

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122718\
 Data File : VF061206.D
 Acq On : 27 Dec 2018 14:16
 Operator : VA/AP
 Sample : J6499-01
 Misc : 5.06g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 72-11989

Quant Time: Dec 27 14:40:02 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

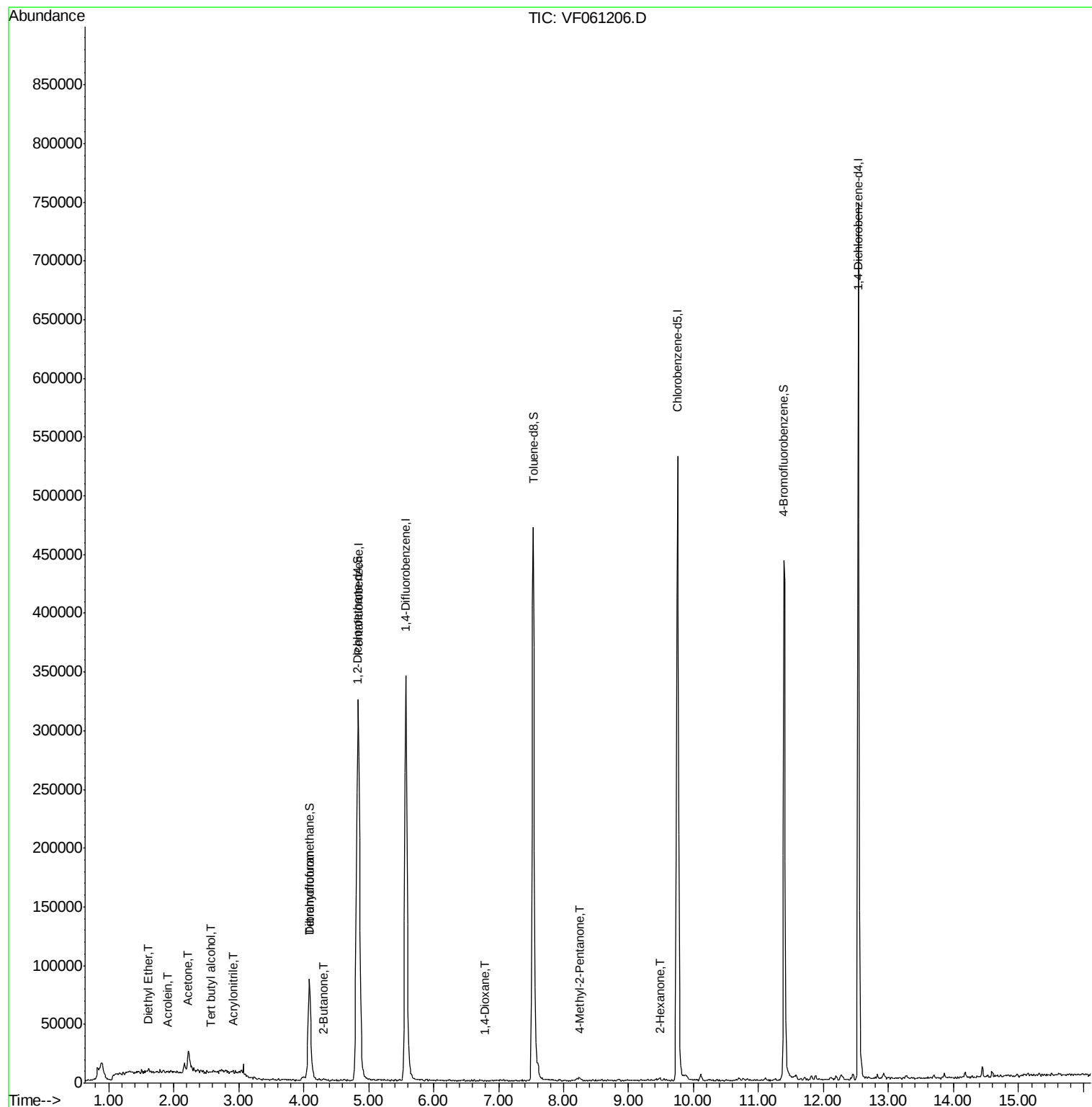
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	223752	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.58	114	394093	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.75	117	365510	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.53	152	175673	50.00	ug/l	-0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.82	65	147947	51.41	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	102.82%	
35) Dibromofluoromethane	4.09	113	80460	25.49	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	50.98%	
50) Toluene-d8	7.53	98	390105	43.61	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	87.22%	
62) 4-Bromofluorobenzene	11.39	95	182754	44.31	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	88.62%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	1.61	74	730	1.056	ug/l	87
11) Tert butyl alcohol	2.56	59	388	3.341	ug/l #	64
13) Acrolein	1.92	56	315	3.754	ug/l	92
15) Acrylonitrile	2.92	53	966	3.597	ug/l #	49
16) Acetone	2.23	43	24476	42.544	ug/l	97
20) Methylene Chloride	2.24	84	6241	Below Cal		84
25) 2-Butanone	4.31	43	2434	2.609	ug/l #	82
29) Tetrahydrofuran	4.08	42	643	1.693	ug/l #	47
49) 1,4-Dioxane	6.79	88	69	5.930	ug/l #	23
51) 4-Methyl-2-Pentanone	8.24	43	2754	1.748	ug/l #	67
59) 2-Hexanone	9.48	43	3051	2.678	ug/l	88
70) Styrene	10.77	104	884	Below Cal	#	69
78) n-propylbenzene	11.58	91	2413	Below Cal		82
87) 1,3-Dichlorobenzene	12.46	146	804	Below Cal	#	66

(#) = 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
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.02 min

Lab File: VF061206.D

Acq: 27 Dec 2018 14:16

Instrument :

MSVOA_F

ClientSampleId :

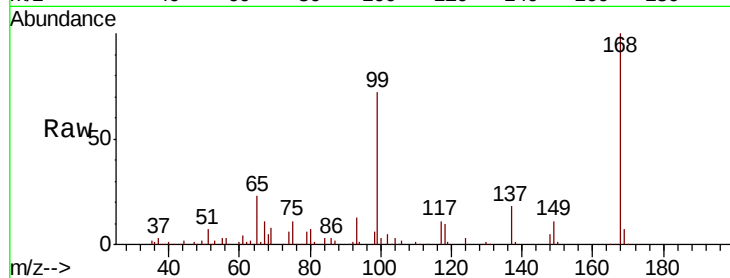
72-11989

Tot Ion:168 Resp: 223752

Ion Ratio Lower Upper

168 100

99 72.3 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

80000

60000

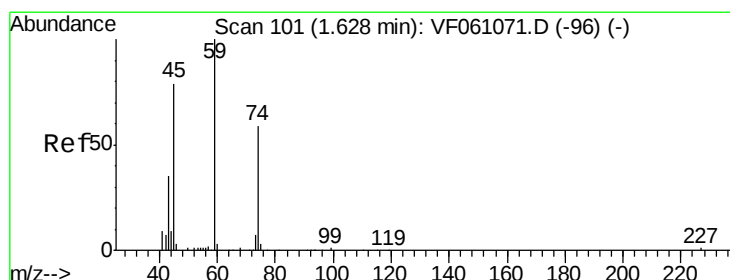
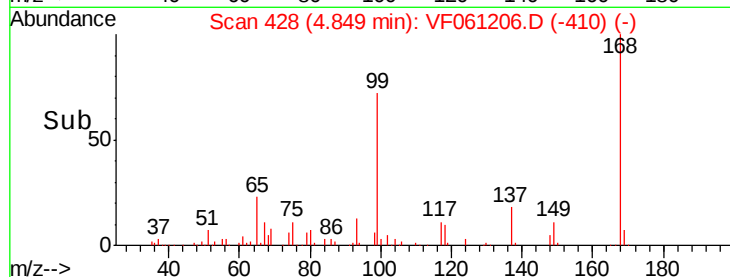
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#8

