

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF122818\
 Data File : VF061241.D
 Acq On : 28 Dec 2018 17:44
 Operator : VA/AP
 Sample : J6546-03
 Misc : 6.27g/5mL/MSVOA-F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 S72-0058

Quant Time: Dec 29 00:58:10 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	4.89	168	54968	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.62	114	62812	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.79	117	42696	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.56	152	15989	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.86	65	9860	13.95	ug/l	0.01
Spiked Amount			Recovery	=	27.90%	
35) Dibromofluoromethane	4.13	113	16939	33.67	ug/l	0.01
Spiked Amount			Recovery	=	67.34%	
50) Toluene-d8	7.57	98	65982	46.27	ug/l	0.01
Spiked Amount			Recovery	=	92.54%	
62) 4-Bromofluorobenzene	11.43	95	17527	26.66	ug/l	0.01
Spiked Amount			Recovery	=	53.32%	

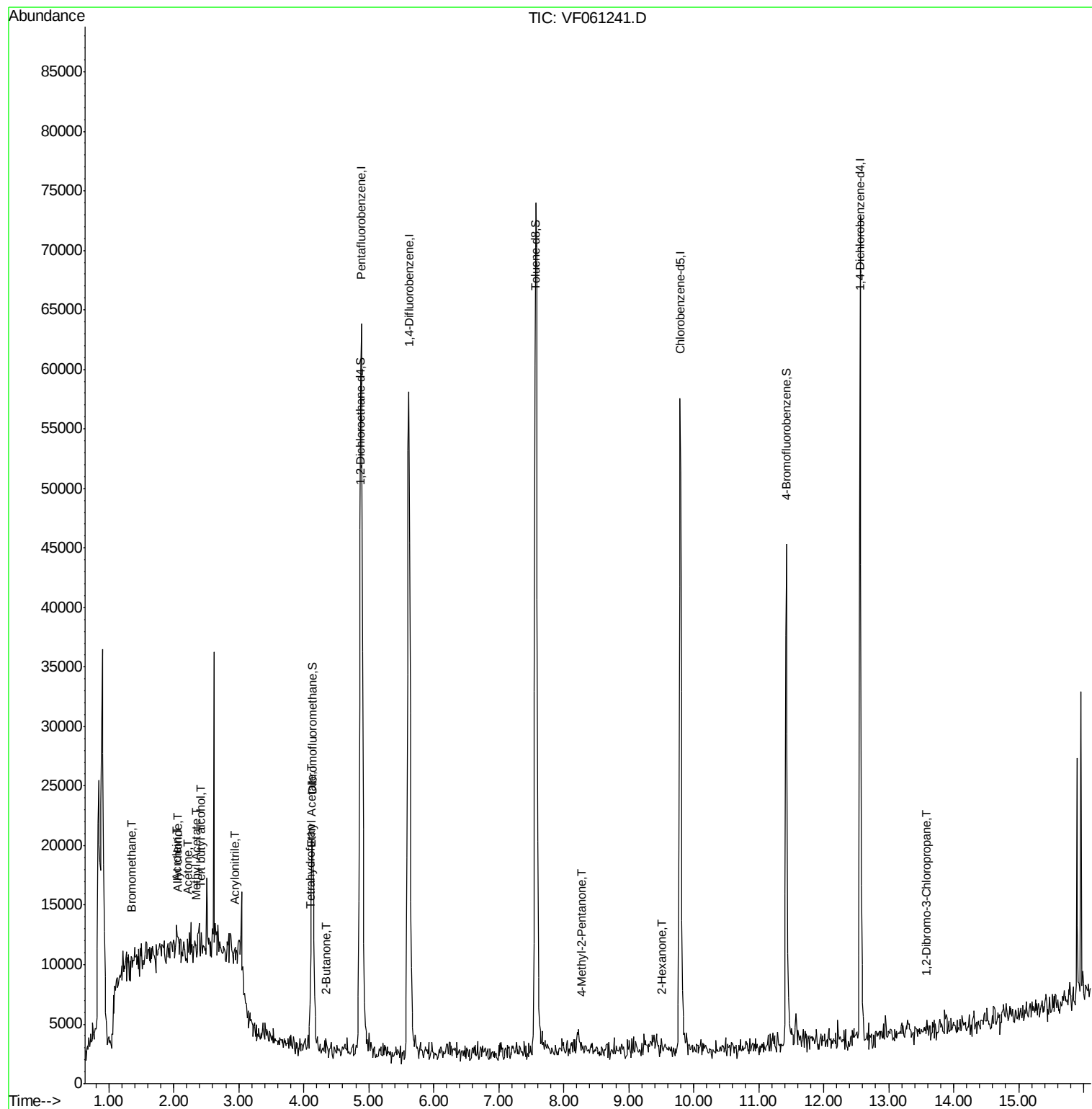
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.36	94	656	1.457	ug/l #	3
11) Tert butyl alcohol	2.42	59	65	2.278	ug/l #	1
13) Acrolein	2.04	56	492	23.866	ug/l	90
14) Allyl chloride	2.07	41	975	1.934	ug/l #	60
15) Acrylonitrile	2.92	53	124	1.880	ug/l #	48
16) Acetone	2.21	43	528	3.736	ug/l #	66
18) Methyl Acetate	2.35	43	653	2.233	ug/l #	66
20) Methylene Chloride	2.25	84	147	Below Cal	#	30
25) 2-Butanone	4.36	43	633	2.762	ug/l #	57
29) Tetrahydrofuran	4.10	42	244	2.615	ug/l #	37
37) Ethyl Acetate	4.11	43	557	1.469	ug/l #	21
51) 4-Methyl-2-Pentanone	8.27	43	257	1.024	ug/l #	38
59) 2-Hexanone	9.51	43	417	2.297	ug/l #	27
78) n-propylbenzene	11.61	91	208	Below Cal	#	55
87) 1,3-Dichlorobenzene	12.58	146	61	Below Cal	#	25
92) 1,2-Dibromo-3-Chloropropan	13.60	75	62	1.477	ug/l #	2

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.01 min

Lab File: VF061241.D

Acq: 28 Dec 2018 17:44

Instrument :

MSVOA_F

ClientSampleId :

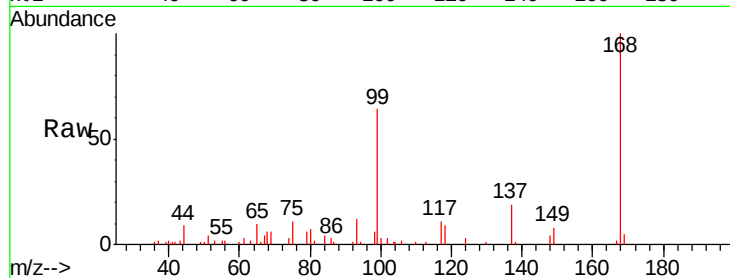
S72-0058

Tgt Ion: 168 Resp: 54968

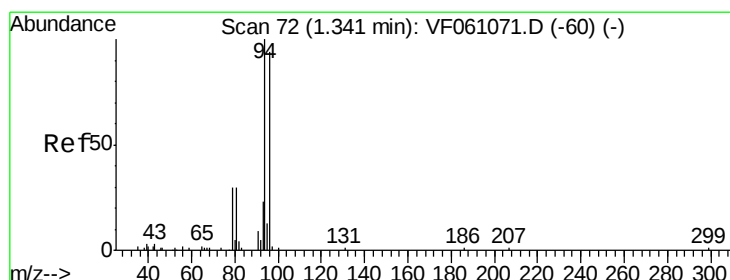
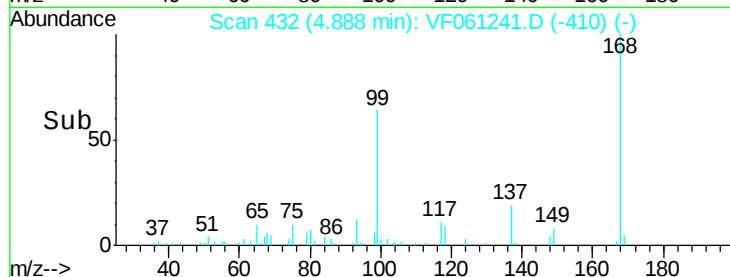
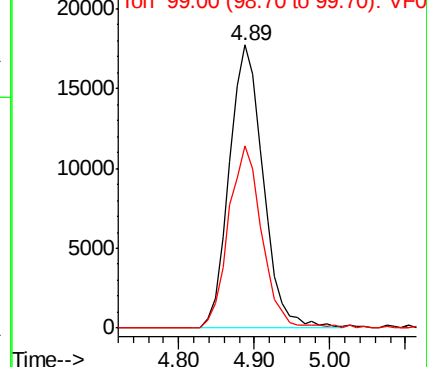
Ion Ratio Lower Upper

