

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF021119\
 Data File : VF061596.D
 Acq On : 11 Feb 2019 20:03
 Operator : VA/AP
 Sample : K1458-04RE
 Misc : 5.05g/5mL/MSVOA-F/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Feb 12 03:28:36 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	4.85	168	140021	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.58	114	229868	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.76	117	145643	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.54	152	33912	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.82	65	96337	55.73	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	111.46%	
35) Dibromofluoromethane	4.09	113	98343	54.22	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	108.44%	
50) Toluene-d8	7.54	98	192363	38.71	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	77.42%	
62) 4-Bromofluorobenzene	11.39	95	49387	21.27	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	42.54%	

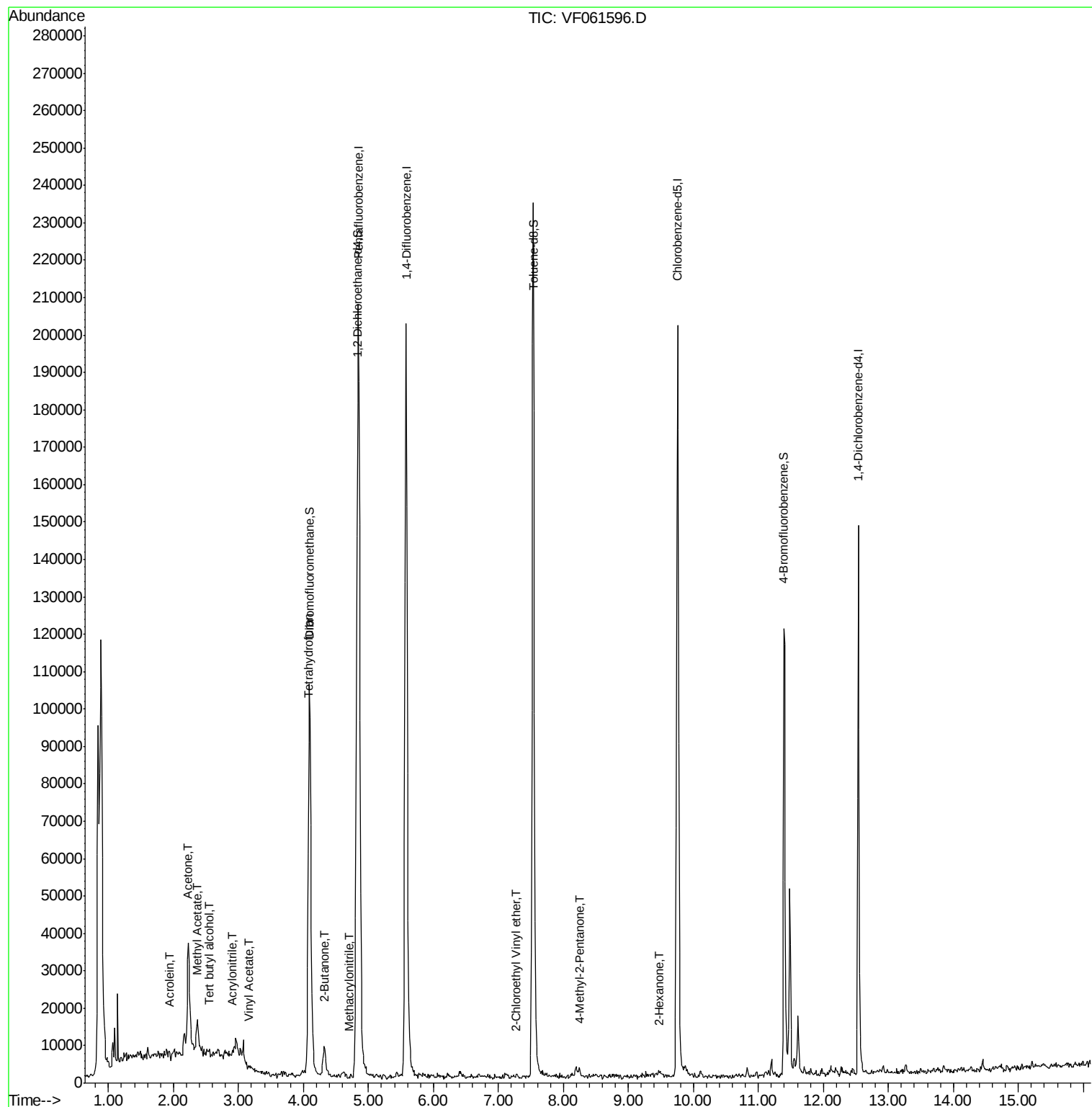
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.55	59	354	4.838	ug/l #	64
13) Acrolein	1.94	56	328	15.326	ug/l	95
14) Allyl chloride	2.09	41	616	Below Cal	#	52
15) Acrylonitrile	2.90	53	988	5.271	ug/l #	14
16) Acetone	2.23	43	45877	132.285	ug/l	97
18) Methyl Acetate	2.38	43	3836	5.577	ug/l #	61
23) Vinyl Acetate	3.16	43	457	3.425	ug/l #	78
25) 2-Butanone	4.32	43	17149	29.735	ug/l	94
29) Tetrahydrofuran	4.07	42	871	3.507	ug/l #	38
41) Methacrylonitrile	4.70	41	609	1.074	ug/l #	52
51) 4-Methyl-2-Pentanone	8.25	43	2289	2.329	ug/l	89
58) 2-Chloroethyl Vinyl ether	7.26	63	68	27.965	ug/l #	47
59) 2-Hexanone	9.47	43	1915	2.794	ug/l #	26

