

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122118\
 Data File : VF061136.D
 Acq On : 21 Dec 2018 20:05
 Operator : VA/AP
 Sample : J6377-16RE
 Misc : 3.85µ/5mL/MSVOA-F/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD006-0612-01RE

Quant Time: Dec 21 23:48:06 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

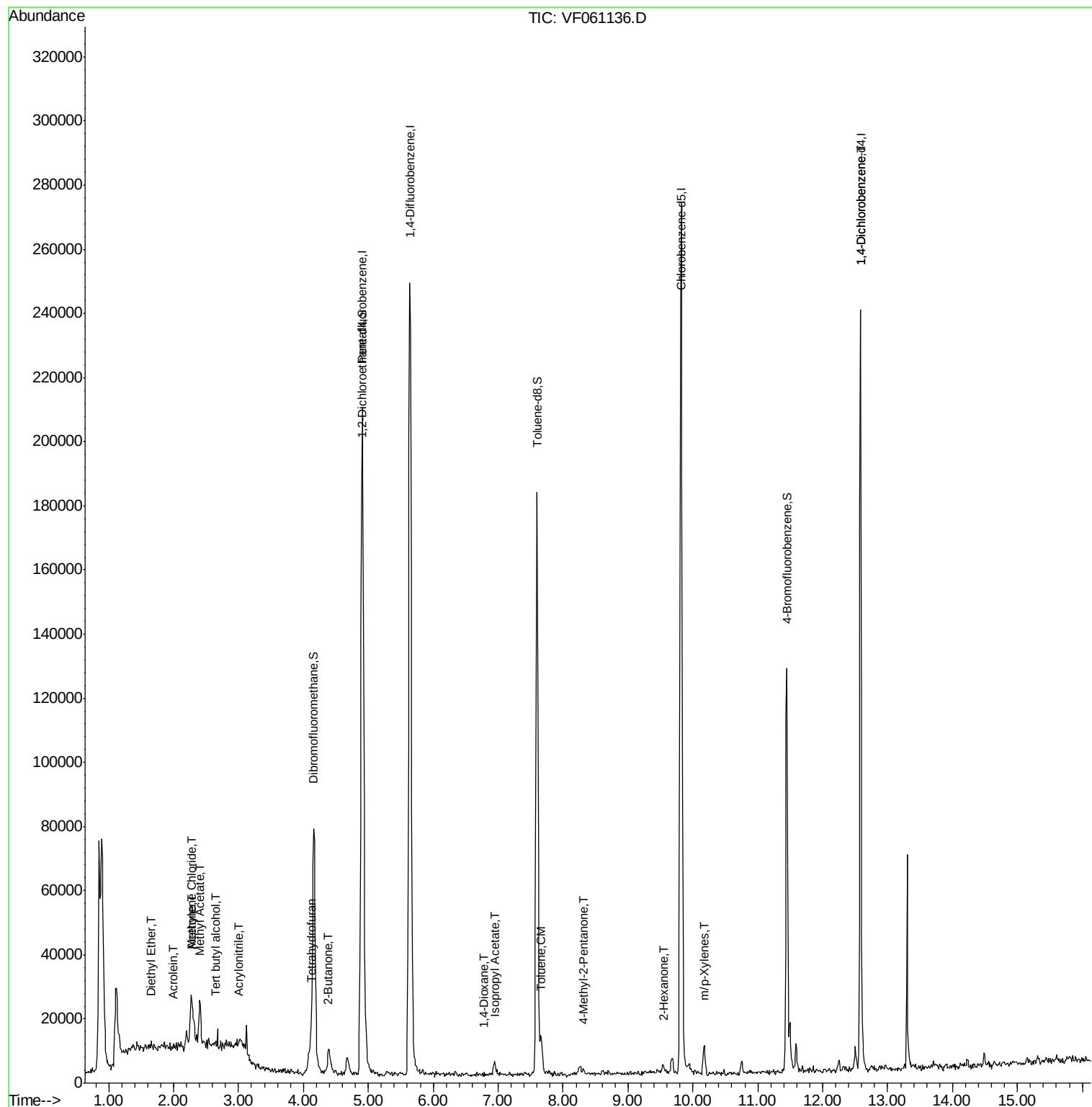
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.91	168	155960	50.00	µg/l	0.03
34) 1,4-Difluorobenzene	5.64	114	274941	50.00	µg/l	0.04
63) Chlorobenzene-d5	9.82	117	197310	50.00	µg/l	0.04
72) 1,4-Dichlorobenzene-d4	12.58	152	57754	50.00	µg/l	0.03
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.89	65	62782	31.30	µg/l	0.04
Spiked Amount 50.000			Recovery	=	62.60%	
35) Dibromofluoromethane	4.16	113	71192	32.32	µg/l	0.04
Spiked Amount 50.000			Recovery	=	64.64%	
50) Toluene-d8	7.59	98	158683	25.42	µg/l	0.03
Spiked Amount 50.000			Recovery	=	50.84%	
62) 4-Bromofluorobenzene	11.45	95	50694	17.62	µg/l	0.03
Spiked Amount 50.000			Recovery	=	35.24%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	1.64	74	541	1.123	µg/l #	29
11) Tert butyl alcohol	2.64	59	88	1.087	µg/l #	1
13) Acrolein	2.00	56	925	15.814	µg/l #	76
15) Acrylonitrile	2.99	53	314	1.678	µg/l #	53
16) Acetone	2.27	43	22086	55.077	µg/l	96
18) Methyl Acetate	2.40	43	6283	7.573	µg/l #	66
20) Methylene Chloride	2.27	84	6925	1.002	µg/l #	63
25) 2-Butanone	4.38	43	15784	24.270	µg/l #	88
29) Tetrahydrofuran	4.11	42	811	3.064	µg/l #	46
43) Isopropyl Acetate	6.95	43	6958	4.342	µg/l #	45
49) 1,4-Dioxane	6.78	88	59	7.269	µg/l #	23
51) 4-Methyl-2-Pentanone	8.31	43	2131	1.939	µg/l #	76
52) Toluene	7.67	92	5534	1.171	µg/l	98
59) 2-Hexanone	9.54	43	3964	4.988	µg/l	99
68) m/p-Xylenes	10.18	106	2931	1.122	µg/l #	71
70) Styrene	10.79	104	61	Below Cal	#	30
78) n-propylbenzene	11.63	91	768	Below Cal	#	62
87) 1,3-Dichlorobenzene	12.50	146	2477	Below Cal		91
88) 1,4-Dichlorobenzene	12.59	146	5745	2.920	µg/l	96

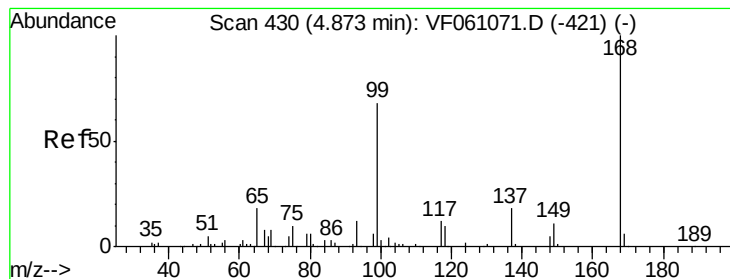
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Dec 20 00:56:59 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.91 min Scan# 434

Delta R.T. 0.03 min

Lab File: VF061136.D

Acq: 21 Dec 2018 20:05

Instrument :

MSVOA_F

ClientSampleId :

