

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF012119\
 Data File : VF061476.D
 Acq On : 21 Jan 2019 16:26
 Operator : VA/AP
 Sample : K1210-01RE
 Misc : 5.05g/5mL/MSVOA-F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 RT-1495RE

Quant Time: Jan 22 06:30:29 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	4.87	168	140948	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	252953	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	204591	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	82589	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	88081	50.62	ug/l	0.00
Spiked Amount			Recovery	=	101.24%	
35) Dibromofluoromethane	4.11	113	104726	52.47	ug/l	0.00
Spiked Amount			Recovery	=	104.94%	
50) Toluene-d8	7.55	98	225519	41.24	ug/l	0.00
Spiked Amount			Recovery	=	82.48%	
62) 4-Bromofluorobenzene	11.41	95	96339	37.70	ug/l	0.00
Spiked Amount			Recovery	=	75.40%	

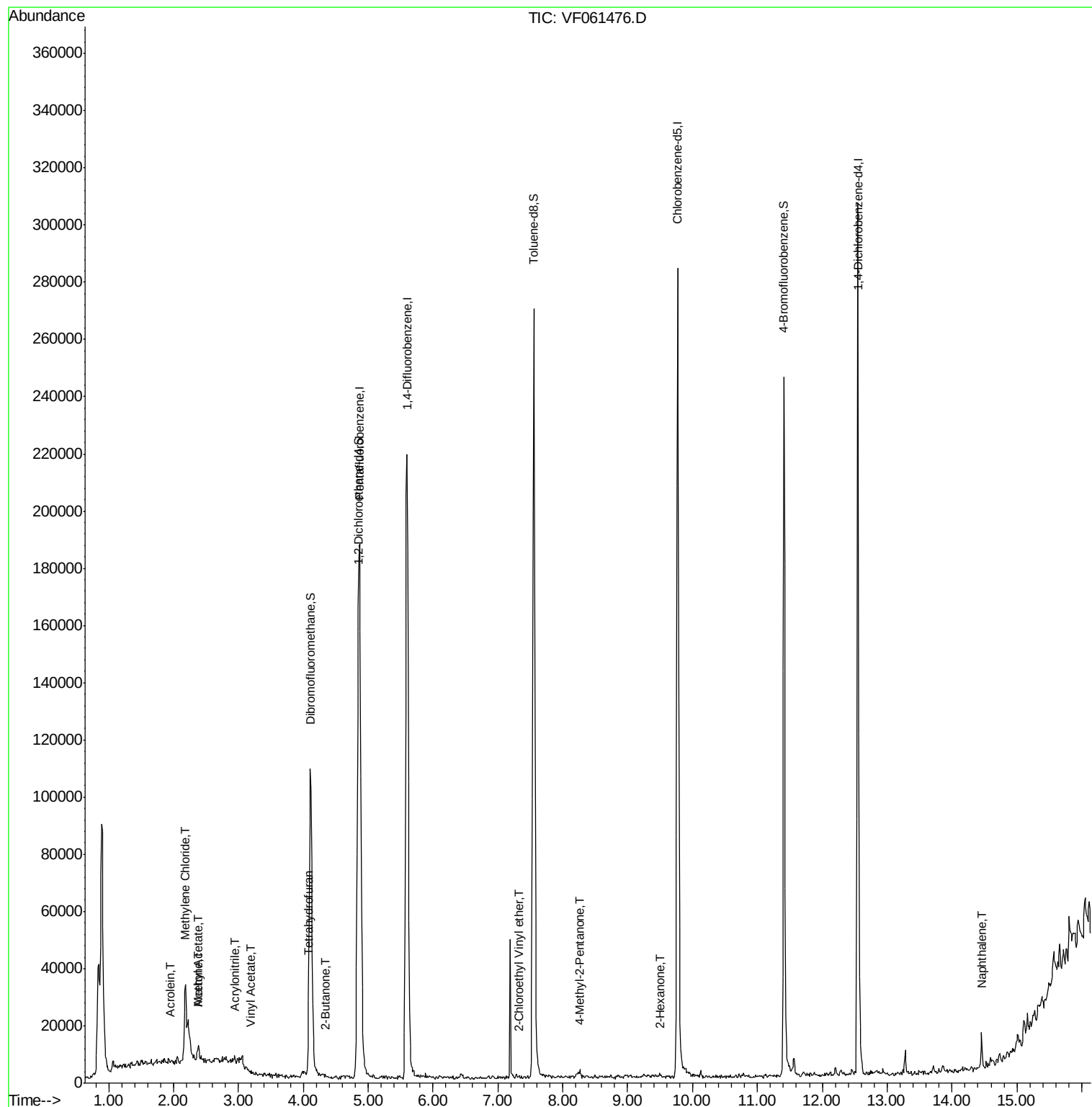
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	1.95	56	79	11.531	ug/l #	40
14) Allyl chloride	2.10	41	183	Below Cal	#	60
15) Acrylonitrile	2.95	53	583	3.090	ug/l #	79
16) Acetone	2.36	43	2501	7.164	ug/l	93
18) Methyl Acetate	2.36	43	3028	4.374	ug/l #	61
20) Methylene Chloride	2.18	84	13604	10.077	ug/l #	85
23) Vinyl Acetate	3.18	43	993	3.693	ug/l #	78
25) 2-Butanone	4.34	43	1554	2.677	ug/l #	71
29) Tetrahydrofuran	4.07	42	411	1.644	ug/l #	82
51) 4-Methyl-2-Pentanone	8.26	43	2209	2.042	ug/l #	87
58) 2-Chloroethyl Vinyl ether	7.31	63	76	27.972	ug/l #	47
59) 2-Hexanone	9.49	43	1703	2.258	ug/l	72
95) Naphthalene	14.46	128	5187	1.469	ug/l	96

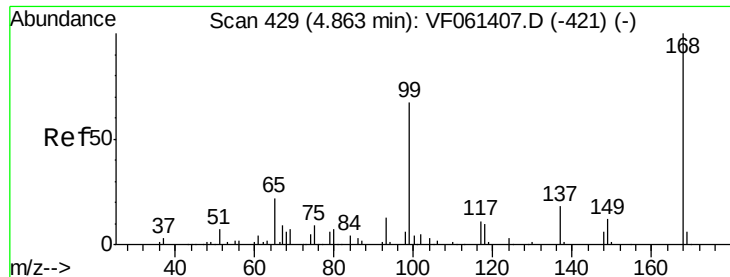
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF012119\
Data File : VF061476.D
Acq On : 21 Jan 2019 16:26
Operator : VA/AP
Sample : K1210-01RE
Misc : 5.05g/5mL/MSVOA-F/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
RT-1495RE

Quant Time: Jan 22 06:30:29 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
Quant Title : SW846 8260
QLast Update : Wed Jan 16 04:51:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.00 min

Lab File: VF061476.D

Acq: 21 Jan 2019 16:26

Instrument :

MSVOA_F

ClientSampleId :