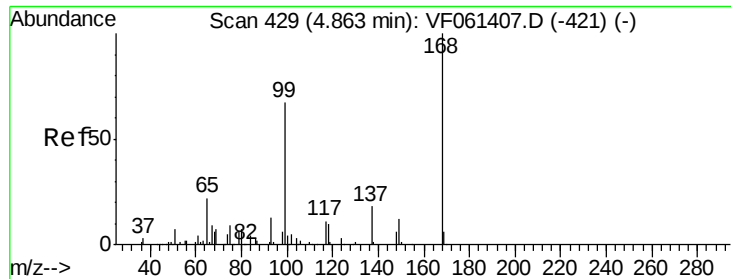
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 4.85 min Scan# 428

Delta R.T. -0.01 min

Lab File: VF061596.D

Acq: 11 Feb 2019 20:03

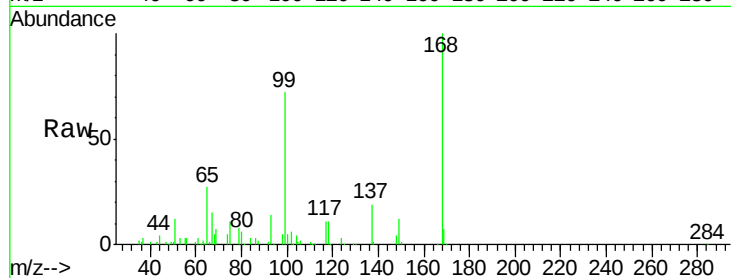
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 140021

Ion Ratio Lower Upper

168 100

99 71.6 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

50000

40000

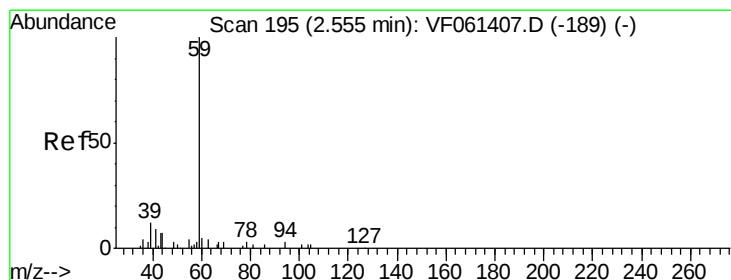
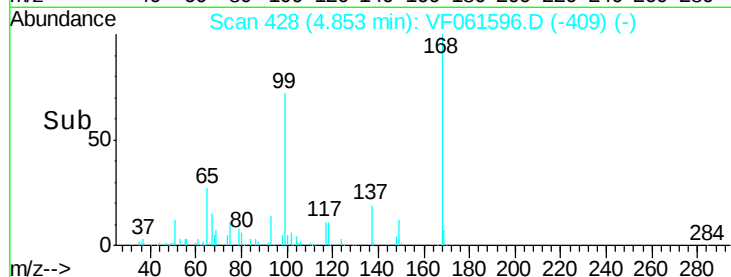
30000