168 100

99 64.4 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0



#5

Bromomethane

Concen: 1.457 ug/l

RT: 1.36 min Scan# 74

Delta R.T. 0.01 min

Lab File: VF061241.D

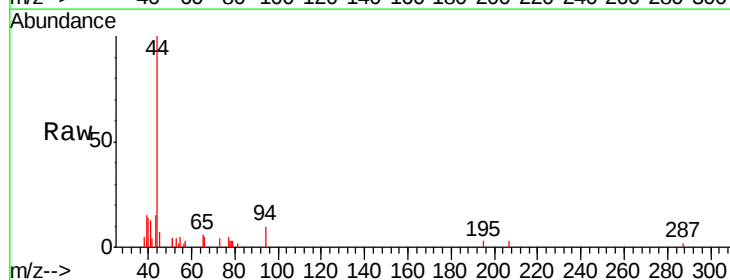
Acq: 28 Dec 2018 17:44

Tgt Ion: 94 Resp: 656

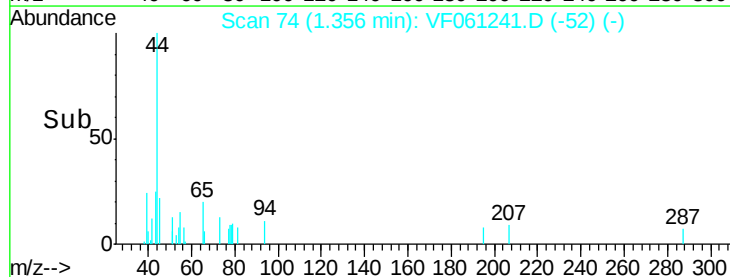
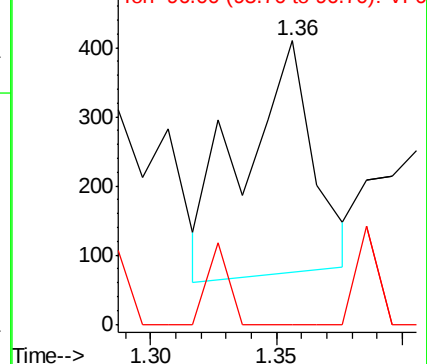
Ion Ratio Lower Upper

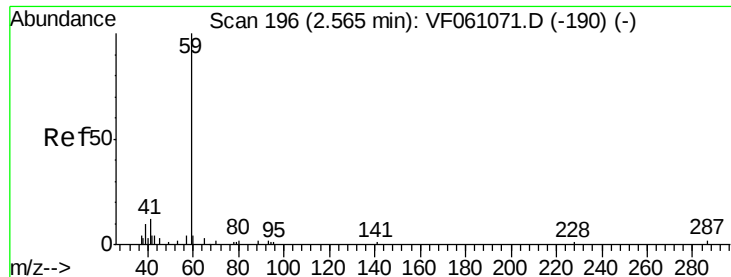
94 100

96 0.0 74.4 111.6#



Abundance Ion 94.00 (93.70 to 94.70): VF0

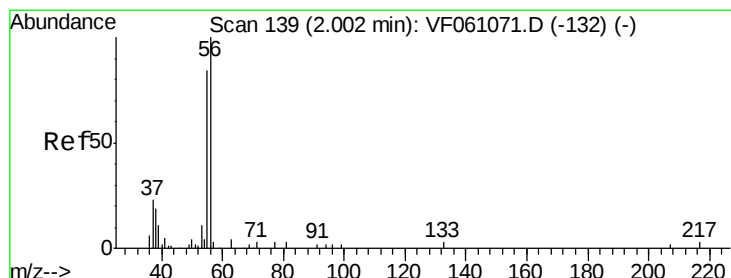
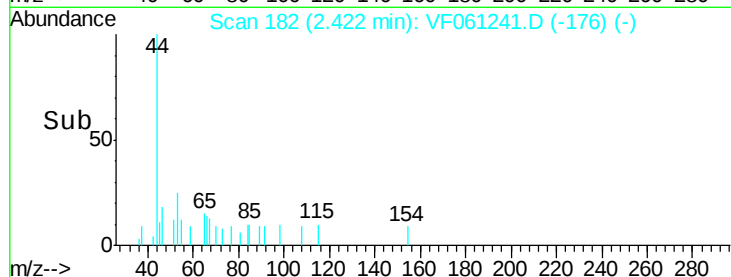
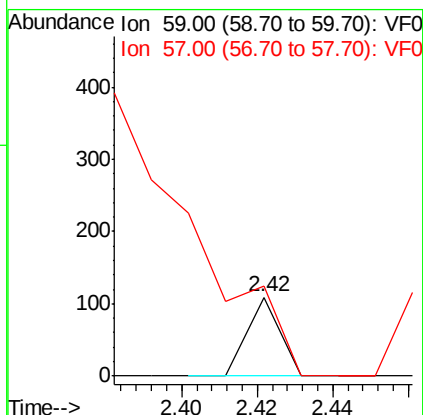
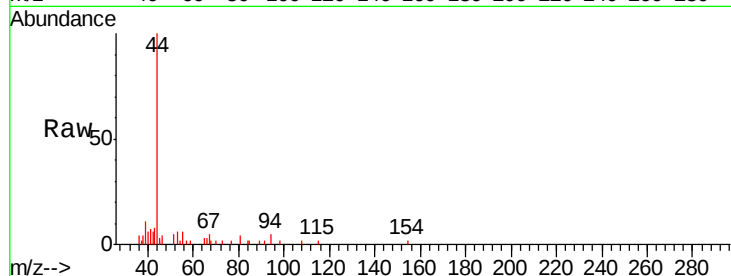




#11
Tert butyl alcohol
Concen: 2.278 ug/l
RT: 2.42 min Scan# 182
Delta R.T. -0.14 min
Lab File: VF061241.D
Acq: 28 Dec 2018 17:44

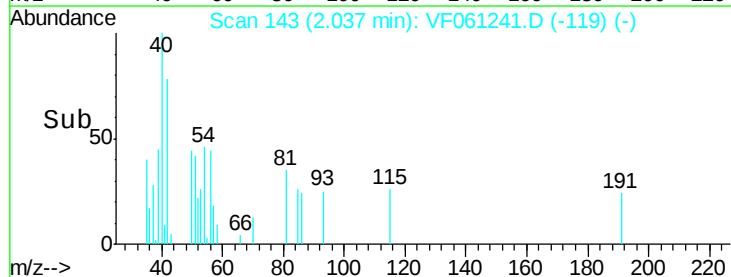
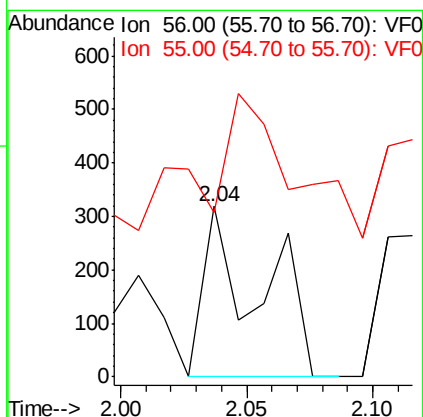
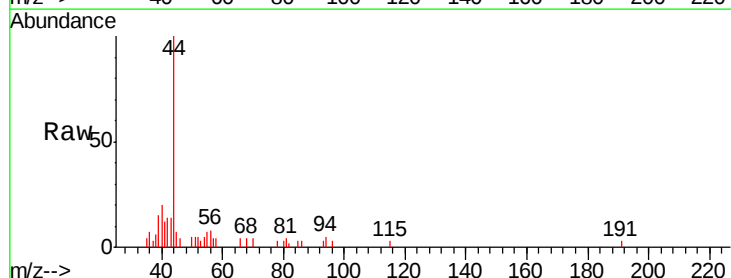
Instrument :
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S72-0058

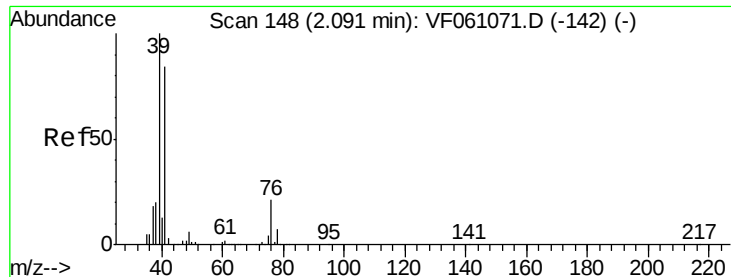
Tgt Ion: 59 Resp: 65
Ion Ratio Lower Upper
59 100
57 113.8 11.5 17.3#



#13
Acrolein
Concen: 23.866 ug/l
RT: 2.04 min Scan# 143
Delta R.T. 0.03 min
Lab File: VF061241.D
Acq: 28 Dec 2018 17:44

