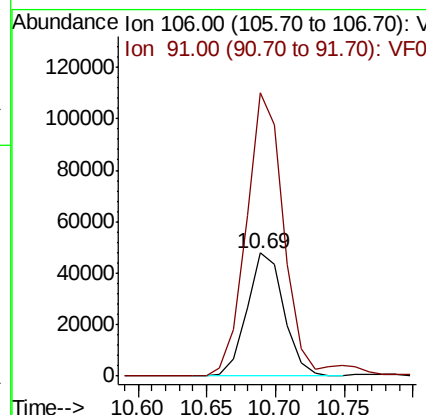
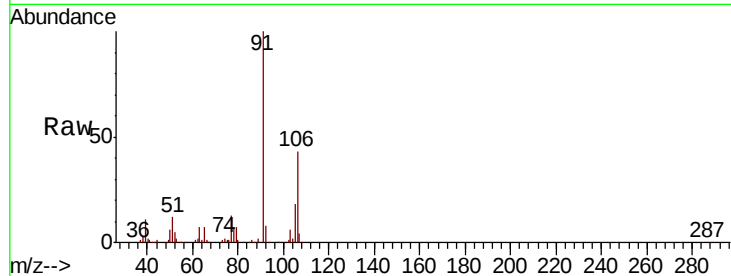




#69
o-Xylene
Concen: 20.098 ug/l
RT: 10.69 min Scan# 1020
Delta R.T. -0.02 min
Lab File: VF061204.D
Acq: 27 Dec 2018 13:18

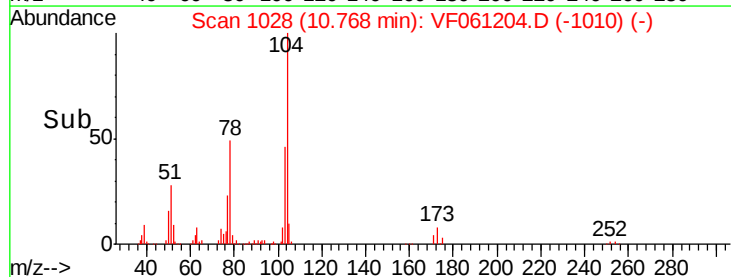
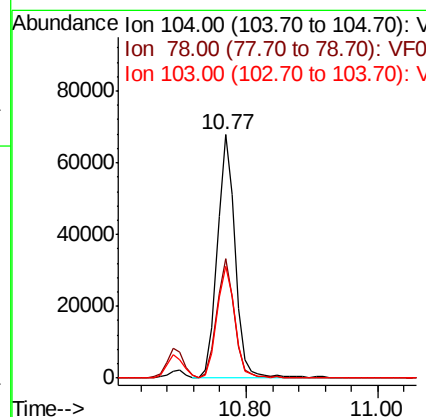
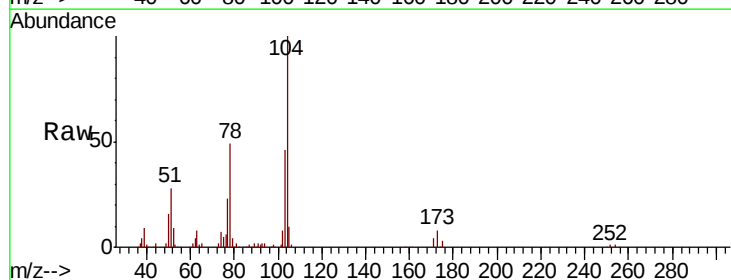
Instrument :
MSVOA_F
ClientSampleId :
VF1227SBS01

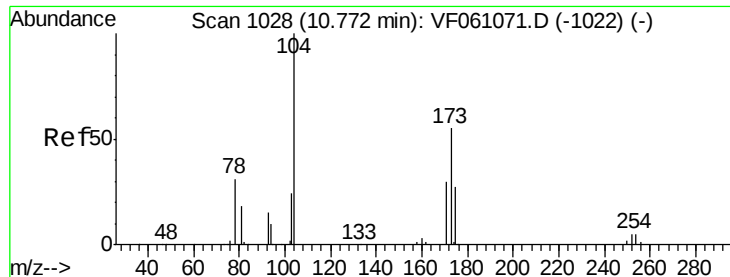
Tot Ion:106 Resp: 90050
Ion Ratio Lower Upper
106 100
91 230.2 115.9 347.7



#70
Styrene
Concen: 19.961 ug/l
RT: 10.77 min Scan# 1028
Delta R.T. -0.02 min
Lab File: VF061204.D
Acq: 27 Dec 2018 13:18

Tgt Ion:104 Resp: 125003
Ion Ratio Lower Upper
104 100
78 49.3 38.4 57.6
103 45.7 37.0 55.6





#71

Bromoform

Concen: 18.955 ug/l

RT: 10.75 min Scan# 1026

Delta R.T. -0.02 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

Instrument :

MSVOA_F

ClientSampleId :

VF1227SBS01

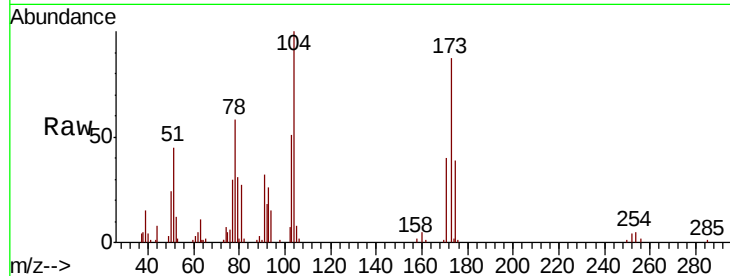
Tot Ion:173 Resp: 22582

Ion Ratio Lower Upper

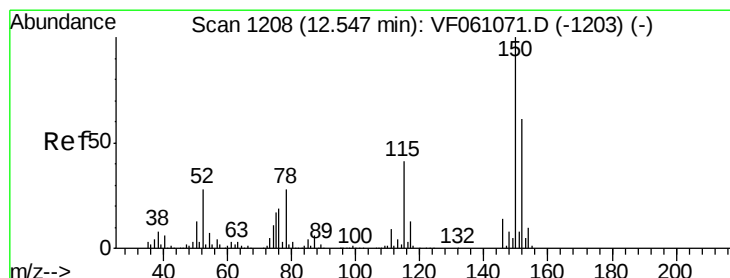
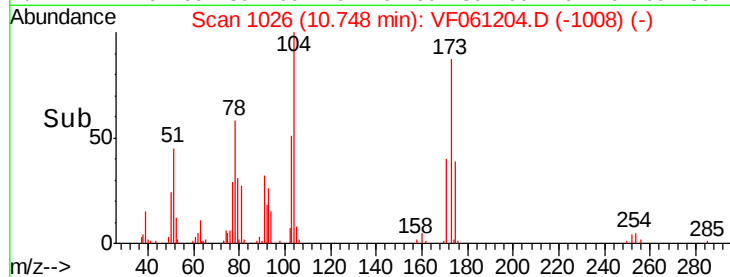
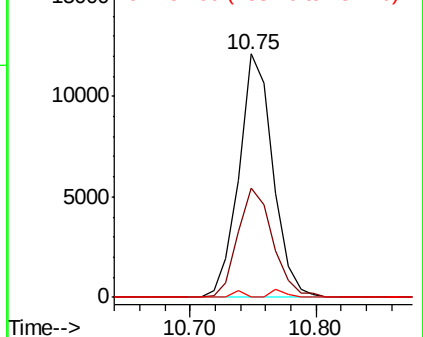
173 100

175 45.8 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: 12.53 min Scan# 1207

Delta R.T. -0.01 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

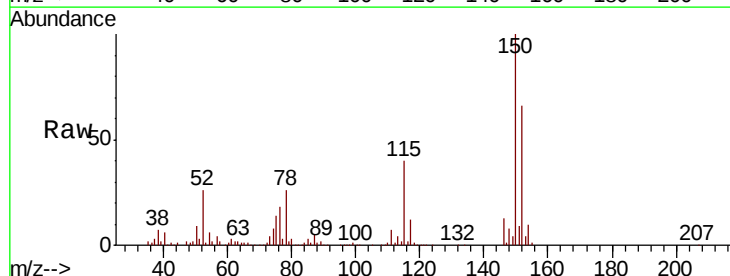
Tgt Ion:152 Resp: 146052

Ion Ratio Lower Upper

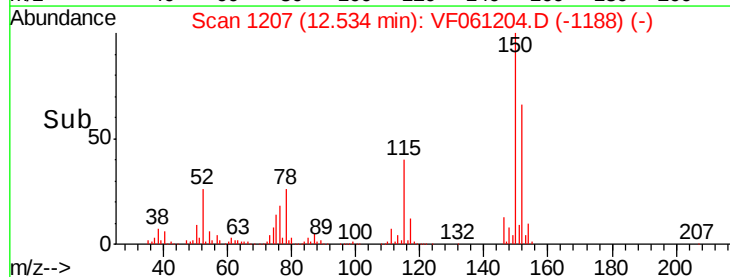
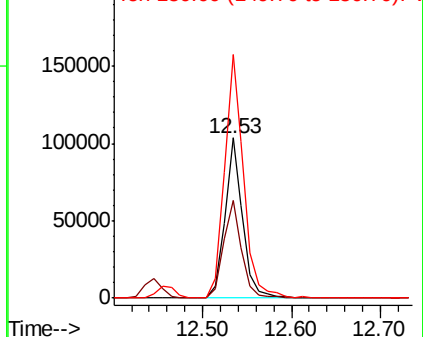
152 100