20000

10000

0

Time-->



#11

Tert butyl alcohol

Concen: 4.838 ug/l

RT: 2.55 min Scan# 195

Delta R.T. -0.00 min

Lab File: VF061596.D

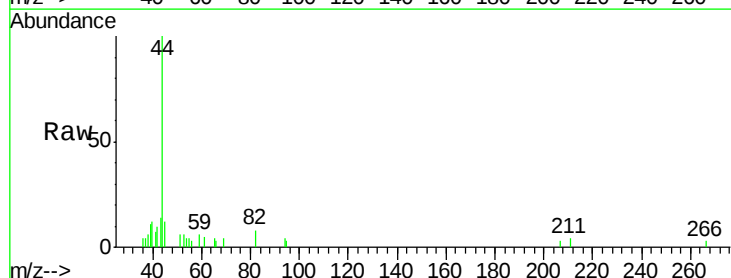
Acq: 11 Feb 2019 20:03

Tgt Ion: 59 Resp: 354

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

2.55

250

200

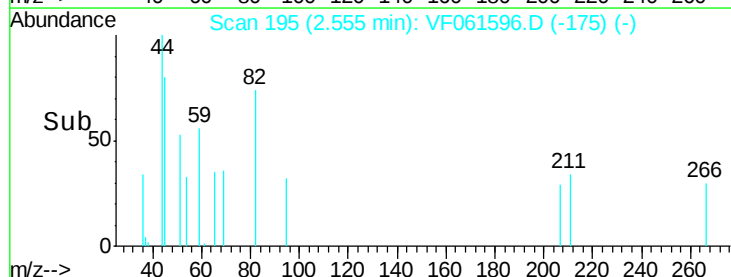
150

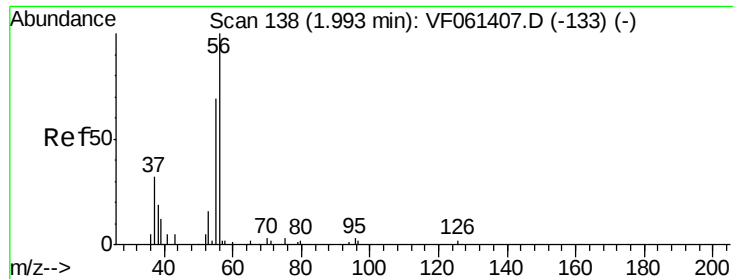
100

50

0

Time-->





#13

Acrolein

Concen: 15.326 ug/l

RT: 1.94 min Scan# 133

Delta R.T. -0.05 min

Lab File: VF061596.D

Acq: 11 Feb 2019 20:03

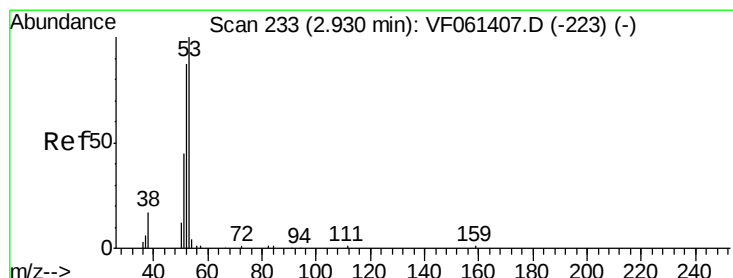
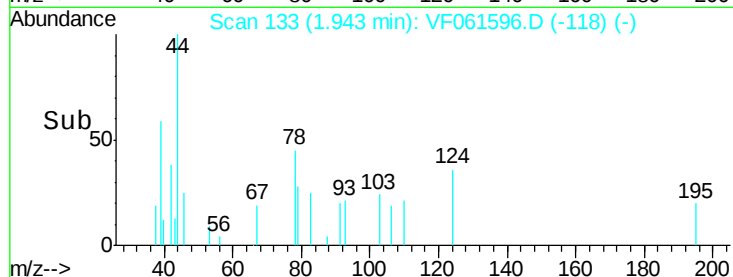
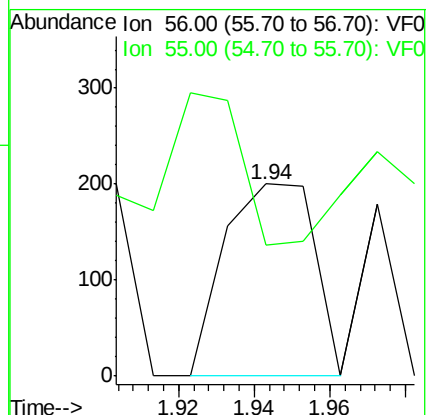
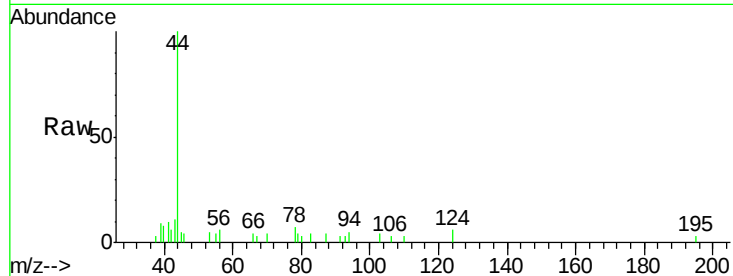
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 328