Tgt Ion: 56 Resp: 492
Ion Ratio Lower Upper
56 100
55 96.5 70.2 105.2

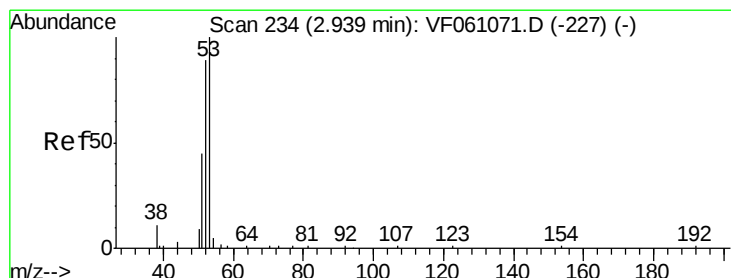
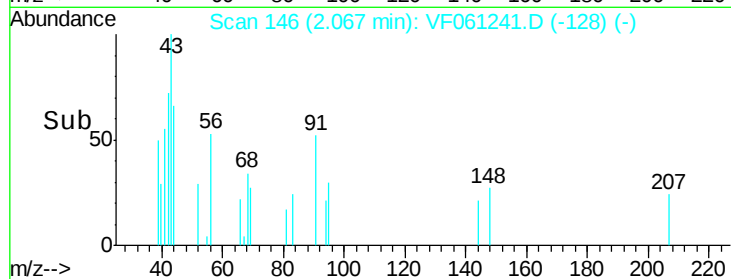
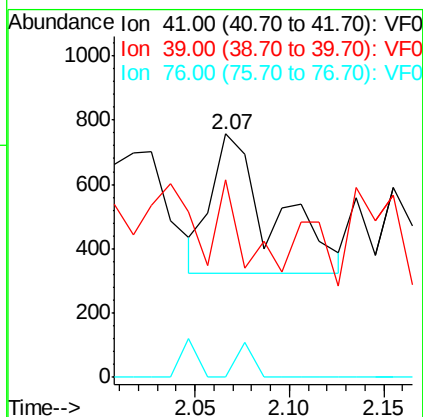
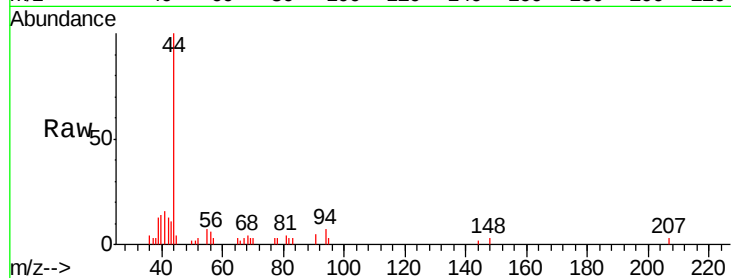




#14
 Allyl chloride
 Concen: 1.934 ug/l
 RT: 2.07 min Scan# 146
 Delta R.T. -0.02 min
 Lab File: VF061241.D
 Acq: 28 Dec 2018 17:44

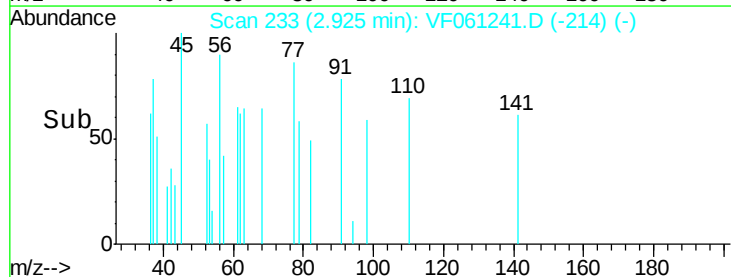
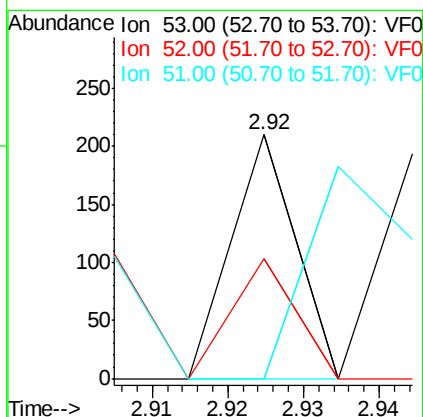
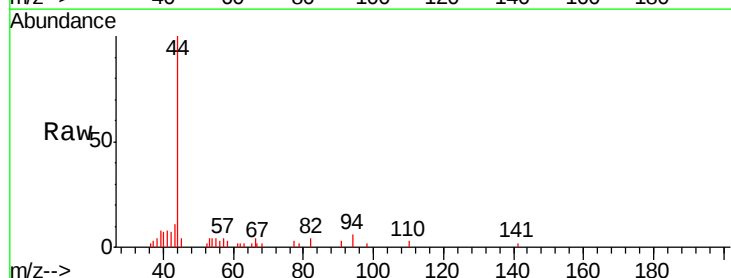
Instrument :
 MSVOA_F
 ClientSampleId :
 S72-0058

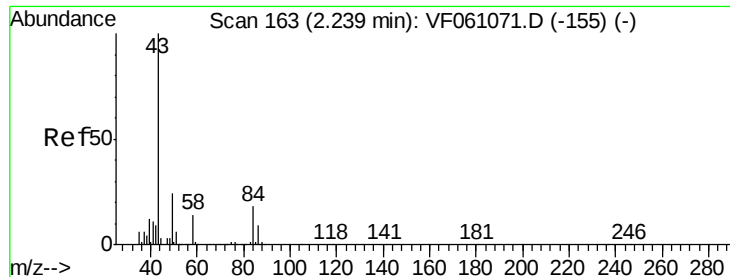
Tgt Ion: 41 Resp: 975
 Ion Ratio Lower Upper
 41 100
 39 81.0 96.4 144.6#
 76 0.0 25.4 38.0#



#15
 Acrylonitrile
 Concen: 1.880 ug/l
 RT: 2.92 min Scan# 233
 Delta R.T. -0.01 min
 Lab File: VF061241.D
 Acq: 28 Dec 2018 17:44

Tgt Ion: 53 Resp: 124
 Ion Ratio Lower Upper
 53 100
 52 49.0 71.3 106.9#
 51 0.0 36.8 55.2#





#16

Acetone

Concen: 3.736 ug/l

RT: 2.21 min Scan# 161

Delta R.T. -0.02 min

Lab File: VF061241.D

Acq: 28 Dec 2018 17:44

Instrument :

MSVOA_F

ClientSampleId :

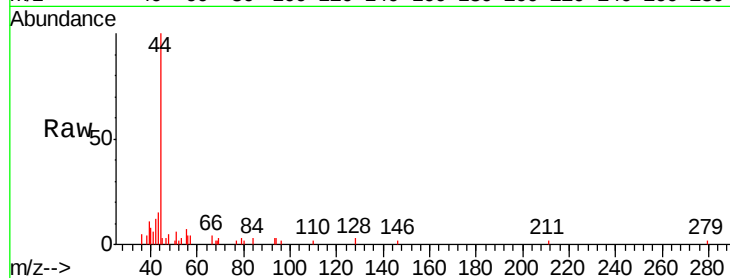
S72-0058

Tgt Ion: 43 Resp: 528

Ion Ratio Lower Upper

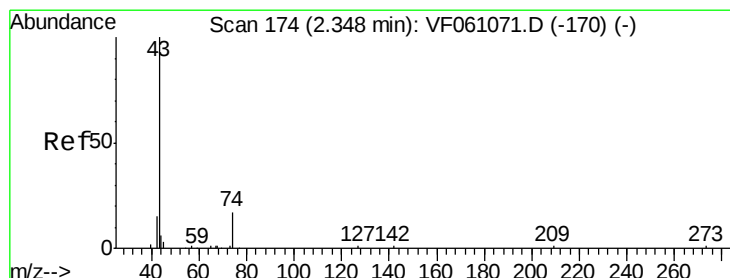
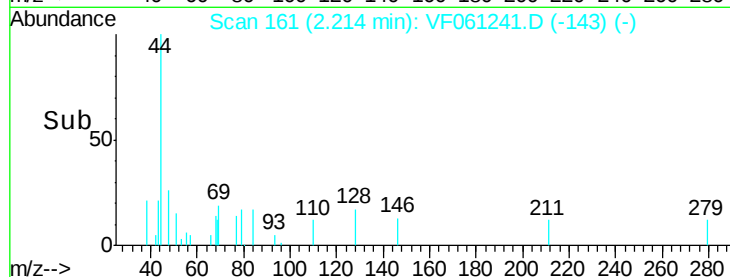
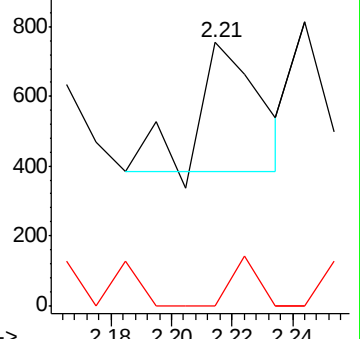
43 100