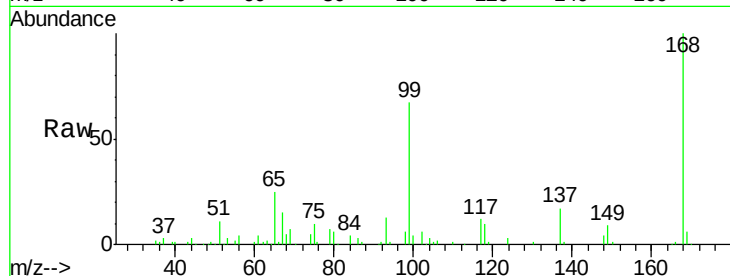
RT-1495RE

Tot Ion:168 Resp: 140948

Ion Ratio Lower Upper

168 100

99 67.0 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

50000

40000

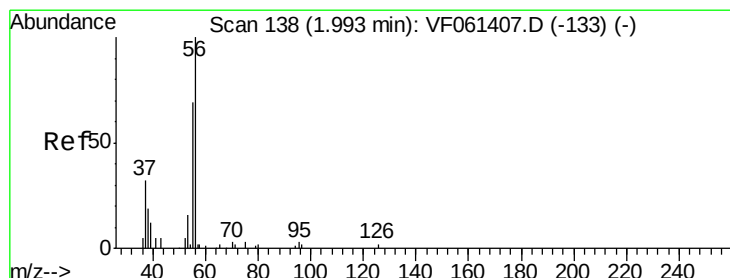
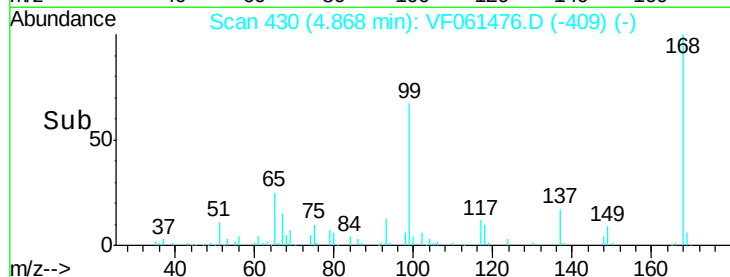
30000

20000

10000

0

Time-->



#13

Acrolein

Concen: 11.531 ug/l

RT: 1.95 min Scan# 134

Delta R.T. -0.04 min

Lab File: VF061476.D

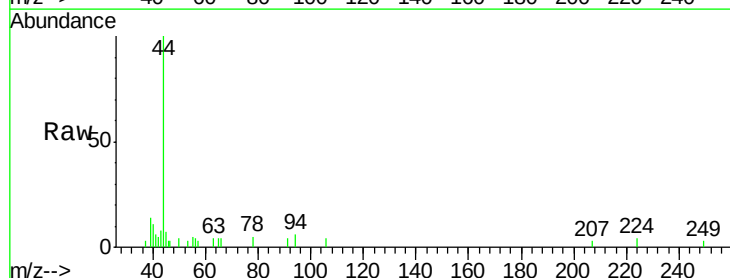
Acq: 21 Jan 2019 16:26

Tgt Ion: 56 Resp: 79

Ion Ratio Lower Upper

56 100

55 121.8 57.5 86.3#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

400

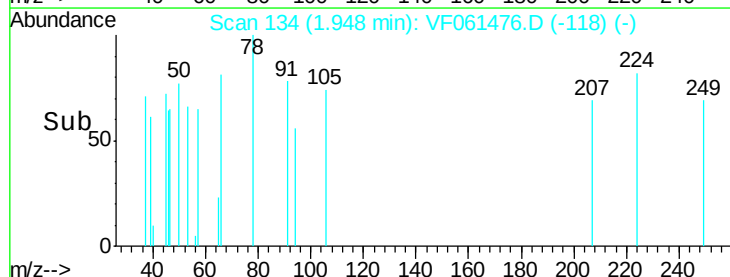
300

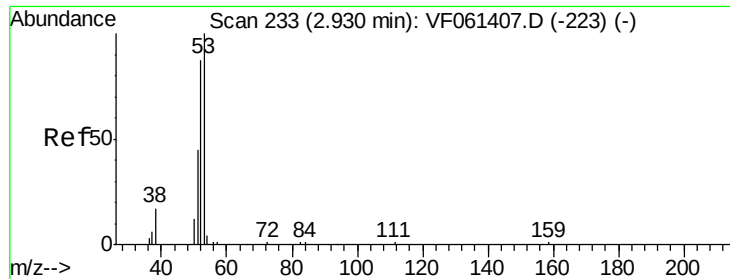
200

100

0

Time-->





#15

Acrylonitrile

Concen: 3.090 ug/l

RT: 2.95 min Scan# 236

Delta R.T. 0.02 min

Lab File: VF061476.D

Acq: 21 Jan 2019 16:26

Instrument :

MSVOA_F

ClientSampleId :

RT-1495RE

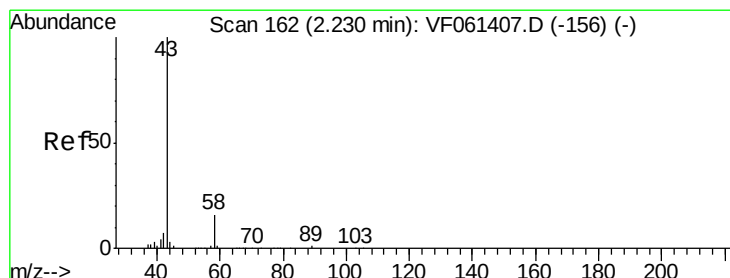
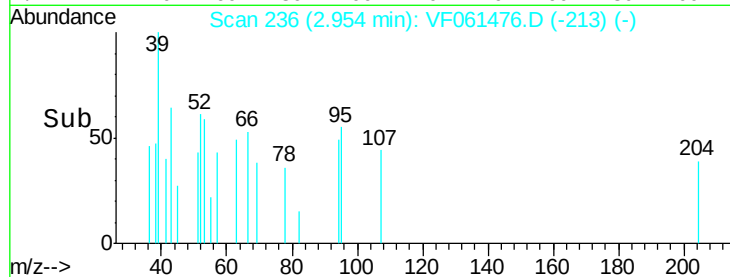
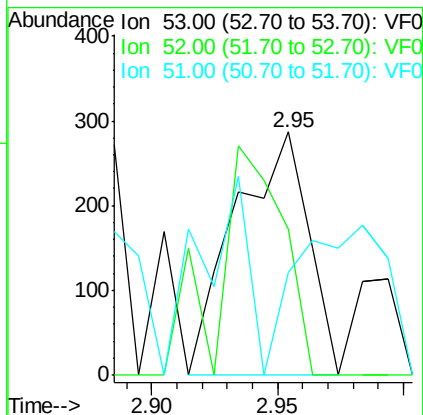
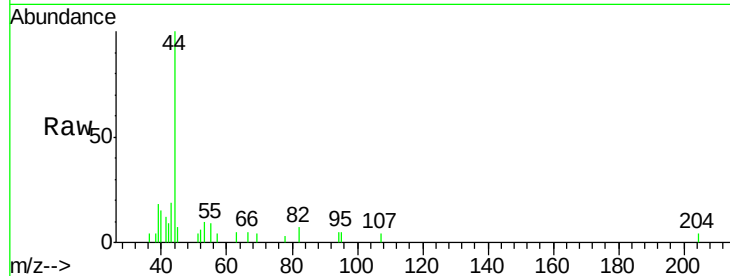
Tot Ion: 53 Resp: 583