Diethyl Ether

Concen: 1.056 ug/l

RT: 1.61 min Scan# 100

Delta R.T. -0.01 min

Lab File: VF061206.D

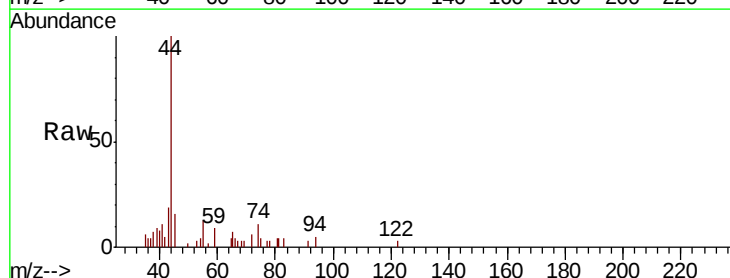
Acq: 27 Dec 2018 14:16

Tgt Ion: 74 Resp: 730

Ion Ratio Lower Upper

74 100

45 150.7 67.8 203.4



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

800

600

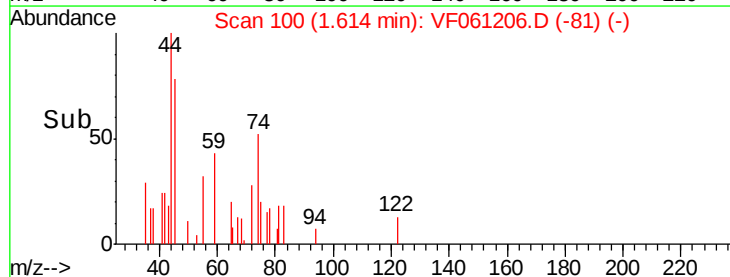
400

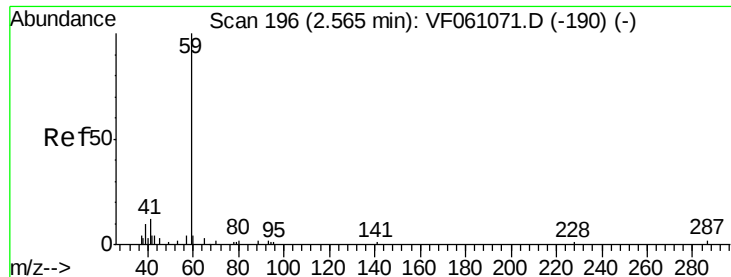
200

0

Time-->

1.55 1.60 1.65



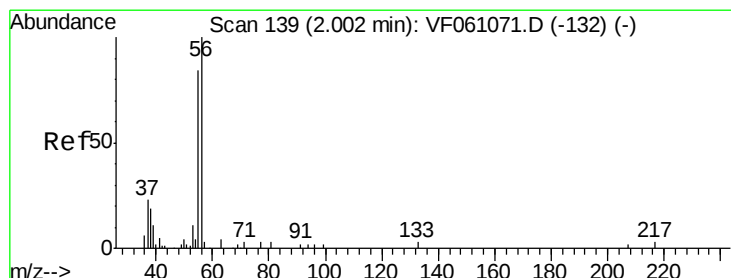
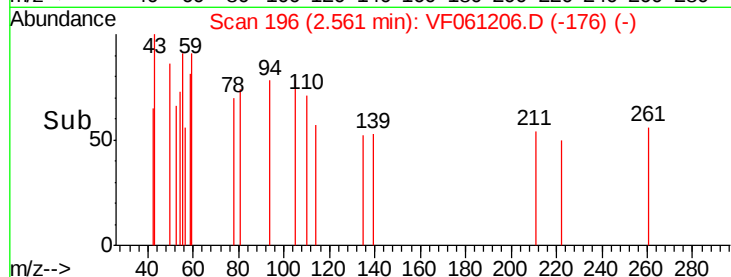
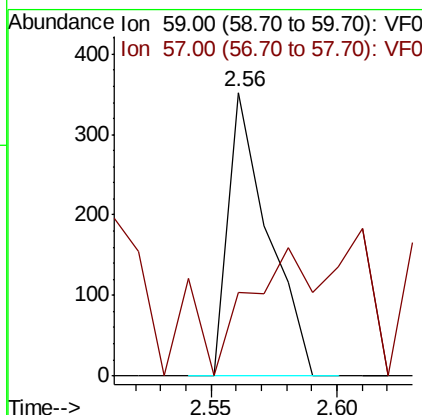
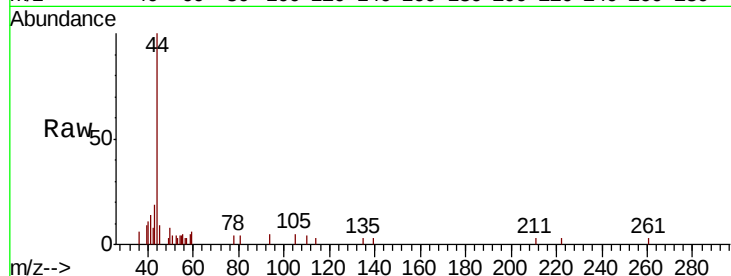


#11

Tert butyl alcohol
Concen: 3.341 ug/l
RT: 2.56 min Scan# 196
Delta R.T. -0.00 min
Lab File: VF061206.D
Acq: 27 Dec 2018 14:16

Instrument :
MSVOA_F
ClientSampled :
72-11989

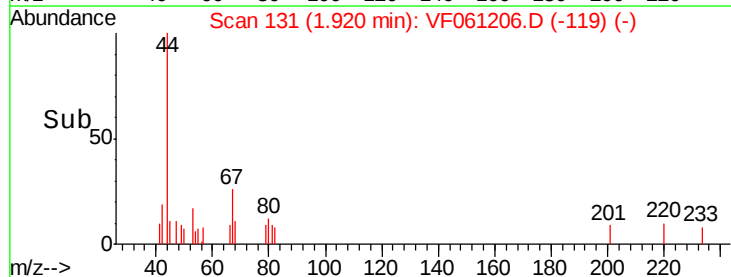
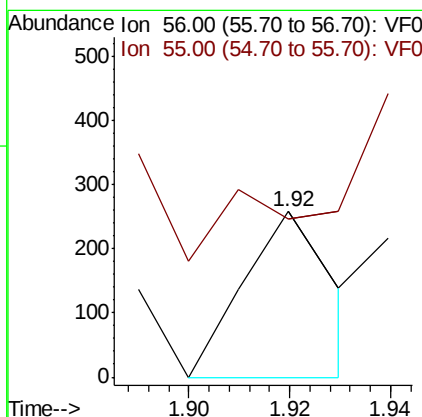
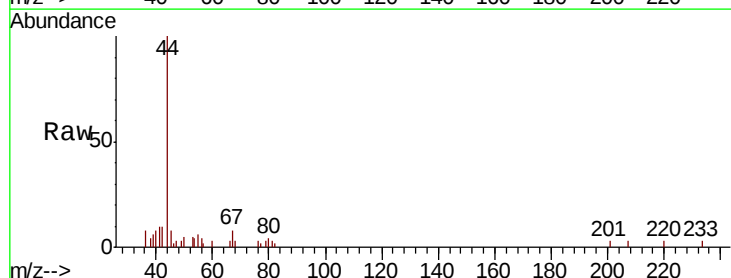
Tot Ion: 59 Resp: 388
Ion Ratio Lower Upper
59 100
57 29.3 11.5 17.3#