58 0.0 11.1 16.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#18

Methyl Acetate

Concen: 2.233 ug/l

RT: 2.35 min Scan# 175

Delta R.T. 0.00 min

Lab File: VF061241.D

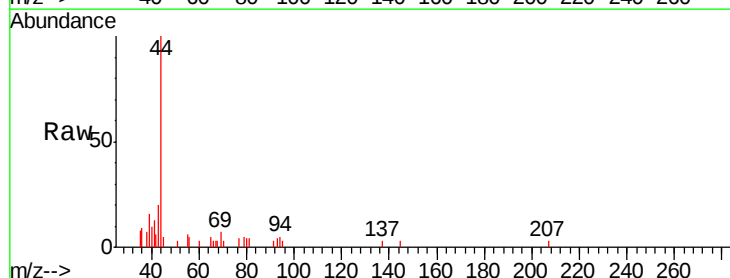
Acq: 28 Dec 2018 17:44

Tgt Ion: 43 Resp: 653

Ion Ratio Lower Upper

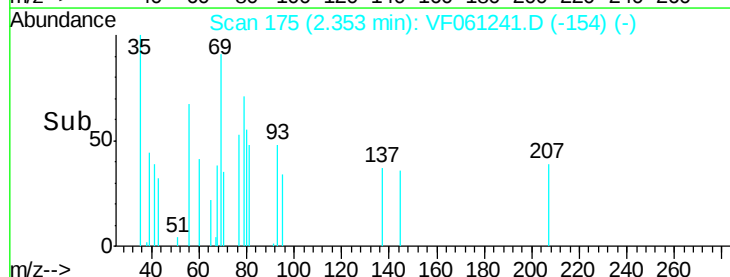
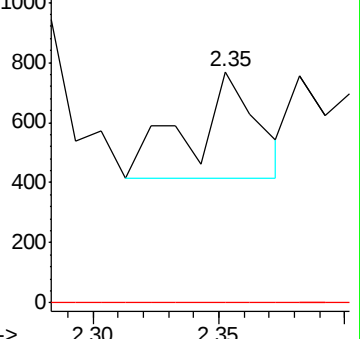
43 100

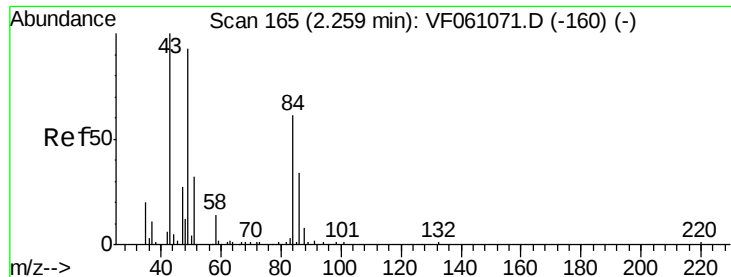
74 0.0 11.0 16.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

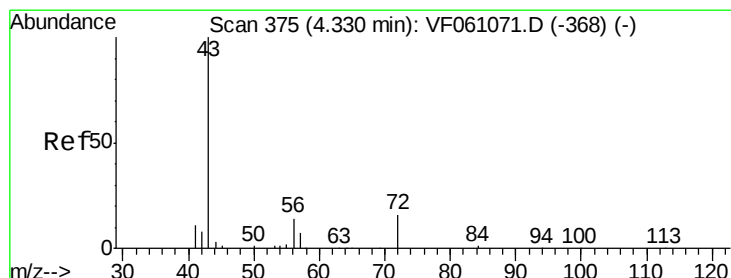
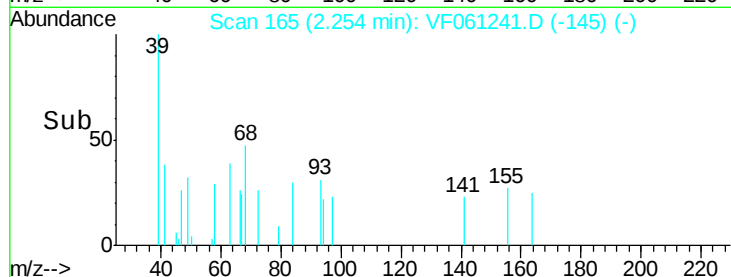
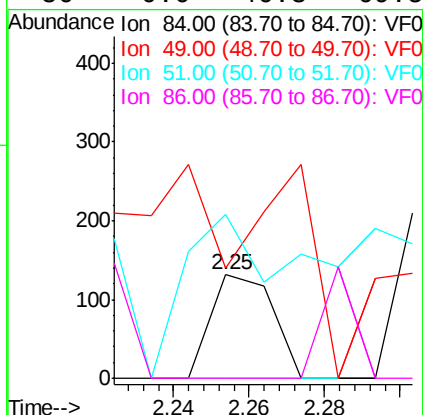
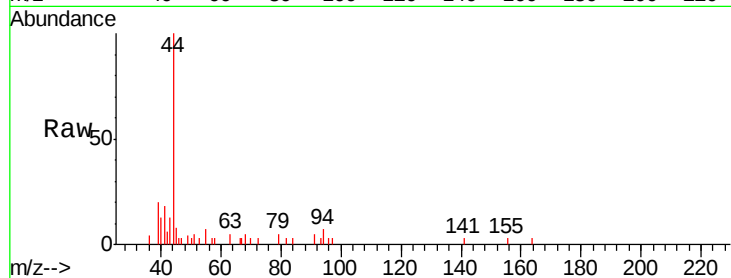




#20
Methylene Chloride
Concen: Below Cal
RT: 2.25 min Scan# 165
Delta R.T. -0.00 min
Lab File: VF061241.D
Acq: 28 Dec 2018 17:44

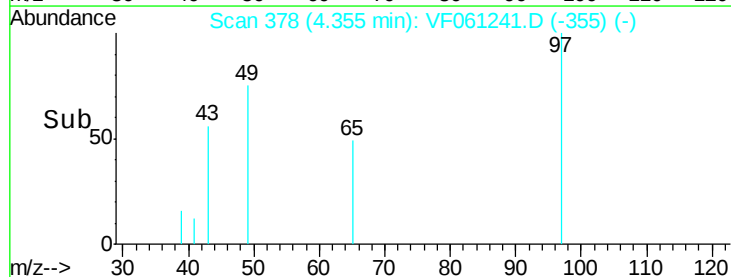
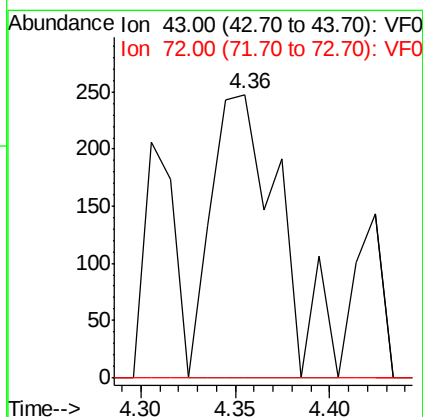
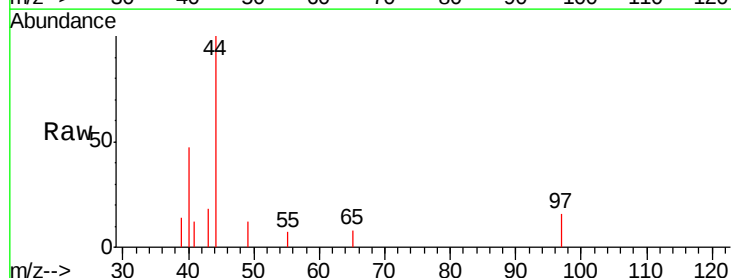
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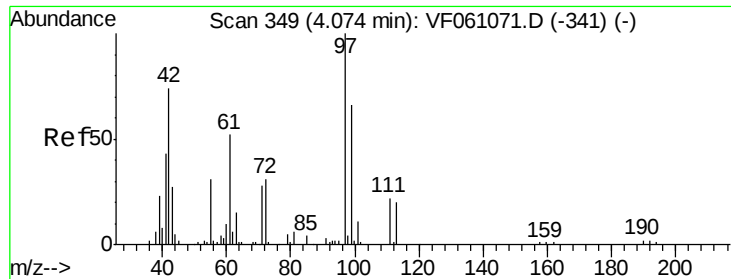
Tgt Ion: 84 Resp: 147
Ion Ratio Lower Upper
84 100
49 106.9 129.4 194.2#
51 158.8 44.0 66.0#
86 0.0 46.3 69.5#