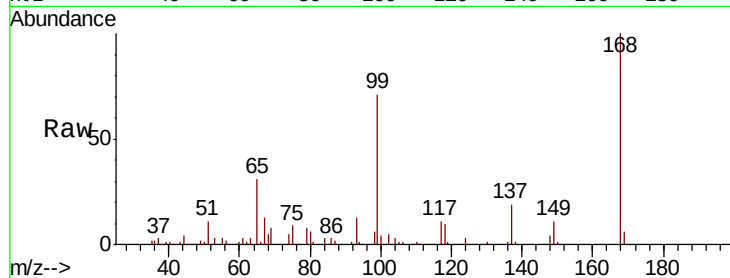
P001-SD006-0612-01RE

Tot Ion:168 Resp: 155960

Ion Ratio Lower Upper

168 100

99 70.6 54.4 81.6

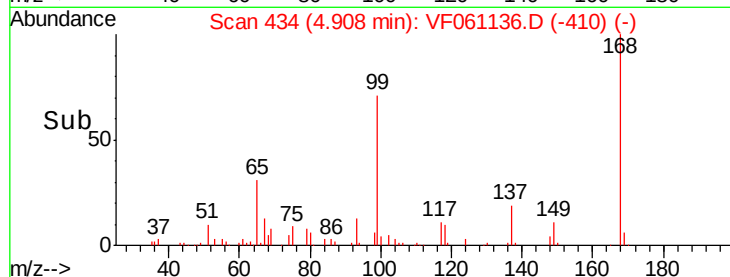


Abundance Ion 168.00 (167.70 to 168.70): VF0

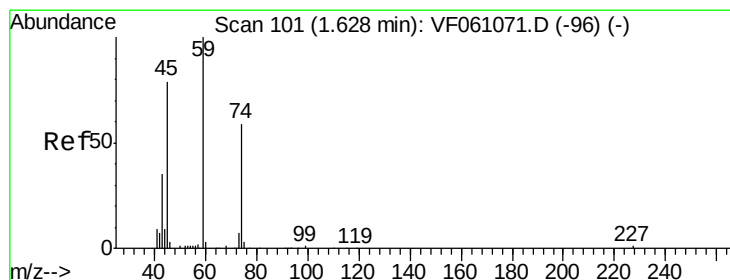
Ion 99.00 (98.70 to 99.70): VF0

4.91

Time-->



Time-->



#8

Diethyl Ether

Concen: 1.123 ug/l

RT: 1.64 min Scan# 103

Delta R.T. 0.02 min

Lab File: VF061136.D

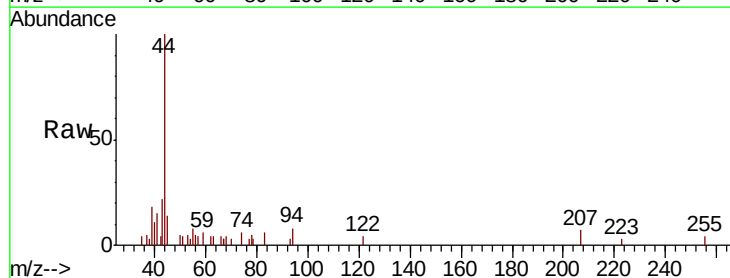
Acq: 21 Dec 2018 20:05

Tgt Ion: 74 Resp: 541

Ion Ratio Lower Upper

74 100

45 220.0 67.8 203.4#

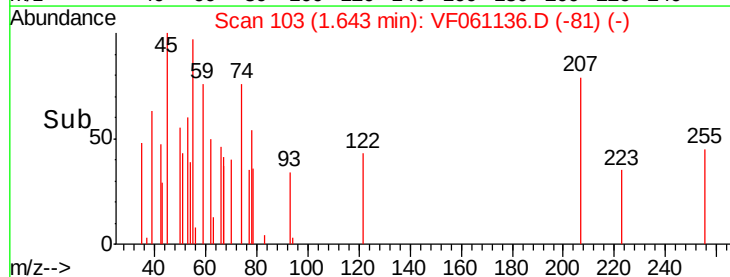


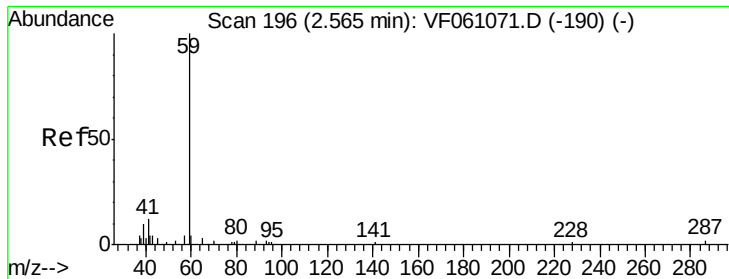
Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1.64

Time-->



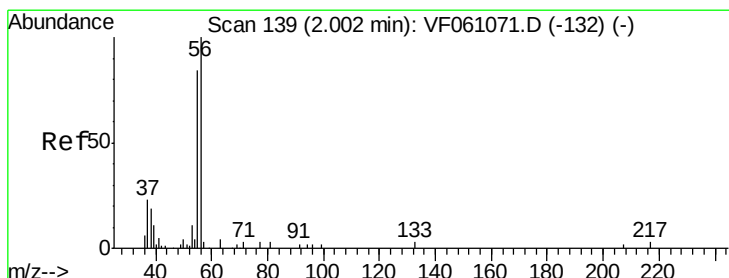
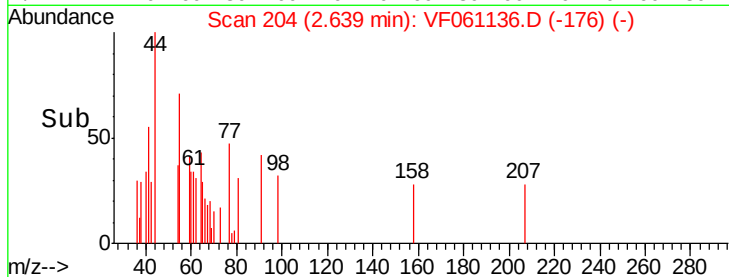
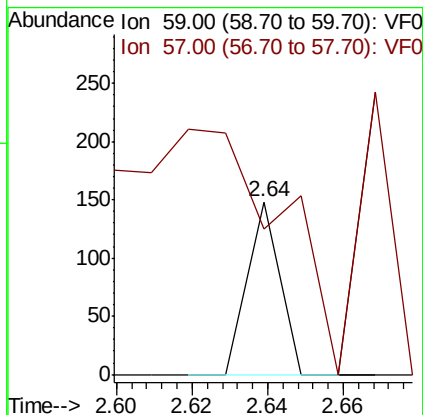
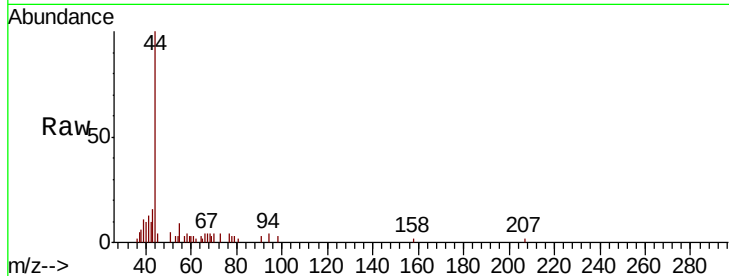


#11

Tert butyl alcohol
 Concen: 1.087 ug/l
 RT: 2.64 min Scan# 204
 Delta R.T. 0.07 min
 Lab File: VF061136.D
 Acq: 21 Dec 2018 20:05

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD006-0612-01RE

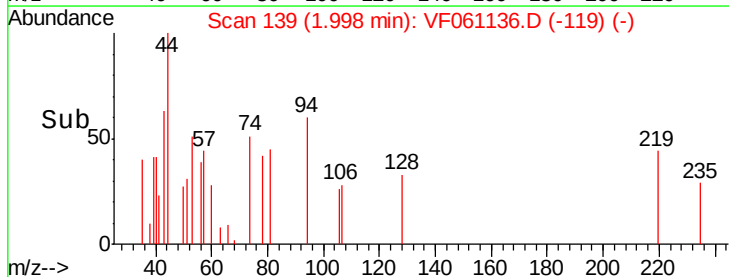
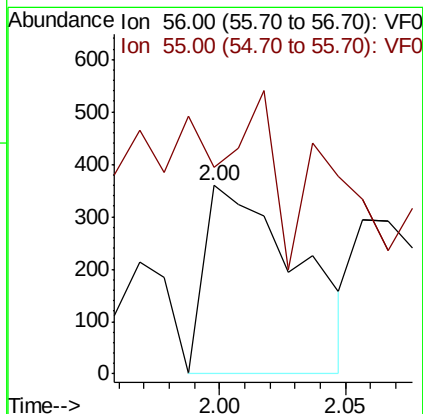
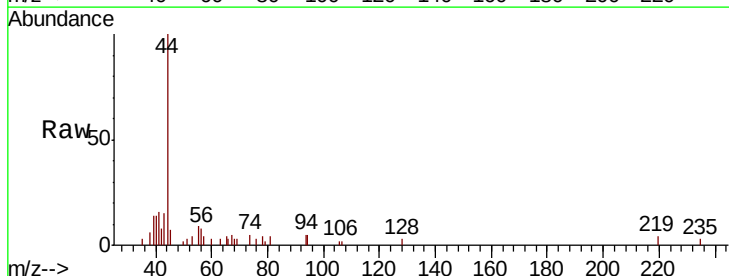
Tot Ion: 59 Resp: 88
 Ion Ratio Lower Upper
 59 100
 57 84.5 11.5 17.3#

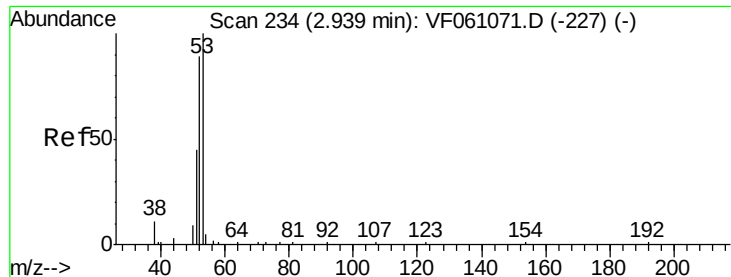


#13

Acrolein
 Concen: 15.814 ug/l
 RT: 2.00 min Scan# 139
 Delta R.T. -0.00 min
 Lab File: VF061136.D
 Acq: 21 Dec 2018 20:05

Tgt Ion: 56 Resp: 925
 Ion Ratio Lower Upper
 56 100
 55 109.7 70.2 105.2#





#15

Acrylonitrile

Concen: 1.678 ug/l

RT: 2.99 min Scan# 240

Delta R.T. 0.05 min

Lab File: VF061136.D

Acq: 21 Dec 2018 20:05

Instrument :

MSVOA_F

ClientSampleId :

P001-SD006-0612-01RE

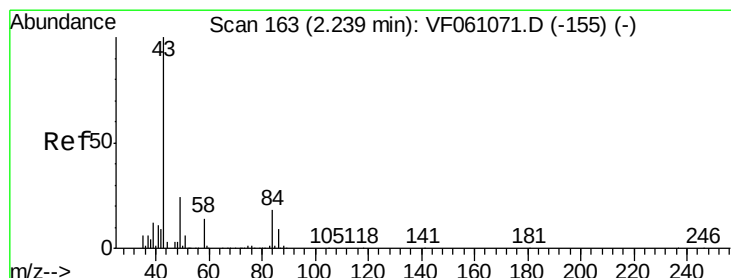
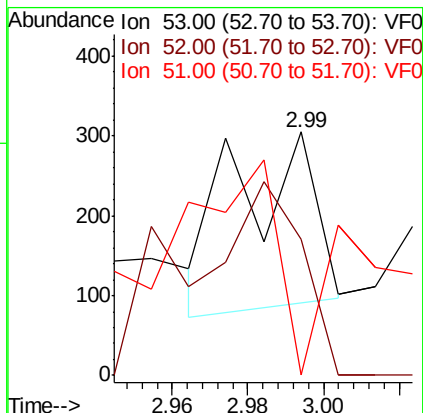
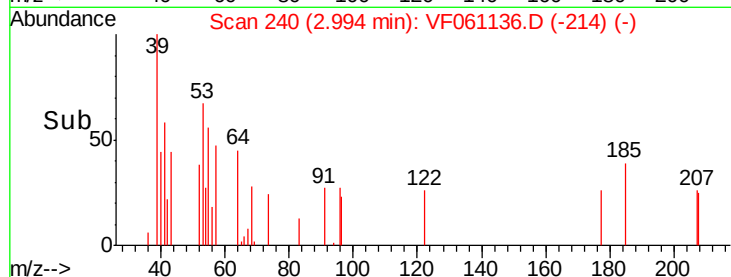
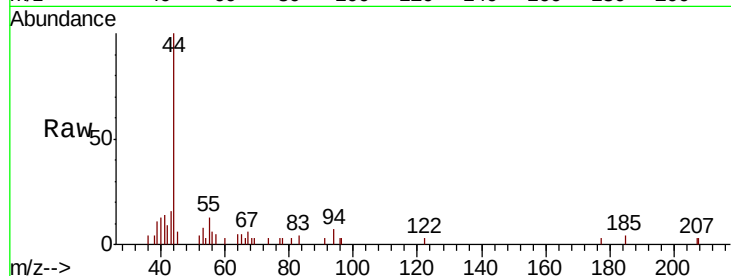
Tot Ion: 53 Resp: 314