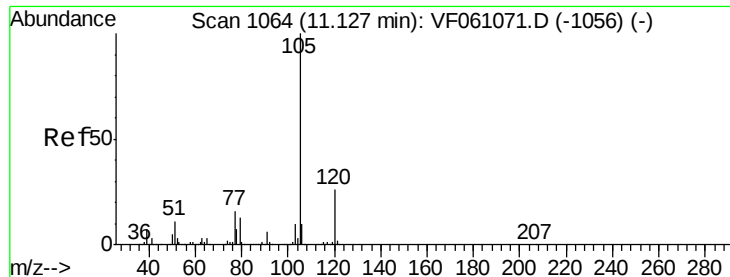
115 61.0 33.3 99.9

150 151.9 0.0 328.2



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 22.207 ug/l

RT: 11.10 min Scan# 1062

Delta R.T. -0.02 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

Instrument :

MSVOA_F

ClientSampleId :

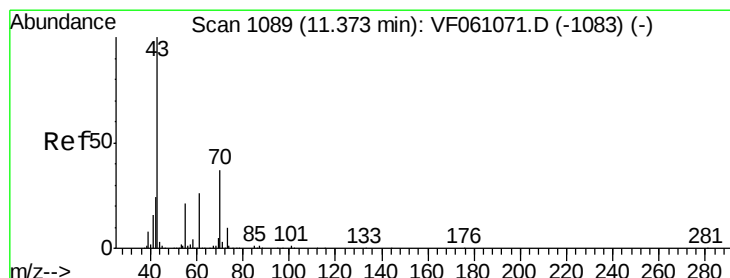
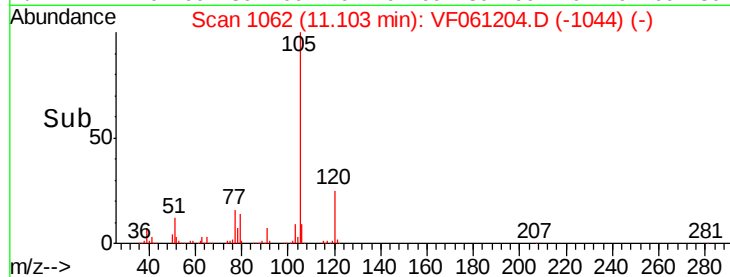
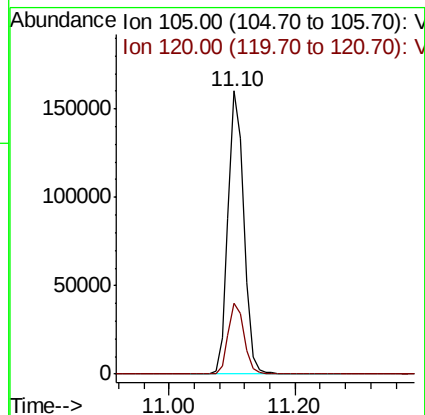
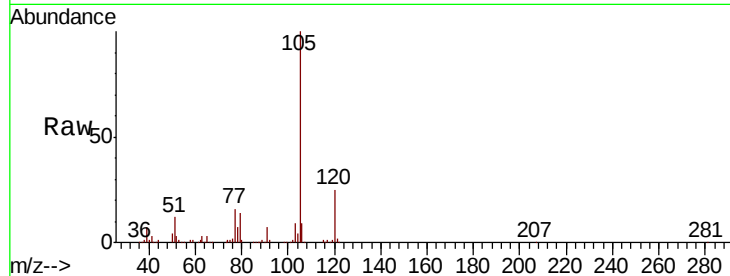
VF1227SBS01

Tot Ion:105 Resp: 279493

Ion Ratio Lower Upper

105 100

120 25.2 13.0 39.0



#74

N-ethyl acetate

Concen: 20.897 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.01 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

Tgt Ion: 43 Resp: 58393

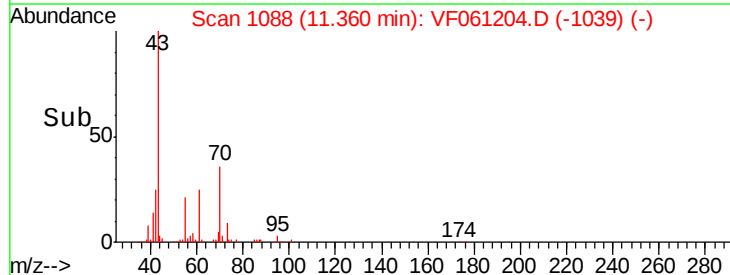
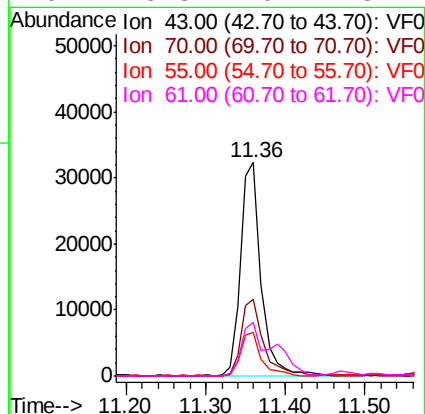
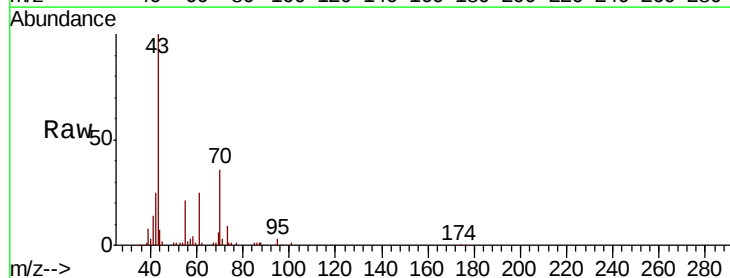
Ion Ratio Lower Upper

43 100

70 35.9 29.2 43.8

55 20.5 16.5 24.7

61 25.3 20.7 31.1





#75

1,1,2,2-Tetrachloroethane

Concen: 21.802 ug/l

RT: 11.68 min Scan# 1120

Delta R.T. -0.02 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

Instrument :

MSVOA_F

ClientSampleId :

VF1227SBS01

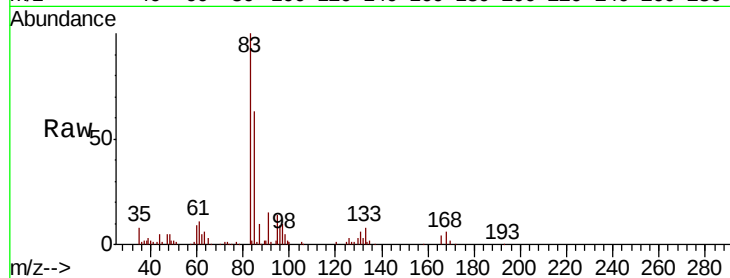
Tot Ion: 83 Resp: 45542

Ion Ratio Lower Upper

83 100

131 6.1 4.8 14.3

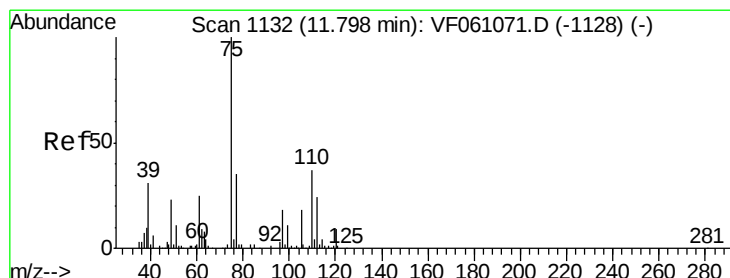
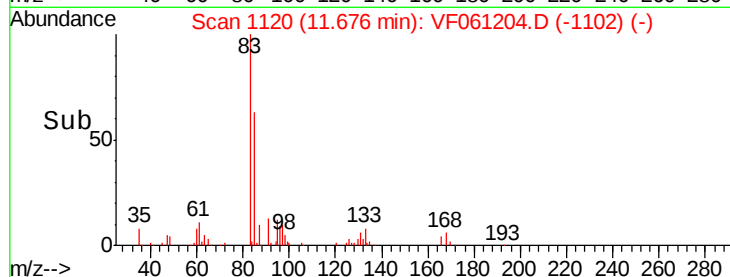
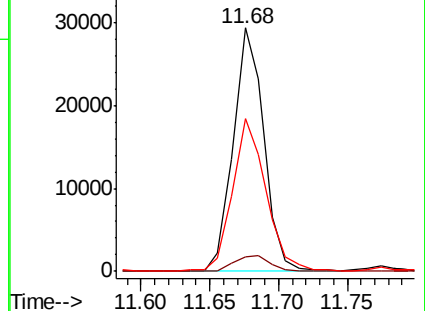
85 62.9 33.9 101.6