#25
2-Butanone
Concen: 2.762 ug/l
RT: 4.36 min Scan# 378
Delta R.T. 0.02 min
Lab File: VF061241.D
Acq: 28 Dec 2018 17:44

Tgt Ion: 43 Resp: 633
Ion Ratio Lower Upper
43 100
72 0.0 15.6 23.4#





#29

Tetrahydrofuran

Concen: 2.615 ug/l

RT: 4.10 min Scan# 352

Delta R.T. 0.02 min

Lab File: VF061241.D

Acq: 28 Dec 2018 17:44

Instrument :

MSVOA_F

ClientSampleId :

S72-0058

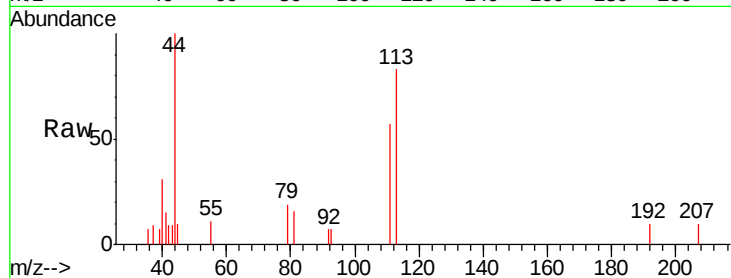
Tgt Ion: 42 Resp: 244

Ion Ratio Lower Upper

42 100

72 0.0 31.8 47.8#

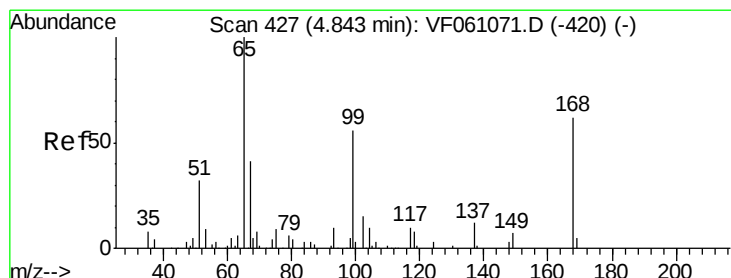
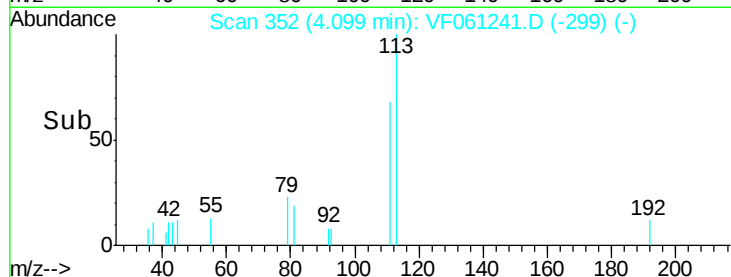
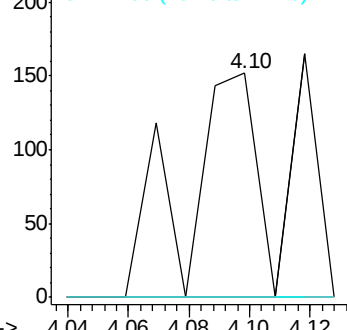
71 0.0 29.7 44.5#



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: 13.947 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.01 min

Lab File: VF061241.D

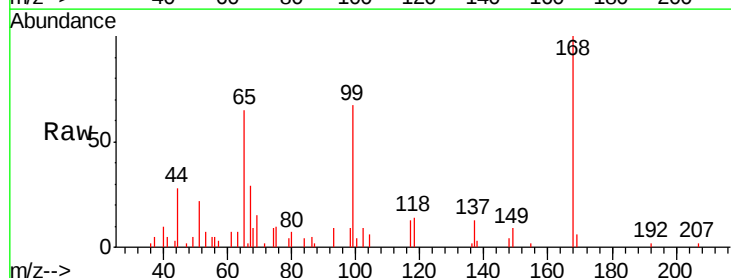
Acq: 28 Dec 2018 17:44

Tgt Ion: 65 Resp: 9860

Ion Ratio Lower Upper

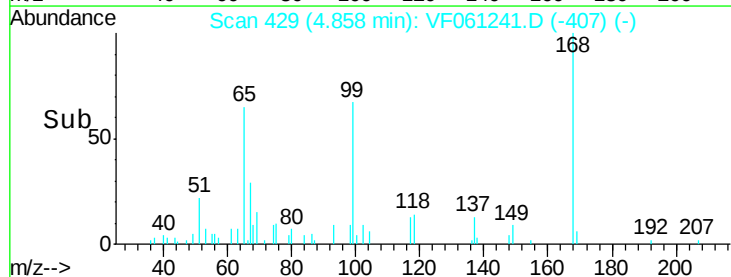
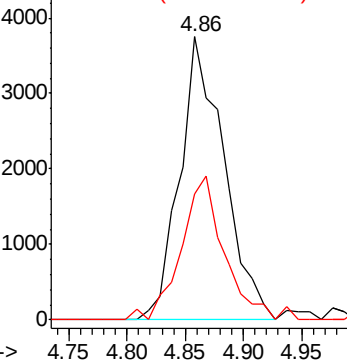
65 100

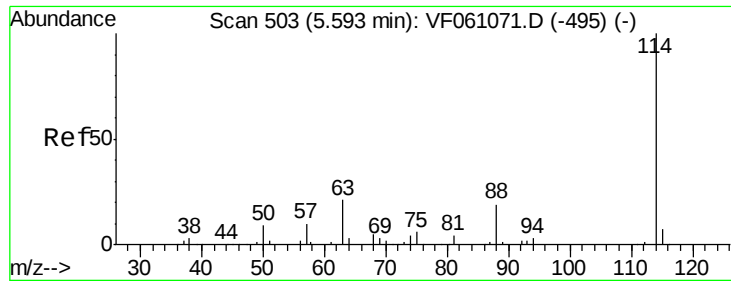
67 44.4 0.0 94.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

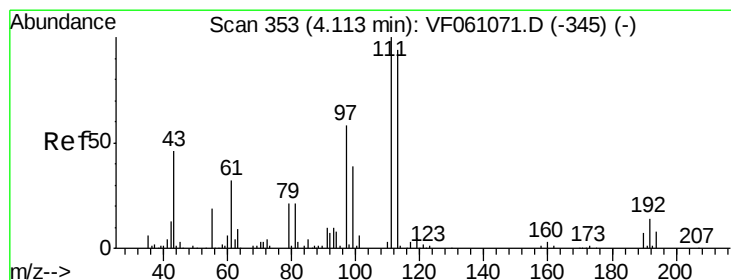
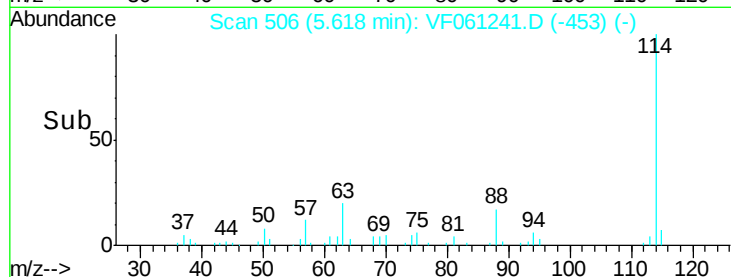
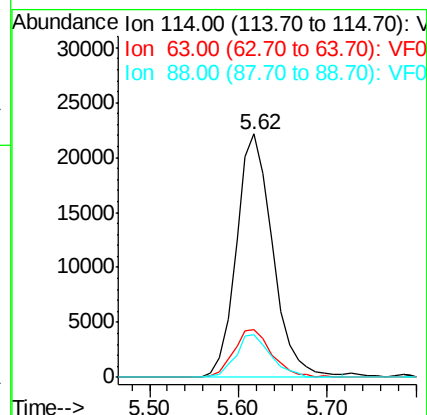
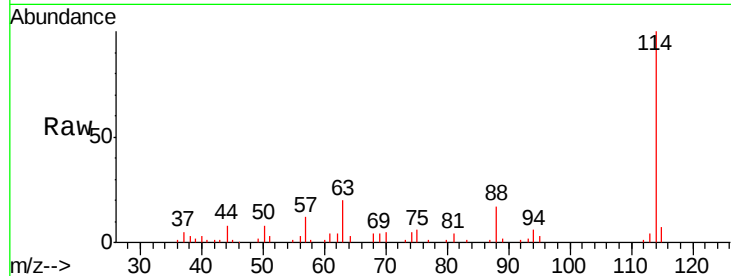




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.62 min Scan# 506
 Delta R.T. 0.02 min
 Lab File: VF061241.D
 Acq: 28 Dec 2018 17:44