Ion Ratio Lower Upper

53 100

52 60.3 69.6 104.4#

51 42.2 36.8 55.2



#16

Acetone

Concen: 7.164 ug/l

RT: 2.36 min Scan# 176

Delta R.T. 0.13 min

Lab File: VF061476.D

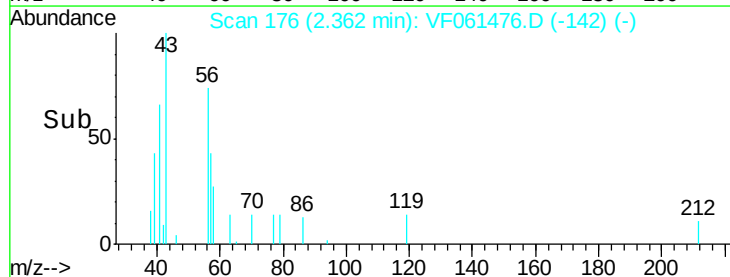
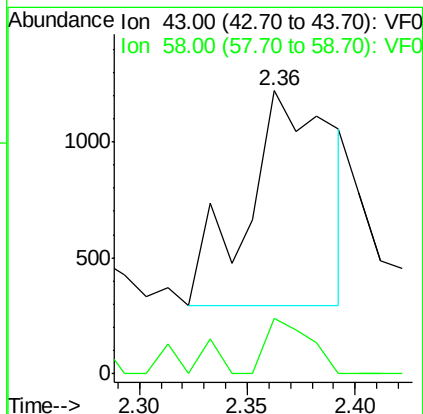
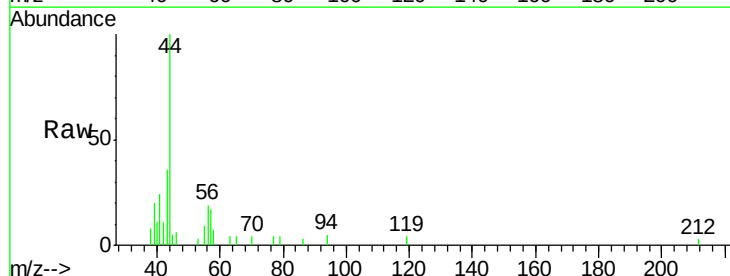
Acq: 21 Jan 2019 16:26

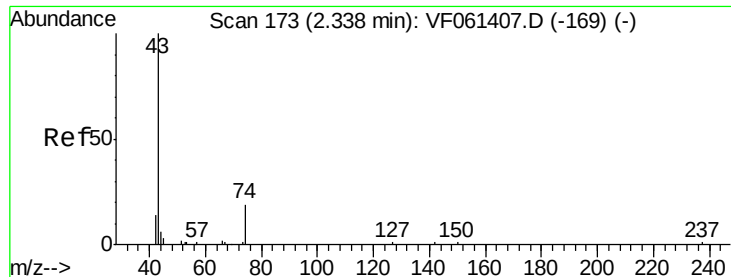
Tgt Ion: 43 Resp: 2501

Ion Ratio Lower Upper

43 100

58 19.7 13.3 19.9

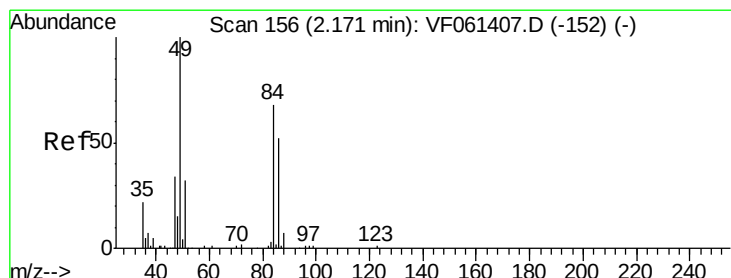
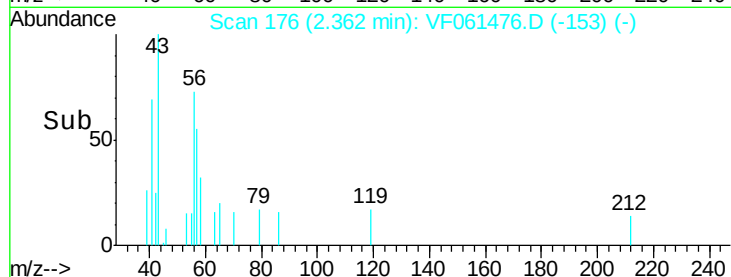
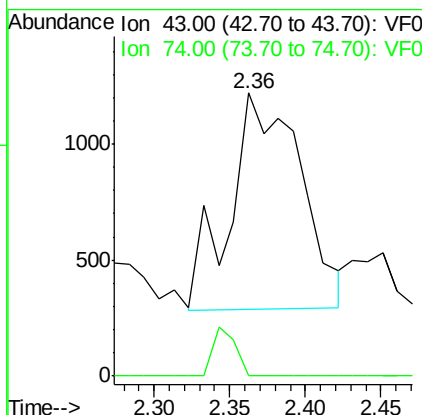
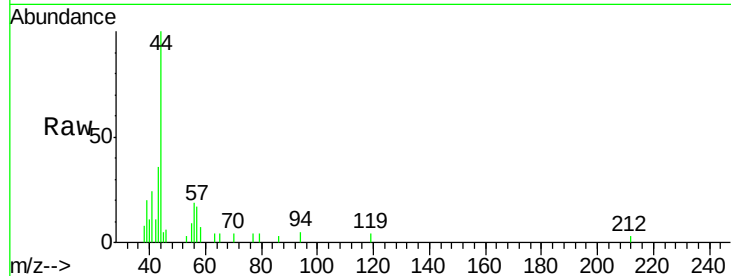




#18
Methvl Acetate
Concen: 4.374 ug/l
RT: 2.36 min Scan# 176
Delta R.T. 0.02 min
Lab File: VF061476.D
Acq: 21 Jan 2019 16:26

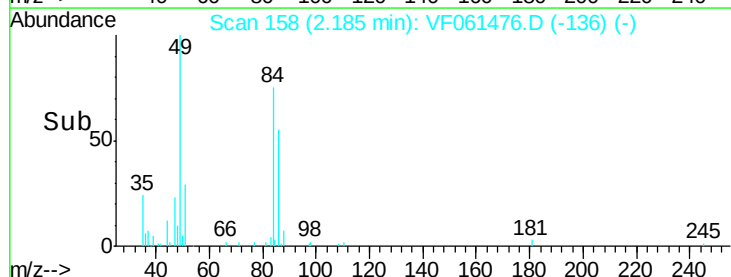
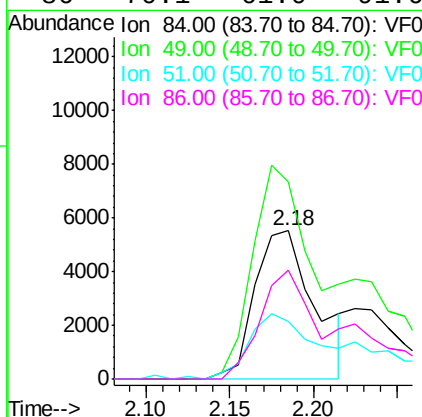
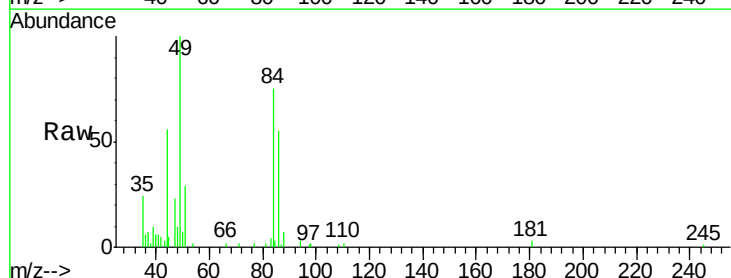
Instrument :
MSVOA_F
ClientSampleId :
RT-1495RE

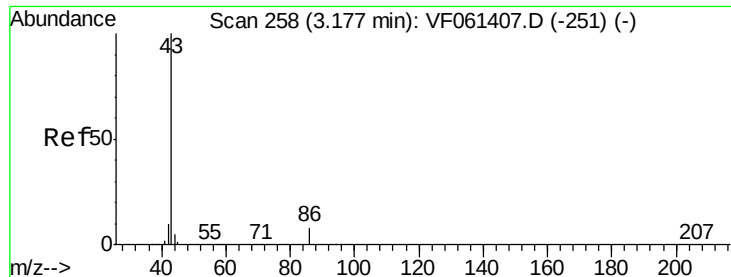
Tot Ion: 43 Resp: 3028
Ion Ratio Lower Upper
43 100
74 0.0 13.4 20.0#



