

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF012419\
 Data File : VF061504.D
 Acq On : 24 Jan 2019 17:07
 Operator : VA/AP
 Sample : K1223-01RE
 Misc : 4.74g/5mL/MSVOA-F/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TS-MRE

Quant Time: Jan 25 04:09:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.90	168	156791	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	5.63	114	289674	50.00	ug/l	0.04
63) Chlorobenzene-d5	9.81	117	156491	50.00	ug/l	0.04
72) 1,4-Dichlorobenzene-d4	12.58	152	39380	50.00	ug/l	0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.88	65	100257	51.79	ug/l	0.05
Spiked Amount			Recovery	=	103.58%	
35) Dibromofluoromethane	4.14	113	104477	45.71	ug/l	0.04
Spiked Amount			Recovery	=	91.42%	
50) Toluene-d8	7.59	98	197601	31.55	ug/l	0.04
Spiked Amount			Recovery	=	63.10%	
62) 4-Bromofluorobenzene	11.43	95	48925	16.72	ug/l	0.03
Spiked Amount			Recovery	=	33.44%	

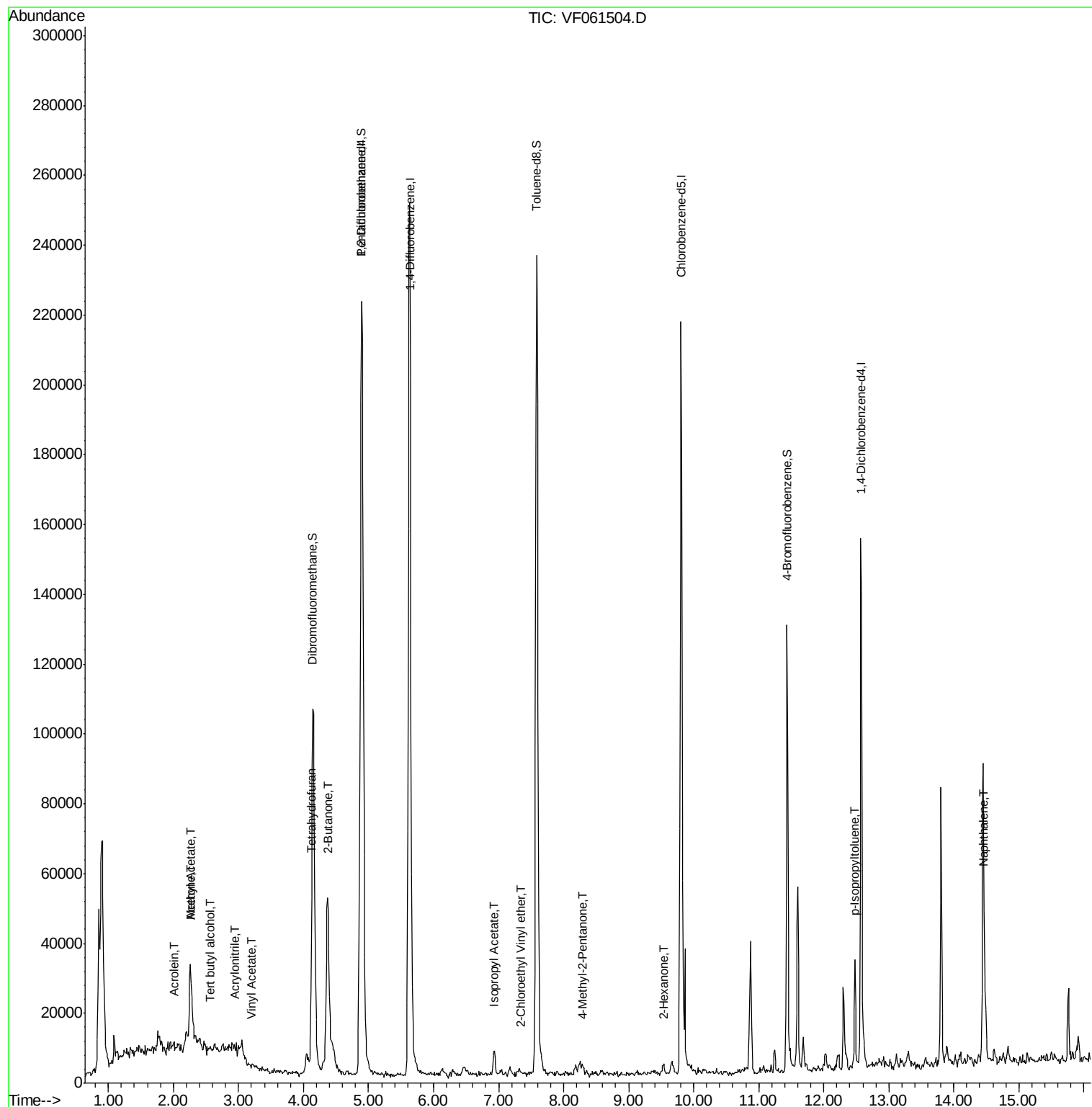
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.56	59	186	2.270	ug/l #	64
13) Acrolein	2.01	56	344	15.009	ug/l	98
14) Allyl chloride	2.12	41	340	Below Cal	#	49
15) Acrylonitrile	2.95	53	403	1.920	ug/l #	20
16) Acetone	2.26	43	42816	110.253	ug/l	99
18) Methyl Acetate	2.26	43	41178	53.468	ug/l #	61
20) Methylene Chloride	2.20	84	1670	Below Cal		87
23) Vinyl Acetate	3.20	43	747	3.532	ug/l #	61
25) 2-Butanone	4.37	43	118718	183.832	ug/l	96
29) Tetrahydrofuran	4.11	42	557	2.003	ug/l #	67
43) Isopropyl Acetate	6.94	43	12285	7.291	ug/l #	51
49) 1,4-Dioxane	7.05	88	64	Below Cal	#	13
51) 4-Methyl-2-Pentanone	8.29	43	3277	2.645	ug/l #	78
58) 2-Chloroethyl Vinyl ether	7.34	63	611	30.707	ug/l #	47
59) 2-Hexanone	9.53	43	3190	3.693	ug/l	81
86) p-Isopropyltoluene	12.48	119	14056	4.713	ug/l	94
95) Naphthalene	14.47	128	3989	2.369	ug/l #	93

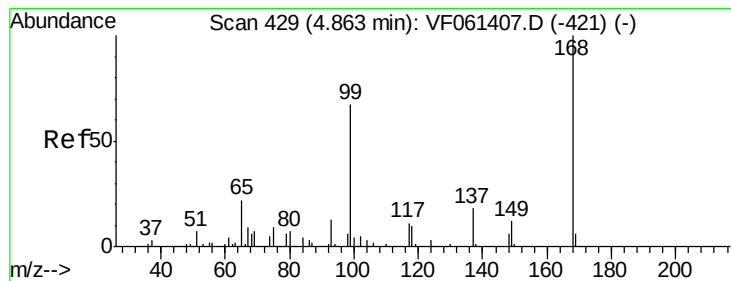
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jan 16 04:51:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.90 min Scan# 433

Delta R.T. 0.04 min

Lab File: VF061504.D

Acq: 24 Jan 2019 17:07

Instrument :

MSVOA_F

ClientSampleId :

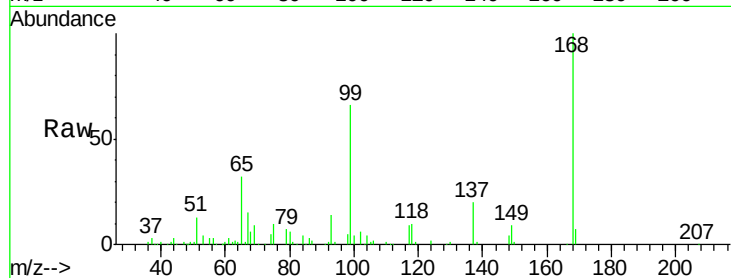
TS-MRE

Tot Ion:168 Resp: 156791

Ion Ratio Lower Upper

168 100

99 65.8 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.90

60000

50000

40000

30000

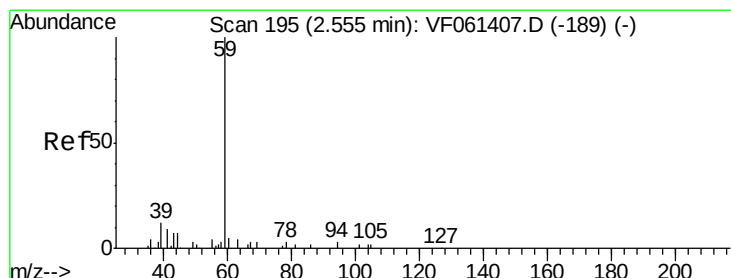
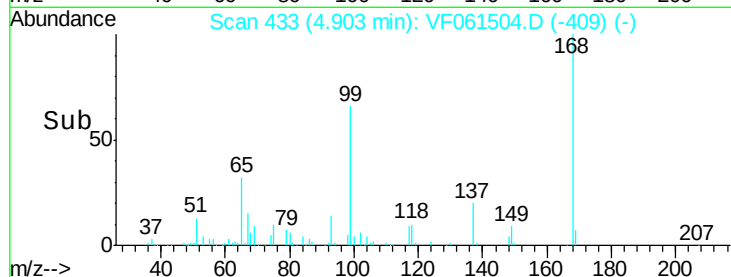
20000