Ion Ratio Lower Upper

56 100

55 68.0 57.5 86.3



#15

Acrylonitrile

Concen: 5.271 ug/l

RT: 2.90 min Scan# 230

Delta R.T. -0.03 min

Lab File: VF061596.D

Acq: 11 Feb 2019 20:03

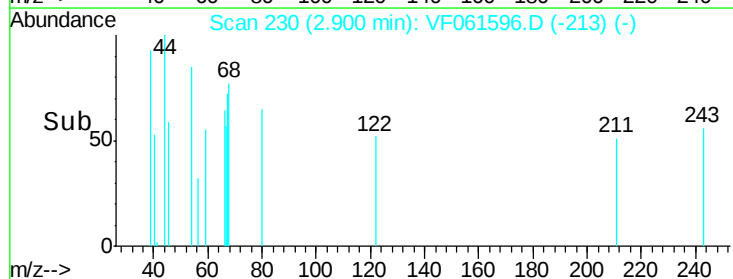
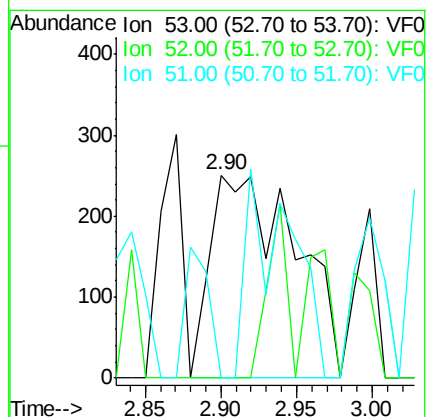
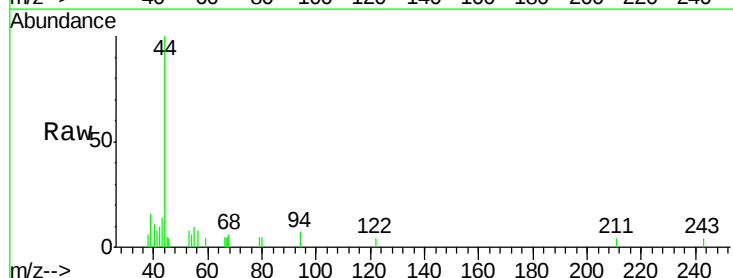
Tgt Ion: 53 Resp: 988