Ion Ratio Lower Upper

53 100

52 55.7 71.3 106.9#

51 0.0 36.8 55.2#



#16

Acetone

Concen: 55.077 ug/l

RT: 2.27 min Scan# 167

Delta R.T. 0.03 min

Lab File: VF061136.D

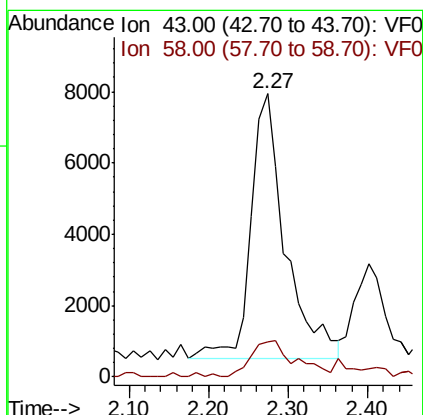
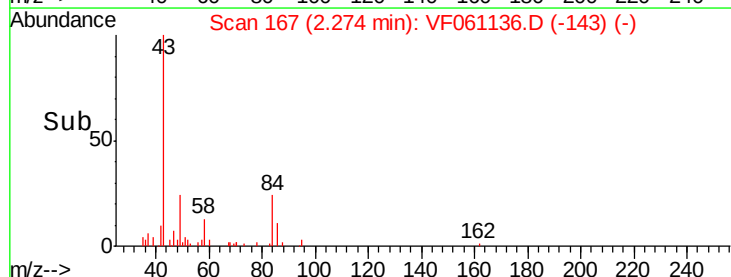
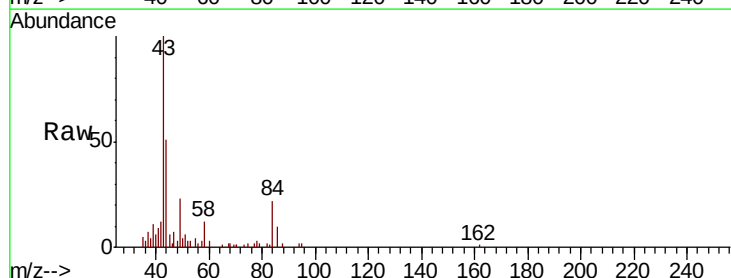
Acq: 21 Dec 2018 20:05

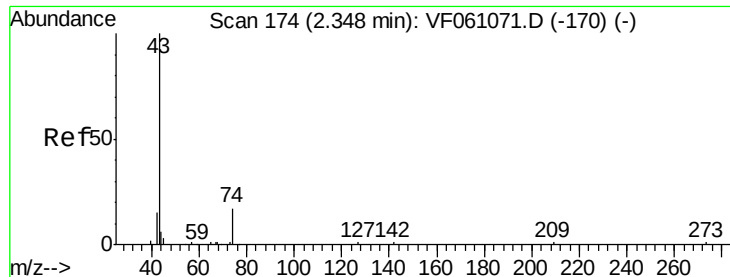
Tgt Ion: 43 Resp: 22086

Ion Ratio Lower Upper

43 100

58 12.4 11.1 16.7

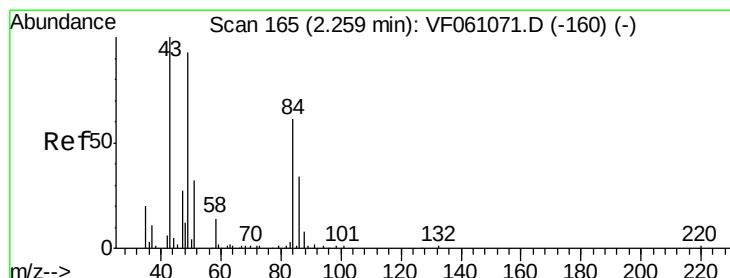
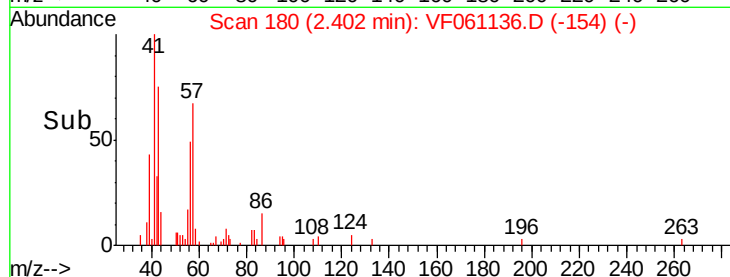
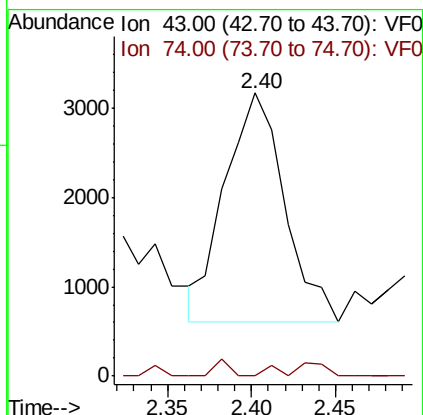
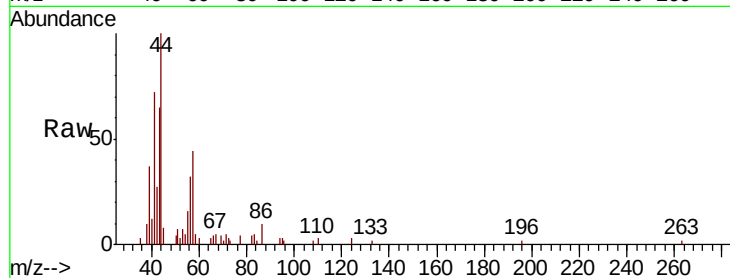




#18
Methyl Acetate
Concen: 7.573 ug/l
RT: 2.40 min Scan# 180
Delta R.T. 0.05 min
Lab File: VF061136.D
Acq: 21 Dec 2018 20:05

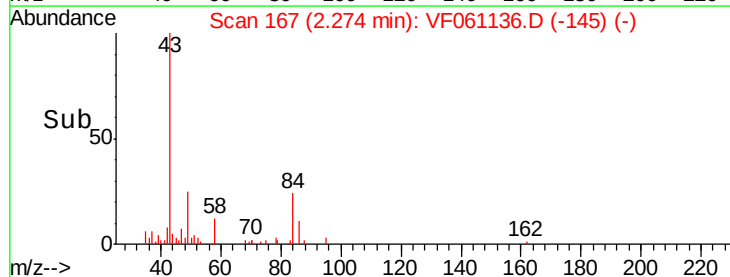
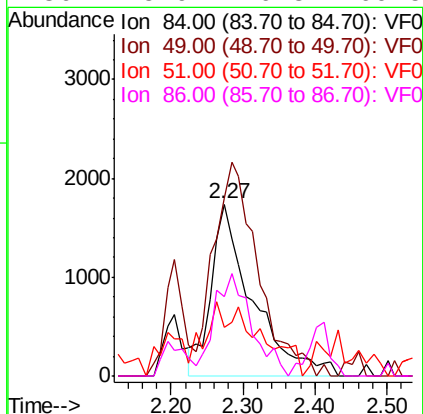
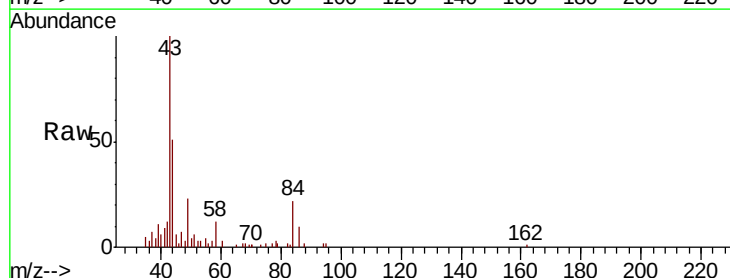
Instrument :
MSVOA_F
ClientSampleId :
P001-SD006-0612-01RE

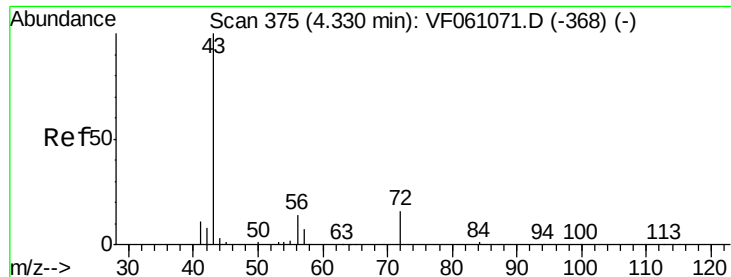
Tot Ion: 43 Resp: 6283
Ion Ratio Lower Upper
43 100
74 0.0 11.0 16.6#



#20
Methylene Chloride
Concen: 1.002 ug/l
RT: 2.27 min Scan# 167
Delta R.T. 0.02 min
Lab File: VF061136.D
Acq: 21 Dec 2018 20:05

Tgt Ion: 84 Resp: 6925
Ion Ratio Lower Upper
84 100
49 103.6 129.4 194.2#
51 28.1 44.0 66.0#
86 45.9 46.3 69.5#