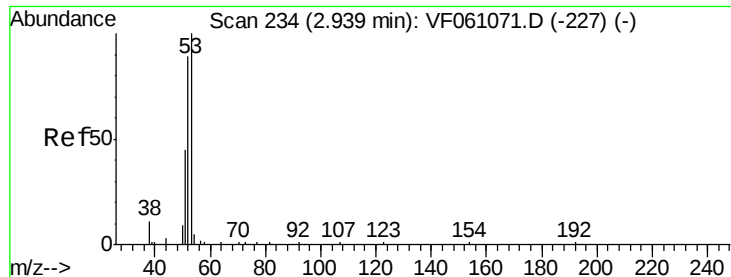


#13

Acrolein
Concen: 3.754 ug/l
RT: 1.92 min Scan# 131
Delta R.T. -0.08 min
Lab File: VF061206.D
Acq: 27 Dec 2018 14:16

Tgt Ion: 56 Resp: 315
Ion Ratio Lower Upper
56 100
55 95.3 70.2 105.2





#15

Acrylonitrile

Concen: 3.597 ug/l

RT: 2.92 min Scan# 232

Delta R.T. -0.02 min

Lab File: VF061206.D

Acq: 27 Dec 2018 14:16

Instrument :

MSVOA_F

ClientSampleId :

72-11989

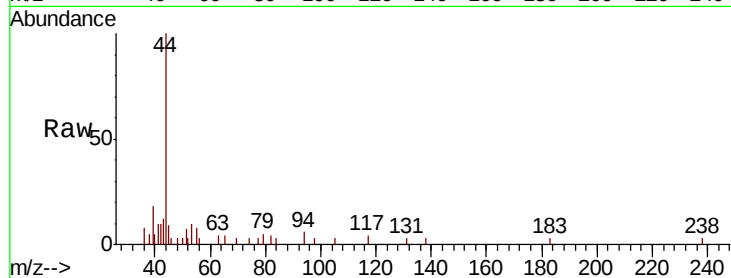
Tot Ion: 53 Resp: 966

Ion Ratio Lower Upper

53 100

52 33.4 71.3 106.9#

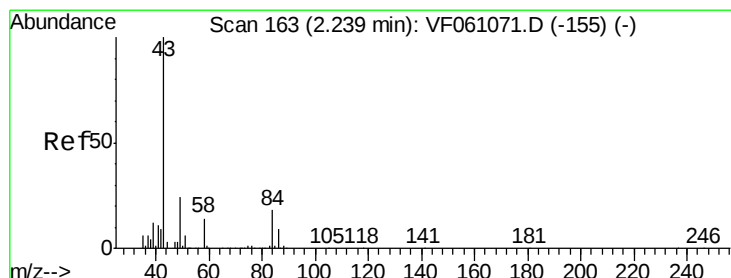
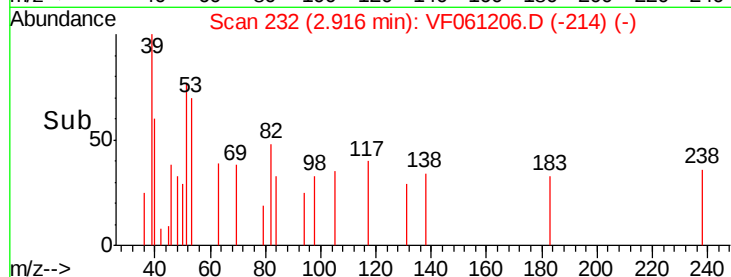
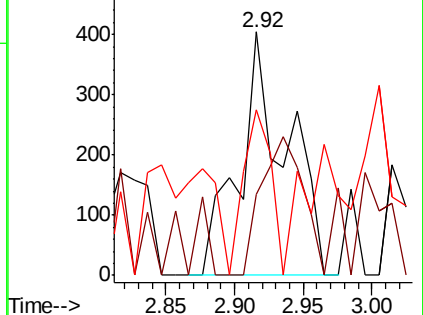
51 68.3 36.8 55.2#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 42.544 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.01 min

Lab File: VF061206.D

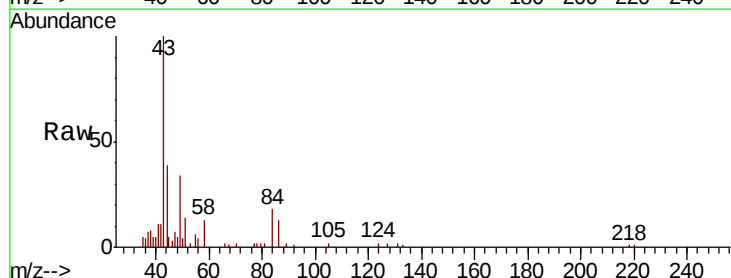
Acq: 27 Dec 2018 14:16

Tgt Ion: 43 Resp: 24476

Ion Ratio Lower Upper

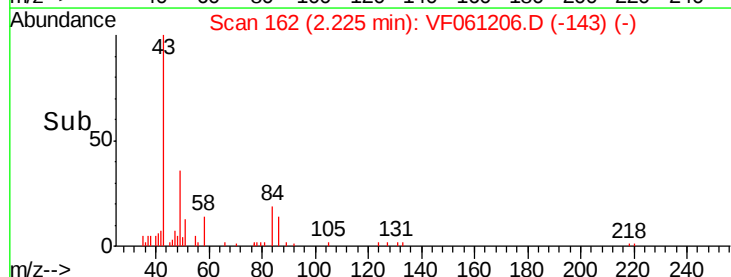
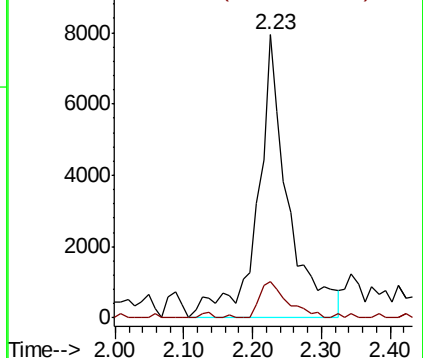
43 100

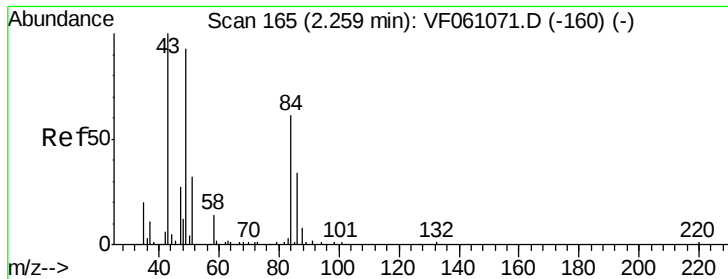
58 12.8 11.1 16.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#20