#20
Methylene Chloride
Concen: 10.077 ug/l
RT: 2.18 min Scan# 158
Delta R.T. 0.01 min
Lab File: VF061476.D
Acq: 21 Jan 2019 16:26

Tgt Ion: 84 Resp: 13604
Ion Ratio Lower Upper
84 100
49 127.7 120.0 180.0
51 37.1 38.6 58.0#
86 70.1 61.0 91.6





#23

Vinyl Acetate

Concen: 3.693 ug/l

RT: 3.18 min Scan# 259

Delta R.T. 0.01 min

Lab File: VF061476.D

Acq: 21 Jan 2019 16:26

Instrument :

MSVOA_F

ClientSampled :

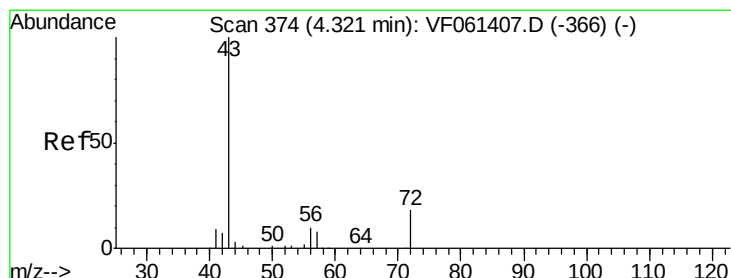
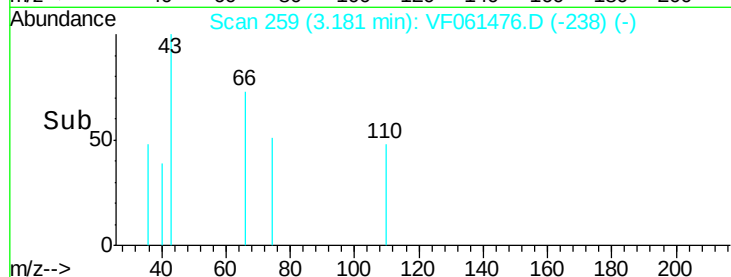
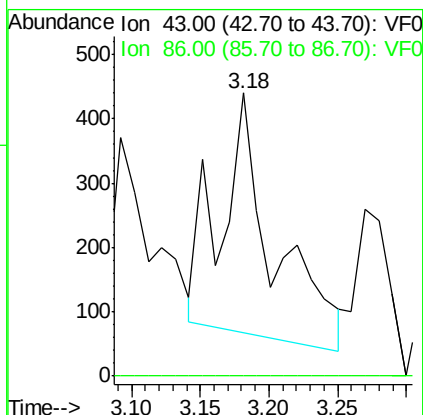
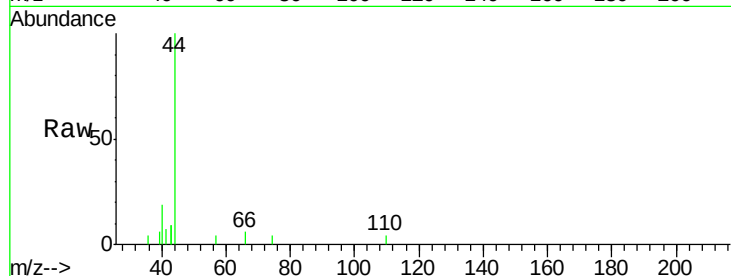
RT-1495RE

Tot Ion: 43 Resp: 993

Ion Ratio Lower Upper

43 100

86 0.0 6.2 9.4#



#25

2-Butanone

Concen: 2.677 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.01 min

Lab File: VF061476.D

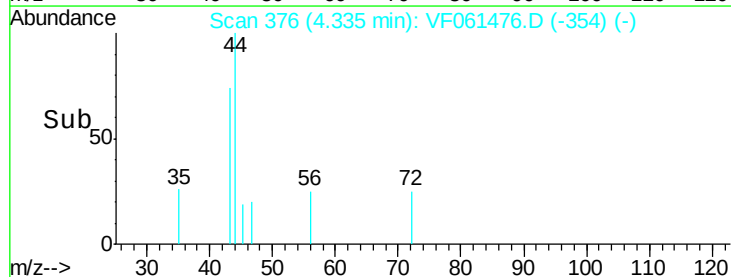
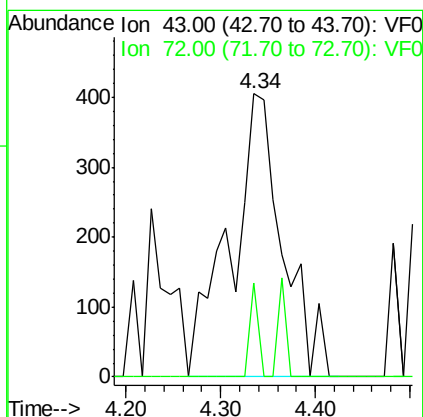
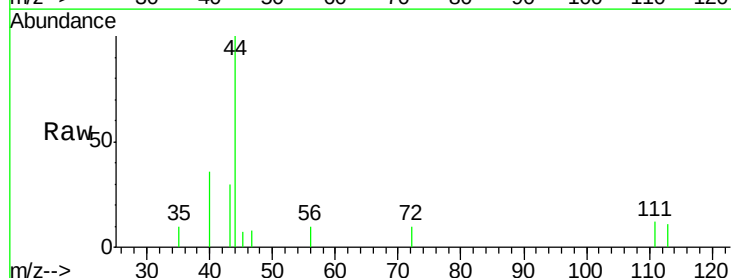
Acq: 21 Jan 2019 16:26

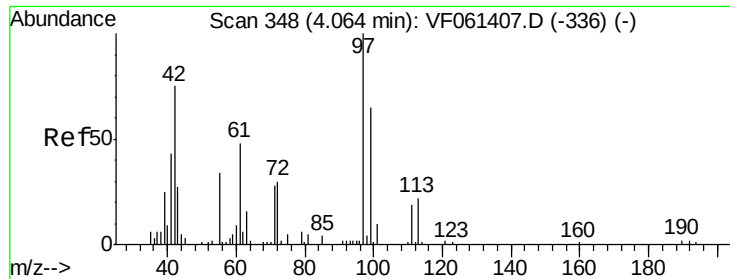
Tgt Ion: 43 Resp: 1554

Ion Ratio Lower Upper

43 100

72 33.1 15.8 23.6#





#29

Tetrahydrofuran

Concen: 1.644 ug/l

RT: 4.07 min Scan# 349

Delta R.T. 0.00 min

Lab File: VF061476.D

Acq: 21 Jan 2019 16:26

Instrument :

MSVOA_F

ClientSampleId :