#25

2-Butanone

Concen: 24.270 ug/l

RT: 4.38 min Scan# 381

Delta R.T. 0.05 min

Lab File: VF061136.D

Acq: 21 Dec 2018 20:05

Instrument :

MSVOA_F

ClientSampleId :

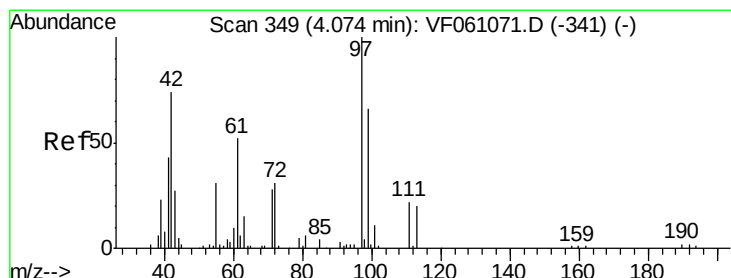
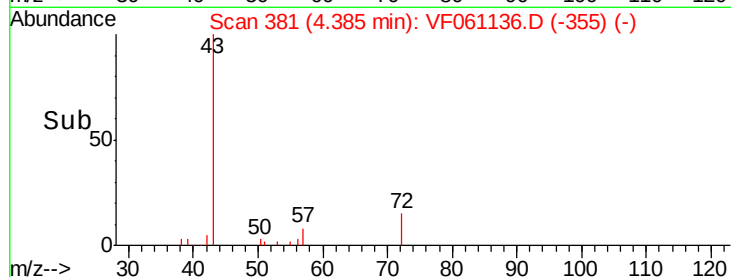
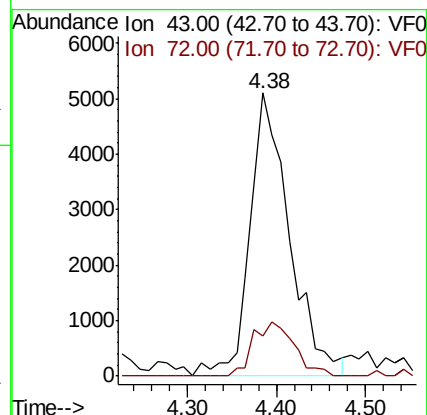
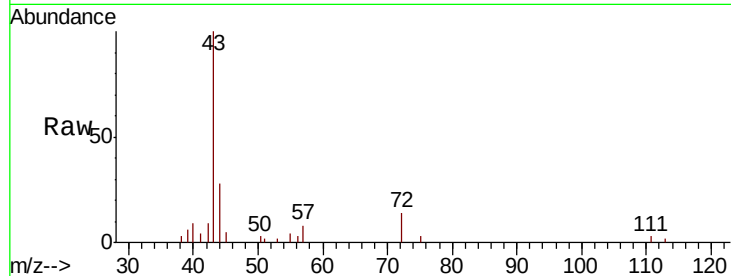
P001-SD006-0612-01RE

Tot Ion: 43 Resp: 15784

Ion Ratio Lower Upper

43 100

72 14.0 15.6 23.4#



#29

Tetrahydrofuran

Concen: 3.064 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.03 min

Lab File: VF061136.D

Acq: 21 Dec 2018 20:05

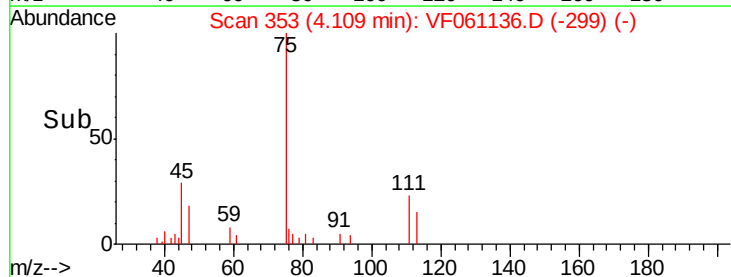
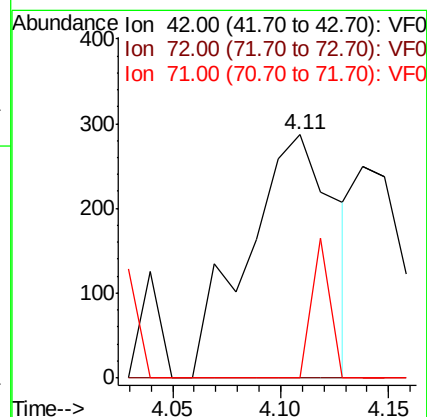
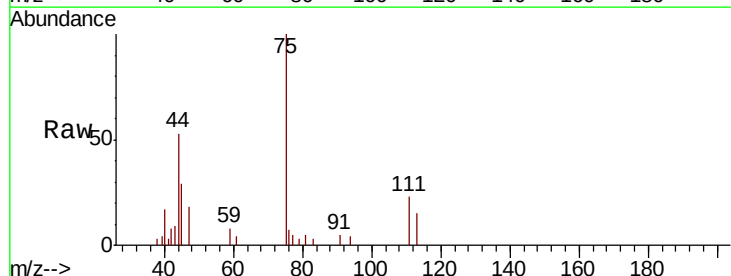
Tgt Ion: 42 Resp: 811

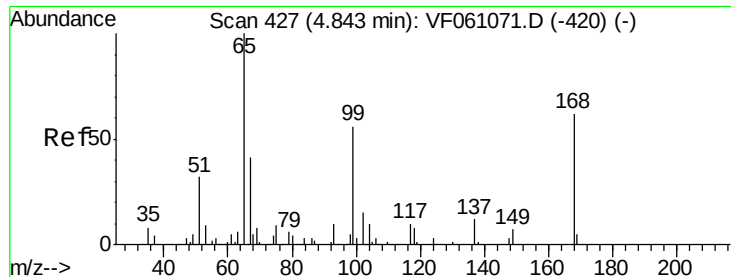
Ion Ratio Lower Upper

42 100

72 0.0 31.8 47.8#

71 12.1 29.7 44.5#

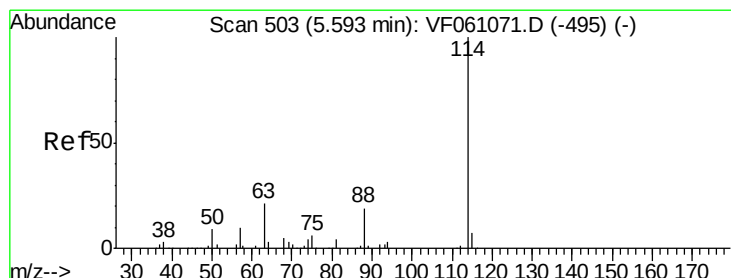
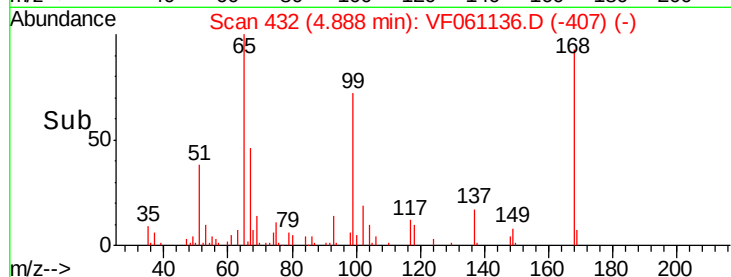
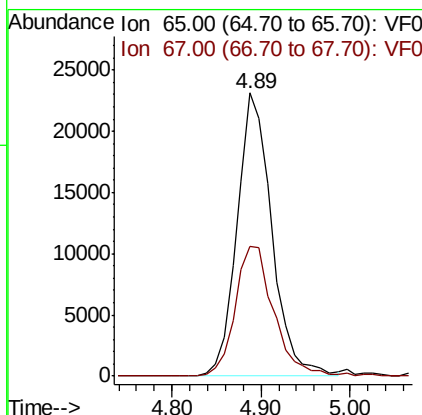
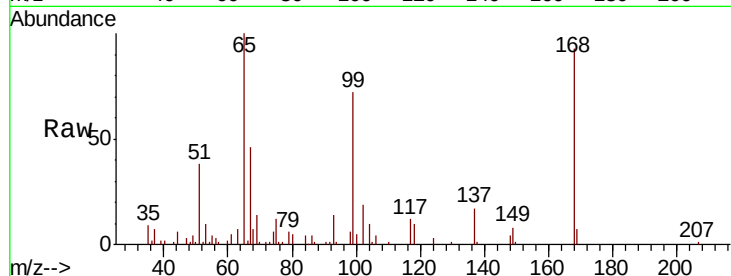




#33
 1,2-Dichloroethane-d4
 Concen: 31.298 ug/l
 RT: 4.89 min Scan# 432
 Delta R.T. 0.04 min
 Lab File: VF061136.D
 Acq: 21 Dec 2018 20:05