Methylene Chloride

Concen: Below Cal

RT: 2.24 min Scan# 163

Delta R.T. -0.02 min

Lab File: VF061206.D

Acq: 27 Dec 2018 14:16

Instrument :
MSVOA_F
ClientSampleId :
72-11989

Tot Ion: 84 Resp: 6241

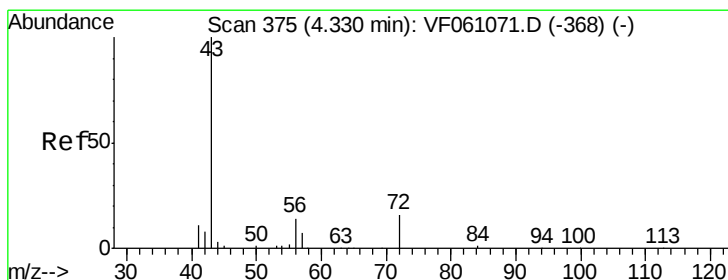
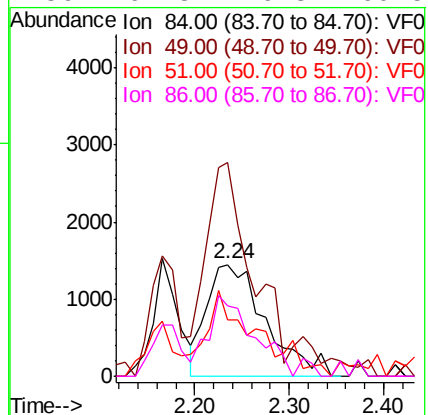
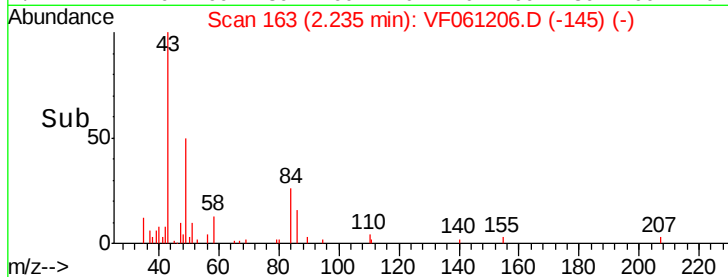
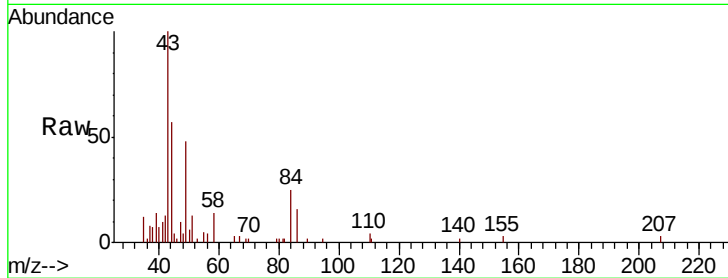
Ion	Ratio	Lower	Upper
84	100		
49	191.7	129.4	194.2
51	50.6	44.0	66.0
86	62.8	46.3	69.5

84 100

49 191.7 129.4 194.2

51 50.6 44.0 66.0

86 62.8 46.3 69.5



#25

2-Butanone

Concen: 2.609 ug/l

RT: 4.31 min Scan# 373

Delta R.T. -0.02 min

Lab File: VF061206.D

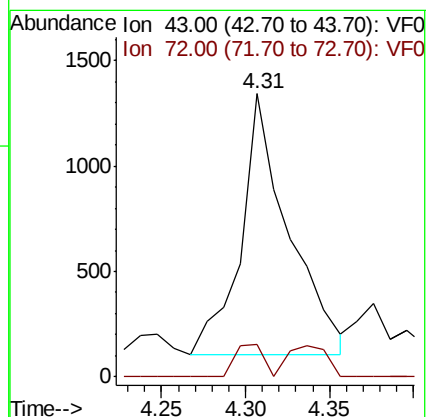
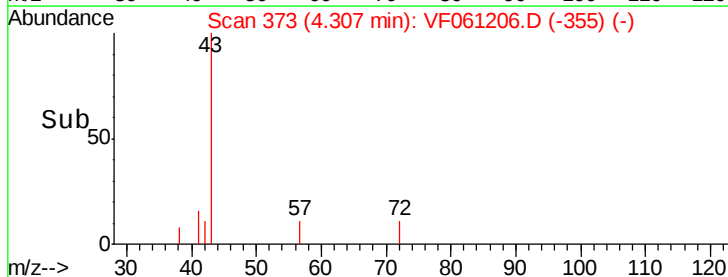
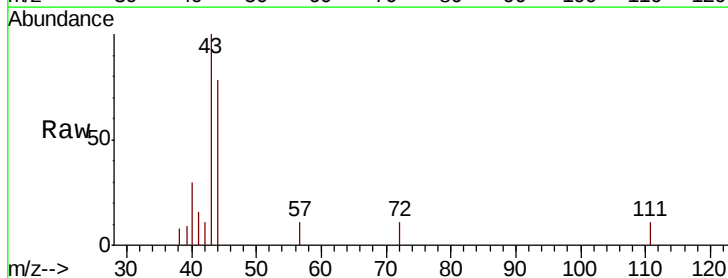
Acq: 27 Dec 2018 14:16

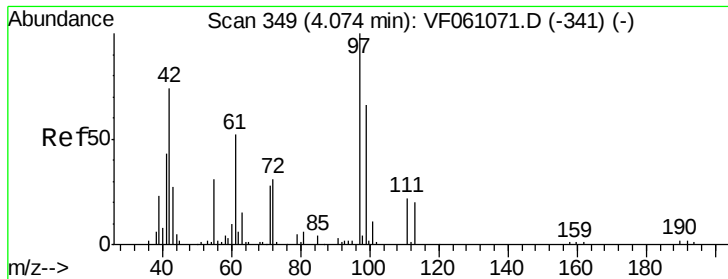
Tgt Ion: 43 Resp: 2434

Ion	Ratio	Lower	Upper
43	100		
72	11.5	15.6	23.4#

43 100

72 11.5 15.6 23.4#





#29

Tetrahydrofuran

Concen: 1.693 ug/l

RT: 4.08 min Scan# 350

Delta R.T. 0.01 min

Lab File: VF061206.D

Acq: 27 Dec 2018 14:16

Instrument :

MSVOA_F

ClientSampleId :

72-11989

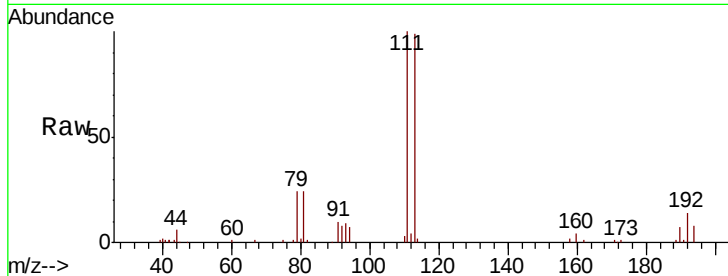
Tot Ion: 42 Resp: 643

Ion Ratio Lower Upper

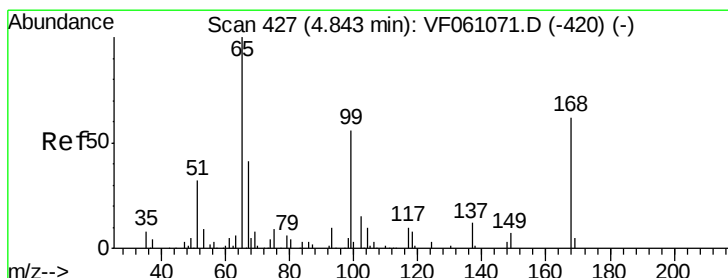
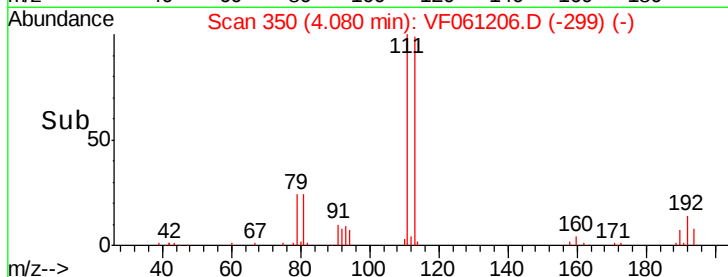
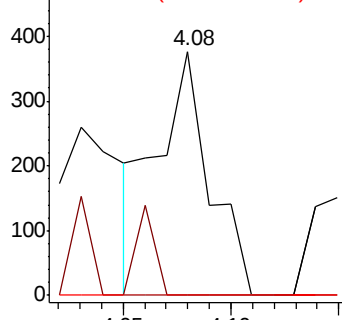
42 100