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 20.445 ug/l

RT: 11.77 min Scan# 1130

Delta R.T. -0.02 min

Lab File: VF061204.D

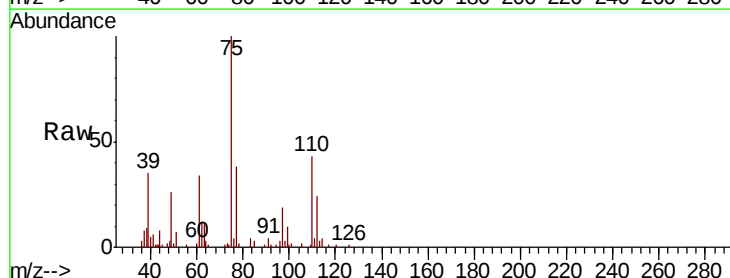
Acq: 27 Dec 2018 13:18

Tgt Ion: 75 Resp: 31783

Ion Ratio Lower Upper

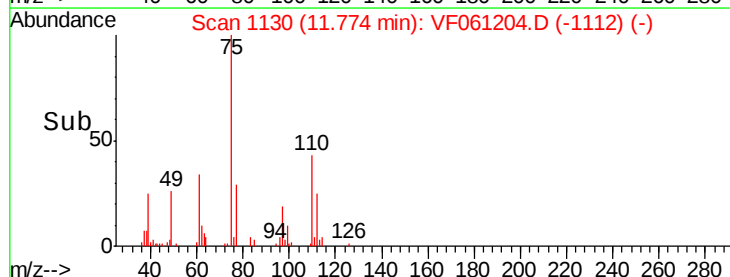
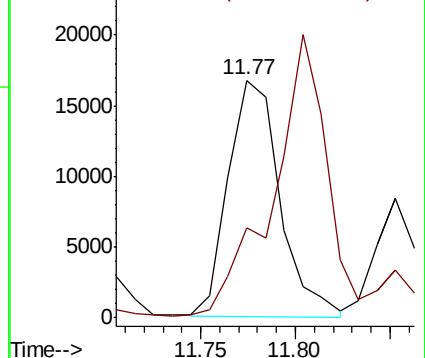
75 100

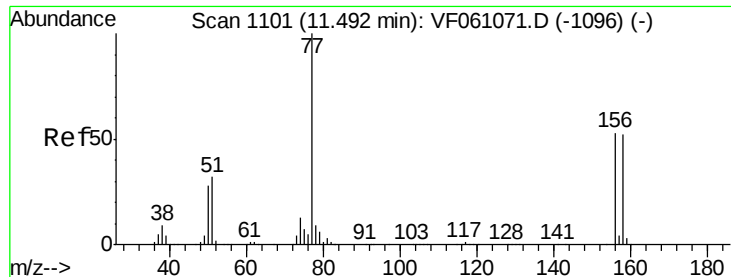
77 37.9 17.6 52.9



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 20.390 ug/l

RT: 11.48 min Scan# 1100

Delta R.T. -0.01 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

Instrument :

MSVOA_F

ClientSampleId :

VF1227SBS01

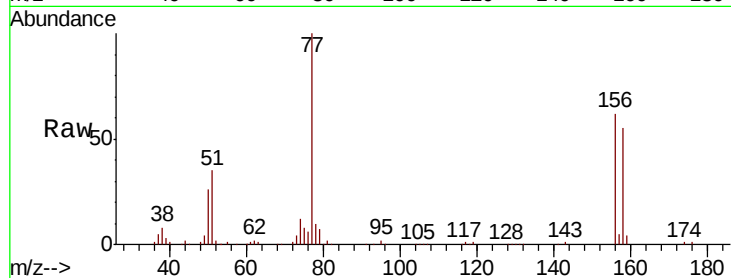
Tot Ion:156 Resp: 55245

Ion Ratio Lower Upper

156 100

77 160.2 93.8 281.4

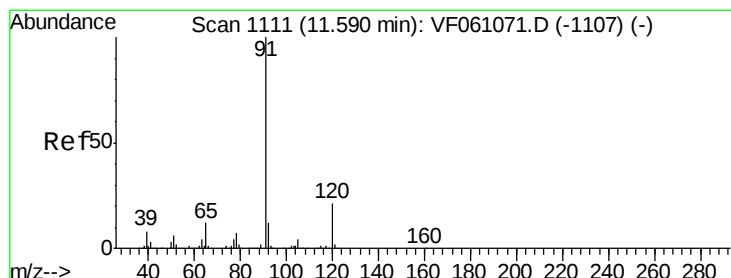
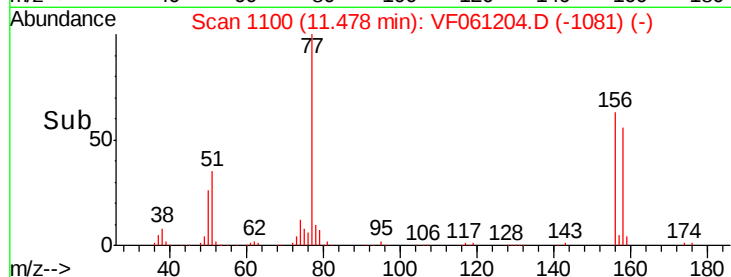
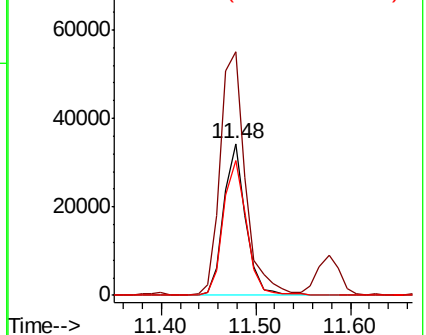
158 88.9 48.9 146.8



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: 20.461 ug/l

RT: 11.58 min Scan# 1110

Delta R.T. -0.01 min

Lab File: VF061204.D

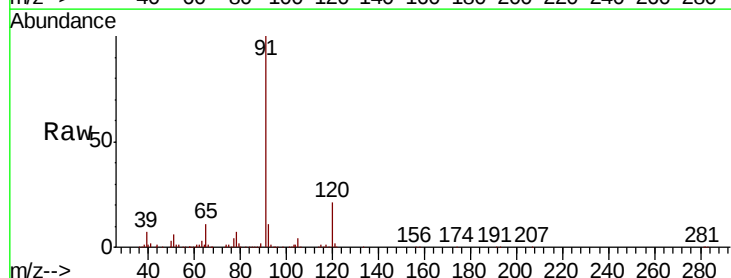
Acq: 27 Dec 2018 13:18

Tgt Ion: 91 Resp: 333804

Ion Ratio Lower Upper

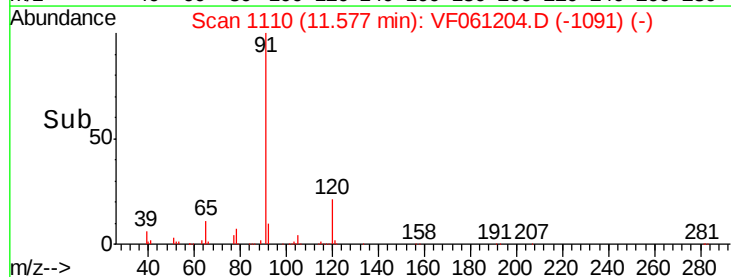
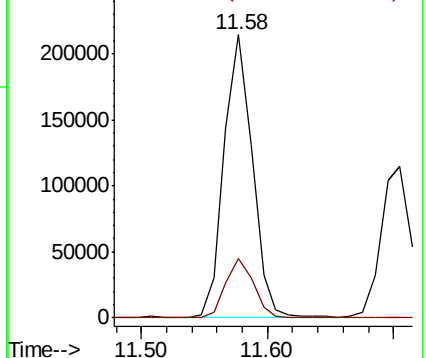
91 100

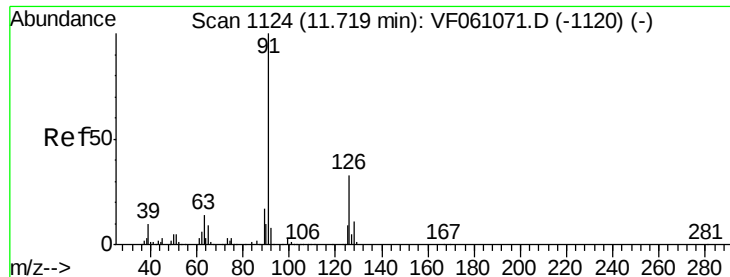
120 21.0 10.4 31.2



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 22.079 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. -0.01 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

Instrument :

MSVOA_F

ClientSampleId :

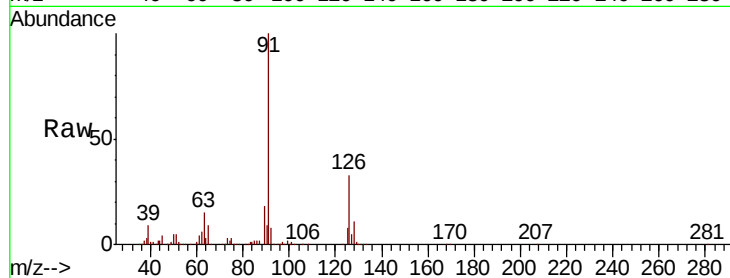
VF1227SBS01

Tot Ion: 91 Resp: 190635

Ion Ratio Lower Upper

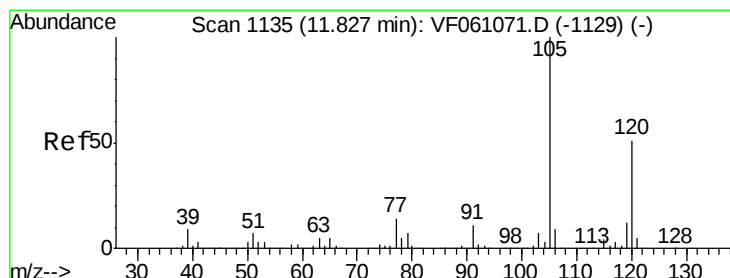
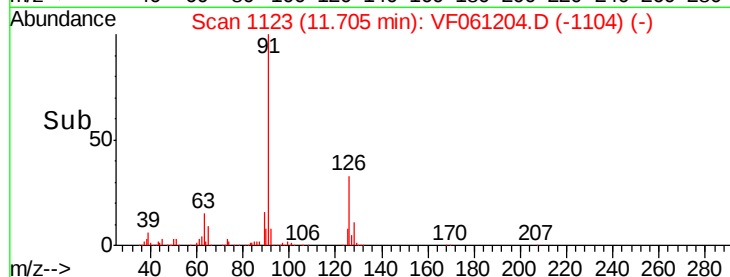
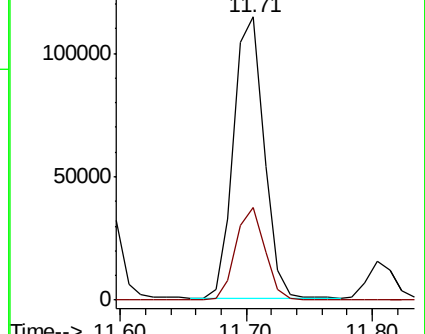
91 100