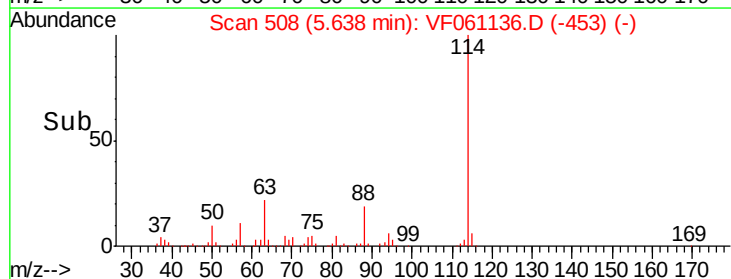
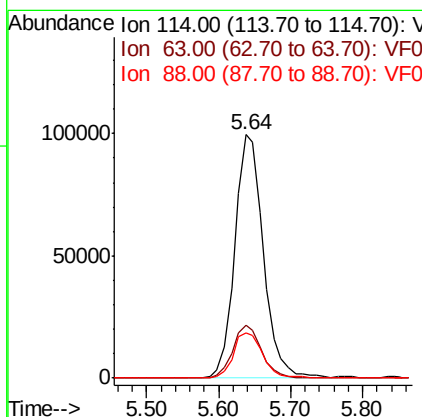
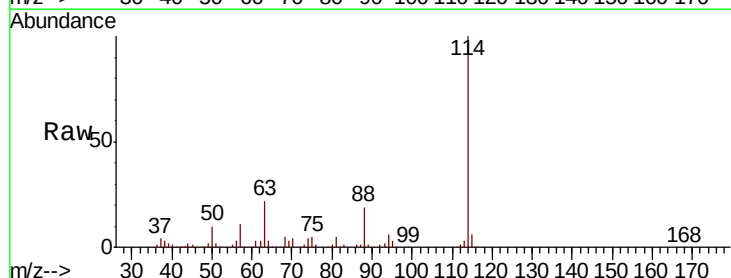
Instrument :
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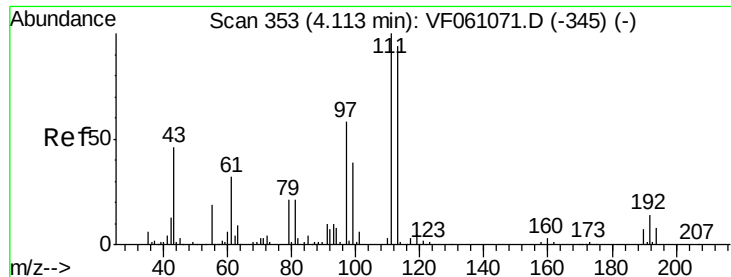
Tot Ion: 65 Resp: 62782
 Ion Ratio Lower Upper
 65 100
 67 45.7 0.0 94.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.64 min Scan# 508
 Delta R.T. 0.04 min
 Lab File: VF061136.D
 Acq: 21 Dec 2018 20:05

Tgt Ion: 114 Resp: 274941
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 41.6
 88 18.8 0.0 38.0

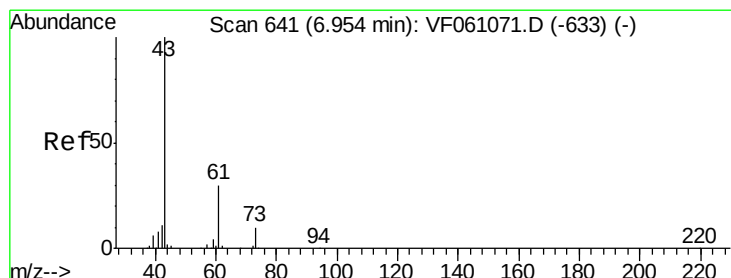
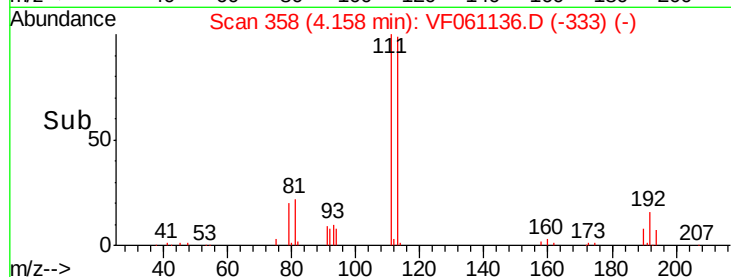
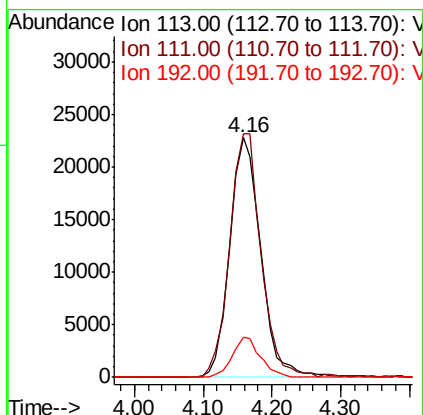
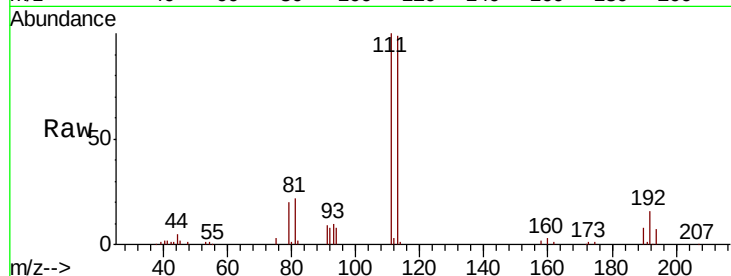




#35
 Dibromofluoromethane
 Concen: 32.324 ug/l
 RT: 4.16 min Scan# 358
 Delta R.T. 0.04 min
 Lab File: VF061136.D
 Acq: 21 Dec 2018 20:05

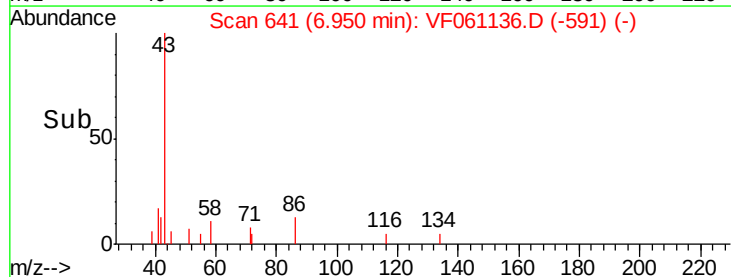
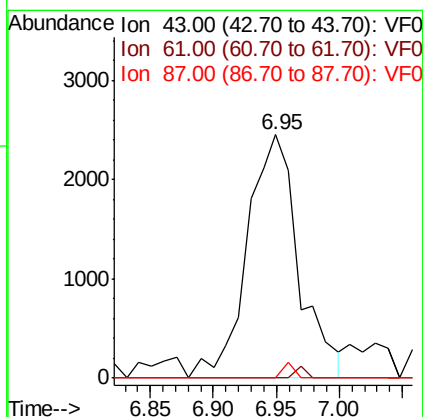
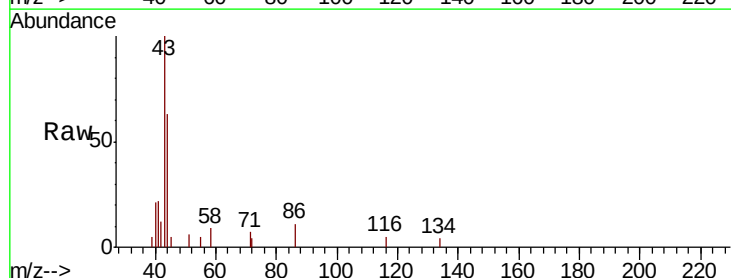
Instrument :
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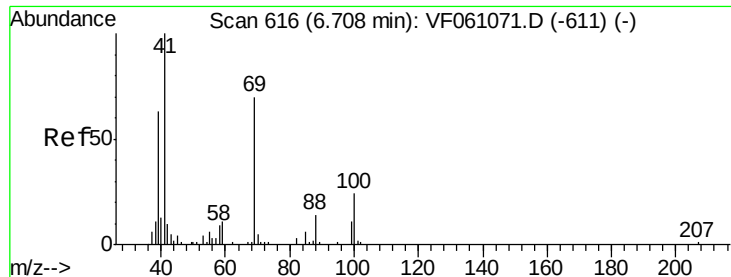
Tot Ion:113 Resp: 71192
 Ion Ratio Lower Upper
 113 100
 111 101.5 85.2 127.8
 192 17.0 12.8 19.2



#43
 Isopropyl Acetate
 Concen: 4.342 ug/l
 RT: 6.95 min Scan# 641
 Delta R.T. -0.00 min
 Lab File: VF061136.D
 Acq: 21 Dec 2018 20:05

Tgt Ion: 43 Resp: 6958
 Ion Ratio Lower Upper
 43 100
 61 0.0 23.8 35.8#
 87 0.0 0.0 0.0

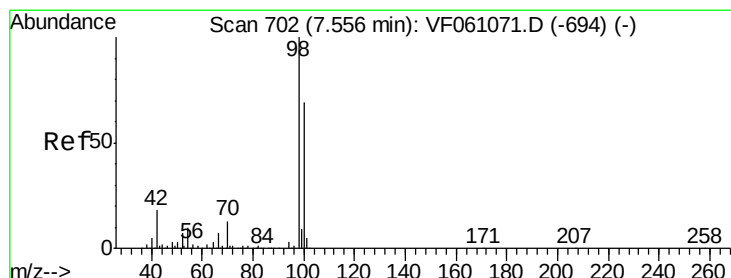
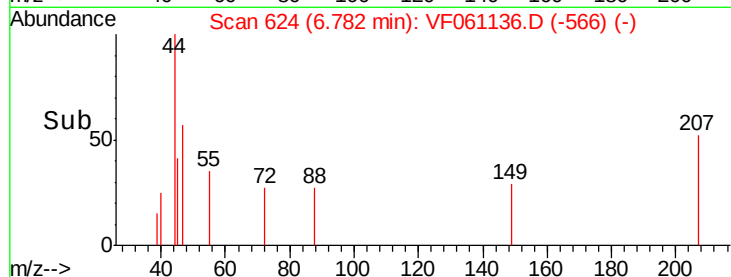
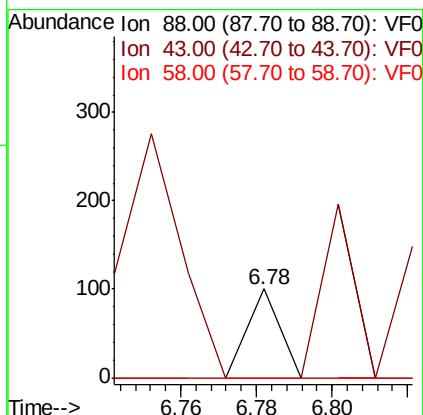
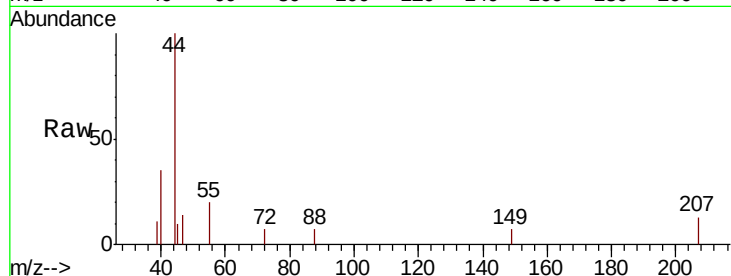