10000

0

Time-->

4.80 4.90 5.00



#11

Tert butyl alcohol

Concen: 2.270 ug/l

RT: 2.56 min Scan# 195

Delta R.T. 0.00 min

Lab File: VF061504.D

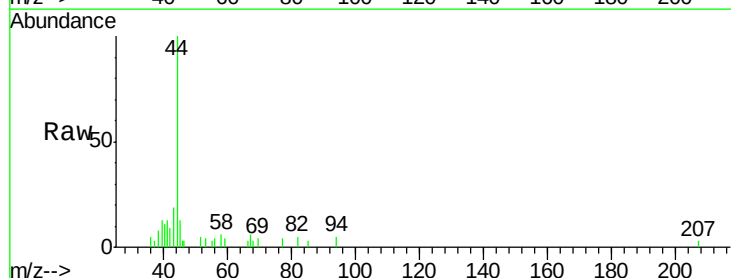
Acq: 24 Jan 2019 17:07

Tgt Ion: 59 Resp: 186

Ion Ratio Lower Upper

59 100

57 0.0 11.9 17.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.56

200

150

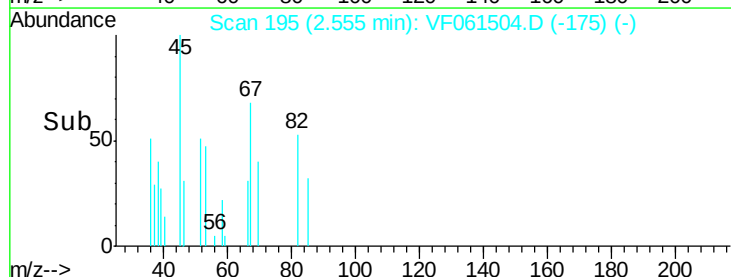
100

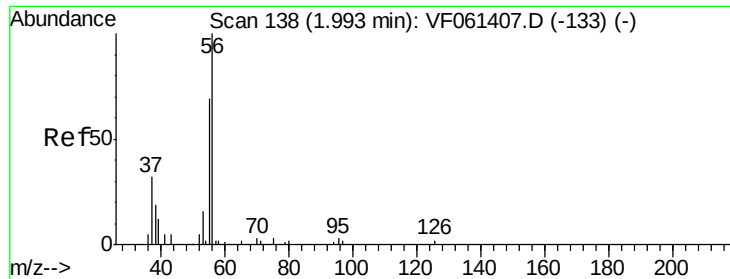
50

0

Time-->

2.54 2.56 2.58 2.60





#13

Acrolein

Concen: 15.009 ug/l

RT: 2.01 min Scan# 140

Delta R.T. 0.02 min

Lab File: VF061504.D

Acq: 24 Jan 2019 17:07

Instrument :

MSVOA_F

ClientSampleId :

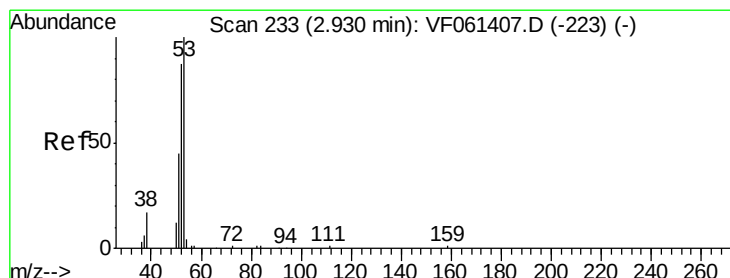
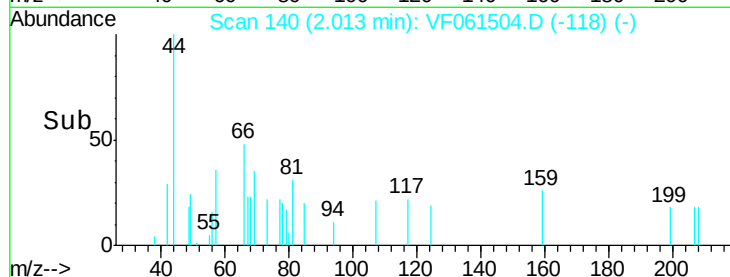
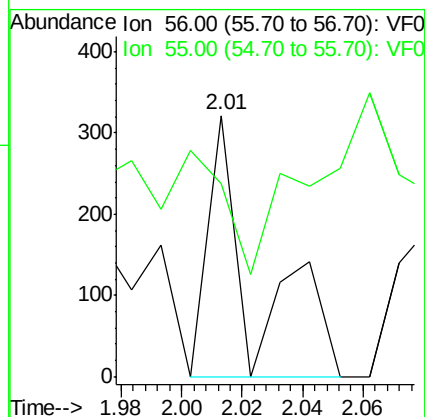
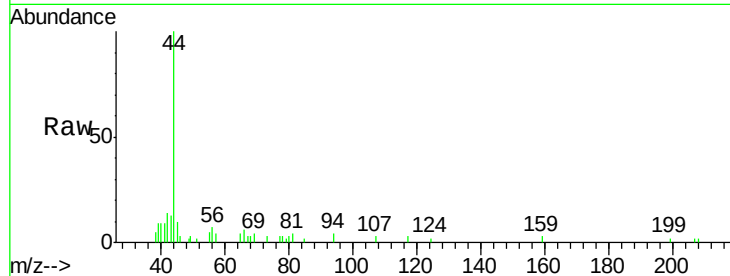
TS-MRE

Tot Ion: 56 Resp: 344

Ion Ratio Lower Upper

56 100

55 73.6 57.5 86.3



#15

Acrylonitrile

Concen: 1.920 ug/l

RT: 2.95 min Scan# 235

Delta R.T. 0.02 min

Lab File: VF061504.D

Acq: 24 Jan 2019 17:07

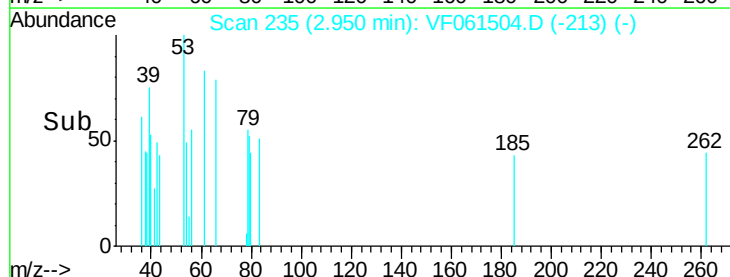
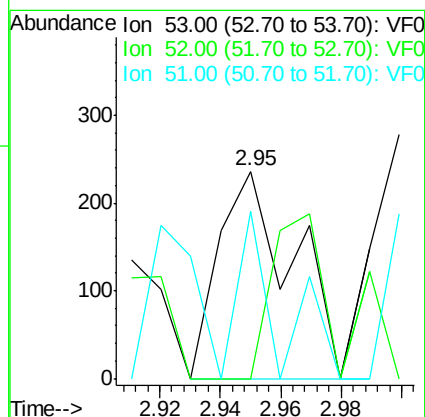
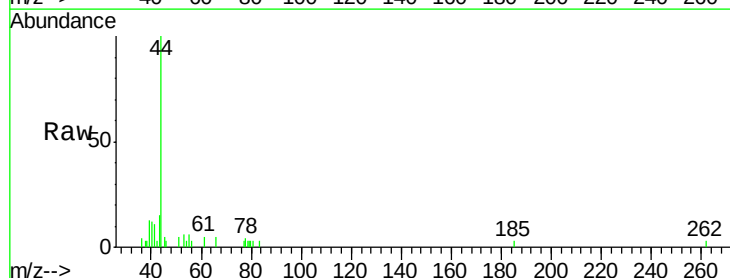
Tgt Ion: 53 Resp: 403