126 32.9 16.4 49.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#80

1,3,5-Trimethylbenzene

Concen: 21.068 ug/l

RT: 11.80 min Scan# 1133

Delta R.T. -0.02 min

Lab File: VF061204.D

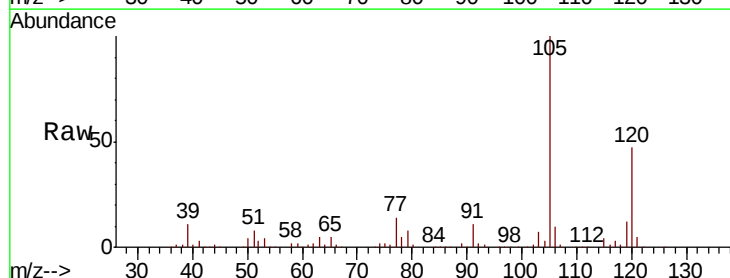
Acq: 27 Dec 2018 13:18

Tgt Ion:105 Resp: 218347

Ion Ratio Lower Upper

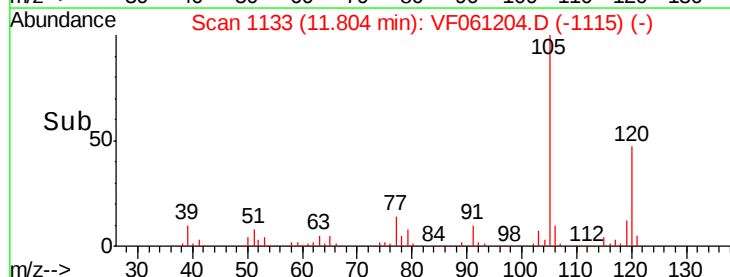
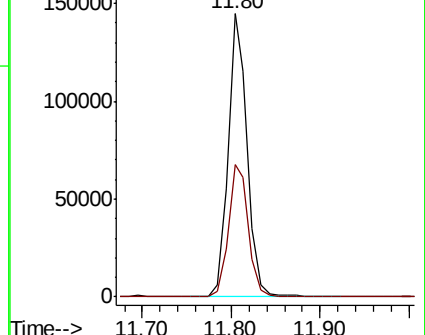
105 100

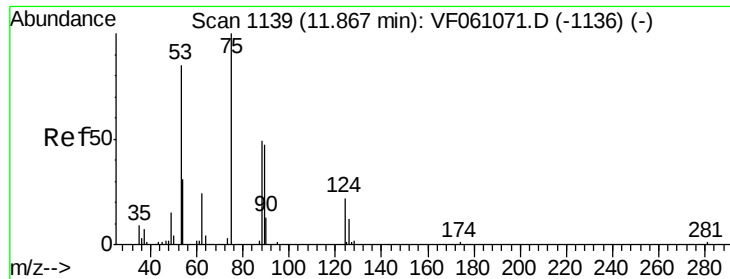
120 46.8 25.4 76.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 29.442 ug/l

RT: 11.85 min Scan# 1138

Delta R.T. -0.01 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

Instrument :

MSVOA_F

ClientSampleId :

VF1227SBS01

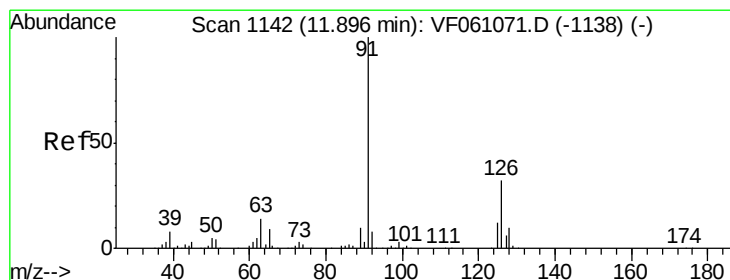
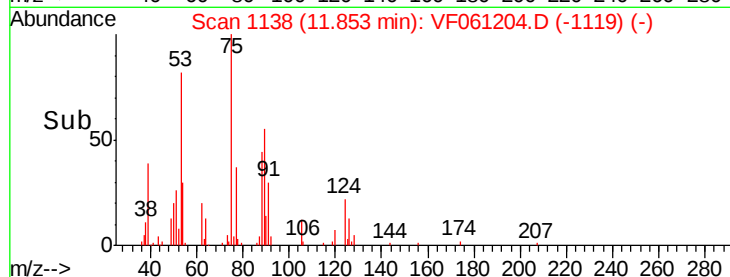
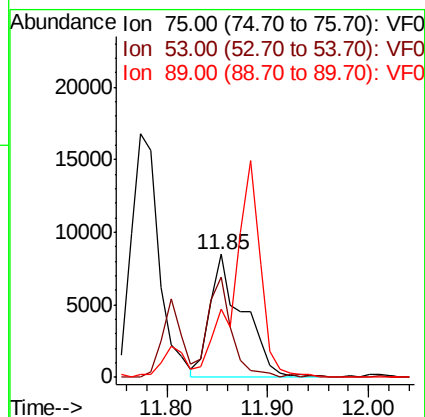
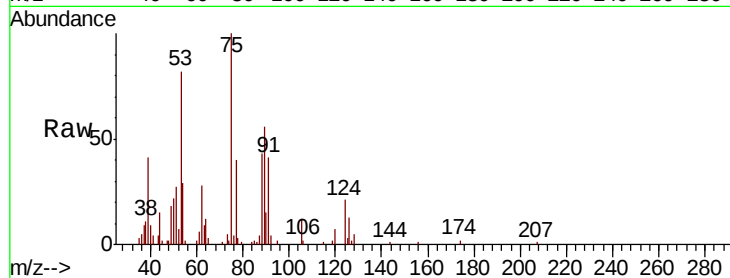
Tot Ion: 75 Resp: 19667

Ion Ratio Lower Upper

75 100

53 82.0 74.1 111.1

89 55.6 42.6 64.0



#82

4-Chlorotoluene

Concen: 21.582 ug/l

RT: 11.88 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VF061204.D

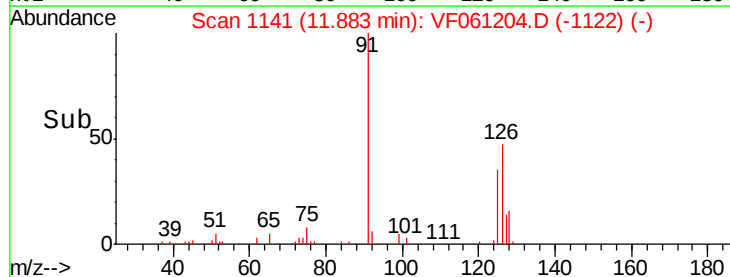
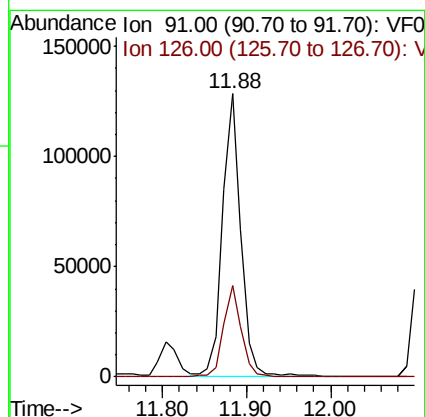
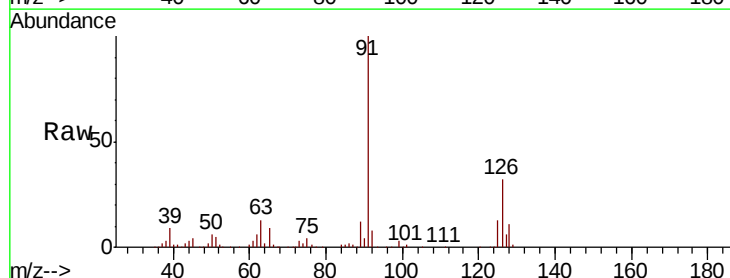
Acq: 27 Dec 2018 13:18