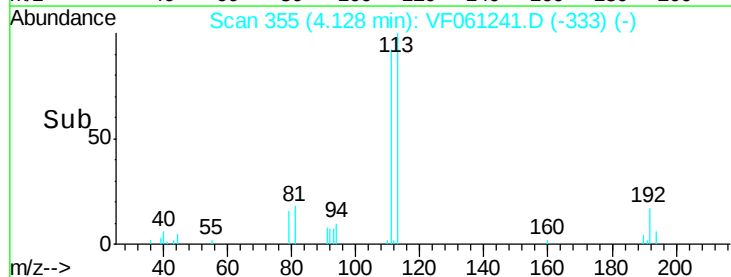
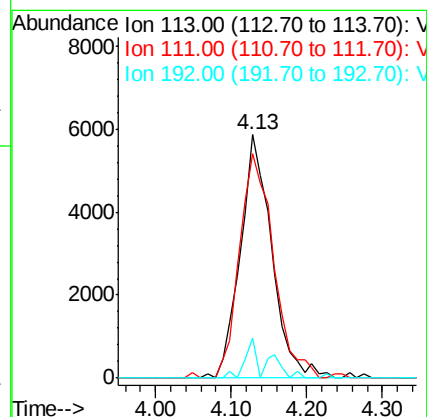
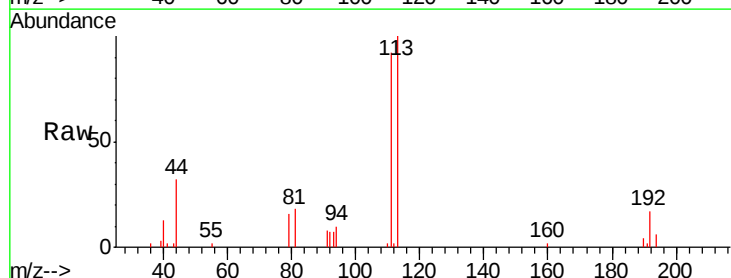
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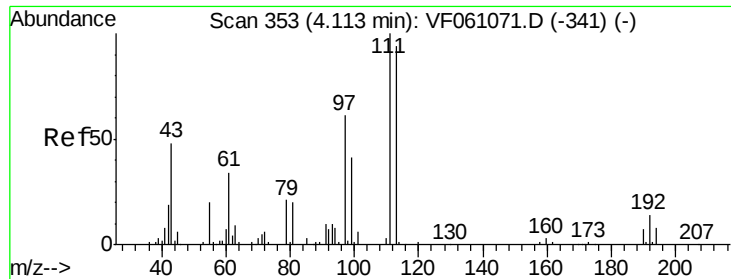
Tgt Ion:114 Resp: 62812
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 41.6
 88 17.3 0.0 38.0



#35
 Dibromofluoromethane
 Concen: 33.665 ug/l
 RT: 4.13 min Scan# 355
 Delta R.T. 0.01 min
 Lab File: VF061241.D
 Acq: 28 Dec 2018 17:44

Tgt Ion:113 Resp: 16939
 Ion Ratio Lower Upper
 113 100
 111 92.1 85.2 127.8
 192 16.5 12.8 19.2

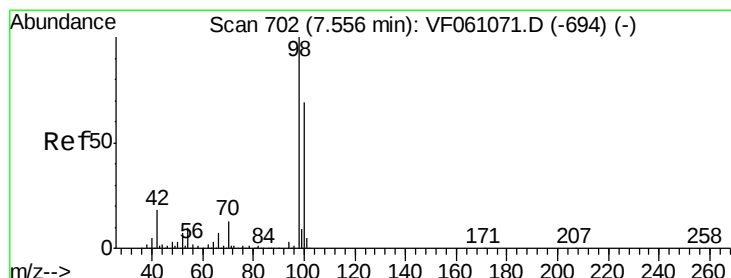
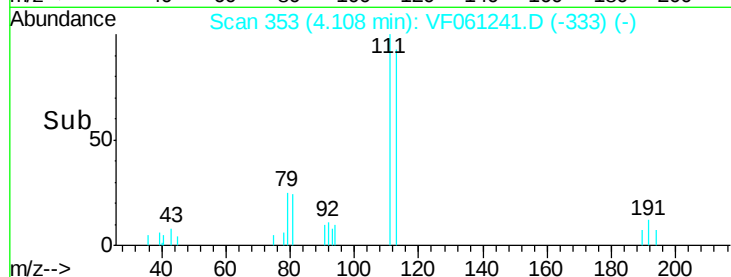
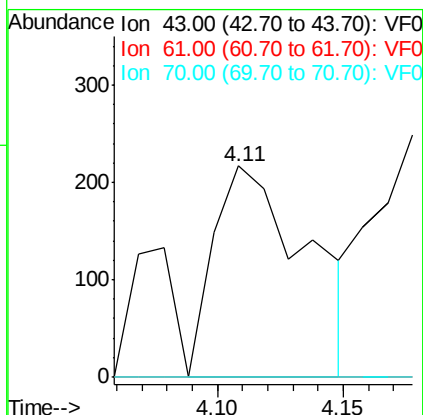
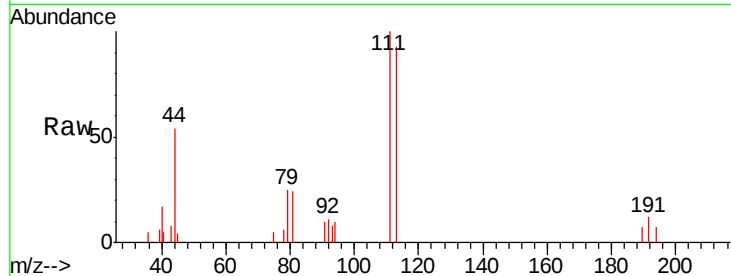




#37
Ethyl Acetate
Concen: 1.469 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.00 min
Lab File: VF061241.D
Acq: 28 Dec 2018 17:44

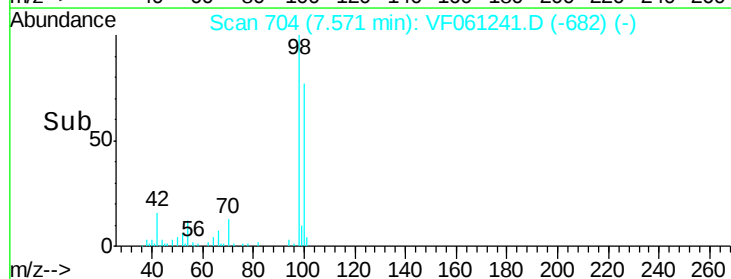
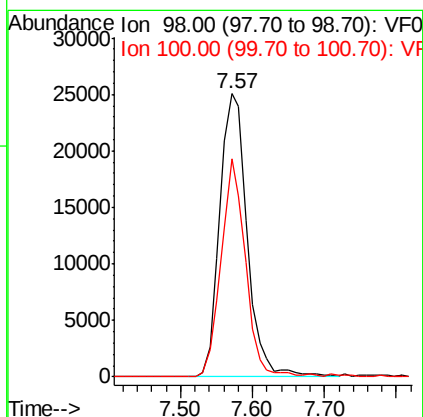
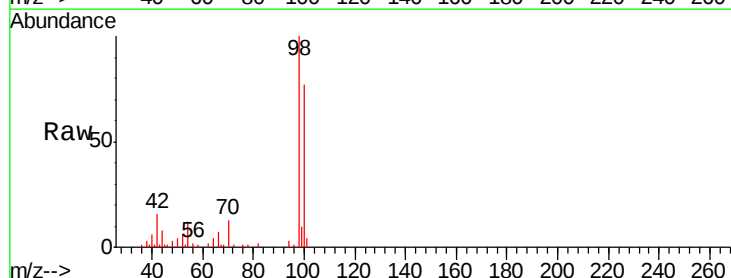
Instrument :
MSVOA_F
ClientSampleId :
S72-0058

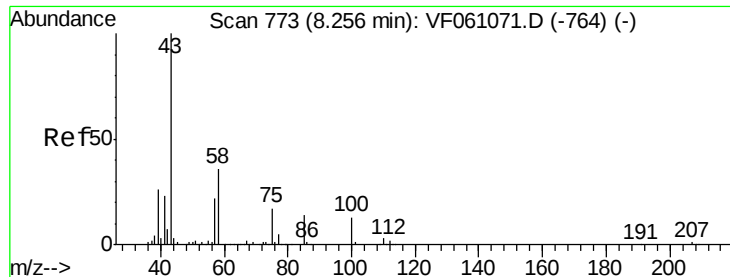
Tgt Ion: 43 Resp: 557
Ion Ratio Lower Upper
43 100
61 0.0 56.6 84.8#
70 0.0 6.3 9.5#



#50
Toluene-d8
Concen: 46.274 ug/l
RT: 7.57 min Scan# 704
Delta R.T. 0.01 min
Lab File: VF061241.D
Acq: 28 Dec 2018 17:44