#49
1,4-Dioxane
Concen: 7.269 ug/l
RT: 6.78 min Scan# 624
Delta R.T. 0.07 min
Lab File: VF061136.D
Acq: 21 Dec 2018 20:05

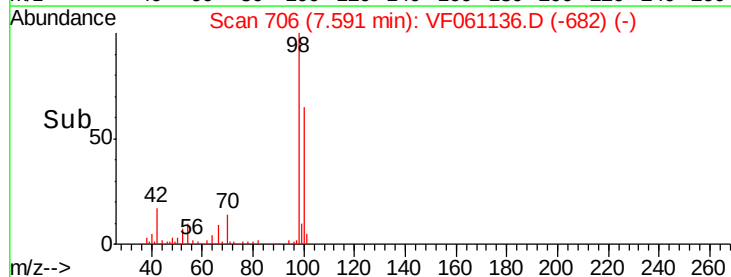
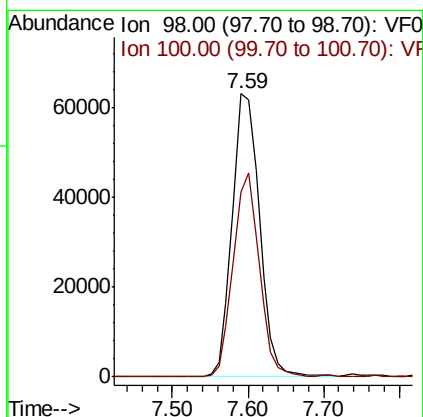
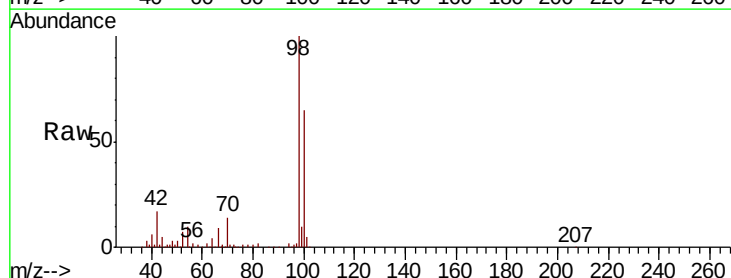
Instrument :
MSVOA_F
ClientSampleId :
P001-SD006-0612-01RE

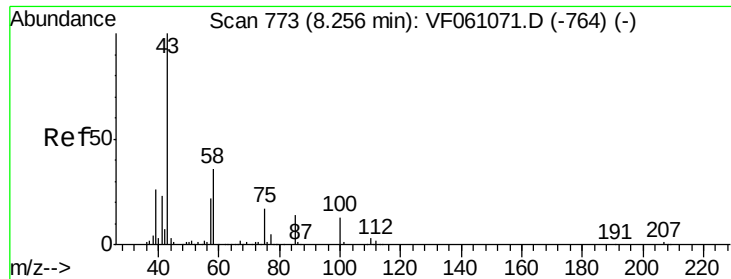
Tot Ion: 88 Resp: 59
Ion Ratio Lower Upper
88 100
43 0.0 33.3 49.9#
58 0.0 53.2 79.8#



#50
Toluene-d8
Concen: 25.424 ug/l
RT: 7.59 min Scan# 706
Delta R.T. 0.03 min
Lab File: VF061136.D
Acq: 21 Dec 2018 20:05

Tgt Ion: 98 Resp: 158683
Ion Ratio Lower Upper
98 100
100 65.4 55.3 82.9





#51

4-Methyl-2-Pentanone

Concen: 1.939 ug/l

RT: 8.31 min Scan# 779

Delta R.T. 0.05 min

Lab File: VF061136.D

Acq: 21 Dec 2018 20:05

Instrument :

MSVOA_F

ClientSampleId :

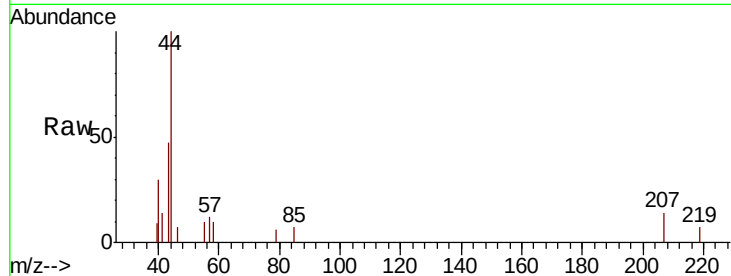
P001-SD006-0612-01RE

Tot Ion: 43 Resp: 2131

Ion Ratio Lower Upper

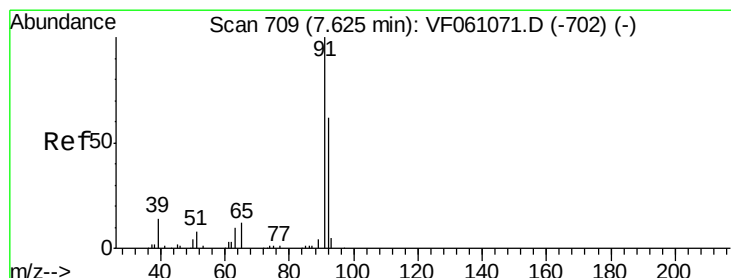
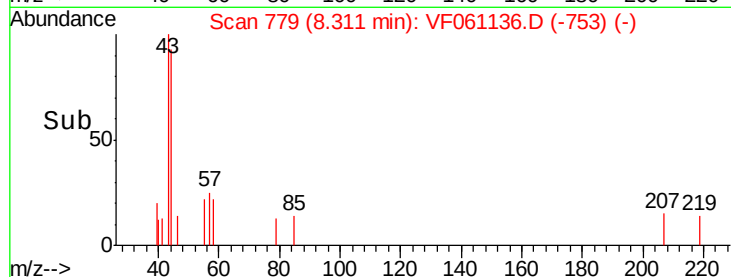
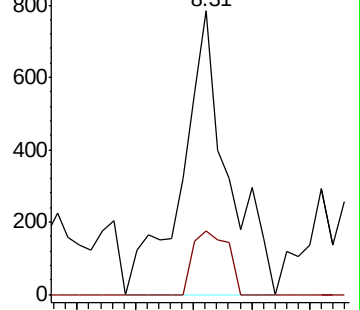
43 100

58 22.2 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: 1.171 ug/l

RT: 7.67 min Scan# 714

Delta R.T. 0.04 min

Lab File: VF061136.D

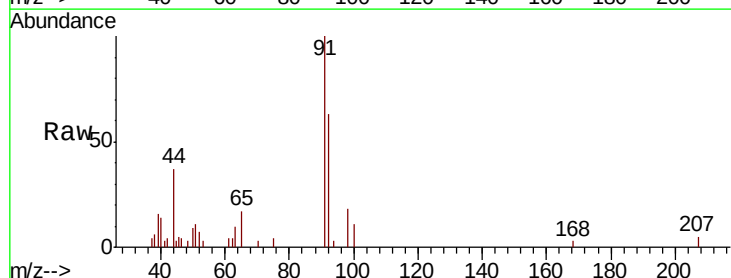
Acq: 21 Dec 2018 20:05

Tgt Ion: 92 Resp: 5534

Ion Ratio Lower Upper

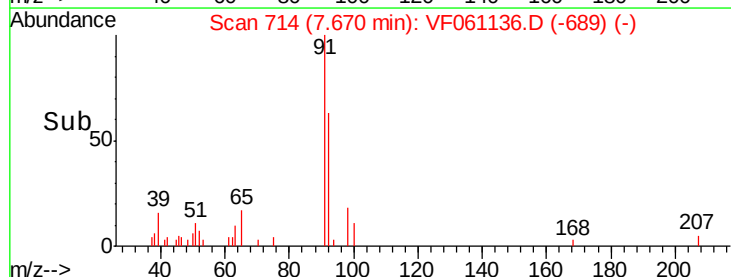
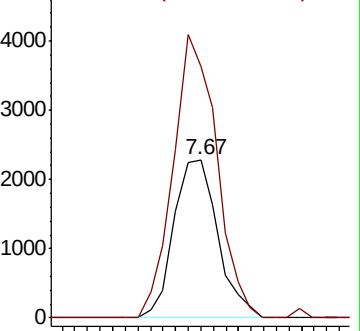
92 100

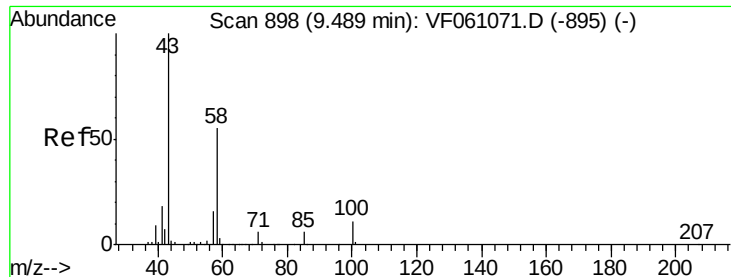
91 158.7 128.8 193.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