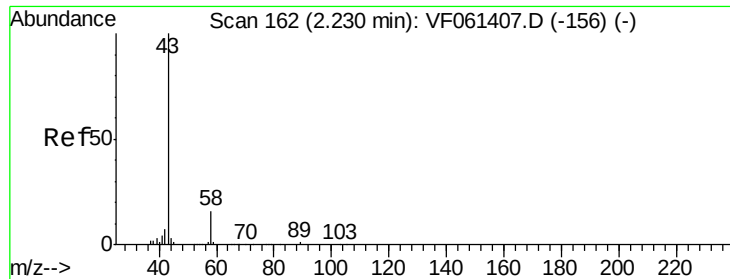
Ion Ratio Lower Upper

53 100

52 0.0 69.6 104.4#

51 80.5 36.8 55.2#

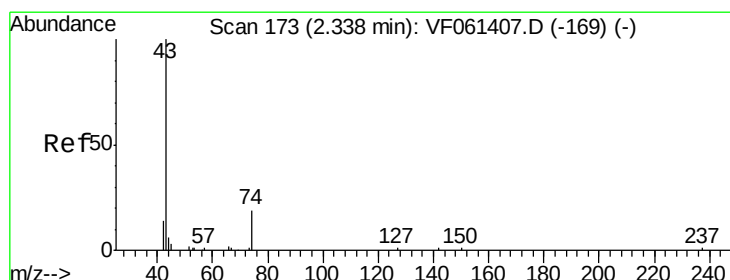
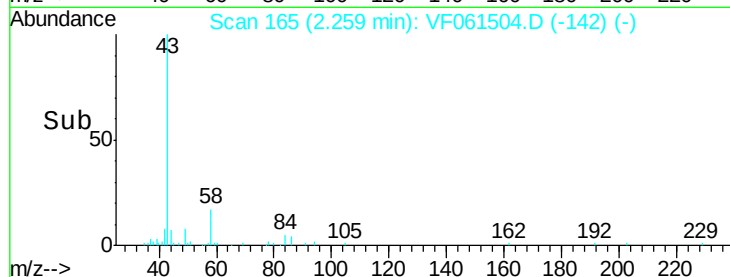
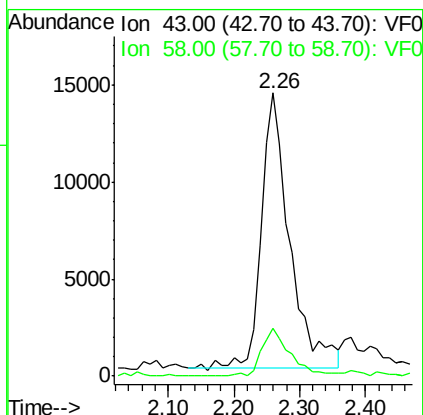
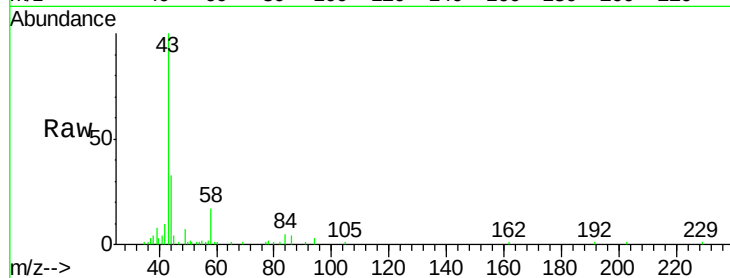




#16
Acetone
Concen: 110.253 ug/l
RT: 2.26 min Scan# 165
Delta R.T. 0.03 min
Lab File: VF061504.D
Acq: 24 Jan 2019 17:07

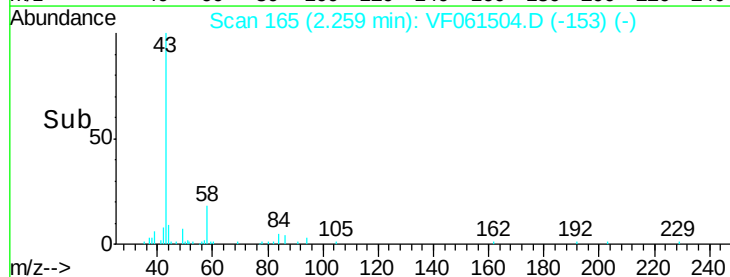
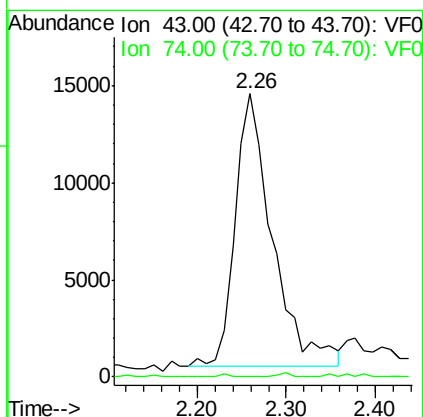
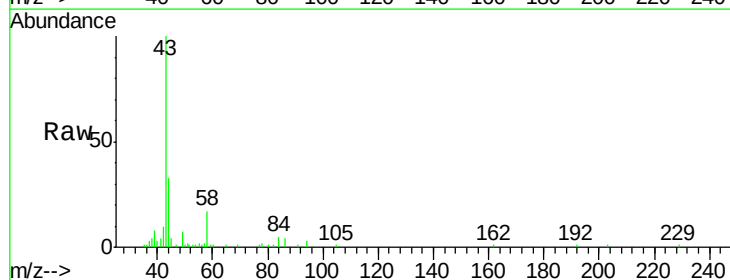
Instrument :
MSVOA_F
ClientSampleId :
TS-MRE

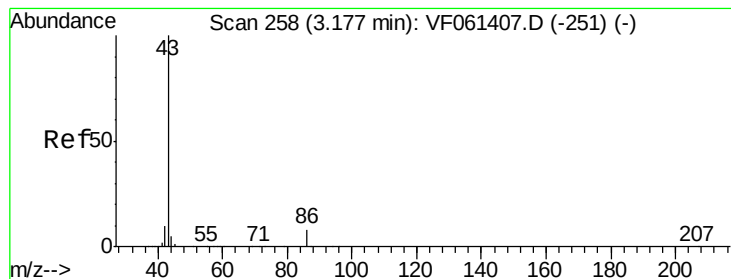
Tot Ion: 43 Resp: 42816
Ion Ratio Lower Upper
43 100
58 17.1 13.3 19.9



#18
Methyl Acetate
Concen: 53.468 ug/l
RT: 2.26 min Scan# 165
Delta R.T. -0.08 min
Lab File: VF061504.D
Acq: 24 Jan 2019 17:07

Tgt Ion: 43 Resp: 41178
Ion Ratio Lower Upper
43 100
74 0.0 13.4 20.0#





#23

Vinyl Acetate

Concen: 3.532 ug/l

RT: 3.20 min Scan# 260

Delta R.T. 0.02 min

Lab File: VF061504.D

Acq: 24 Jan 2019 17:07

Instrument :

MSVOA_F

ClientSampled :

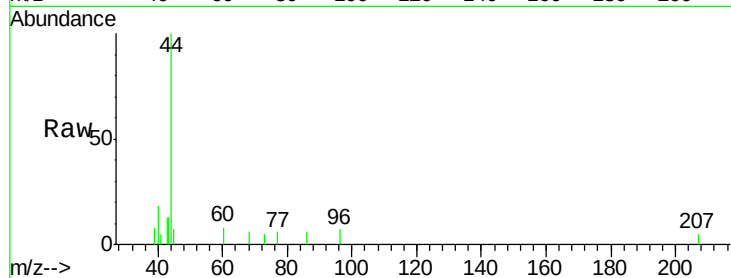
TS-MRE

Tot Ion: 43 Resp: 747

Ion Ratio Lower Upper

43 100

86 21.5 6.2 9.4#



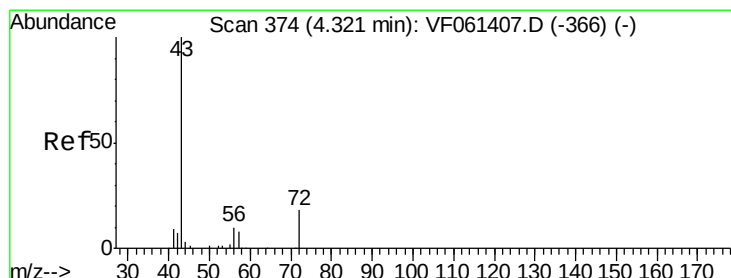
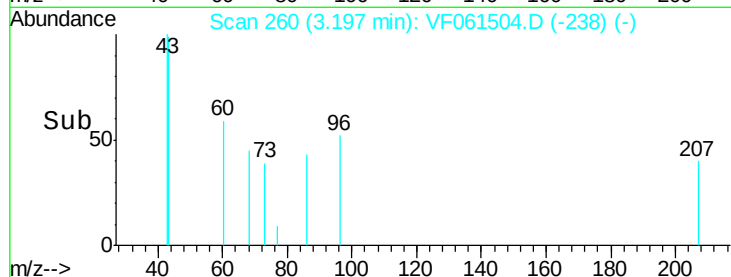
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.20