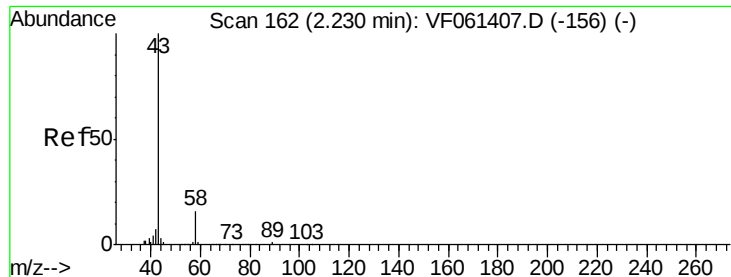
Ion Ratio Lower Upper

53 100

52 0.0 69.6 104.4#

51 0.0 36.8 55.2#

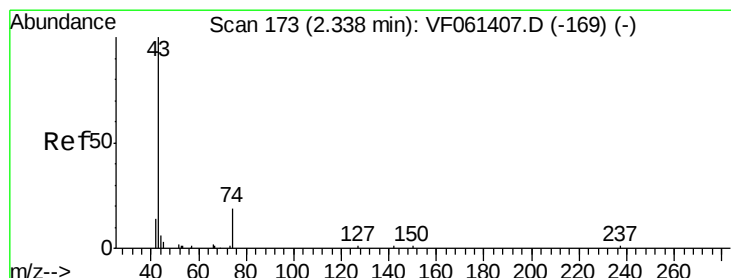
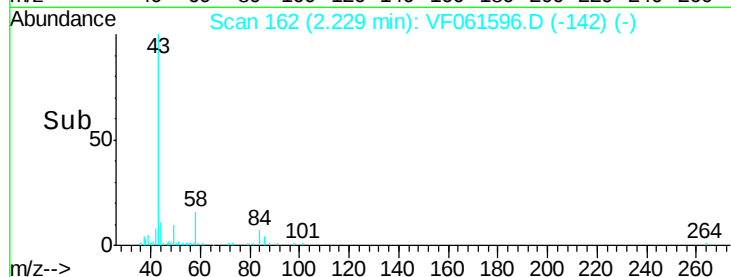
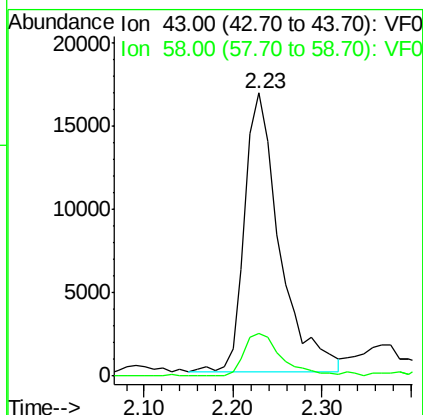
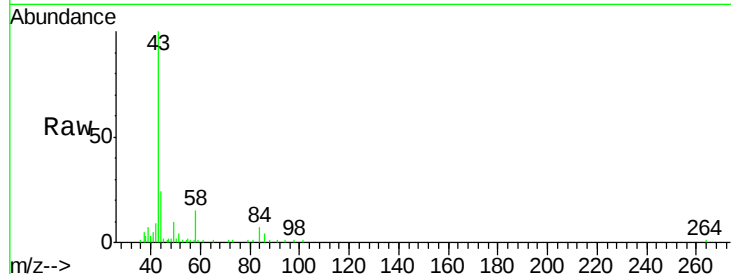




#16
Acetone
Concen: 132.285 ug/l
RT: 2.23 min Scan# 162
Delta R.T. -0.00 min
Lab File: VF061596.D
Acq: 11 Feb 2019 20:03

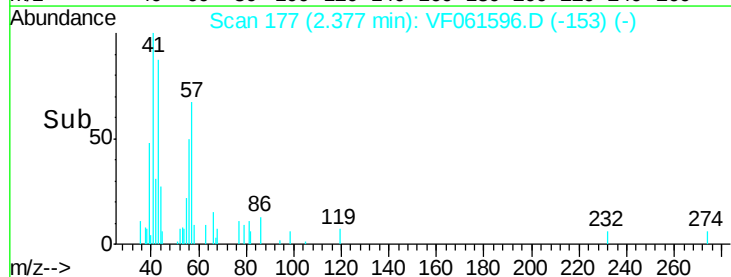
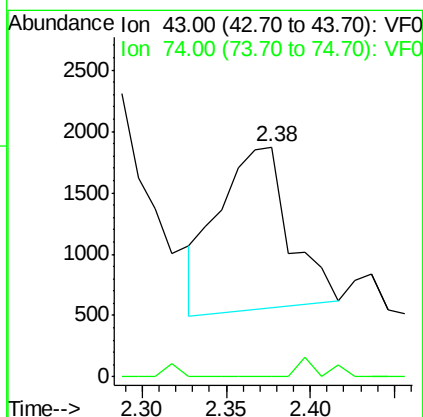
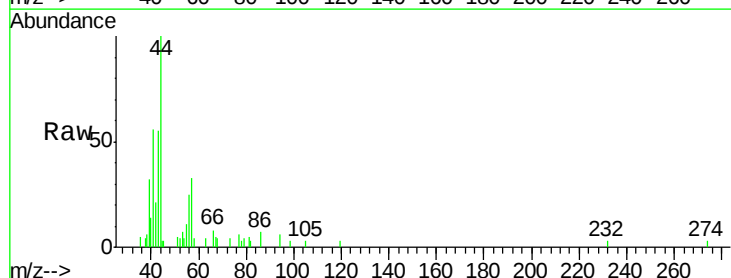
Instrument :
MSVOA_F
ClientSampleId :