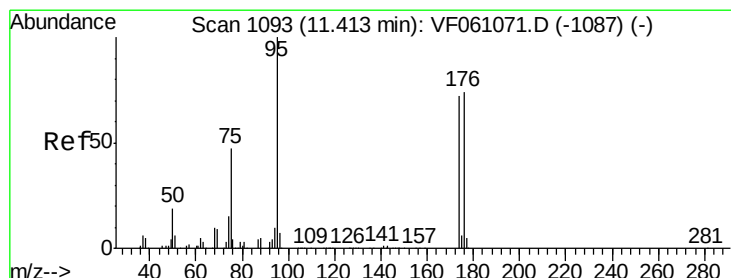
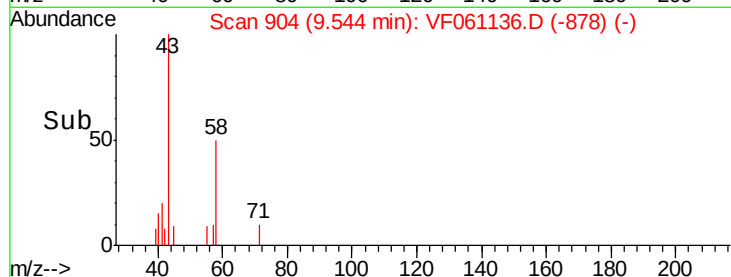
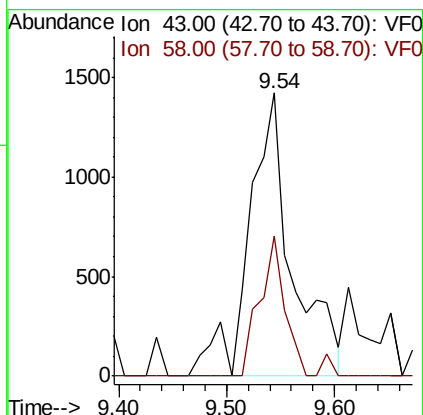
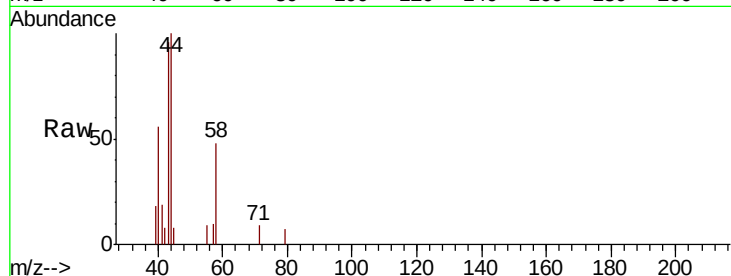




#59
2-Hexanone
Concen: 4.988 ug/l
RT: 9.54 min Scan# 904
Delta R.T. 0.05 min
Lab File: VF061136.D
Acq: 21 Dec 2018 20:05

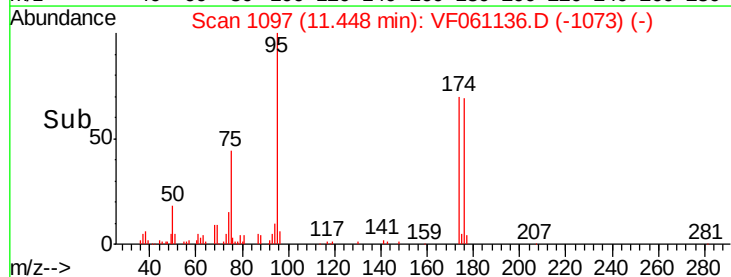
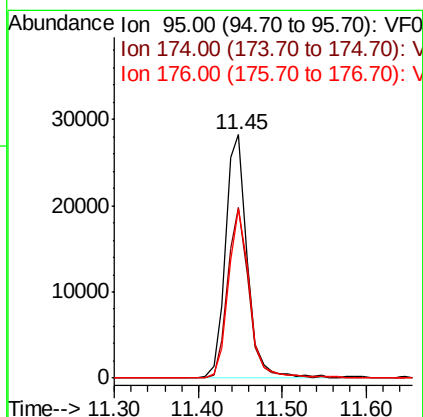
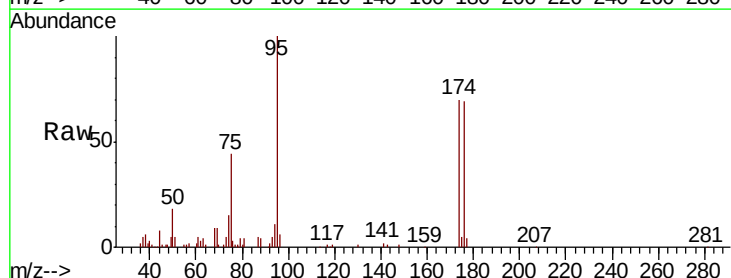
Instrument :
MSVOA_F
ClientSampleId :
P001-SD006-0612-01RE

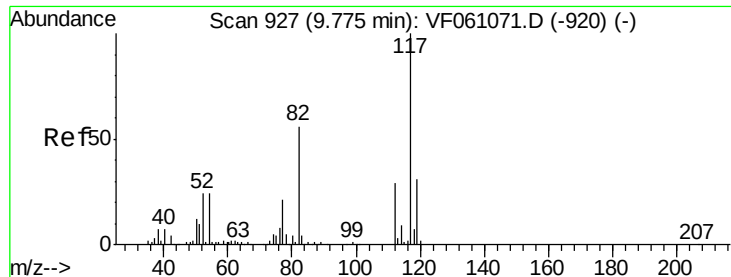
Tot Ion: 43 Resp: 3964
Ion Ratio Lower Upper
43 100
58 49.6 25.1 75.2



#62
4-Bromofluorobenzene
Concen: 17.618 ug/l
RT: 11.45 min Scan# 1097
Delta R.T. 0.03 min
Lab File: VF061136.D
Acq: 21 Dec 2018 20:05

Tgt Ion: 95 Resp: 50694
Ion Ratio Lower Upper
95 100
174 70.1 0.0 143.8
176 69.3 0.0 147.6

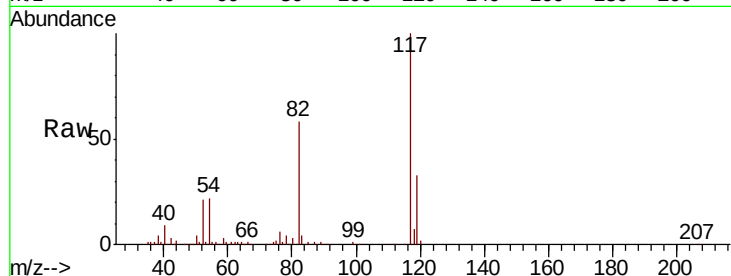




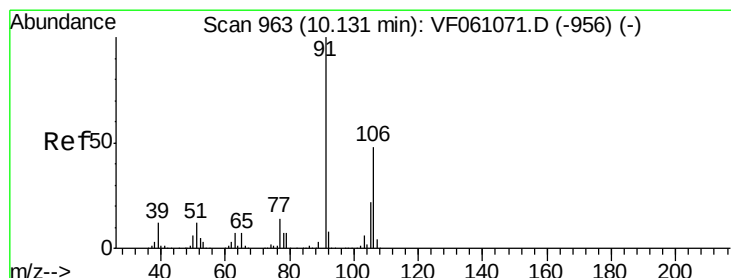
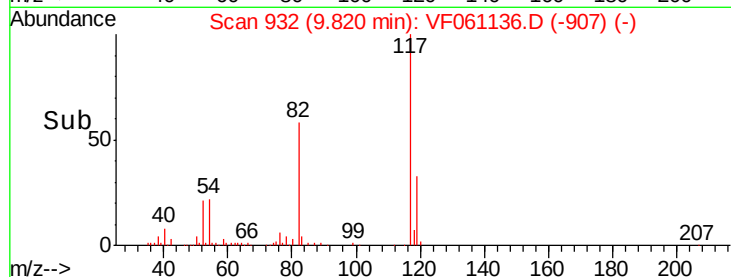
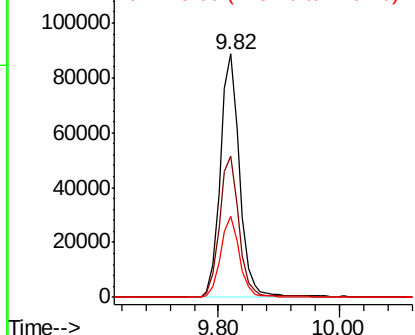
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.82 min Scan# 932
Delta R.T. 0.04 min
Lab File: VF061136.D
Acq: 21 Dec 2018 20:05

Instrument :
MSVOA_F
ClientSampleId :
P001-SD006-0612-01RE

Tot Ion:117 Resp: 197310
Ion Ratio Lower Upper
117 100
82 57.9 45.0 67.4
119 33.2 24.8 37.2

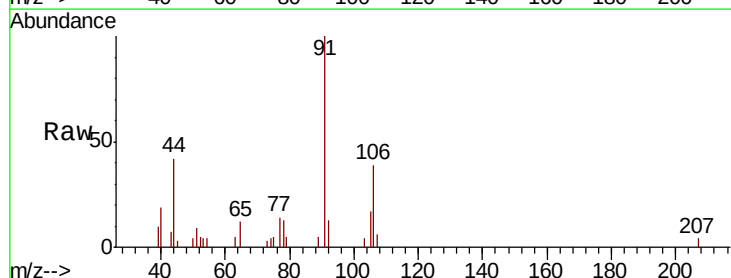


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

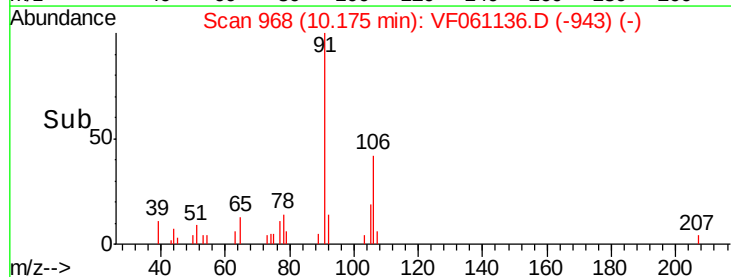
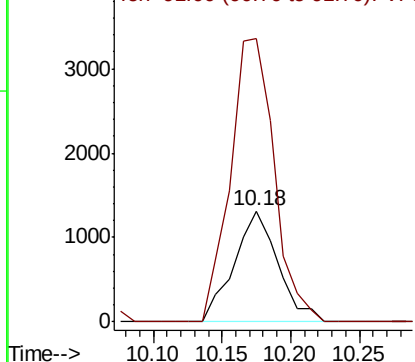