3.15 3.20 3.25

Time-->



#25

2-Butanone

Concen: 183.832 ug/l

RT: 4.37 min Scan# 379

Delta R.T. 0.05 min

Lab File: VF061504.D

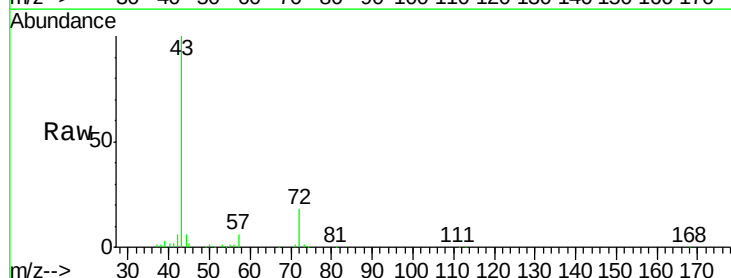
Acq: 24 Jan 2019 17:07

Tgt Ion: 43 Resp: 118718

Ion Ratio Lower Upper

43 100

72 18.0 15.8 23.6



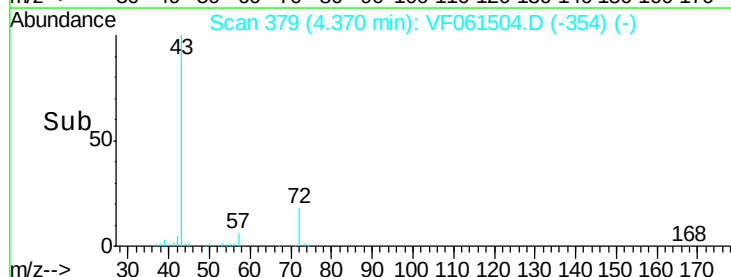
Abundance Ion 43.00 (42.70 to 43.70): VF0

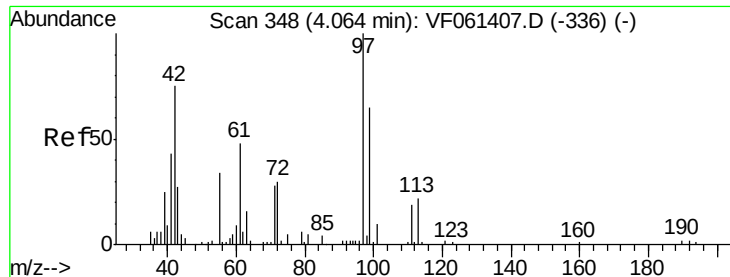
Ion 72.00 (71.70 to 72.70): VF0

4.37

4.20 4.30 4.40 4.50 4.60

Time-->





#29

Tetrahydrofuran

Concen: 2.003 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.05 min

Lab File: VF061504.D

Acq: 24 Jan 2019 17:07

Instrument :

MSVOA_F

ClientSampleId :

TS-MRE

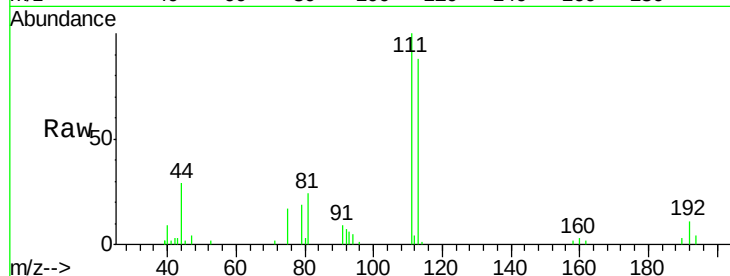
Tot Ion: 42 Resp: 557

Ion Ratio Lower Upper

42 100

72 0.0 28.9 43.3#

71 33.8 29.6 44.4



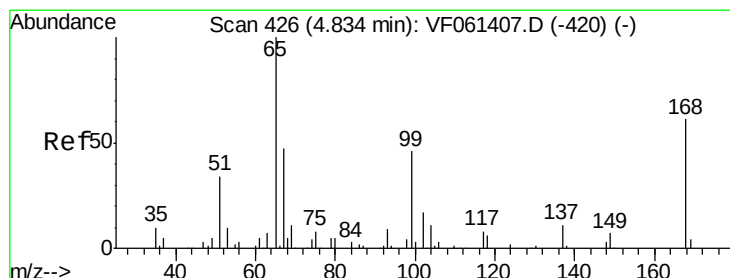
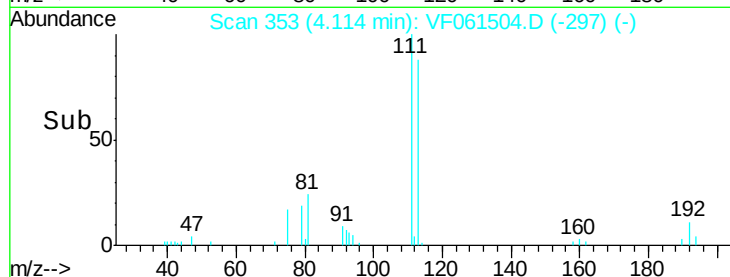
Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

4.11

Time-->



#33

1,2-Dichloroethane-d4

Concen: 51.791 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.05 min

Lab File: VF061504.D

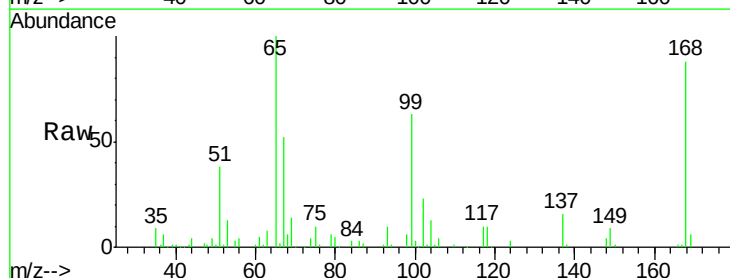
Acq: 24 Jan 2019 17:07

Tgt Ion: 65 Resp: 100257

Ion Ratio Lower Upper

65 100

67 52.1 0.0 99.8

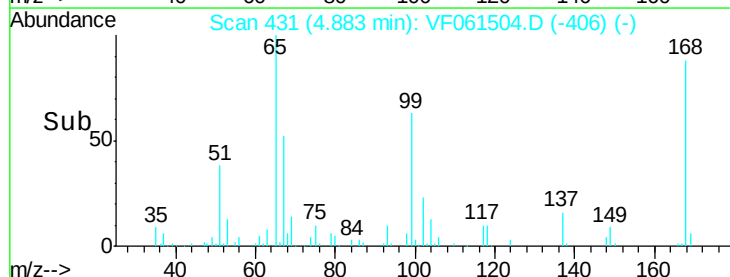


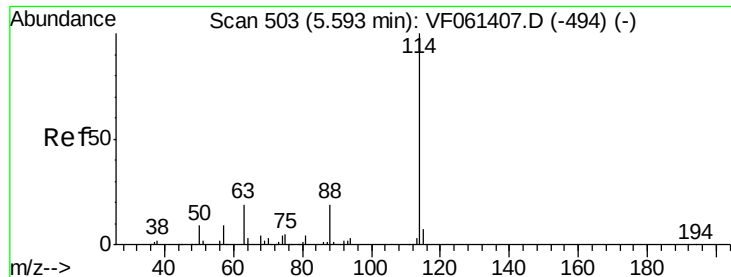
Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

4.88

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 507

Delta R.T. 0.04 min

Lab File: VF061504.D

Acq: 24 Jan 2019 17:07

Instrument :

MSVOA_F

ClientSampled :