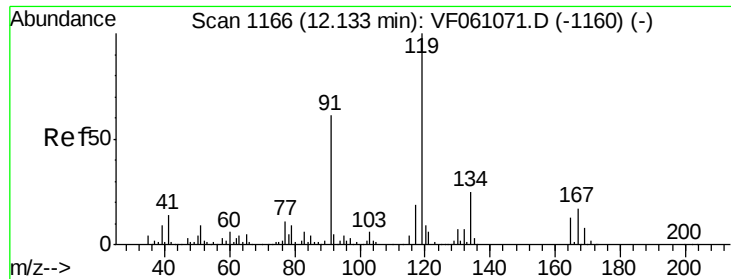
Tgt Ion: 91 Resp: 192760

Ion Ratio Lower Upper

91 100

126 32.4 16.0 47.9

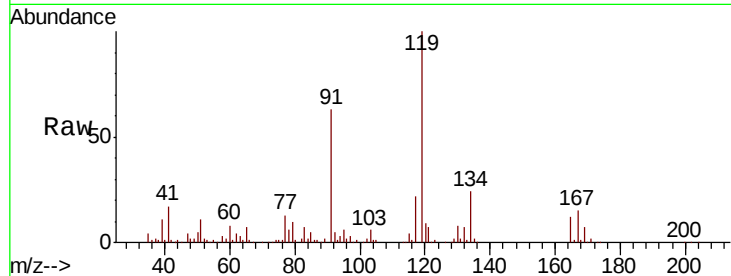




#83
tert-Butylbenzene
Concen: 21.707 ug/l
RT: 12.11 min Scan# 1164
Delta R.T. -0.02 min
Lab File: VF061204.D
Acq: 27 Dec 2018 13:18

Instrument :
MSVOA_F
ClientSampleId :
VF1227SBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	63.3	30.5	91.5
134	24.4	12.4	37.4

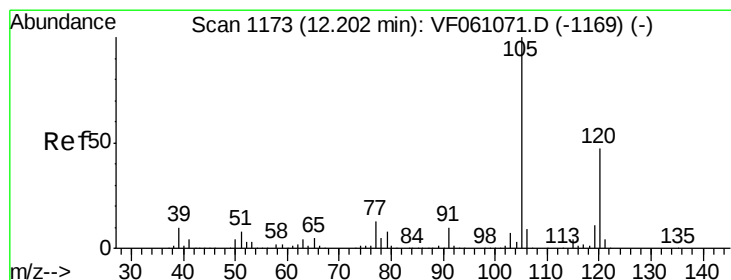
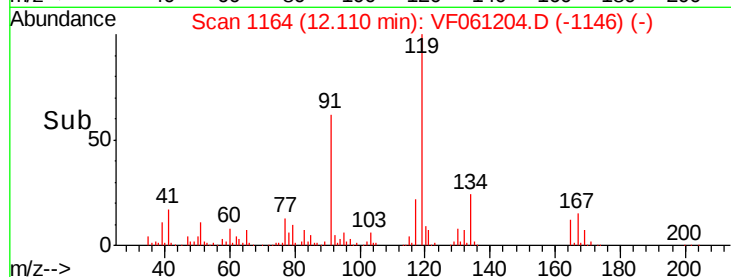
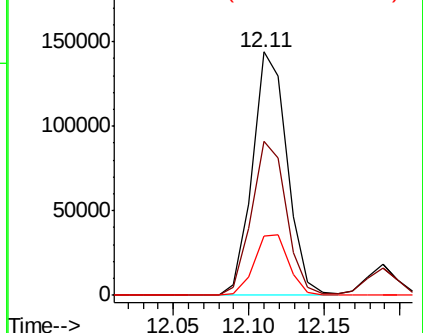


Abundance

Ion 119.00 (118.70 to 119.70): V

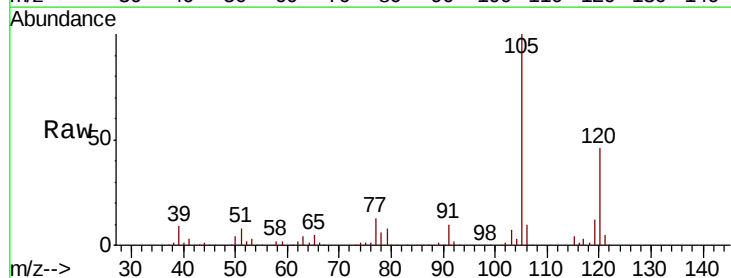
Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#84
1,2,4-Trimethylbenzene
Concen: 21.078 ug/l
RT: 12.19 min Scan# 1172
Delta R.T. -0.01 min
Lab File: VF061204.D
Acq: 27 Dec 2018 13:18

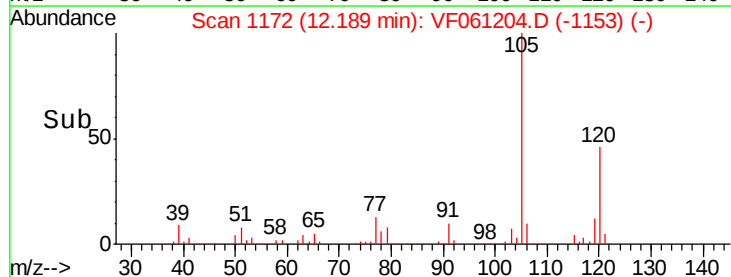
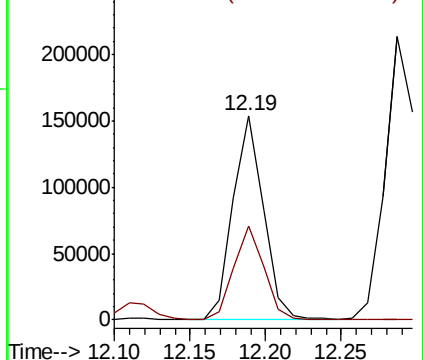
Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.3	23.6	71.0

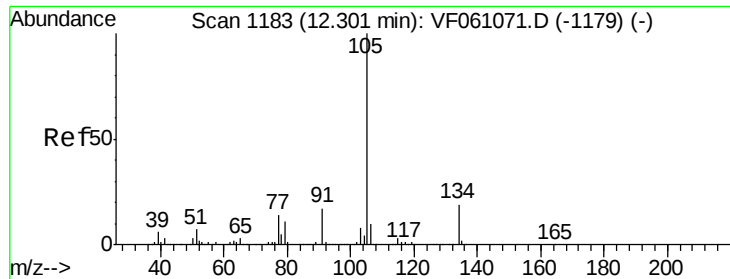


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

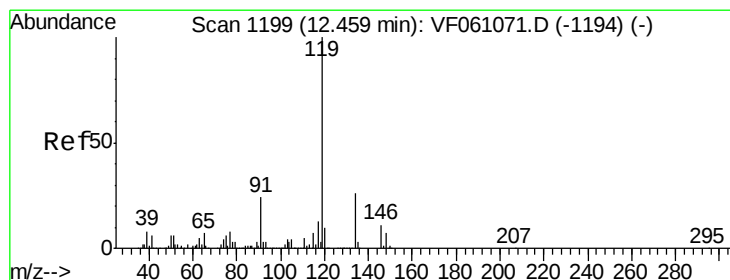
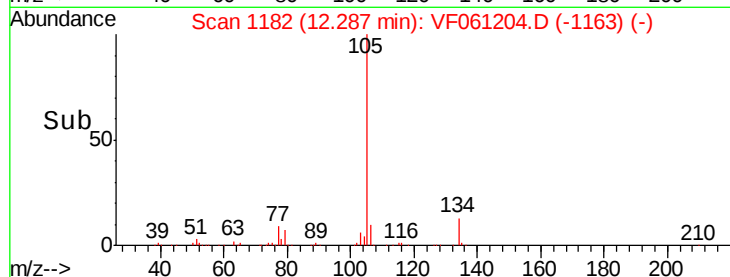
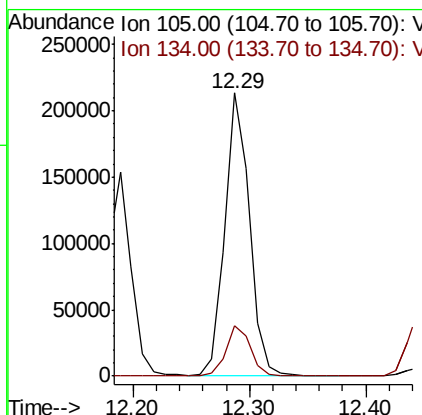
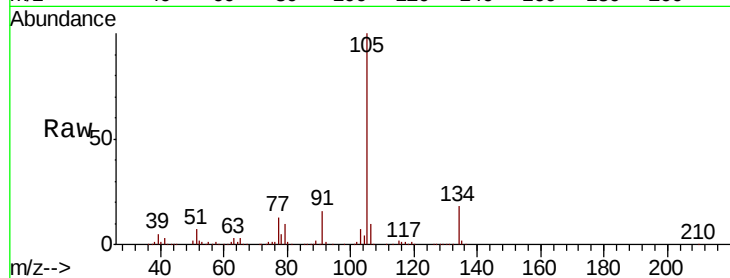




#85
 sec-Butylbenzene
 Concen: 22.437 ug/l
 RT: 12.29 min Scan# 1182
 Delta R.T. -0.01 min
 Lab File: VF061204.D
 Acq: 27 Dec 2018 13:18