Tgt Ion: 98 Resp: 65982
Ion Ratio Lower Upper
98 100
100 77.2 55.3 82.9





#51

4-Methyl-2-Pentanone

Concen: 1.024 ug/l

RT: 8.27 min Scan# 775

Delta R.T. 0.01 min

Lab File: VF061241.D

Acq: 28 Dec 2018 17:44

Instrument :

MSVOA_F

ClientSampleId :

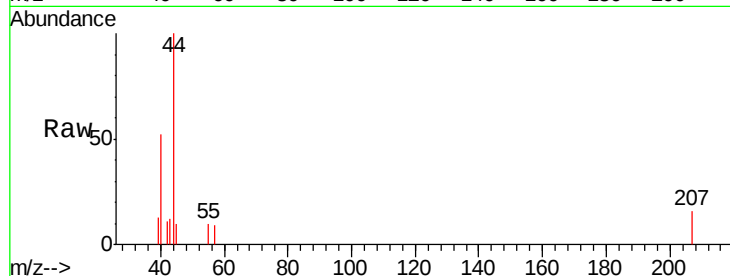
S72-0058

Tgt Ion: 43 Resp: 257

Ion Ratio Lower Upper

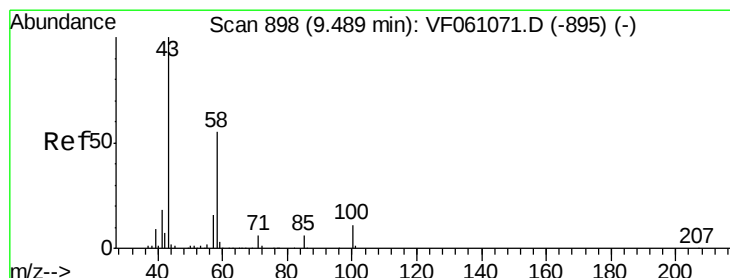
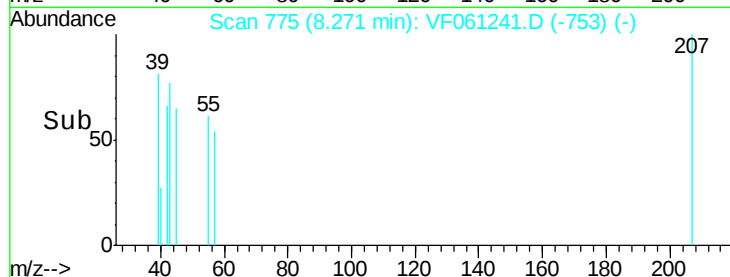
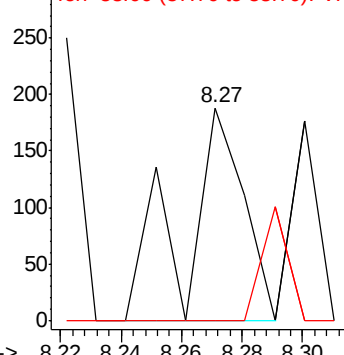
43 100

58 0.0 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: 2.297 ug/l

RT: 9.51 min Scan# 901

Delta R.T. 0.02 min

Lab File: VF061241.D

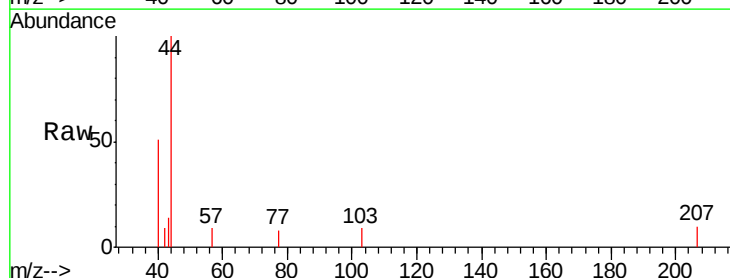
Acq: 28 Dec 2018 17:44

Tgt Ion: 43 Resp: 417

Ion Ratio Lower Upper

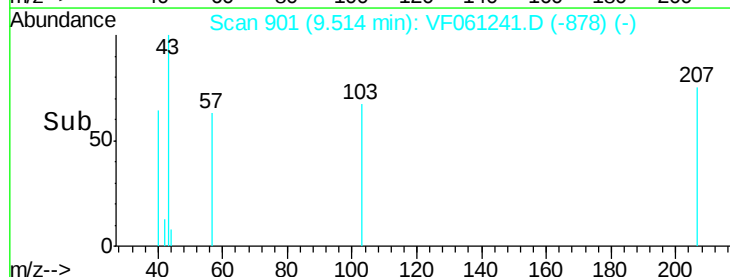
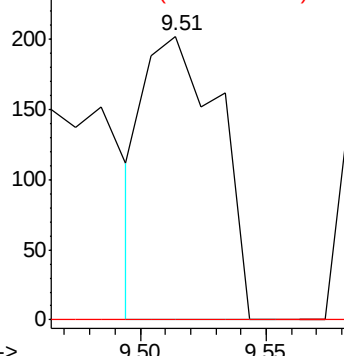
43 100

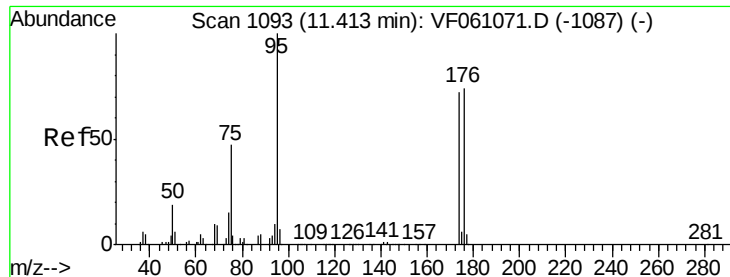
58 0.0 25.1 75.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 26.663 ug/l

RT: 11.43 min Scan# 1095

Delta R.T. 0.01 min

Lab File: VF061241.D

Acq: 28 Dec 2018 17:44

Instrument :

MSVOA_F

ClientSampleId :

S72-0058

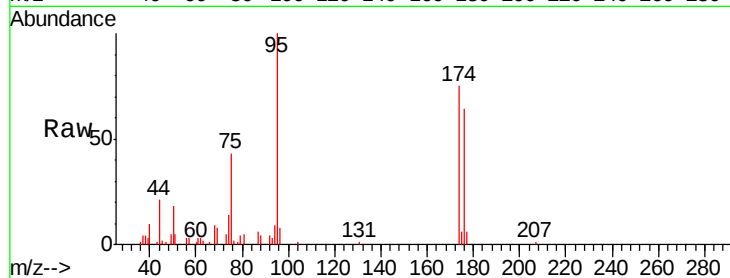
Tgt Ion: 95 Resp: 17527

Ion Ratio Lower Upper

95 100

174 74.7 0.0 143.8

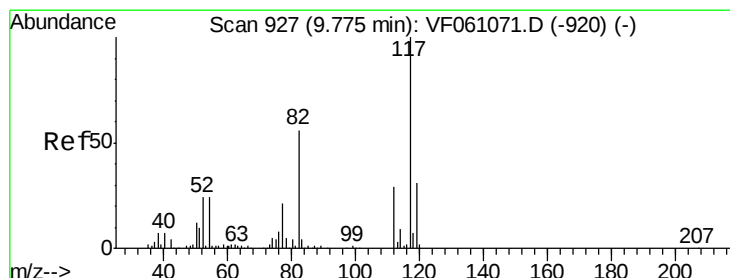
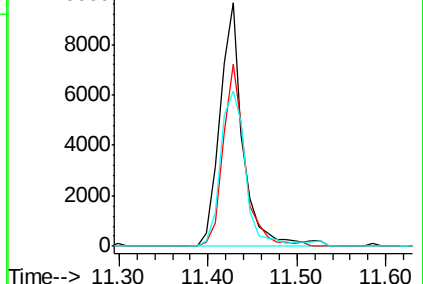
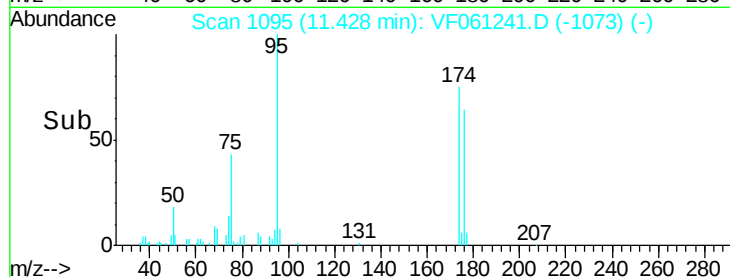
176 63.8 0.0 147.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.79 min Scan# 929