TS-MRE

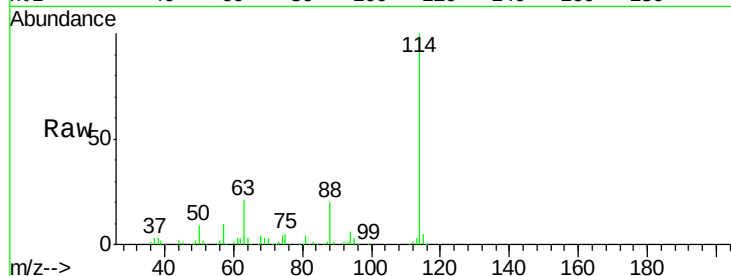
Tot Ion:114 Resp: 289674

Ion Ratio Lower Upper

114 100

63 21.0 0.0 39.0

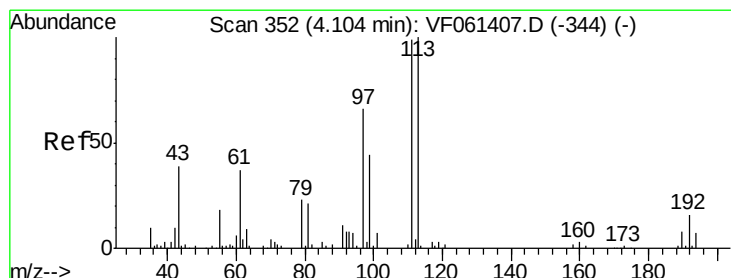
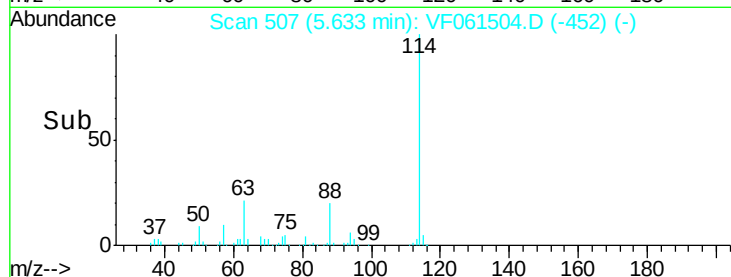
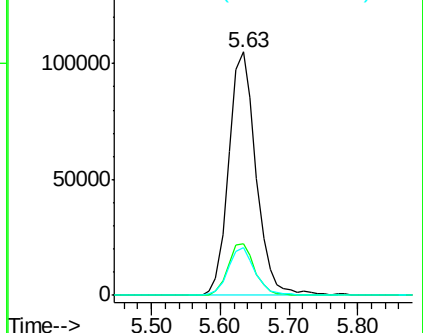
88 19.9 0.0 37.4



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: 45.707 ug/l

RT: 4.14 min Scan# 356

Delta R.T. 0.04 min

Lab File: VF061504.D

Acq: 24 Jan 2019 17:07

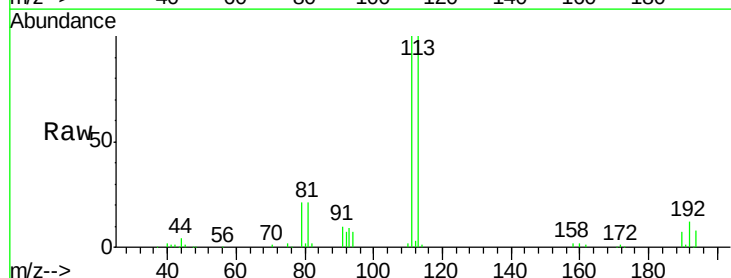
Tgt Ion:113 Resp: 104477

Ion Ratio Lower Upper

113 100

111 99.8 79.4 119.0

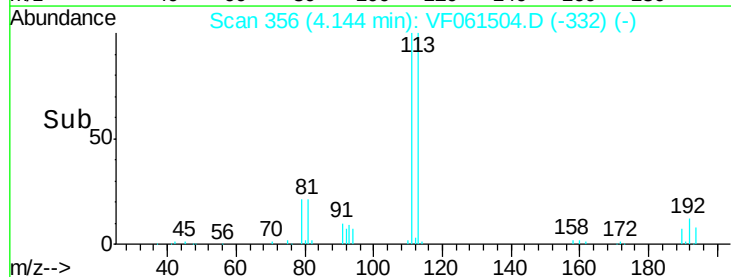
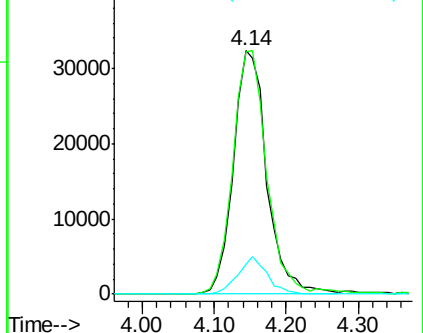
192 12.3 12.4 18.6#

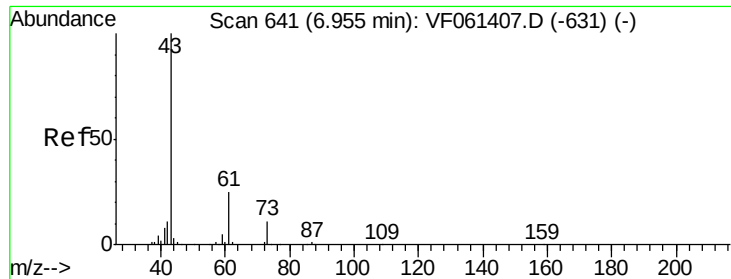


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#43

Isopropyl Acetate

Concen: 7.291 ug/l

RT: 6.94 min Scan# 639

Delta R.T. -0.02 min

Lab File: VF061504.D

Acq: 24 Jan 2019 17:07

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ClientSampled :

TS-MRE

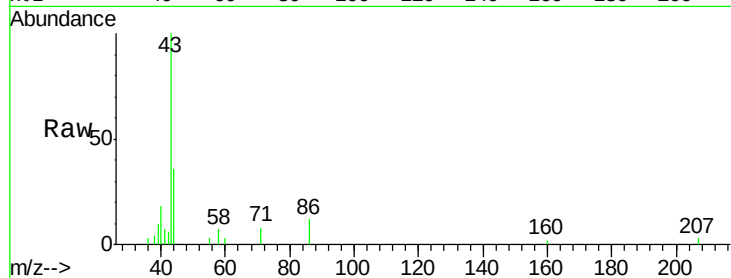
Tot Ion: 43 Resp: 12285

Ion Ratio Lower Upper

43 100

61 0.0 20.3 30.5#

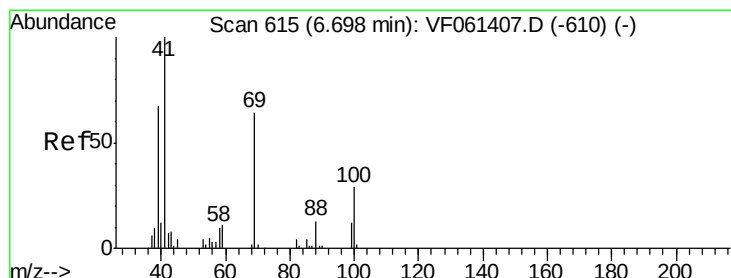
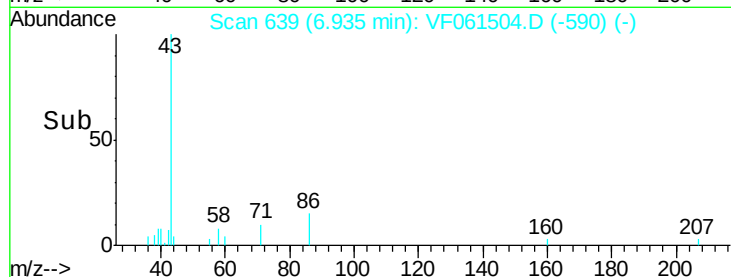
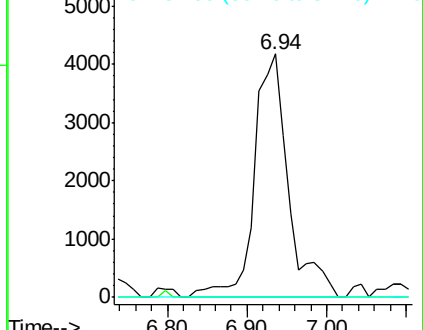
87 0.0 0.5 0.7#