RT-1495RE

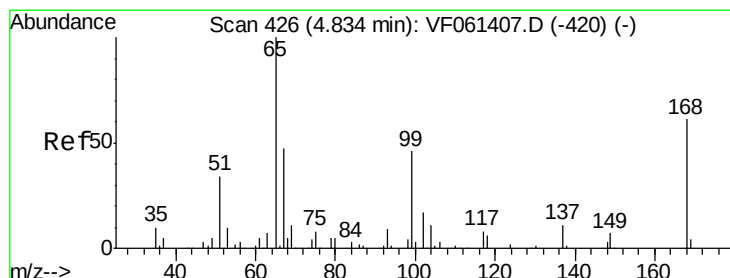
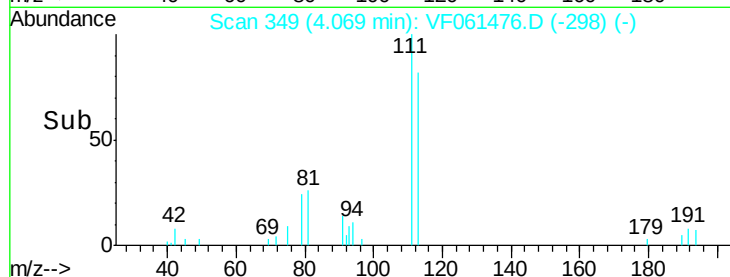
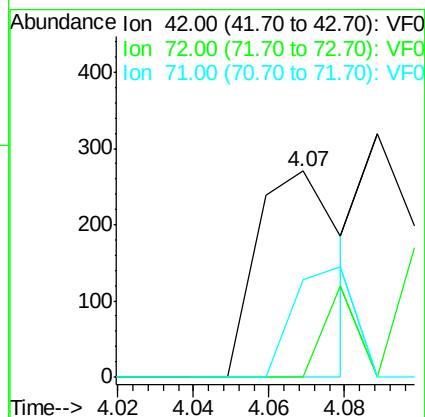
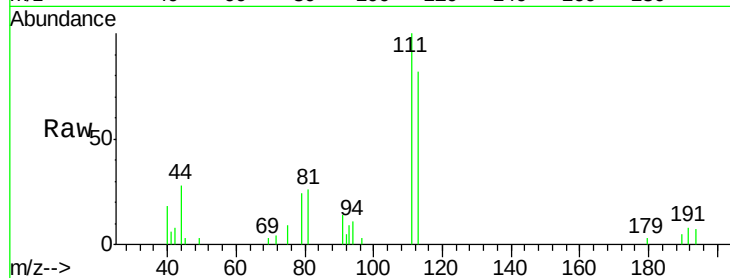
Tot Ion: 42 Resp: 411

Ion Ratio Lower Upper

42 100

72 17.3 28.9 43.3#

71 39.4 29.6 44.4



#33

1,2-Dichloroethane-d4

Concen: 50.616 ug/l

RT: 4.84 min Scan# 427

Delta R.T. 0.00 min

Lab File: VF061476.D

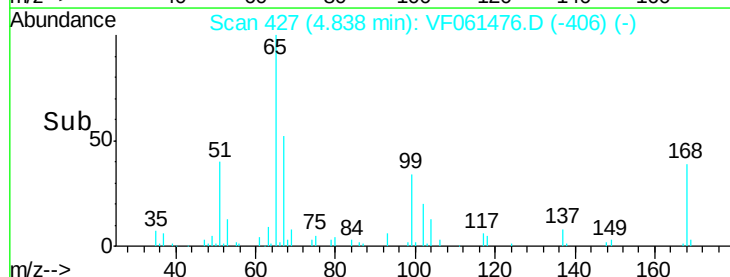
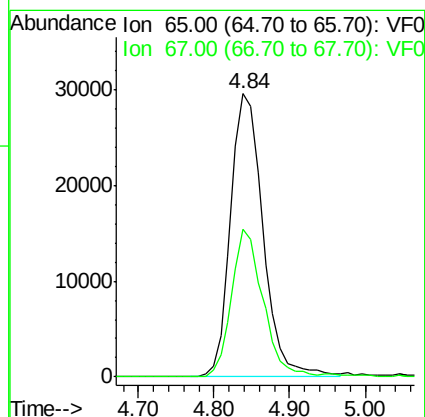
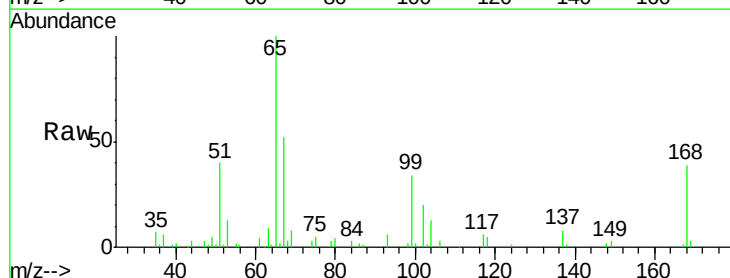
Acq: 21 Jan 2019 16:26

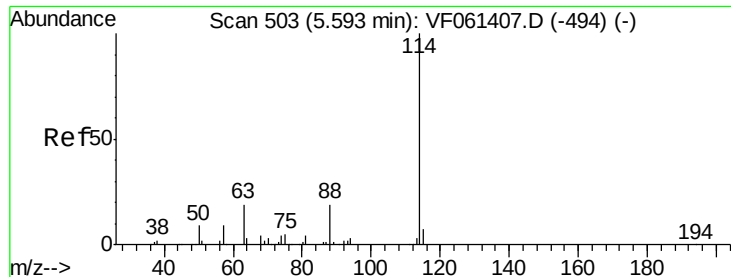
Tgt Ion: 65 Resp: 88081

Ion Ratio Lower Upper

65 100

67 52.1 0.0 99.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. 0.00 min

Lab File: VF061476.D

Acq: 21 Jan 2019 16:26

Instrument :

MSVOA_F

ClientSampleId :

RT-1495RE

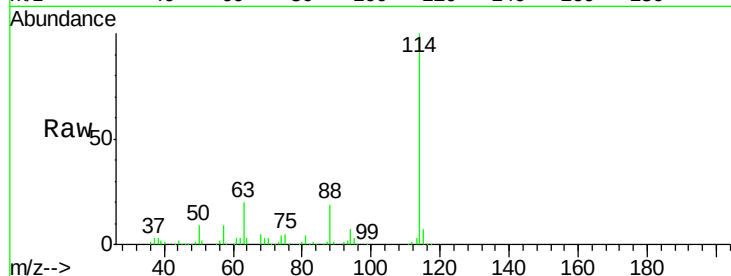
Tot Ion:114 Resp: 252953

Ion Ratio Lower Upper

114 100

63 20.2 0.0 39.0

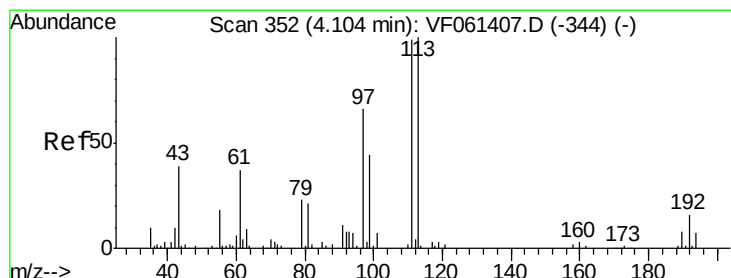
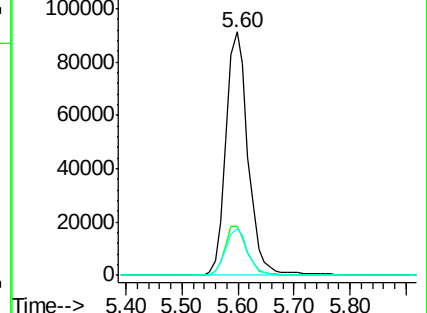
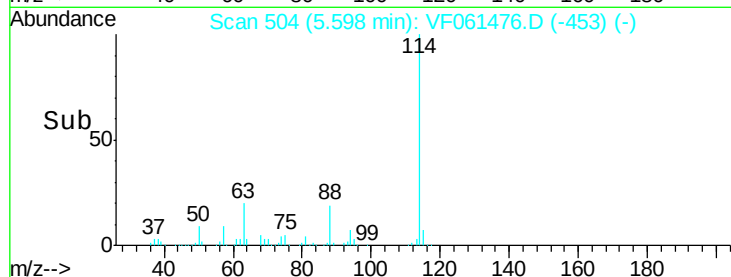
88 19.4 0.0 37.4



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: 52.467 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.00 min