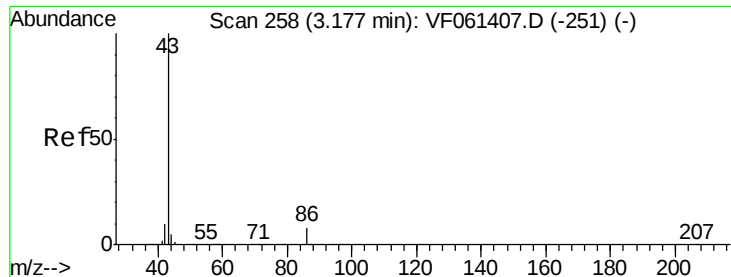
Tot Ion: 43 Resp: 45877
Ion Ratio Lower Upper
43 100
58 15.2 13.3 19.9



#18
Methyl Acetate
Concen: 5.577 ug/l
RT: 2.38 min Scan# 177
Delta R.T. 0.04 min
Lab File: VF061596.D
Acq: 11 Feb 2019 20:03

Tgt Ion: 43 Resp: 3836
Ion Ratio Lower Upper
43 100
74 0.0 13.4 20.0#





#23

Vinyl Acetate

Concen: 3.425 ug/l

RT: 3.16 min Scan# 256

Delta R.T. -0.02 min

Lab File: VF061596.D

Acq: 11 Feb 2019 20:03

Instrument :

MSVOA_F

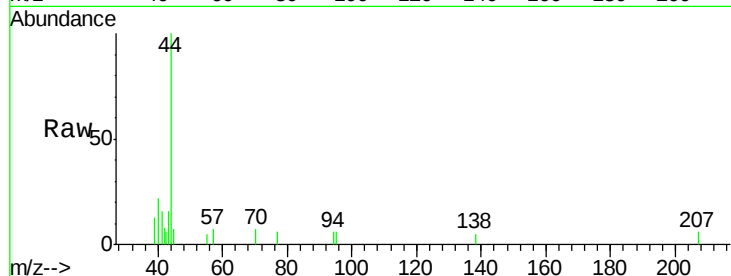
ClientSampleId :

Tot Ion: 43 Resp: 457

Ion Ratio Lower Upper

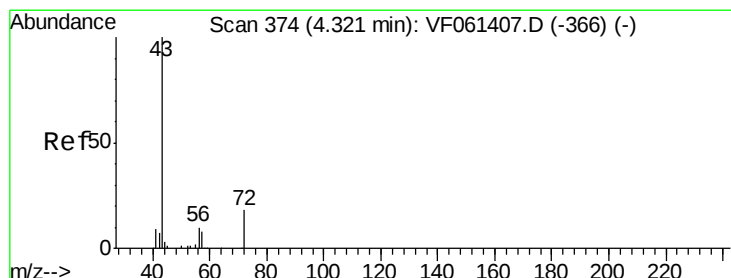
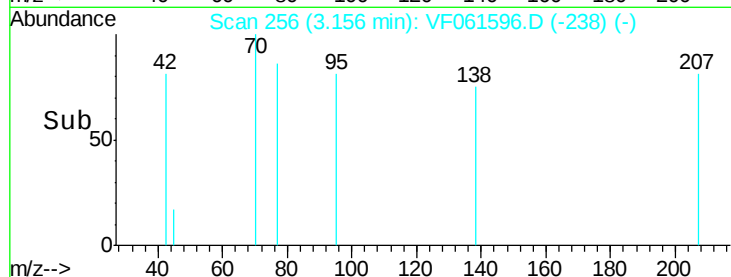
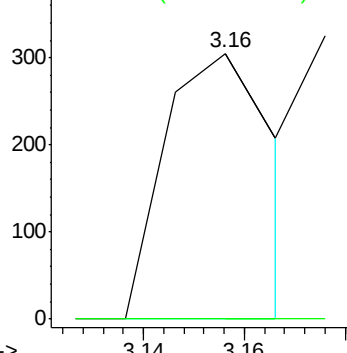
43 100