72 12.8 31.8 47.8#

71 0.0 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



#33

1,2-Dichloroethane-d4

Concen: 51.409 ug/l

RT: 4.82 min Scan# 425

Delta R.T. -0.02 min

Lab File: VF061206.D

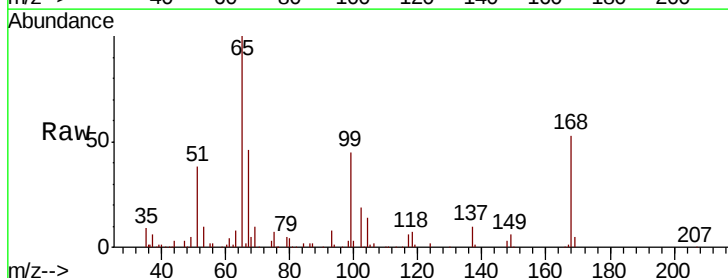
Acq: 27 Dec 2018 14:16

Tgt Ion: 65 Resp: 147947

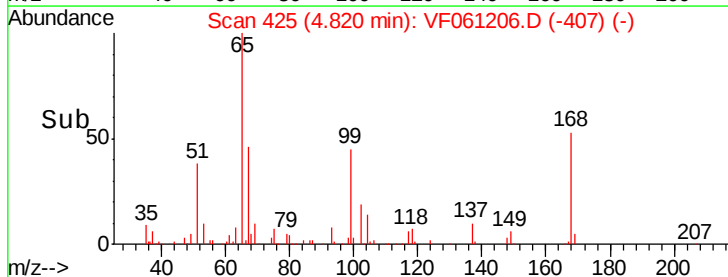
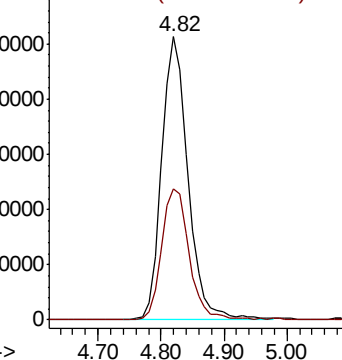
Ion Ratio Lower Upper

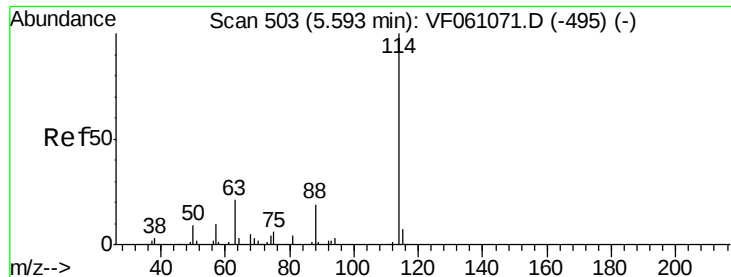
65 100

67 46.3 0.0 94.6



Abundance Ion 65.00 (64.70 to 65.70): VF0
Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.01 min

Lab File: VF061206.D

Acq: 27 Dec 2018 14:16

Instrument :

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72-11989

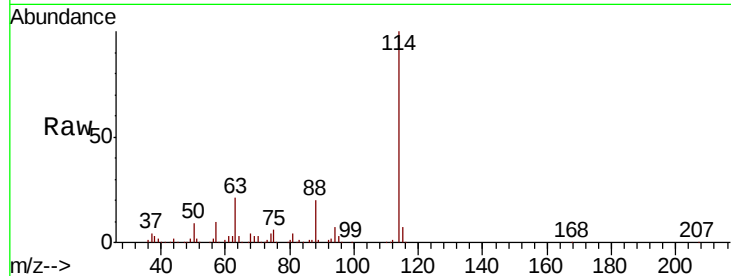
Tot Ion:114 Resp: 394093

Ion Ratio Lower Upper

114 100

63 21.5 0.0 41.6

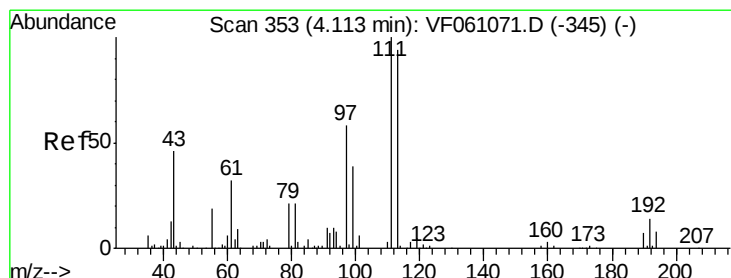
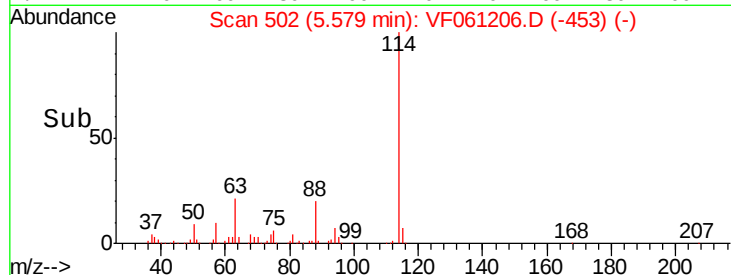
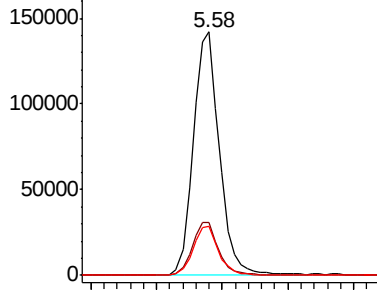
88 20.0 0.0 38.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 25.487 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.02 min

Lab File: VF061206.D

Acq: 27 Dec 2018 14:16

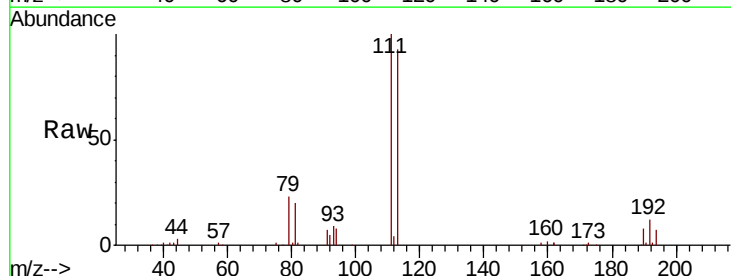
Tgt Ion:113 Resp: 80460

Ion Ratio Lower Upper

113 100

111 107.3 85.2 127.8

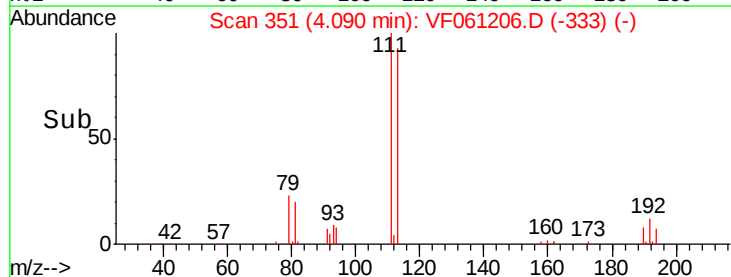
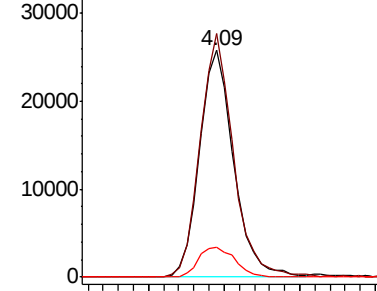
192 13.8 12.8 19.2