Lab File: VF061476.D

Acq: 21 Jan 2019 16:26

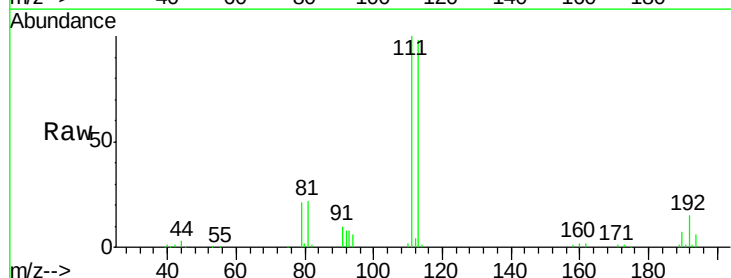
Tgt Ion:113 Resp: 104726

Ion Ratio Lower Upper

113 100

111 102.2 79.4 119.0

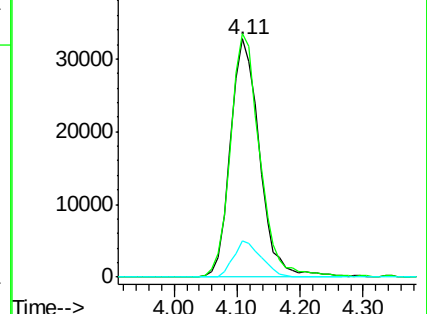
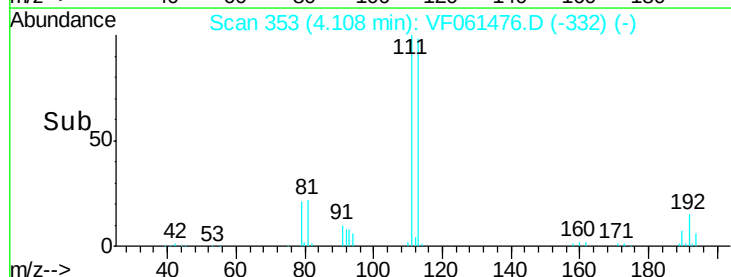
192 15.3 12.4 18.6

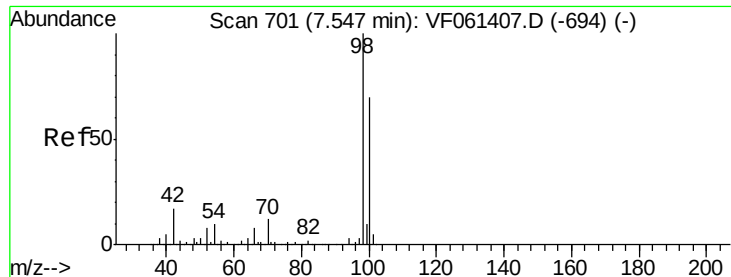


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#50

Toluene-d8

Concen: 41.238 ug/l

RT: 7.55 min Scan# 702

Delta R.T. 0.00 min

Lab File: VF061476.D

Acq: 21 Jan 2019 16:26

Instrument :

MSVOA_F

ClientSampleId :

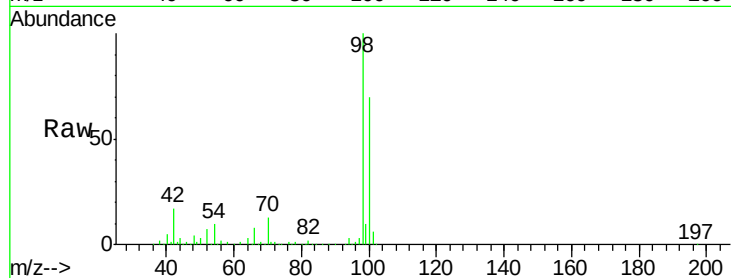
RT-1495RE

Tot Ion: 98 Resp: 225519

Ion Ratio Lower Upper

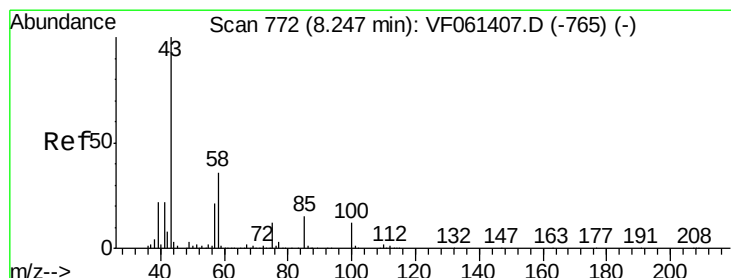
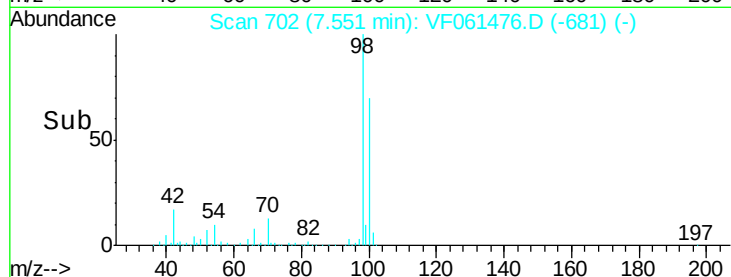
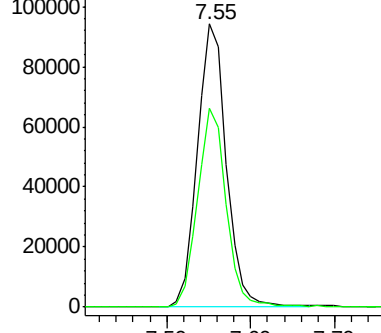
98 100

100 70.4 55.6 83.4



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: 2.042 ug/l

RT: 8.26 min Scan# 774

Delta R.T. 0.01 min

Lab File: VF061476.D

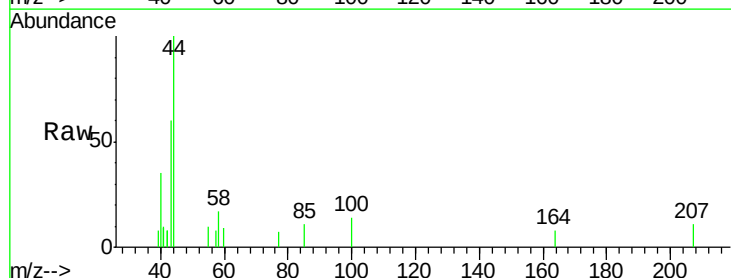
Acq: 21 Jan 2019 16:26

Tgt Ion: 43 Resp: 2209

Ion Ratio Lower Upper

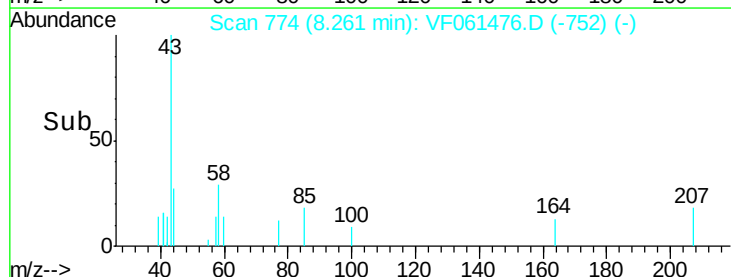
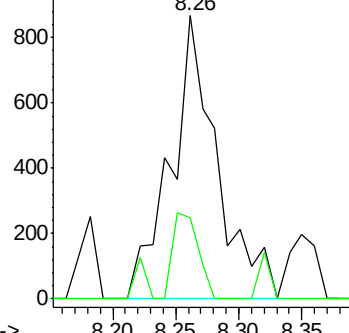
43 100