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



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.05 min Scan# 651

Delta R.T. 0.36 min

Lab File: VF061504.D

Acq: 24 Jan 2019 17:07

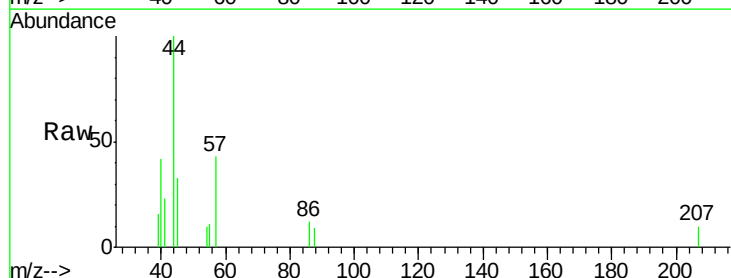
Tgt Ion: 88 Resp: 64

Ion Ratio Lower Upper

88 100

43 0.0 55.5 83.3#

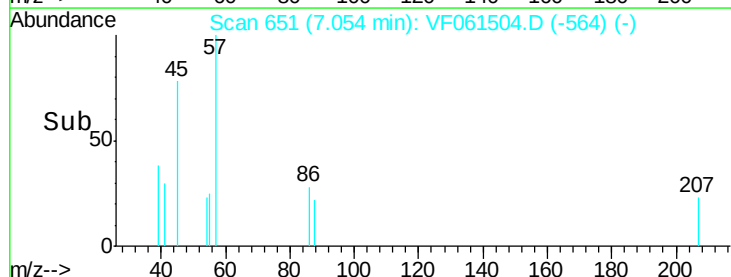
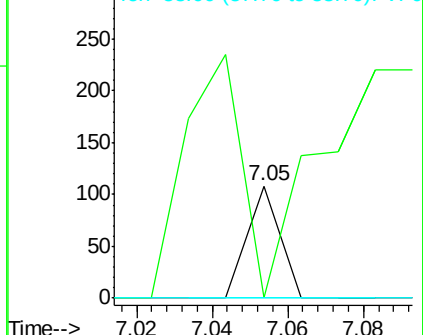
58 0.0 59.9 89.9#

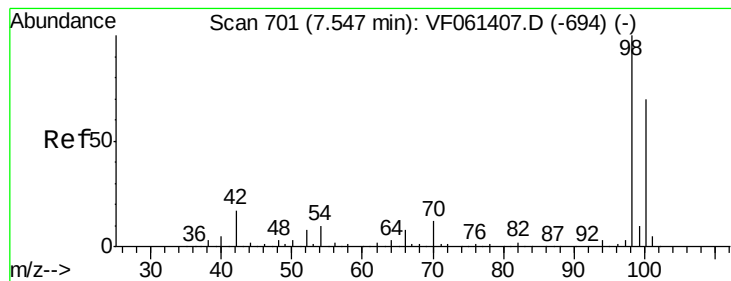


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 31.552 ug/l

RT: 7.59 min Scan# 705

Delta R.T. 0.04 min

Lab File: VF061504.D

Acq: 24 Jan 2019 17:07

Instrument :

MSVOA_F

ClientSampleId :

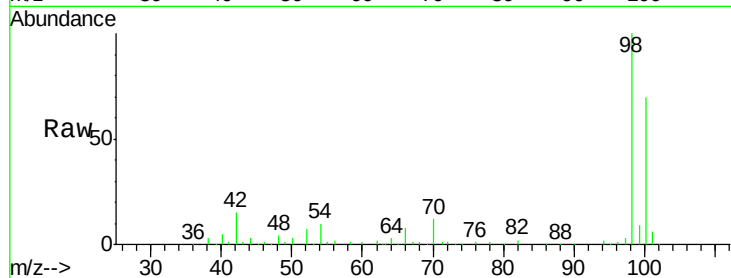
TS-MRE

Tot Ion: 98 Resp: 197601

Ion Ratio Lower Upper

98 100

100 70.1 55.6 83.4

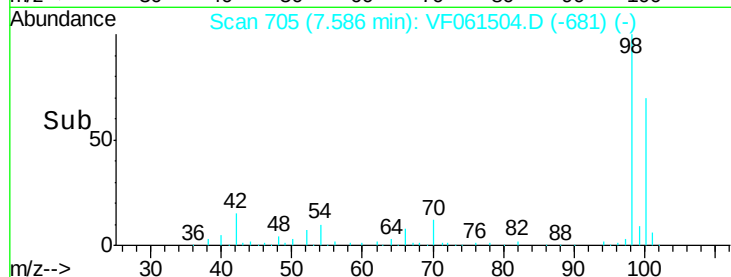


Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.59

Time-->



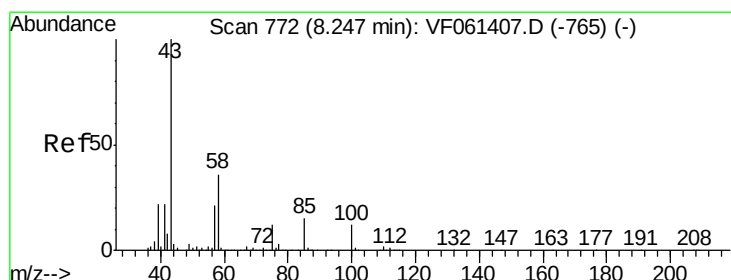
Abundance

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.59

Time-->



#51

4-Methyl-2-Pentanone

Concen: 2.645 ug/l

RT: 8.29 min Scan# 776

Delta R.T. 0.04 min

Lab File: VF061504.D

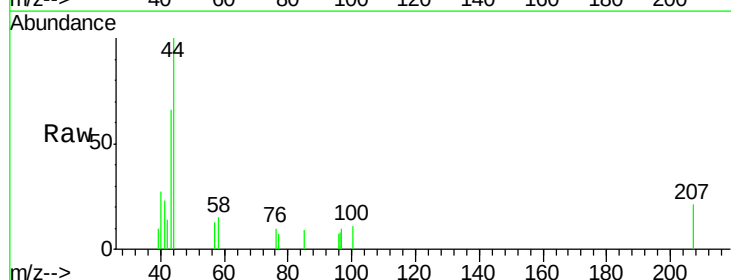
Acq: 24 Jan 2019 17:07

Tgt Ion: 43 Resp: 3277

Ion Ratio Lower Upper

43 100

58 22.8 28.8 43.2#

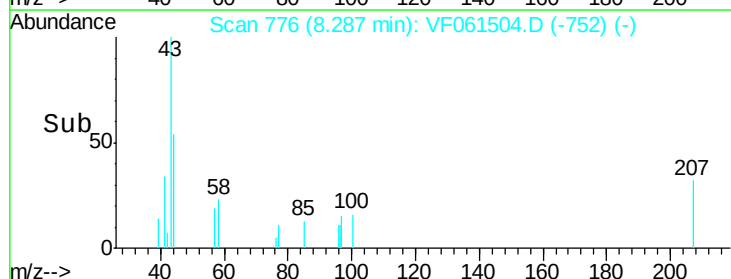


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.29

Time-->



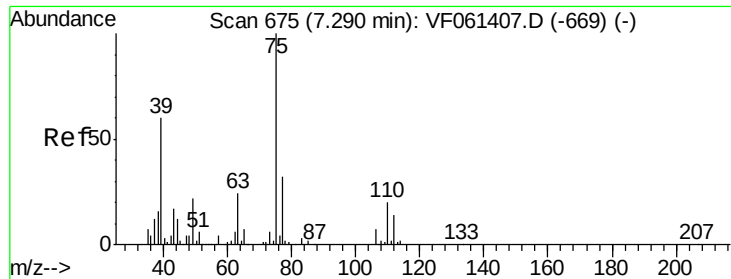
Abundance

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.29

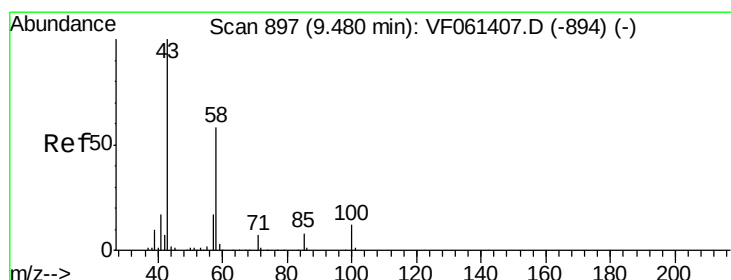
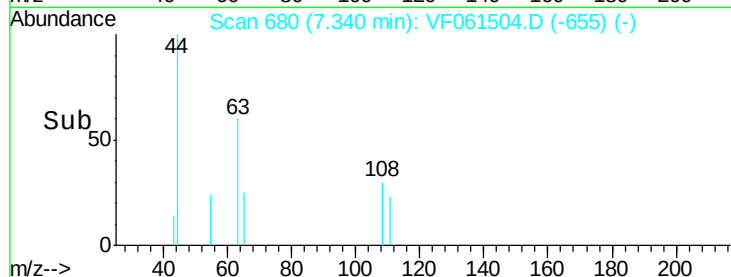
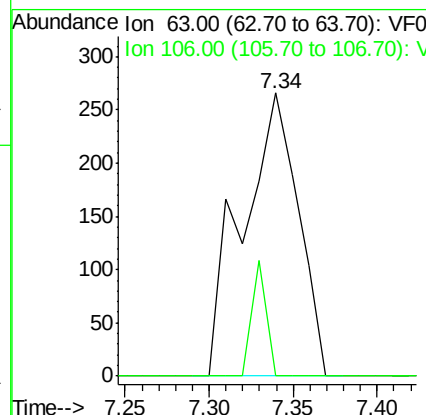
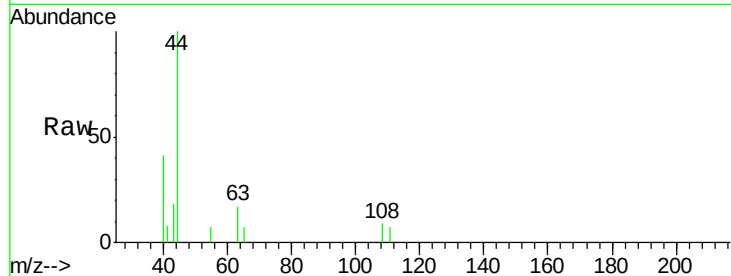
Time-->