86 0.0 6.2 9.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#25

2-Butanone

Concen: 29.735 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.00 min

Lab File: VF061596.D

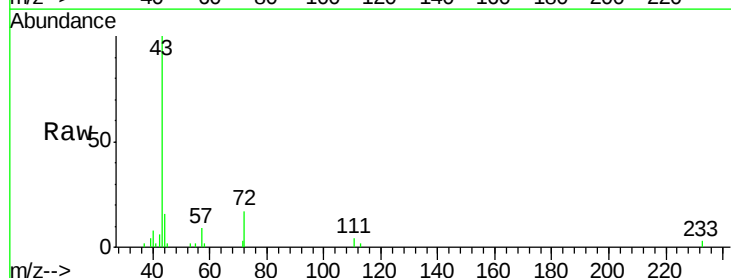
Acq: 11 Feb 2019 20:03

Tgt Ion: 43 Resp: 17149

Ion Ratio Lower Upper

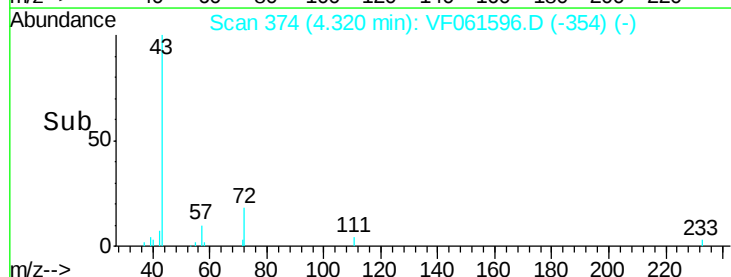
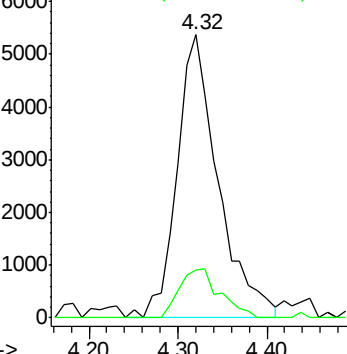
43 100

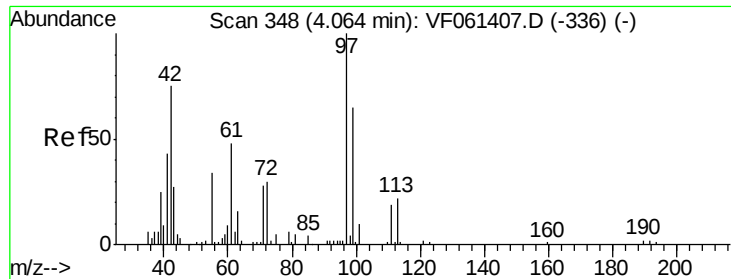
72 16.9 15.8 23.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 3.507 ug/l

RT: 4.07 min Scan# 349

Delta R.T. 0.01 min

Lab File: VF061596.D

Acq: 11 Feb 2019 20:03

Instrument :
MSVOA_F
ClientSampleId :