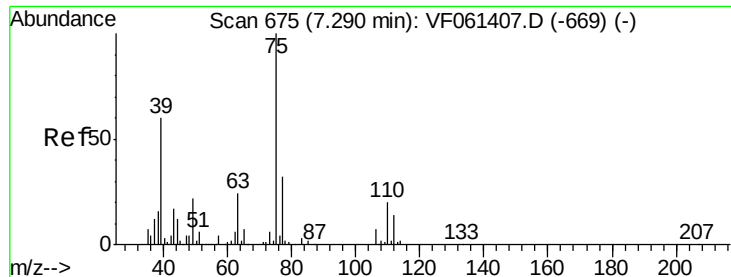
58 28.6 28.8 43.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#58

2-Chloroethyl Vinyl ether

Concen: 27.972 ug/l

RT: 7.31 min Scan# 678

Delta R.T. 0.02 min

Lab File: VF061476.D

Acq: 21 Jan 2019 16:26

Instrument :

MSVOA_F

ClientSampled :

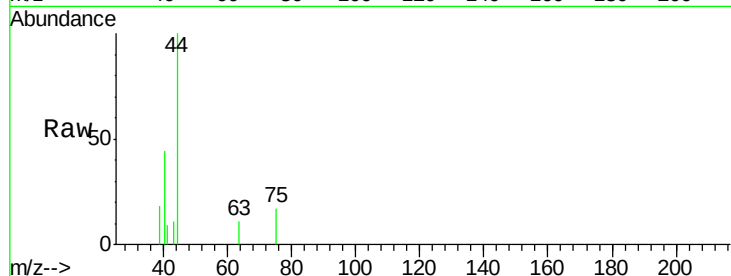
RT-1495RE

Tot Ion: 63 Resp: 76

Ion Ratio Lower Upper

63 100

106 0.0 21.9 32.9#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

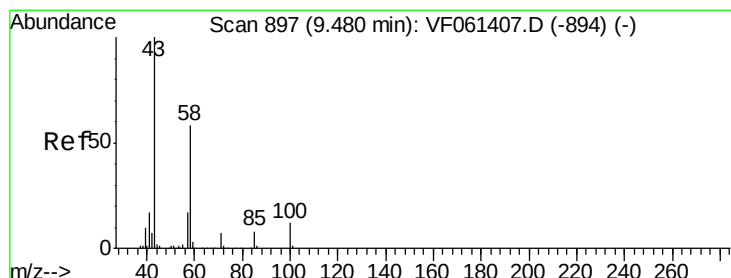
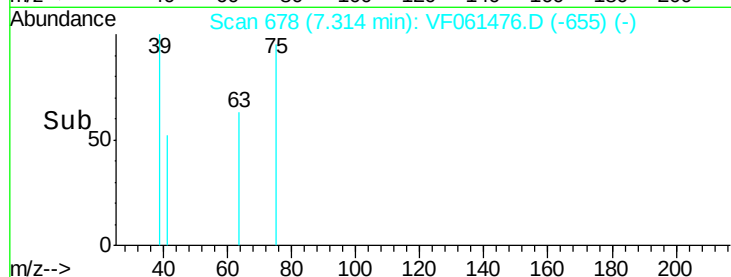
7.31

100

50

0

Time--> 7.28 7.30 7.32 7.34



#59

2-Hexanone

Concen: 2.258 ug/l

RT: 9.49 min Scan# 899

Delta R.T. 0.01 min

Lab File: VF061476.D

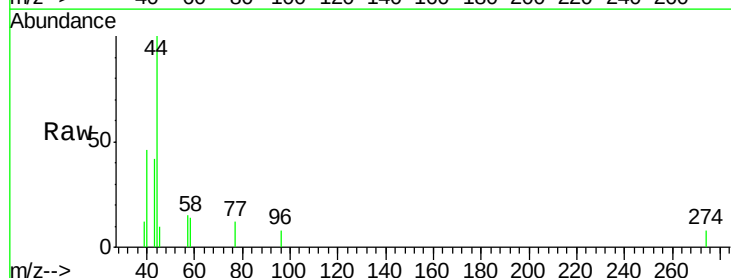
Acq: 21 Jan 2019 16:26

Tgt Ion: 43 Resp: 1703

Ion Ratio Lower Upper

43 100

58 32.2 25.9 77.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.49

600

500

400

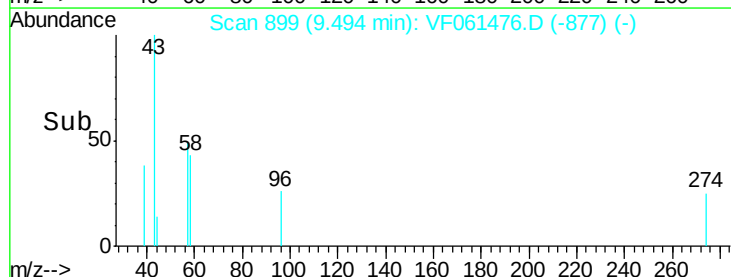
300

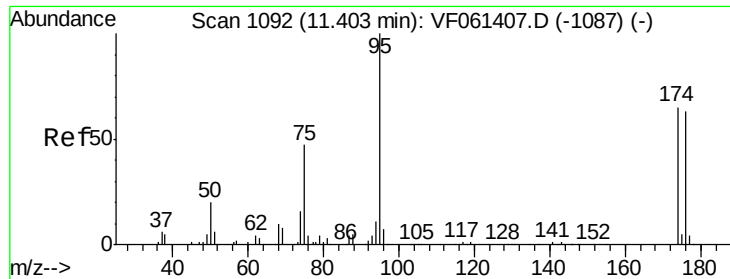
200

100

0

Time--> 9.40 9.50 9.60





#62

4-Bromofluorobenzene

Concen: 37.704 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.00 min

Lab File: VF061476.D

Acq: 21 Jan 2019 16:26

Instrument :

MSVOA_F

ClientSampleId :

RT-1495RE

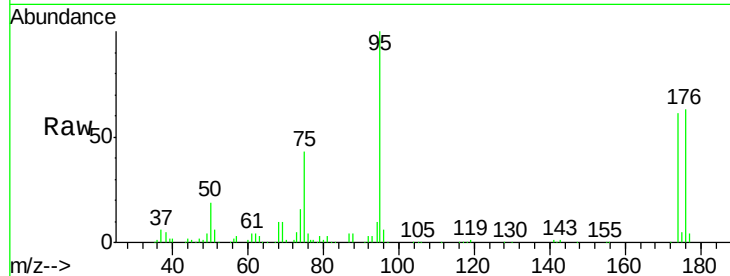
Tot Ion: 95 Resp: 96339

Ion Ratio Lower Upper

95 100

174 61.0 0.0 130.4

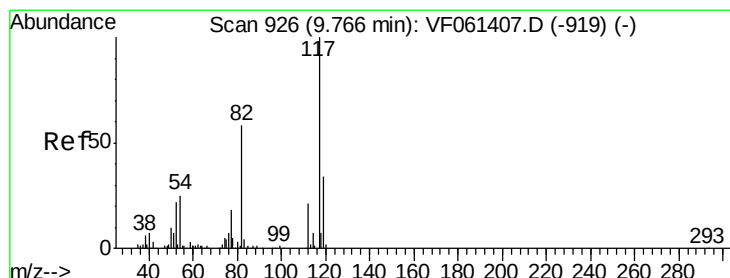
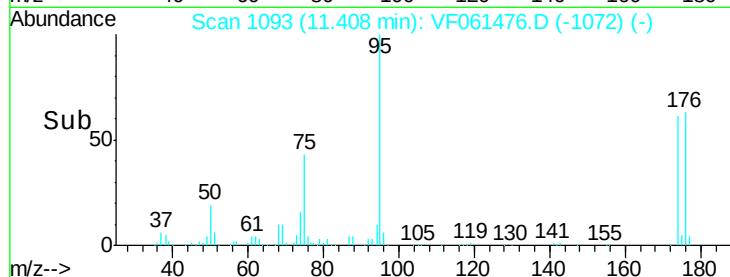
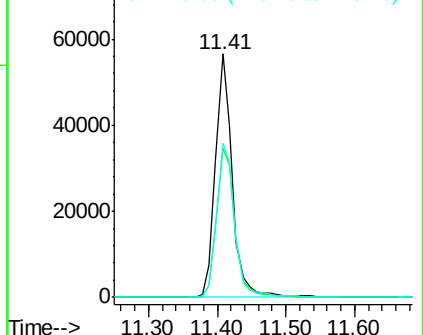
176 63.2 0.0 126.2