#58
 2-Chloroethyl Vinyl ether
 Concen: 30.707 ug/l
 RT: 7.34 min Scan# 680
 Delta R.T. 0.05 min
 Lab File: VF061504.D
 Acq: 24 Jan 2019 17:07

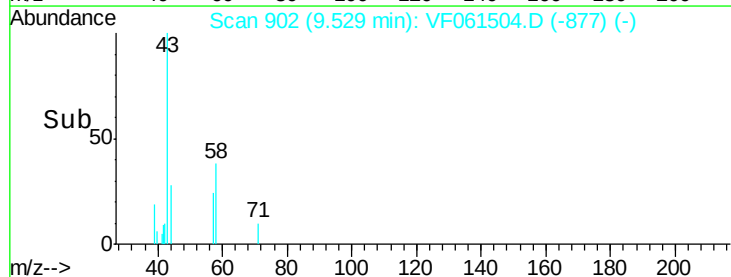
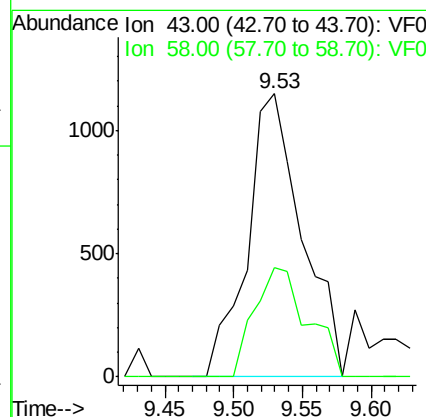
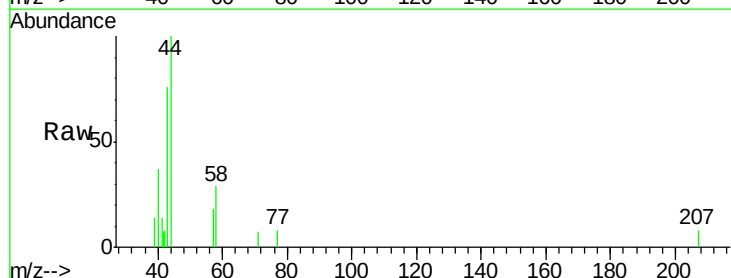
Instrument :
 MSVOA_F
 ClientSampleId :
 TS-MRE

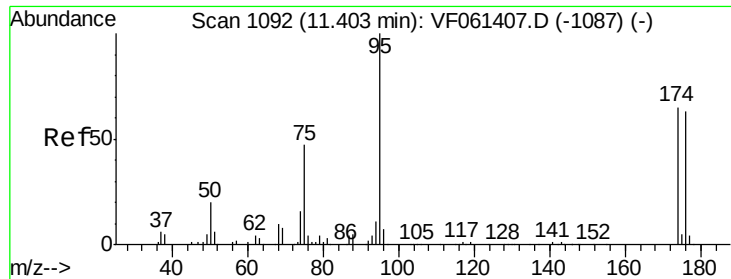
Tot Ion: 63 Resp: 611
 Ion Ratio Lower Upper
 63 100
 106 0.0 21.9 32.9#



#59
 2-Hexanone
 Concen: 3.693 ug/l
 RT: 9.53 min Scan# 902
 Delta R.T. 0.05 min
 Lab File: VF061504.D
 Acq: 24 Jan 2019 17:07

Tgt Ion: 43 Resp: 3190
 Ion Ratio Lower Upper
 43 100
 58 38.5 25.9 77.6





#62

4-Bromofluorobenzene

Concen: 16.720 ug/l

RT: 11.43 min Scan# 1095

Delta R.T. 0.03 min

Lab File: VF061504.D

Acq: 24 Jan 2019 17:07

Instrument :

MSVOA_F

ClientSampleId :

TS-MRE

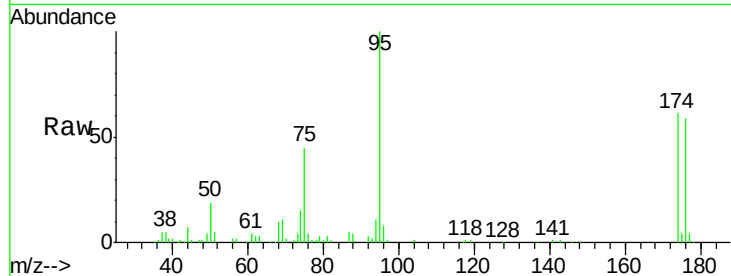
Tot Ion: 95 Resp: 48925

Ion Ratio Lower Upper

95 100

174 60.6 0.0 130.4

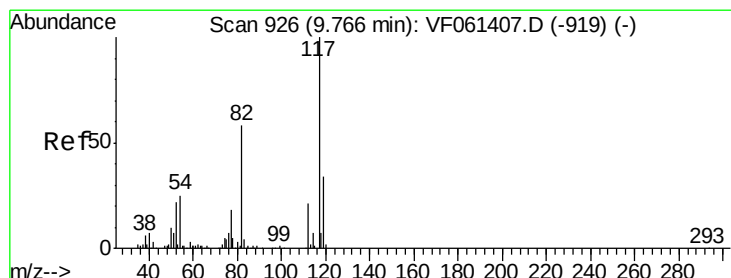
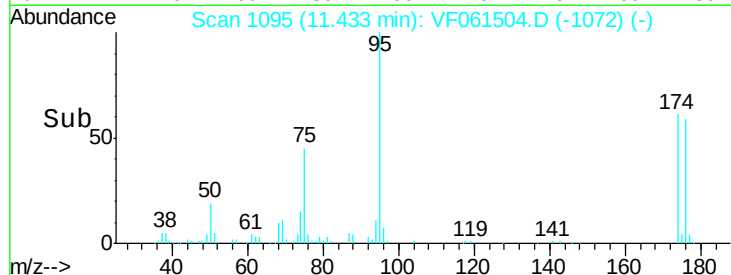
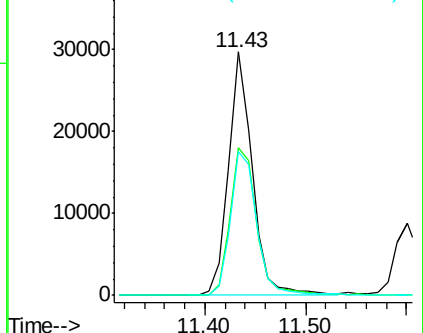
176 59.3 0.0 126.2



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: 9.81 min Scan# 930

Delta R.T. 0.04 min

Lab File: VF061504.D

Acq: 24 Jan 2019 17:07

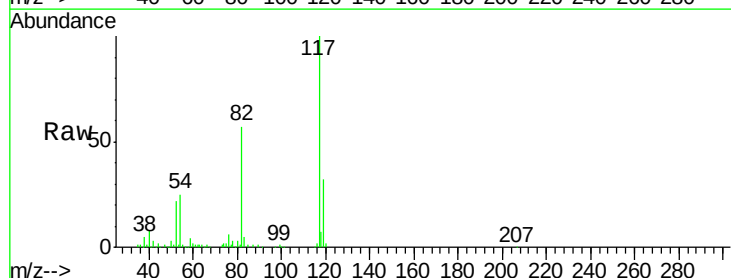
Tgt Ion: 117 Resp: 156491

Ion Ratio Lower Upper

117 100

82 56.8 46.4 69.6

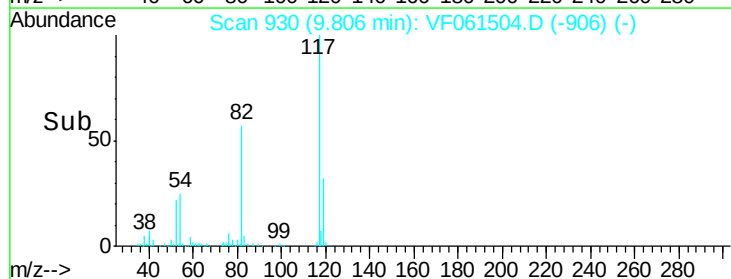
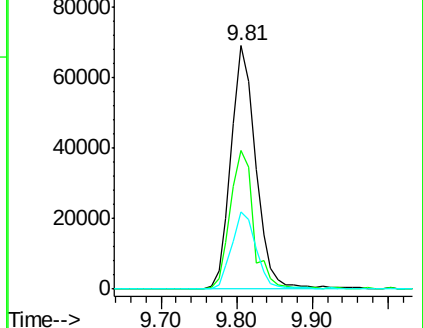
119 32.0 27.2 40.8