Delta R.T. 0.01 min

Lab File: VF061241.D

Acq: 28 Dec 2018 17:44

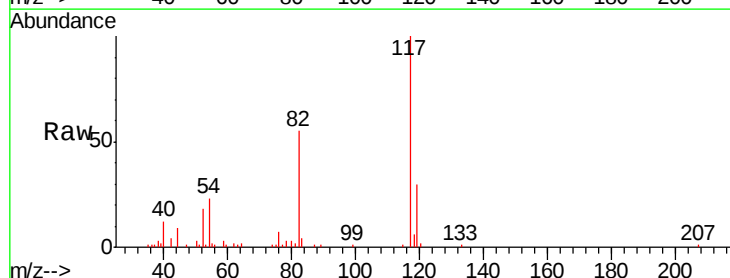
Tgt Ion: 117 Resp: 42696

Ion Ratio Lower Upper

117 100

82 55.2 45.0 67.4

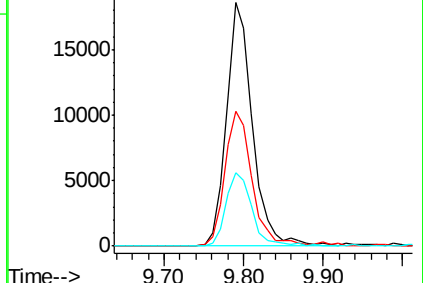
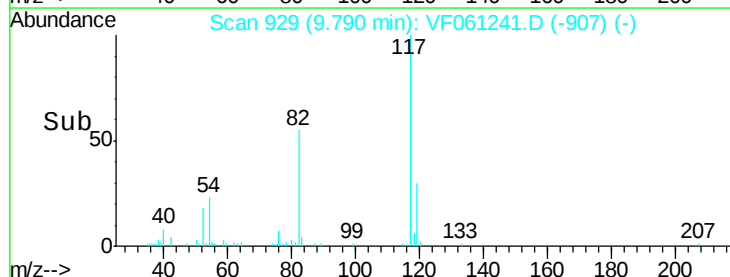
119 30.3 24.8 37.2

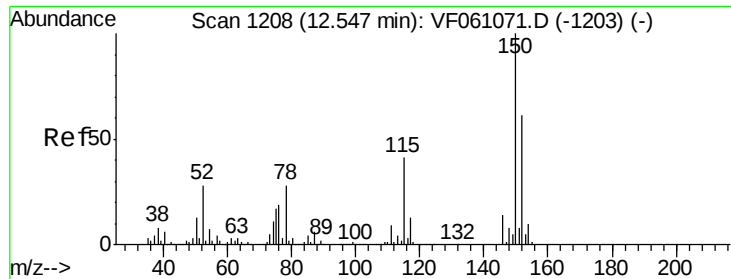


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. 0.01 min

Lab File: VF061241.D

Acq: 28 Dec 2018 17:44

Instrument :

MSVOA_F

ClientSampleId :

S72-0058

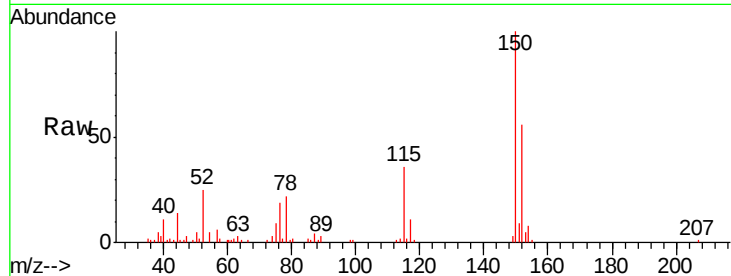
Tgt Ion:152 Resp: 15989

Ion Ratio Lower Upper

152 100

115 63.9 33.3 99.9

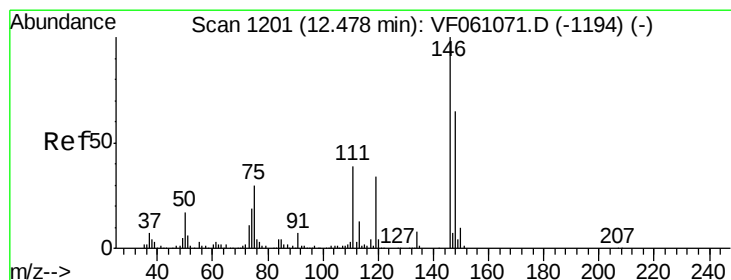
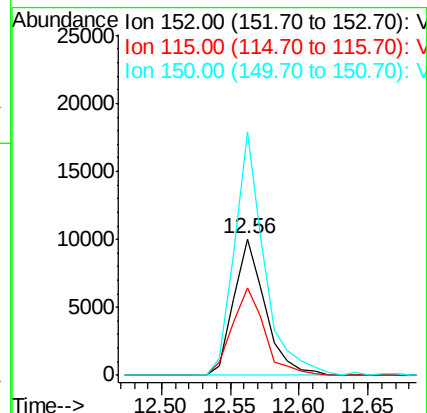
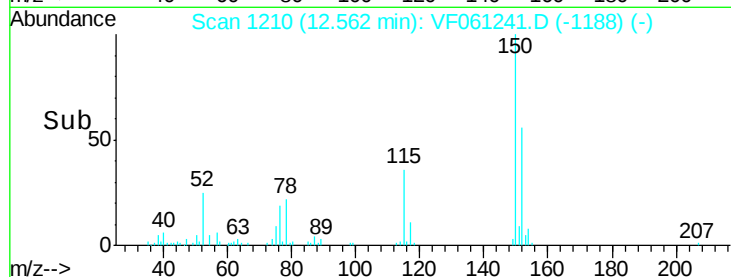
150 178.8 0.0 328.2



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: 12.58 min Scan# 1212

Delta R.T. 0.10 min

Lab File: VF061241.D

Acq: 28 Dec 2018 17:44

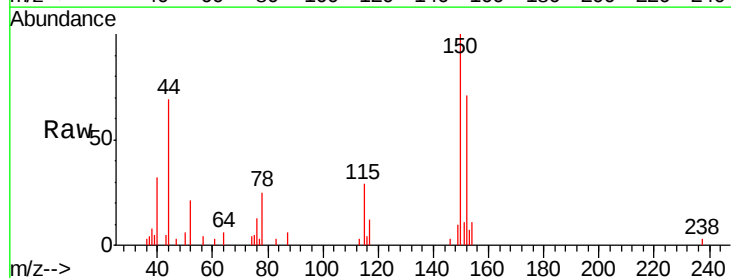
Tgt Ion:146 Resp: 61

Ion Ratio Lower Upper

146 100

111 0.0 19.3 57.9#

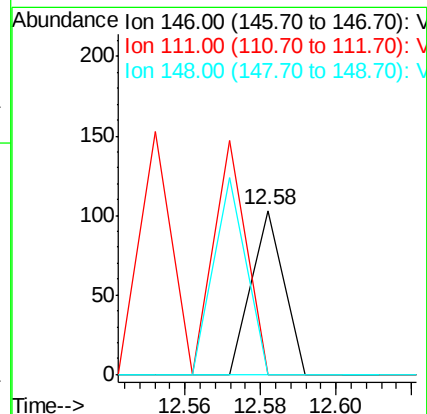
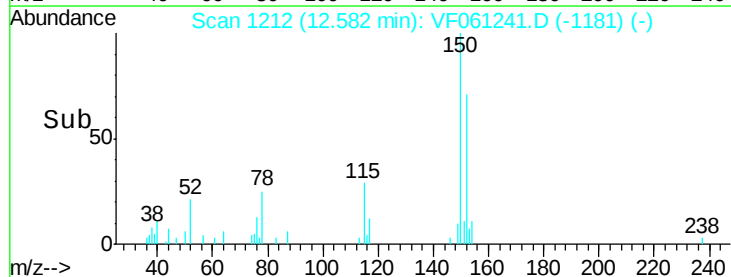
148 0.0 32.4 97.2#

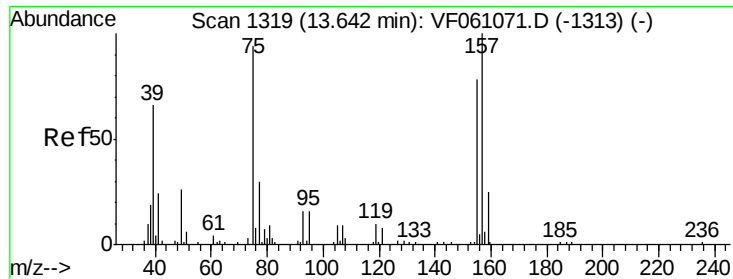


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.477 ug/l

RT: 13.60 min Scan# 1315

Delta R.T. -0.04 min

Lab File: VF061241.D

Acq: 28 Dec 2018 17:44

Instrument :

MSVOA_F

ClientSampleId :

S72-0058

Tgt Ion: 75 Resp: 62

Ion Ratio Lower Upper

75 100

155 0.0 41.5 124.5#

157 0.0 53.2 159.6#