Abundance Ion 95.00 (94.70 to 95.70): VF061407.D (-1087) (-)

Ion 174.00 (173.70 to 174.70): VF061407.D (-1087) (-)

Ion 176.00 (175.70 to 176.70): VF061407.D (-1087) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 927

Delta R.T. 0.00 min

Lab File: VF061476.D

Acq: 21 Jan 2019 16:26

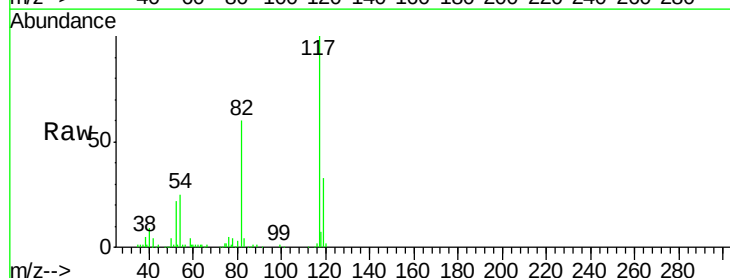
Tgt Ion: 117 Resp: 204591

Ion Ratio Lower Upper

117 100

82 60.0 46.4 69.6

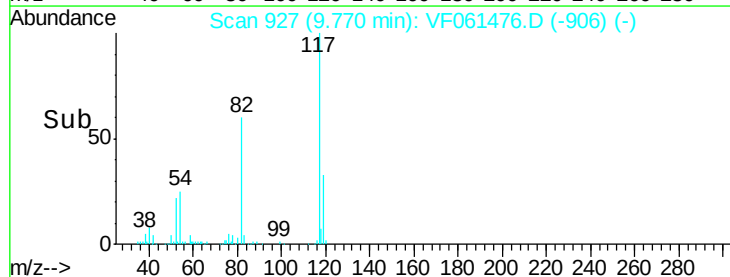
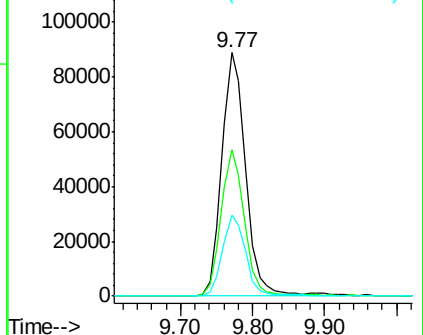
119 33.2 27.2 40.8

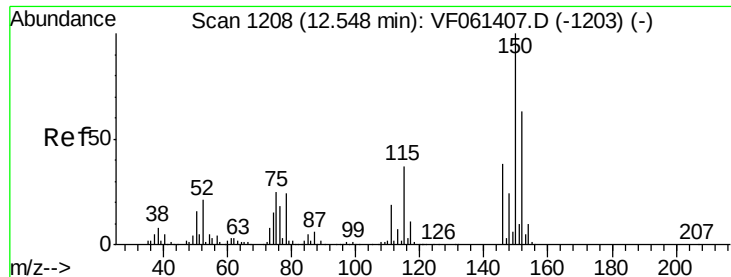


Abundance Ion 117.00 (116.70 to 117.70): VF061407.D (-919) (-)

Ion 82.00 (81.70 to 82.70): VF061407.D (-919) (-)

Ion 119.00 (118.70 to 119.70): VF061407.D (-919) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. 0.00 min

Lab File: VF061476.D

Acq: 21 Jan 2019 16:26

Instrument :

MSVOA_F

ClientSampled :

RT-1495RE

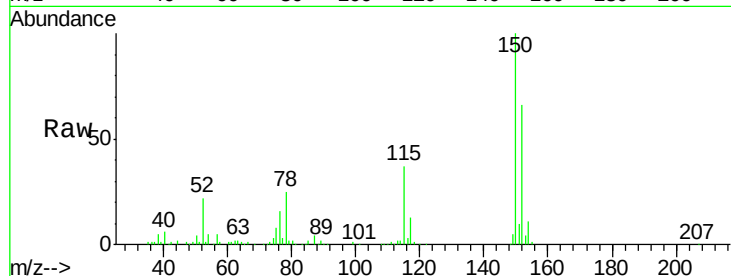
Tot Ion:152 Resp: 82589

Ion Ratio Lower Upper

152 100

115 56.5 30.0 90.0

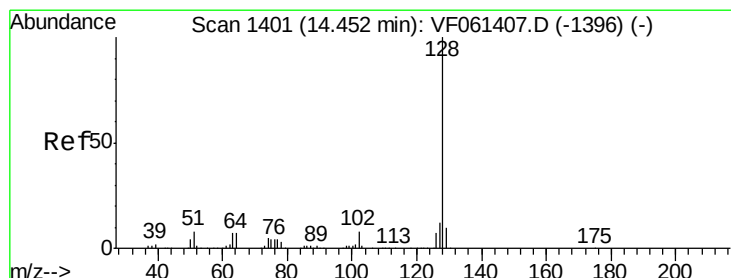
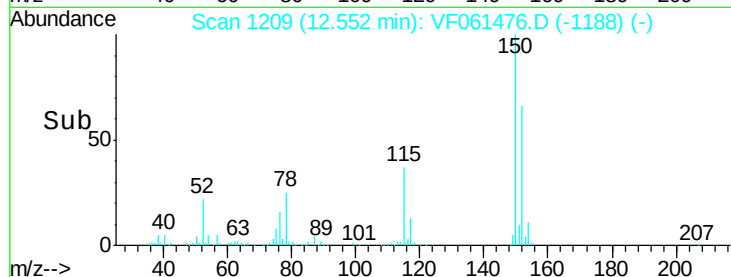
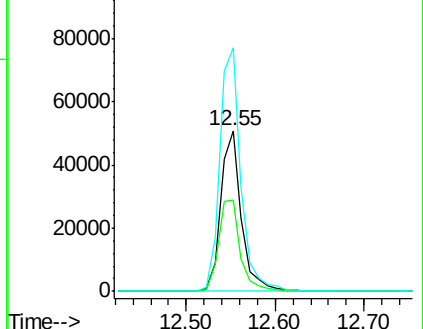
150 151.4 0.0 321.4



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



#95

Naphthalene

Concen: 1.469 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. 0.00 min

Lab File: VF061476.D

Acq: 21 Jan 2019 16:26

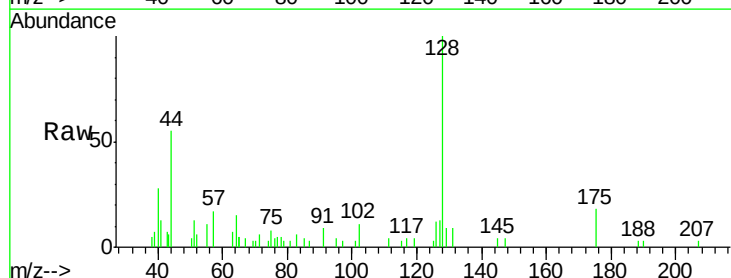
Tgt Ion:128 Resp: 5187

Ion Ratio Lower Upper

128 100

127 12.8 9.5 14.3

129 8.7 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