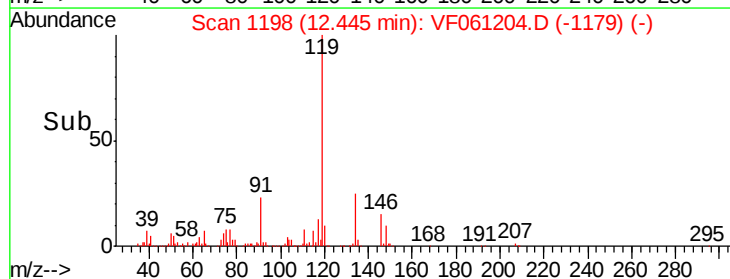
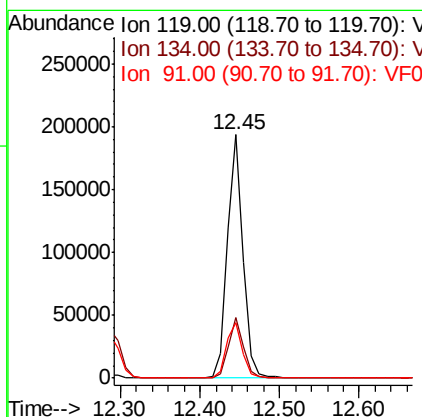
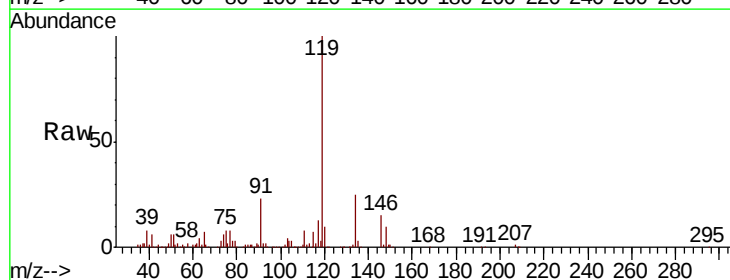
Instrument :
 MSVOA_F
 ClientSampleId :
 VF1227SBS01

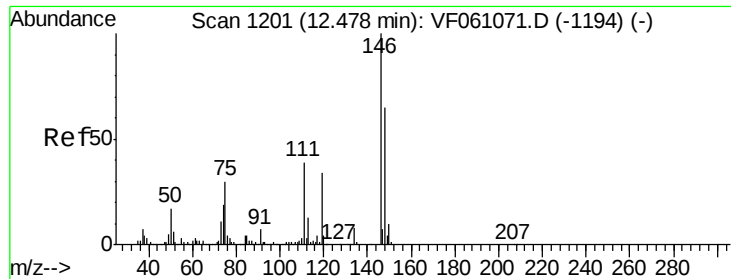
Tot Ion:105 Resp: 312267
 Ion Ratio Lower Upper
 105 100
 134 17.6 9.4 28.2



#86
 p-Isopropyltoluene
 Concen: 23.182 ug/l
 RT: 12.45 min Scan# 1198
 Delta R.T. -0.01 min
 Lab File: VF061204.D
 Acq: 27 Dec 2018 13:18

Tgt Ion:119 Resp: 267798
 Ion Ratio Lower Upper
 119 100
 134 24.8 12.8 38.4
 91 22.9 12.2 36.6





#87

1,3-Dichlorobenzene

Concen: 22.261 ug/l

RT: 12.45 min Scan# 1199

Delta R.T. -0.02 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

Instrument :

MSVOA_F

ClientSampleId :

VF1227SBS01

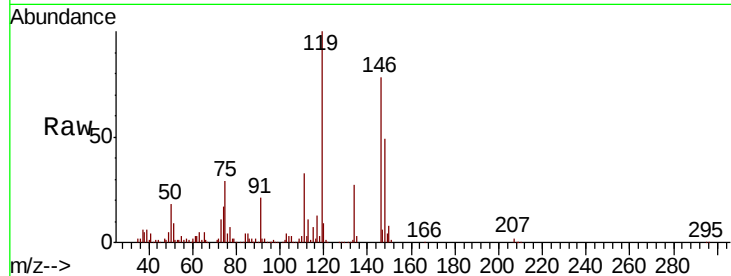
Tot Ion:146 Resp: 111625

Ion Ratio Lower Upper

146 100

111 42.2 19.3 57.9

148 63.3 32.4 97.2

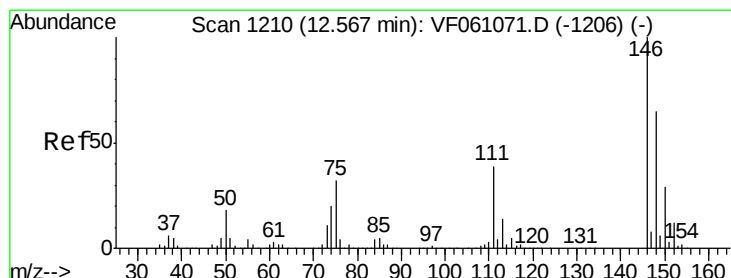
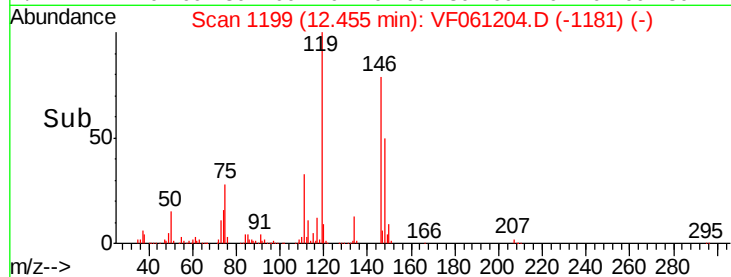
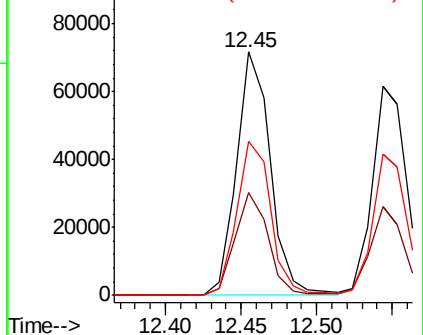


Abundance

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



#88

1,4-Dichlorobenzene

Concen: 20.280 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.02 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

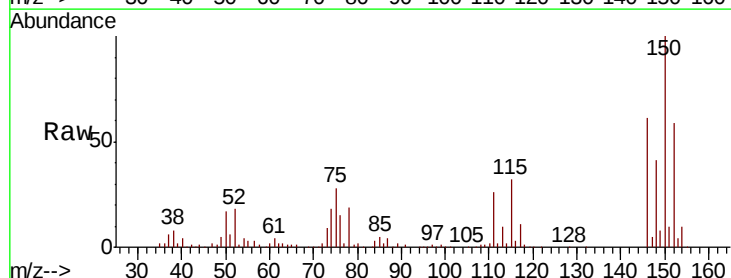
Tgt Ion:146 Resp: 100892

Ion Ratio Lower Upper

146 100

111 42.7 19.4 58.4

148 67.9 32.4 97.0

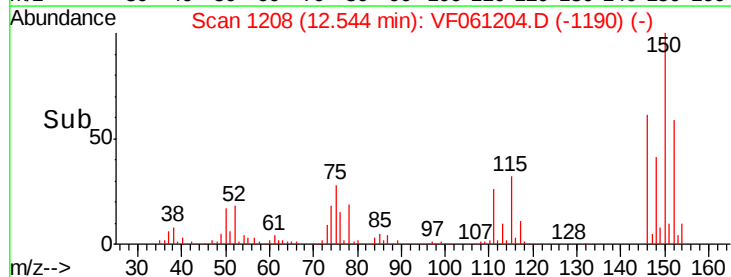
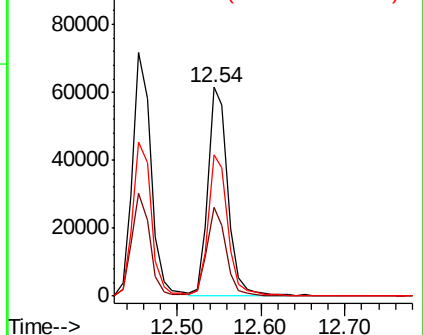


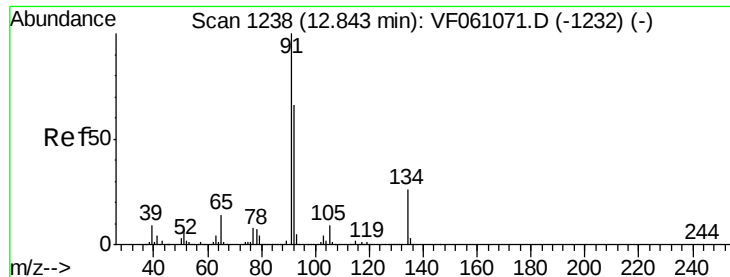
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#89

n-Butylbenzene

Concen: 20.873 ug/l

RT: 12.83 min Scan# 1237

Delta R.T. -0.01 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

Instrument :

MSVOA_F

ClientSampleId :