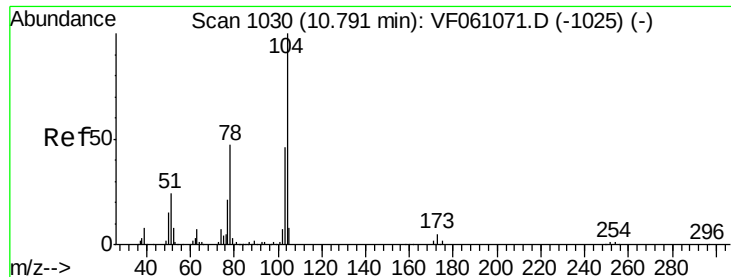
#68
m/p-Xylenes
Concen: 1.122 ug/l
RT: 10.18 min Scan# 968
Delta R.T. 0.04 min
Lab File: VF061136.D
Acq: 21 Dec 2018 20:05

Tgt Ion:106 Resp: 2931
Ion Ratio Lower Upper
106 100
91 255.3 168.2 252.2#



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





#70

Stvrene

Concen: Below Cal

RT: 10.79 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VF061136.D

Acq: 21 Dec 2018 20:05

Instrument :

MSVOA_F

ClientSampleId :

P001-SD006-0612-01RE

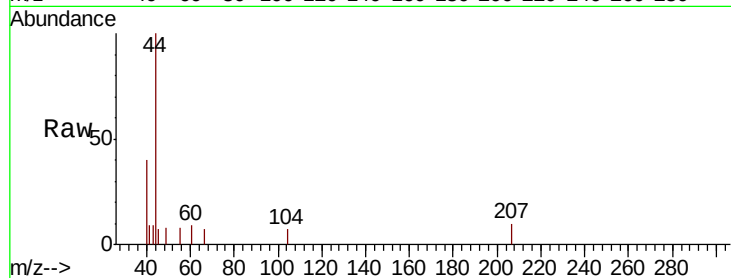
Tot Ion:104 Resp: 61

Ion Ratio Lower Upper

104 100

78 0.0 38.4 57.6#

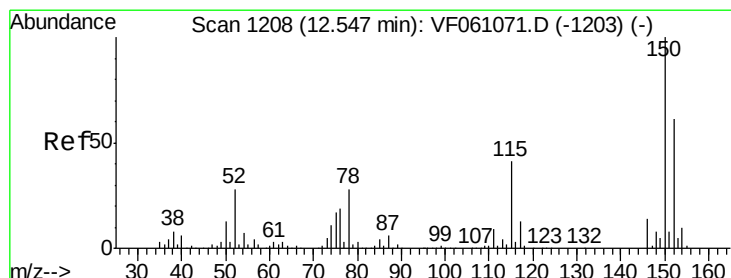
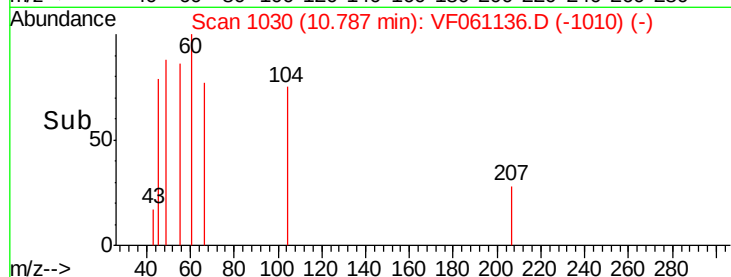
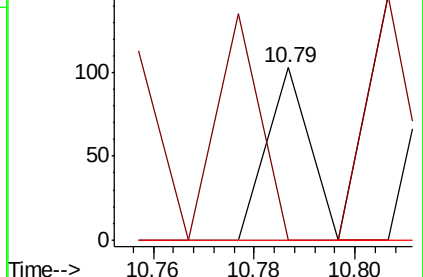
103 0.0 37.0 55.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VF0

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.58 min Scan# 1212

Delta R.T. 0.03 min

Lab File: VF061136.D

Acq: 21 Dec 2018 20:05

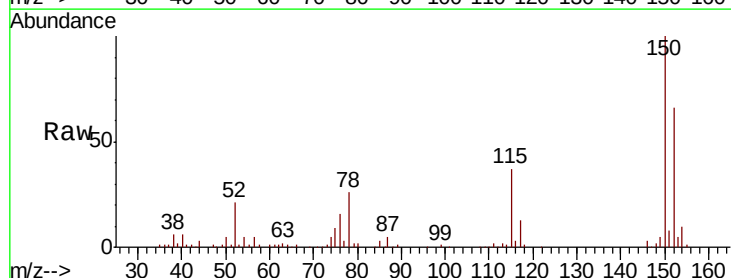
Tgt Ion:152 Resp: 57754

Ion Ratio Lower Upper

152 100

115 57.1 33.3 99.9

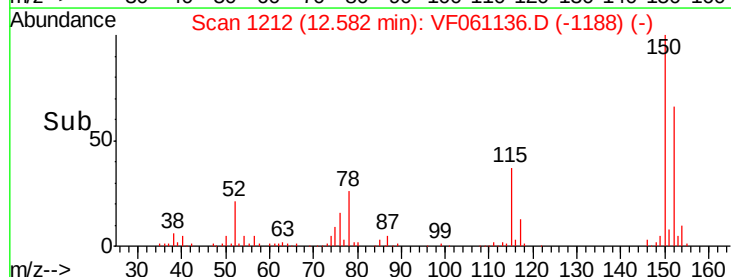
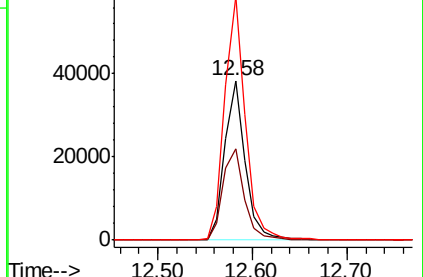
150 152.5 0.0 328.2

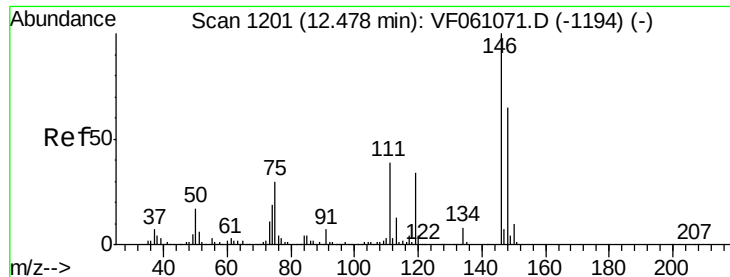


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V

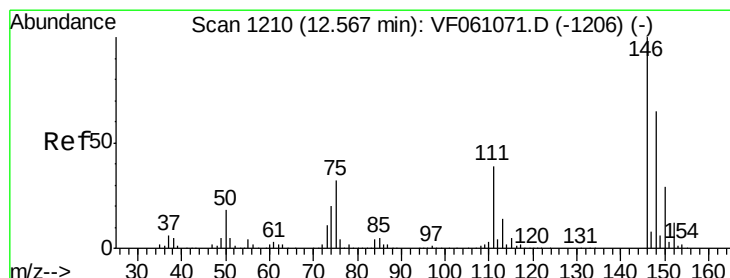
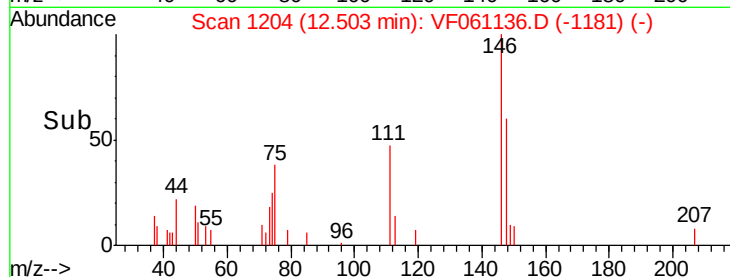
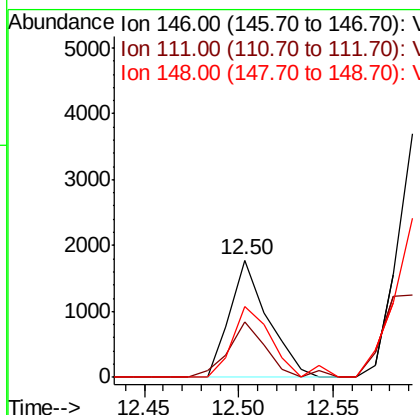
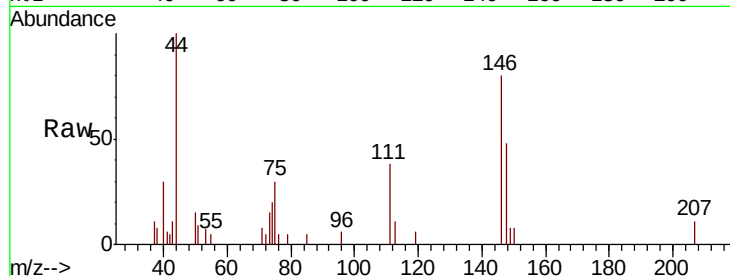




#87
 1,3-Dichlorobenzene
 Concen: Below Cal
 RT: 12.50 min Scan# 1204
 Delta R.T. 0.03 min
 Lab File: VF061136.D
 Acq: 21 Dec 2018 20:05

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD006-0612-01RE

Tot Ion:146 Resp: 2477
 Ion Ratio Lower Upper
 146 100
 111 47.3 19.3 57.9
 148 60.3 32.4 97.2



#88
 1,4-Dichlorobenzene
 Concen: 2.920 ug/l
 RT: 12.59 min Scan# 1213
 Delta R.T. 0.02 min
 Lab File: VF061136.D
 Acq: 21 Dec 2018 20:05

Tgt Ion:146 Resp: 5745
 Ion Ratio Lower Upper
 146 100
 111 33.7 19.4 58.4
 148 65.5 32.4 97.0