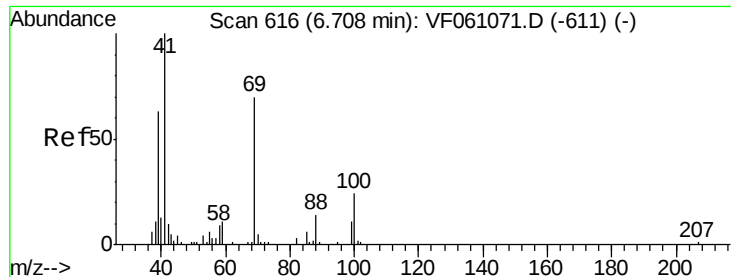


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#49

1,4-Dioxane

Concen: 5.930 ug/l

RT: 6.79 min Scan# 625

Delta R.T. 0.09 min

Lab File: VF061206.D

Acq: 27 Dec 2018 14:16

Instrument :
MSVOA_F
ClientSampleId :
72-11989

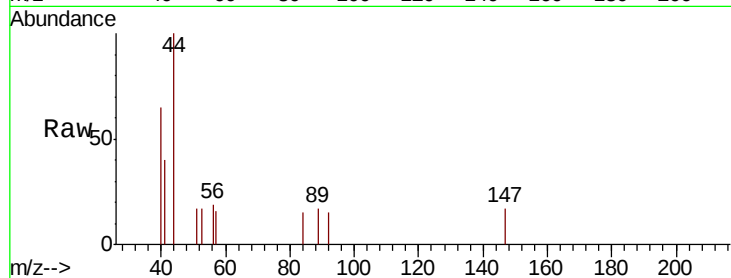
Tot Ion: 88 Resp: 69

Ion Ratio Lower Upper

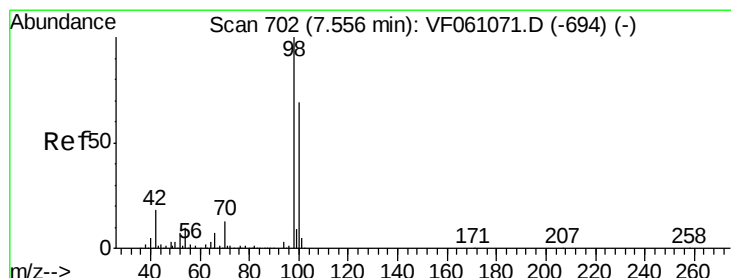
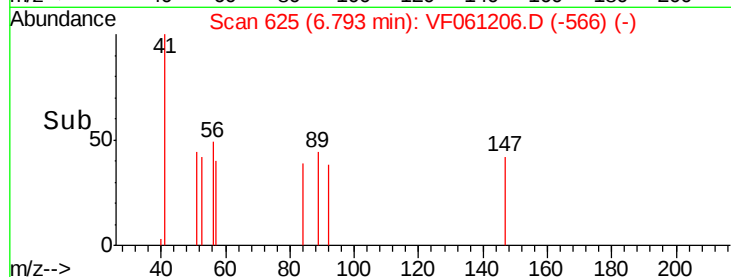
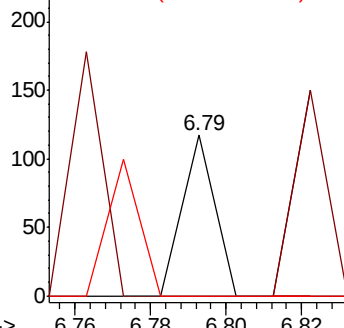
88 100

43 0.0 33.3 49.9#

58 0.0 53.2 79.8#



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



#50

Toluene-d8

Concen: 43.605 ug/l

RT: 7.53 min Scan# 700

Delta R.T. -0.02 min

Lab File: VF061206.D

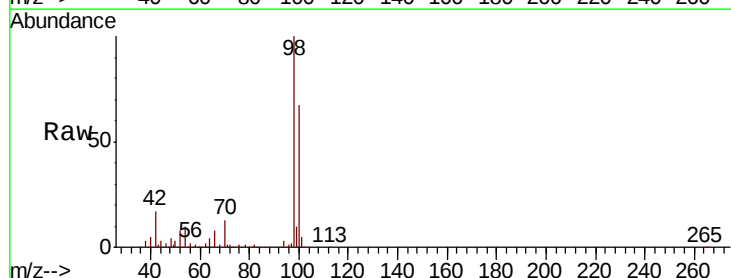
Acq: 27 Dec 2018 14:16

Tgt Ion: 98 Resp: 390105

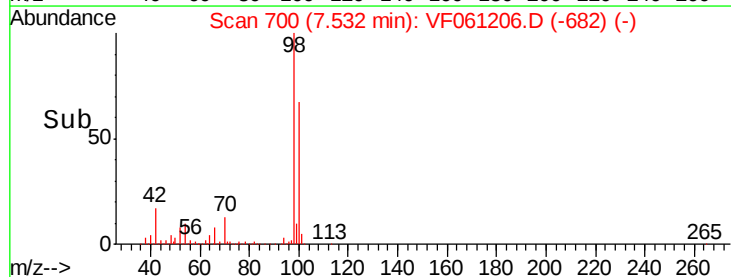
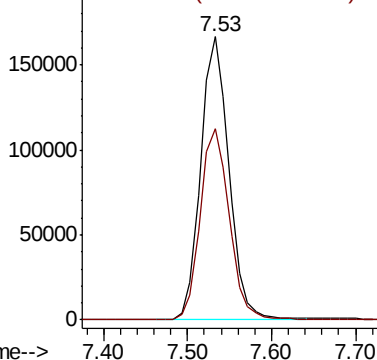
Ion Ratio Lower Upper

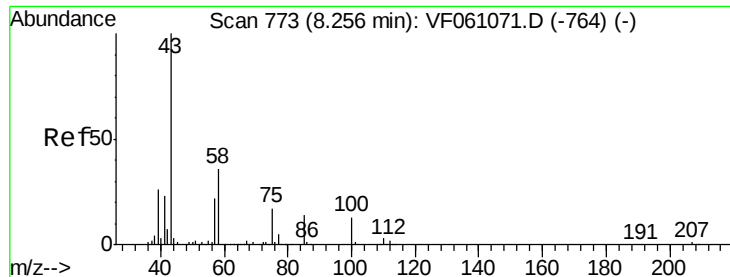
98 100

100 67.5 55.3 82.9



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





#51

4-Methyl-2-Pentanone

Concen: 1.748 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.01 min

Lab File: VF061206.D

Acq: 27 Dec 2018 14:16

Instrument :

MSVOA_F

ClientSampleId :

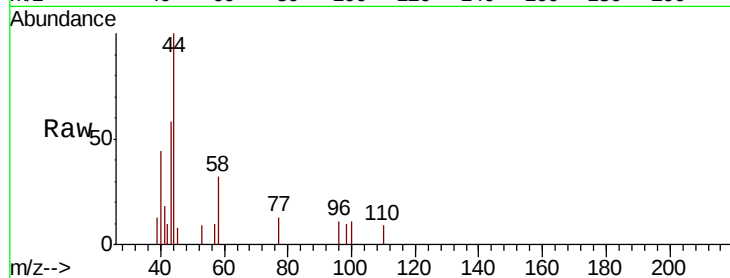
72-11989

Tot Ion: 43 Resp: 2754

Ion Ratio Lower Upper

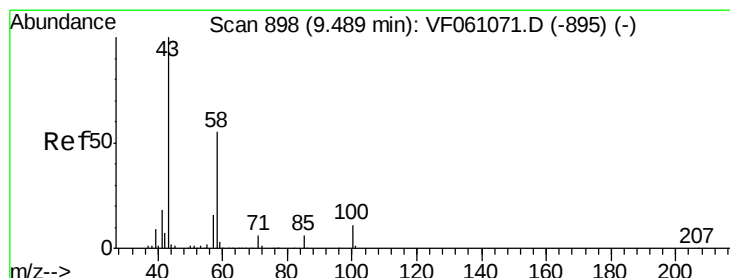
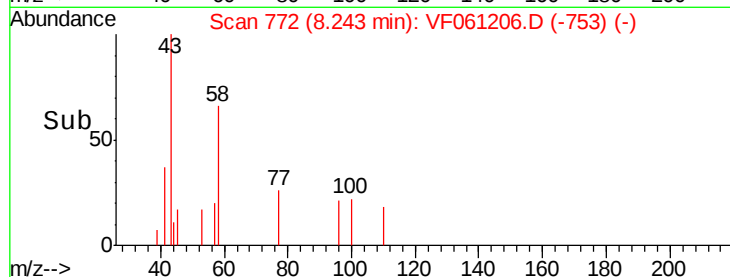
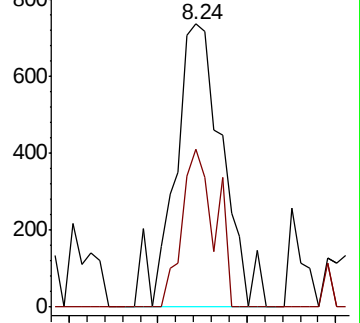
43 100