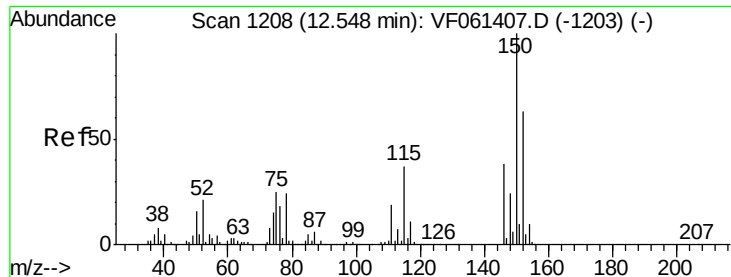


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0



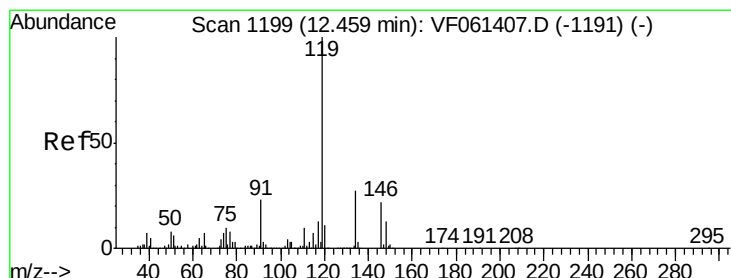
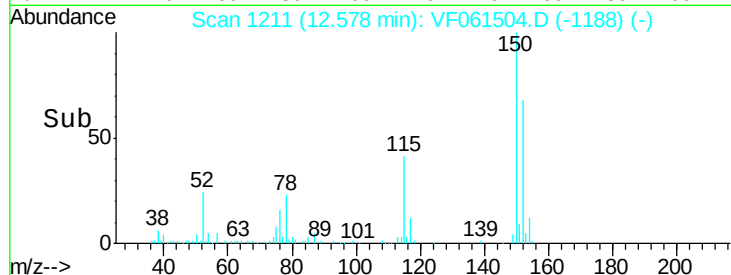
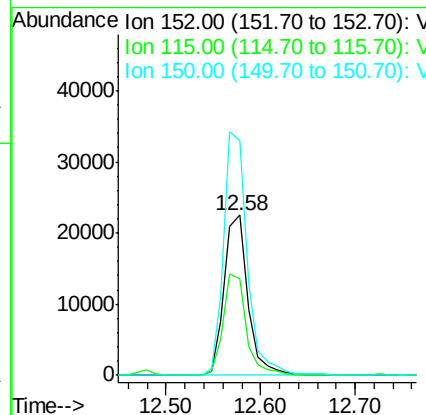
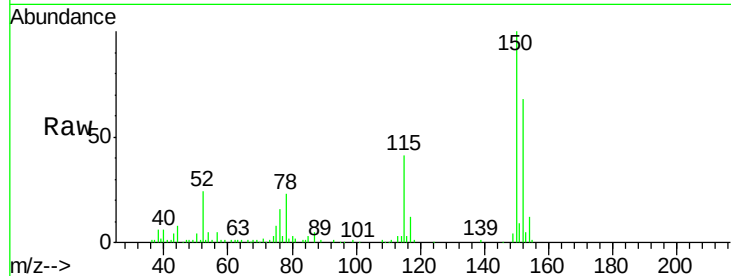


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.58 min Scan# 1211
Delta R.T. 0.03 min
Lab File: VF061504.D
Acq: 24 Jan 2019 17:07

Instrument :
MSVOA_F
ClientSampleId :
TS-MRE

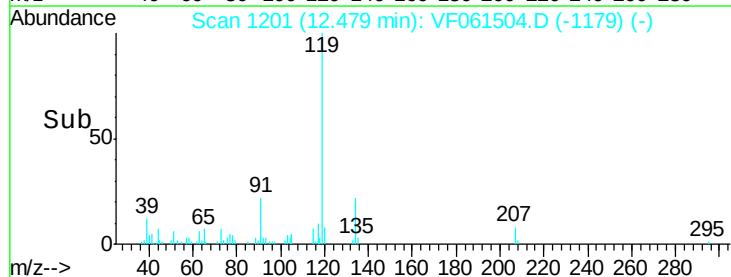
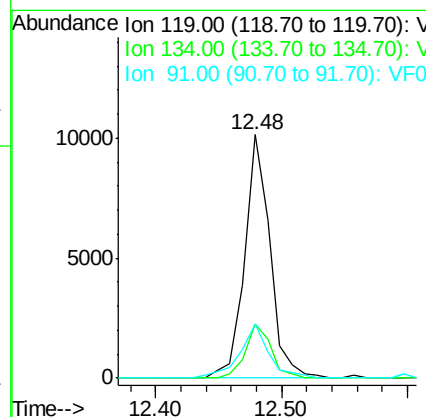
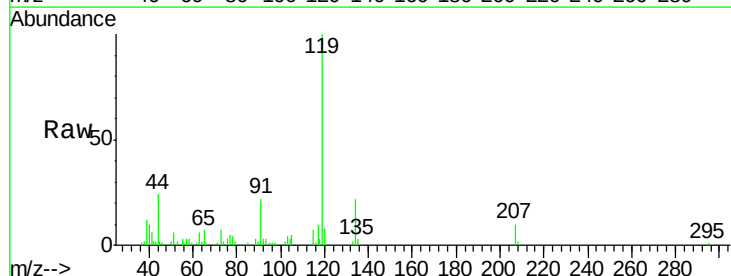
Tot Ion:152 Resp: 39380
Ion Ratio Lower Upper
152 100
115 60.2 30.0 90.0
150 146.9 0.0 321.4

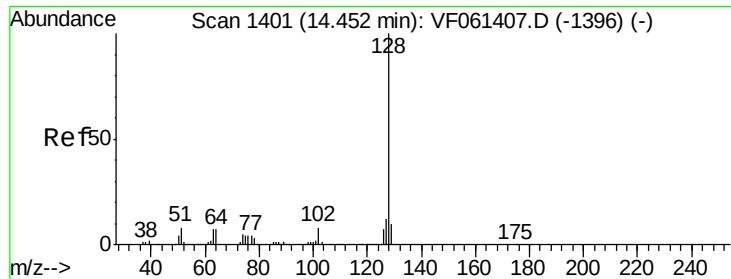


#86

p-Isopropyltoluene
Concen: 4.713 ug/l
RT: 12.48 min Scan# 1201
Delta R.T. 0.02 min
Lab File: VF061504.D
Acq: 24 Jan 2019 17:07

Tgt Ion:119 Resp: 14056
Ion Ratio Lower Upper
119 100
134 22.1 13.4 40.2
91 22.0 11.4 34.2





#95

Naphthalene

Concen: 2.369 ug/l

RT: 14.47 min Scan# 1403

Delta R.T. 0.02 min

Lab File: VF061504.D

Acq: 24 Jan 2019 17:07

Instrument :

MSVOA_F

ClientSampleId :

TS-MRE

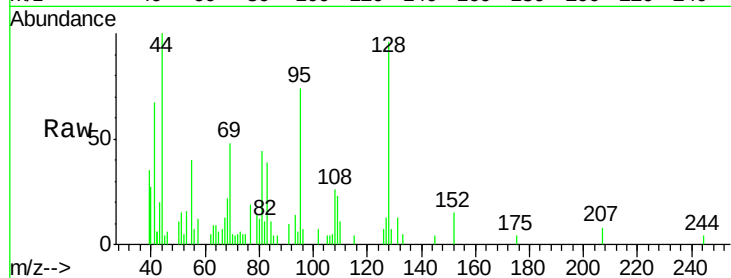
Tot Ion:128 Resp: 3989

Ion Ratio Lower Upper

128 100

127 14.0 9.5 14.3

129 7.1 8.4 12.6#



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