VF1227SBS01

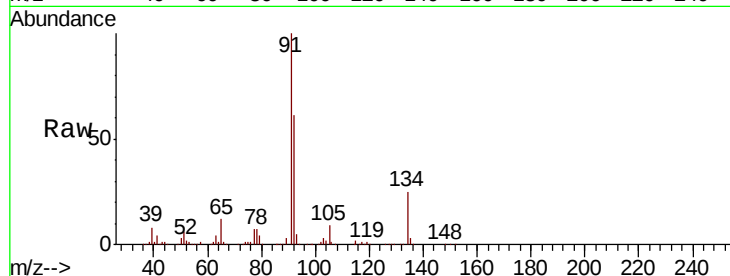
Tot Ion: 91 Resp: 275498

Ion Ratio Lower Upper

91 100

92 61.0 32.8 98.4

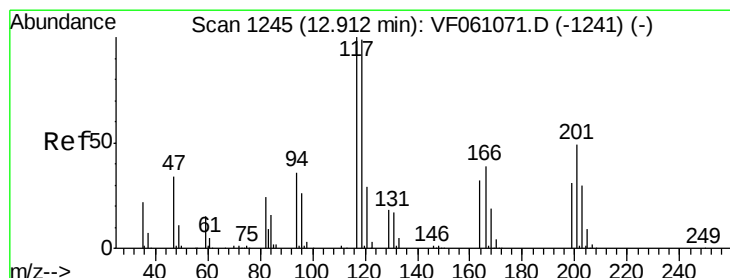
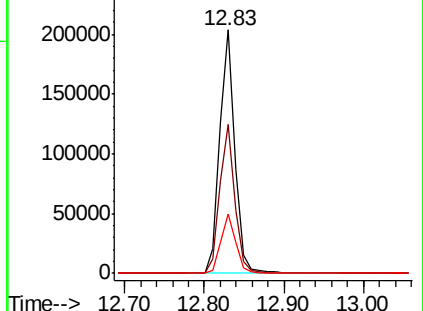
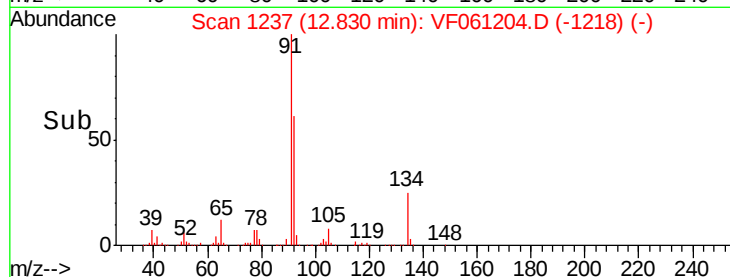
134 24.5 13.2 39.5



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 21.333 ug/l

RT: 12.90 min Scan# 1244

Delta R.T. -0.01 min

Lab File: VF061204.D

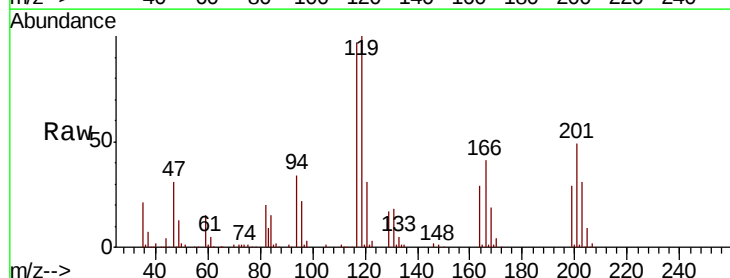
Acq: 27 Dec 2018 13:18

Tgt Ion: 117 Resp: 60887

Ion Ratio Lower Upper

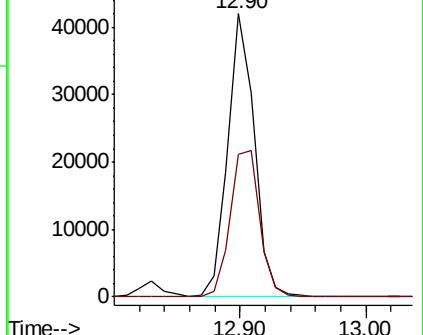
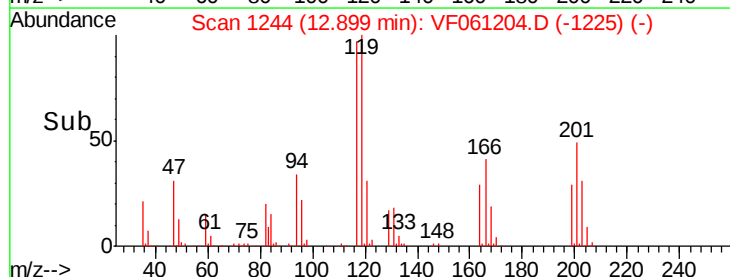
117 100

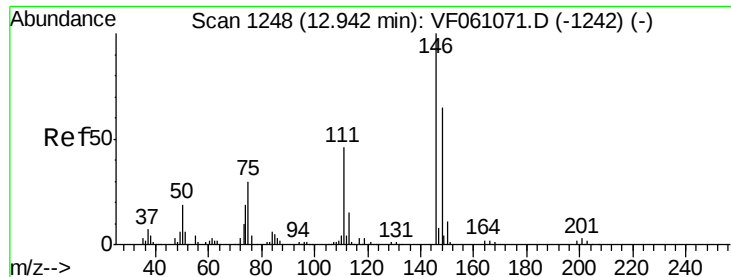
201 50.2 24.9 74.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V





#91

1,2-Dichlorobenzene

Concen: 22.181 ug/l

RT: 12.93 min Scan# 1247

Delta R.T. -0.01 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

Instrument :

MSVOA_F

ClientSampleId :

VF1227SBS01

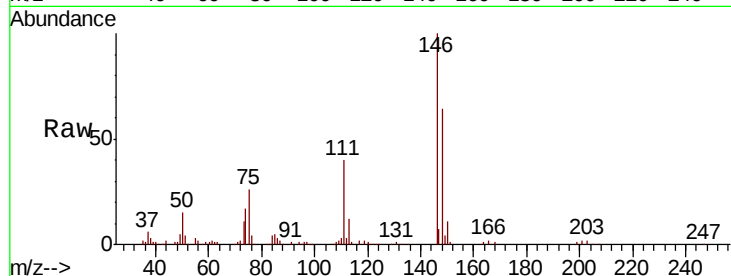
Tot Ion:146 Resp: 107437

Ion Ratio Lower Upper

146 100

111 39.7 23.2 69.5

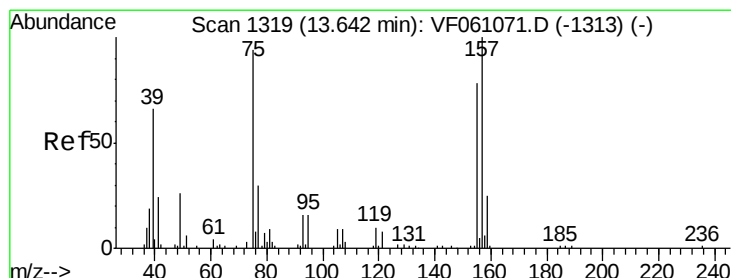
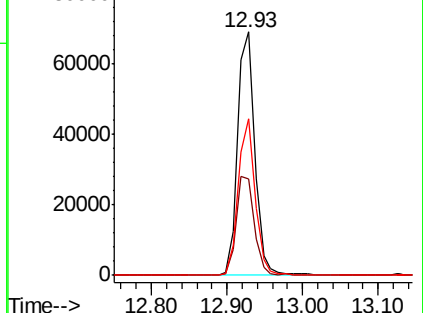
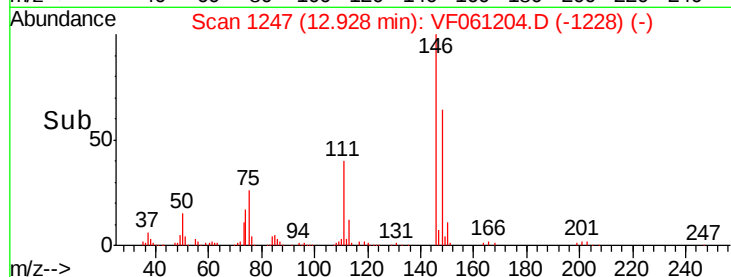
148 64.5 32.4 97.0



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: 19.083 ug/l

RT: 13.63 min Scan# 1318

Delta R.T. -0.01 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

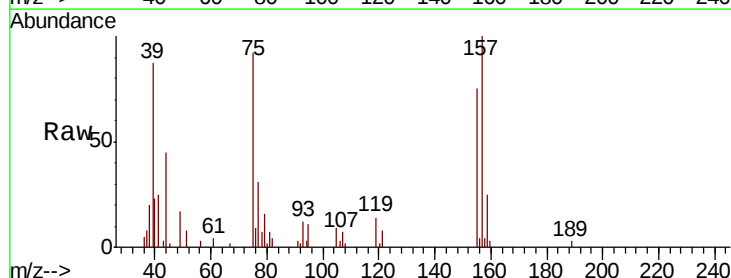
Tgt Ion: 75 Resp: 7315

Ion Ratio Lower Upper

75 100

155 81.5 41.5 124.5

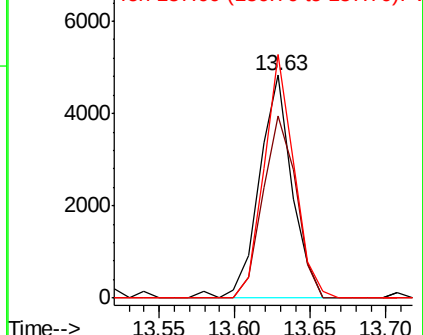
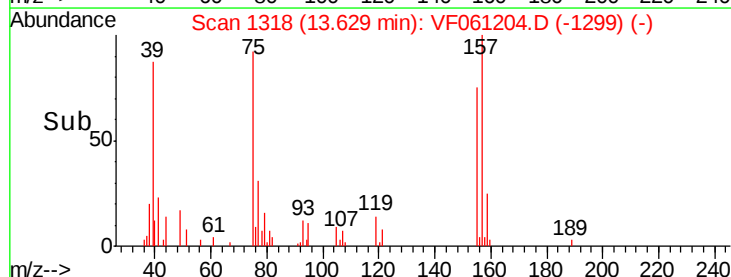
157 109.2 53.2 159.6