58 55.8 29.1 43.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#59

2-Hexanone

Concen: 2.678 ug/l

RT: 9.48 min Scan# 897

Delta R.T. -0.01 min

Lab File: VF061206.D

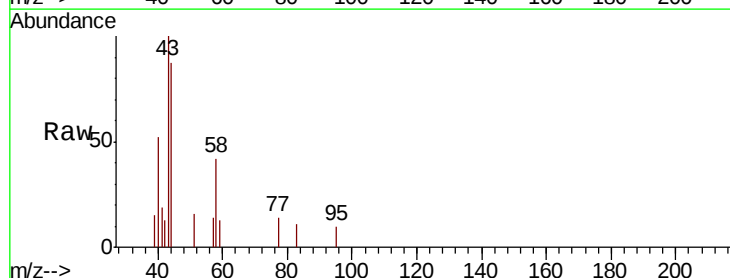
Acq: 27 Dec 2018 14:16

Tgt Ion: 43 Resp: 3051

Ion Ratio Lower Upper

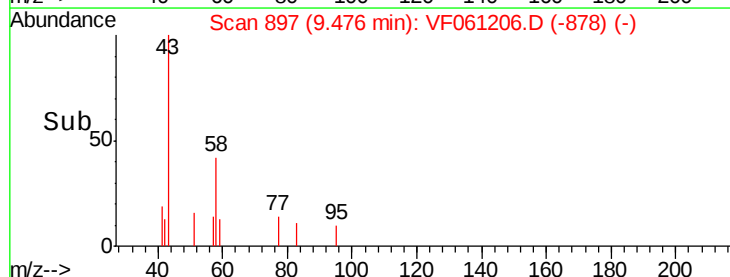
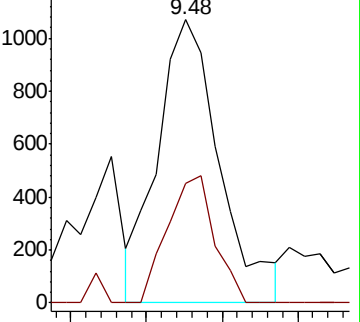
43 100

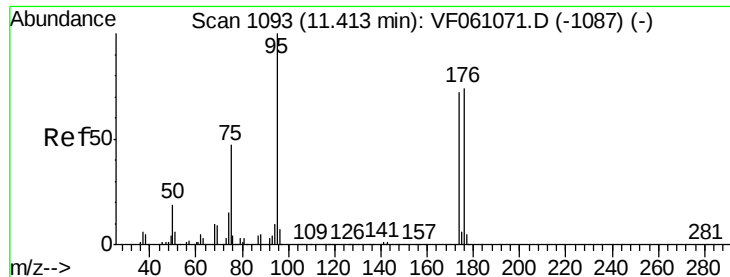
58 42.1 25.1 75.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

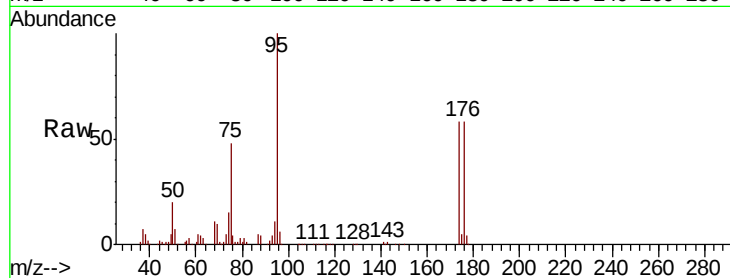




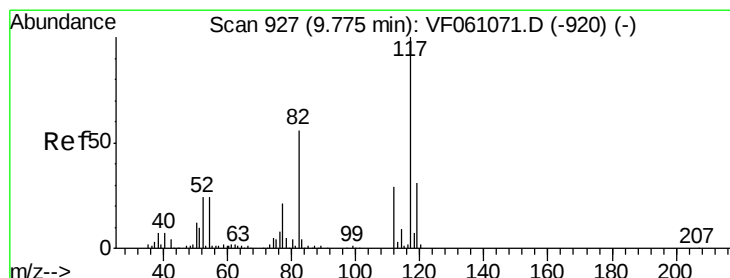
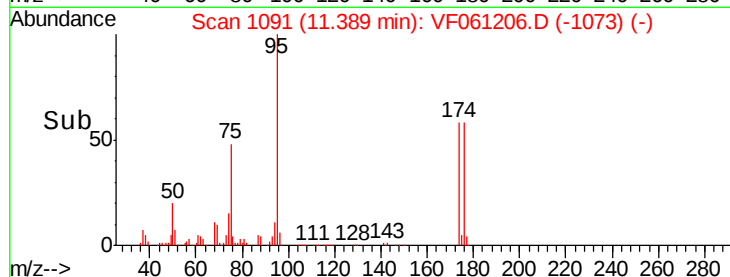
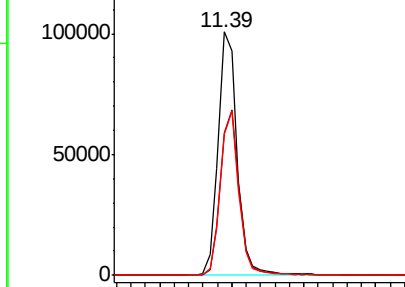
#62
4-Bromofluorobenzene
Concen: 44.311 ug/l
RT: 11.39 min Scan# 1091
Delta R.T. -0.02 min
Lab File: VF061206.D
Acq: 27 Dec 2018 14:16

Instrument :
MSVOA_F
ClientSampleId :
72-11989

Tot Ion: 95 Resp: 182754
Ion Ratio Lower Upper
95 100
174 58.4 0.0 143.8
176 58.0 0.0 147.6

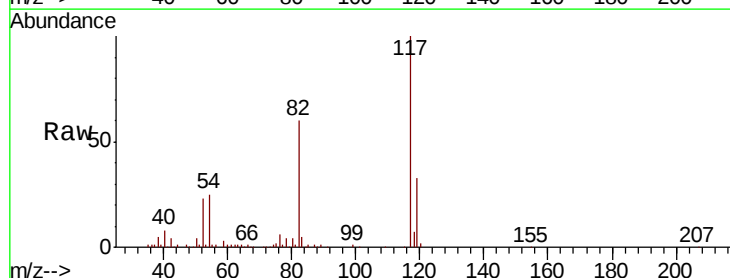


Abundance Ion 95.00 (94.70 to 95.70): VF0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V

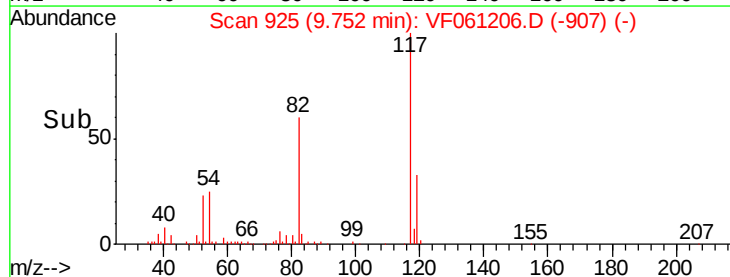
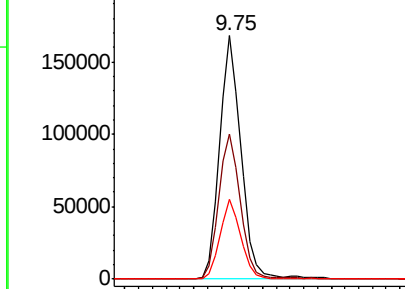


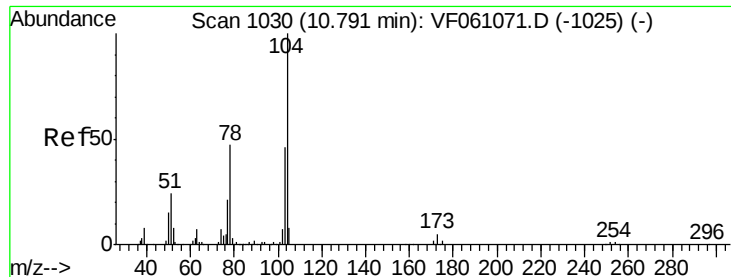
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.75 min Scan# 925
Delta R.T. -0.02 min
Lab File: VF061206.D
Acq: 27 Dec 2018 14:16

Tgt Ion: 117 Resp: 365510
Ion Ratio Lower Upper
117 100
82 59.6 45.0 67.4
119 32.8 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





#70

Stvrene

Concen: Below Cal

RT: 10.77 min Scan# 1028

Delta R.T. -0.02 min

Lab File: VF061206.D

Acq: 27 Dec 2018 14:16

Instrument :

MSVOA_F

ClientSampleId :

72-11989

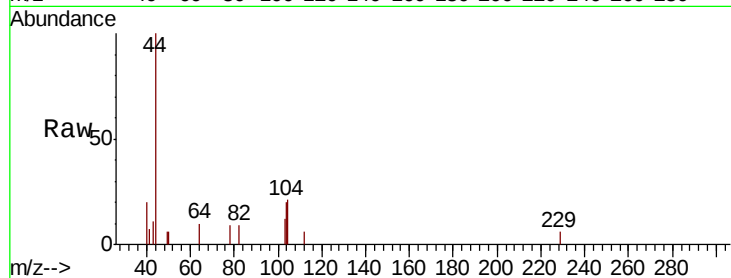
Tot Ion:104 Resp: 884

Ion Ratio Lower Upper

104 100

78 21.8 38.4 57.6#

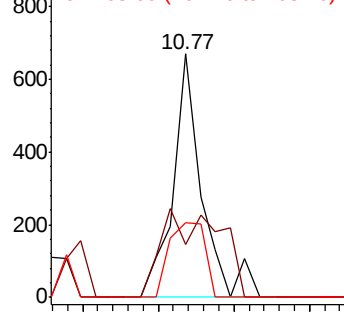
103 30.6 37.0 55.6#



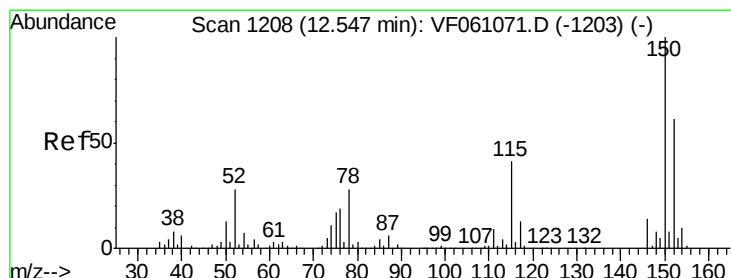
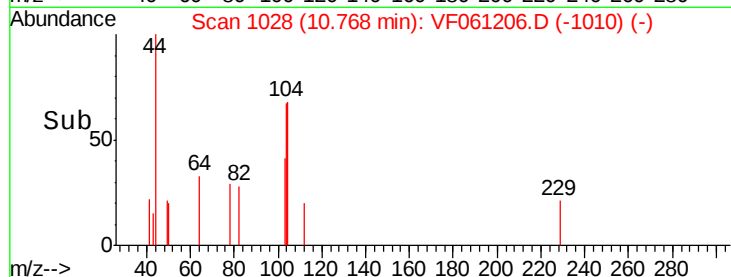
Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VF0

Ion 103.00 (102.70 to 103.70): V



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.53 min Scan# 1207

Delta R.T. -0.01 min

Lab File: VF061206.D

Acq: 27 Dec 2018 14:16

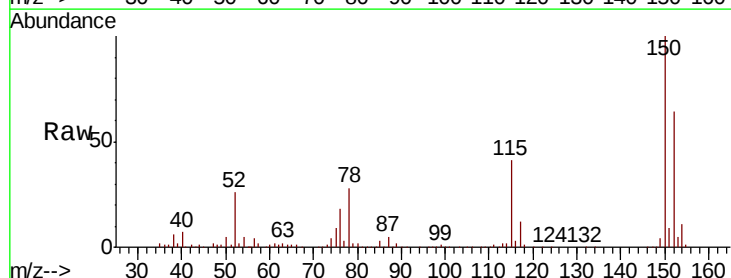
Tgt Ion:152 Resp: 175673

Ion Ratio Lower Upper

152 100

115 63.5 33.3 99.9

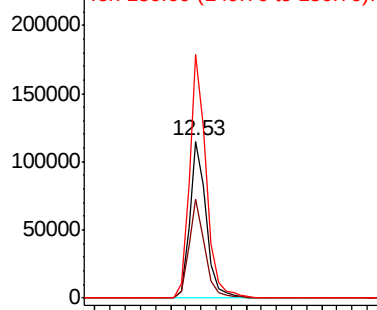
150 155.3 0.0 328.2



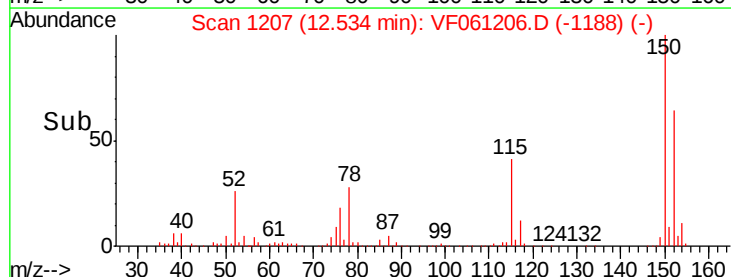
Abundance Ion 152.00 (151.70 to 152.70): V

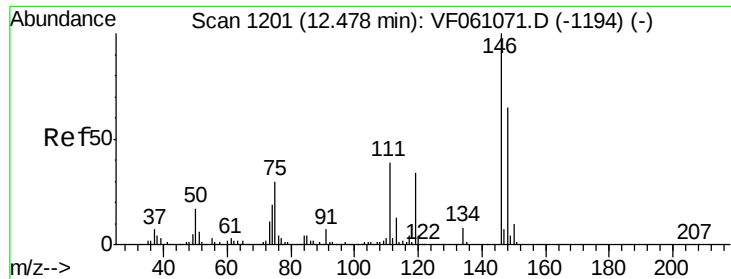
Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



Time-->





#87
 1,3-Dichlorobenzene
 Concen: Below Cal
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.01 min
 Lab File: VF061206.D
 Acq: 27 Dec 2018 14:16

Instrument :
 MSVOA_F
 ClientSampleId :
 72-11989

Tot Ion	Ratio	Lower	Upper
146	100		
111	71.5	19.3	57.9#
148	48.1	32.4	97.2