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

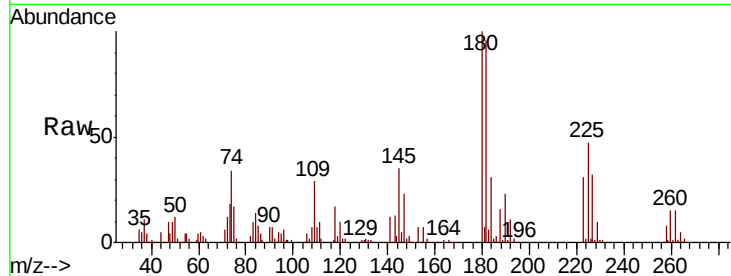




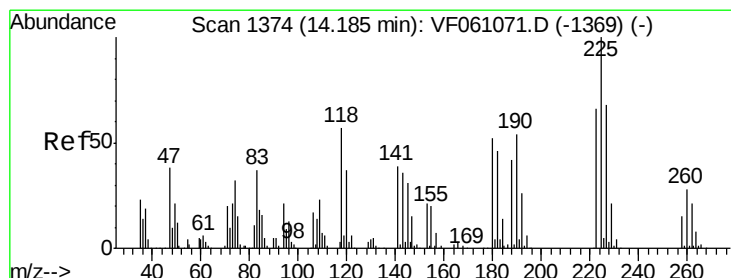
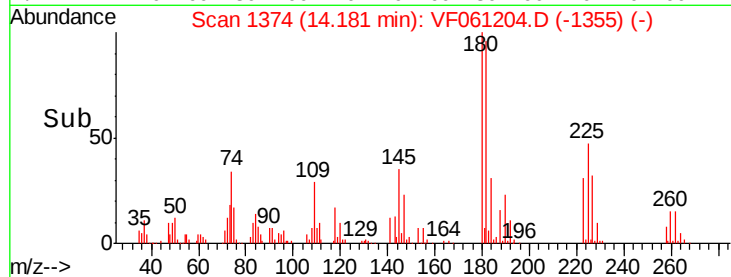
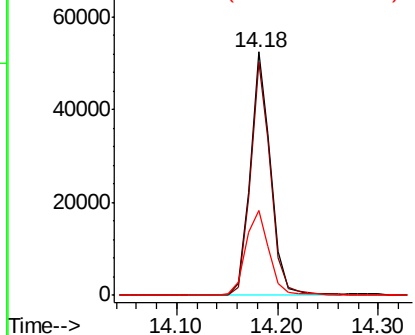
#93
 1,2,4-Trichlorobenzene
 Concen: 21.652 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.01 min
 Lab File: VF061204.D
 Acq: 27 Dec 2018 13:18

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1227SBS01

Tot Ion:180 Resp: 74376
 Ion Ratio Lower Upper
 180 100
 182 96.0 46.9 140.6
 145 34.7 20.5 61.6

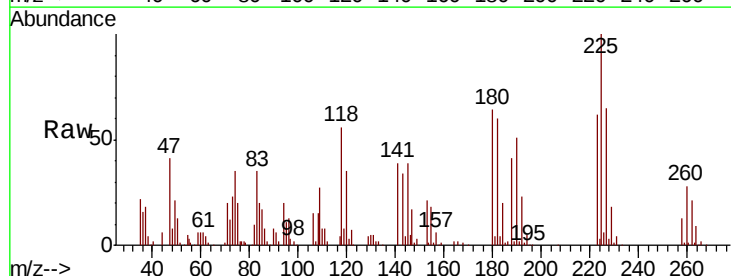


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

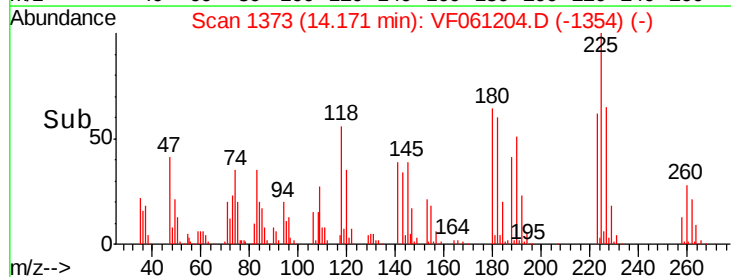
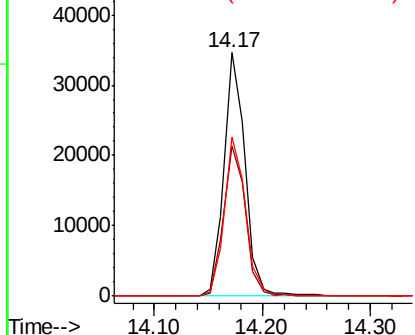


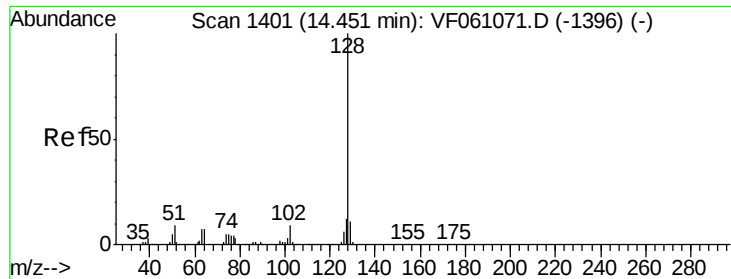
#94
 Hexachlorobutadiene
 Concen: 21.500 ug/l
 RT: 14.17 min Scan# 1373
 Delta R.T. -0.01 min
 Lab File: VF061204.D
 Acq: 27 Dec 2018 13:18

Tgt Ion:225 Resp: 47039
 Ion Ratio Lower Upper
 225 100
 223 61.9 32.8 98.3
 227 65.4 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: 20.155 ug/l

RT: 14.44 min Scan# 1400

Delta R.T. -0.01 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

Instrument :

MSVOA_F

ClientSampleId :

VF1227SBS01

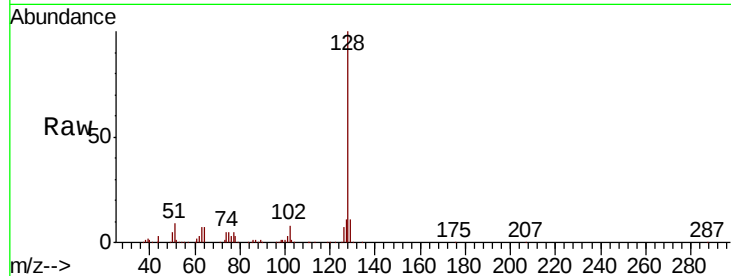
Tot Ion:128 Resp: 126421

Ion Ratio Lower Upper

128 100

127 11.4 9.4 14.2

129 10.9 8.8 13.2

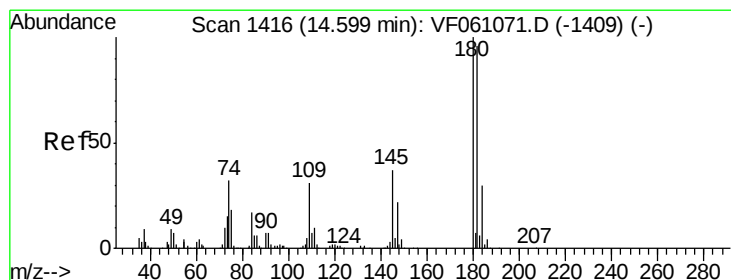
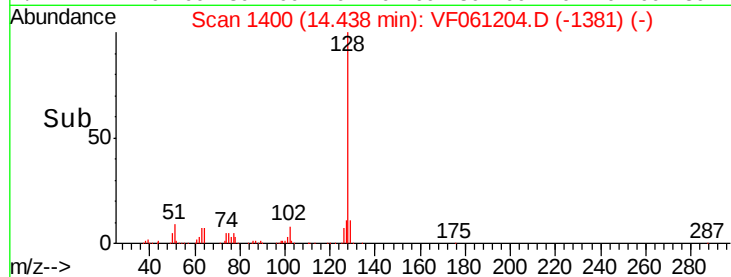
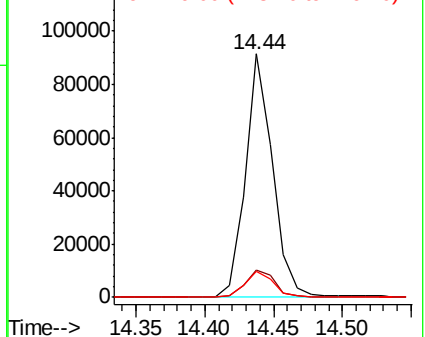


Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 21.344 ug/l

RT: 14.59 min Scan# 1415

Delta R.T. -0.01 min

Lab File: VF061204.D

Acq: 27 Dec 2018 13:18

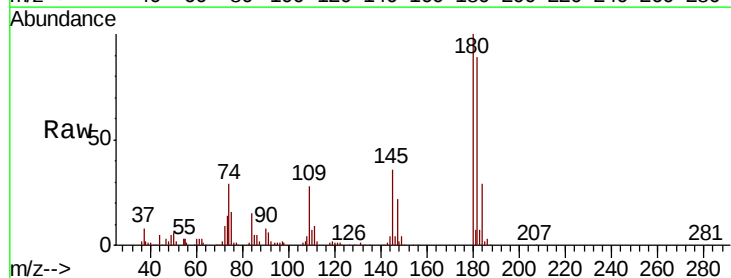
Tgt Ion:180 Resp: 67780

Ion Ratio Lower Upper

180 100

182 88.9 47.9 143.8

145 36.1 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