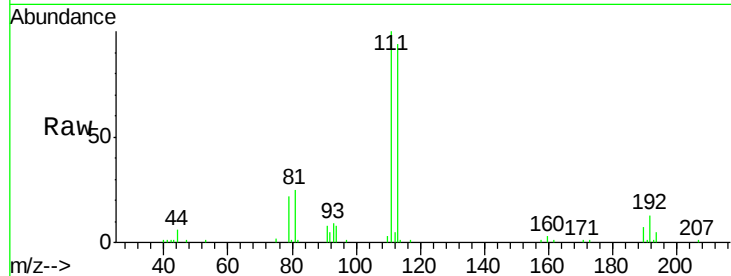
Tot Ion: 42 Resp: 871

Ion Ratio Lower Upper

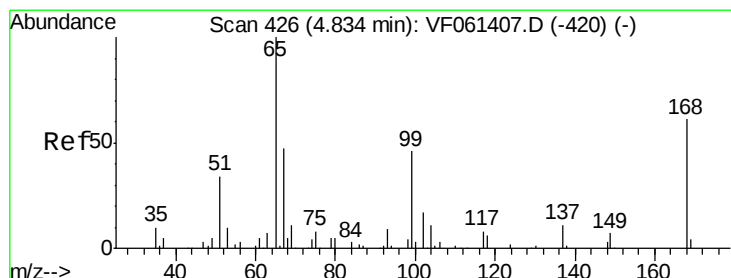
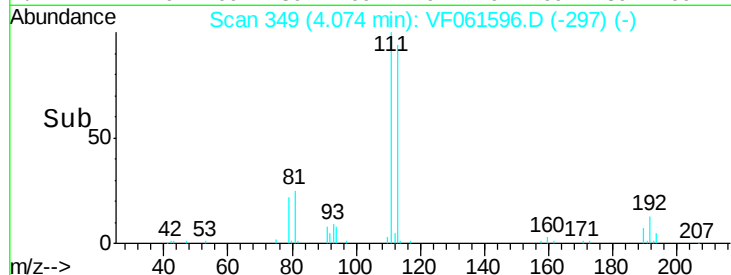
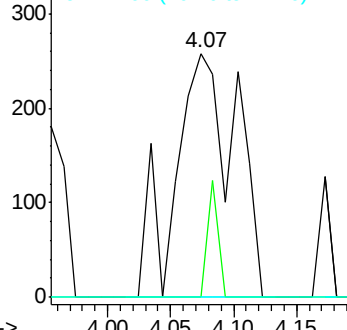
42 100

72 0.0 28.9 43.3#

71 0.0 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



#33

1,2-Dichloroethane-d4

Concen: 55.727 ug/l

RT: 4.82 min Scan# 425

Delta R.T. -0.01 min

Lab File: VF061596.D

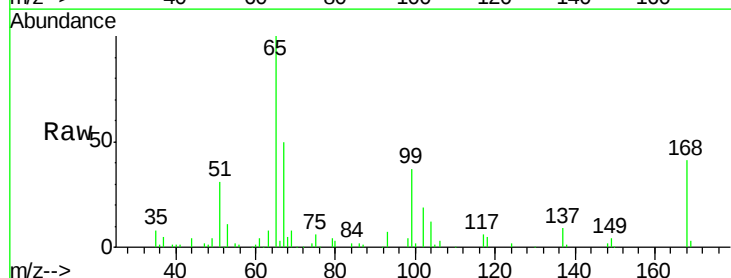
Acq: 11 Feb 2019 20:03

Tgt Ion: 65 Resp: 96337

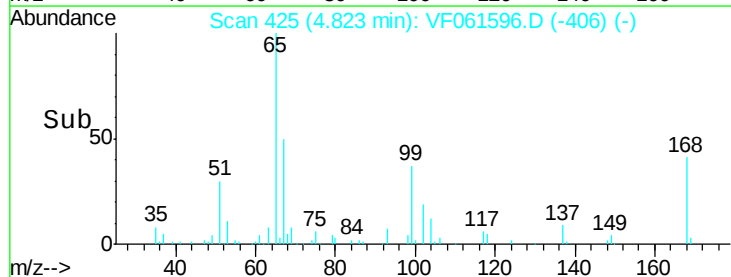
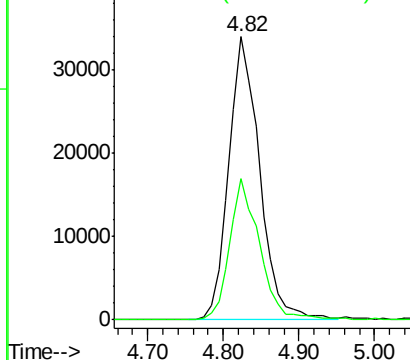
Ion Ratio Lower Upper

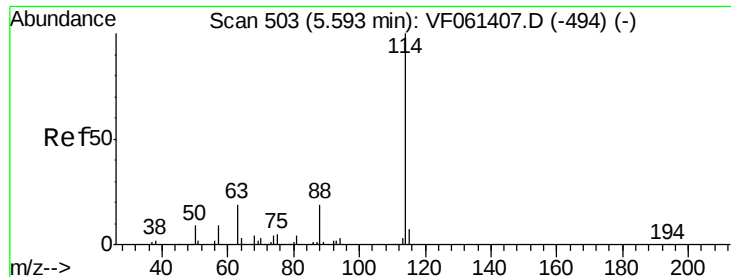
65 100

67 49.8 0.0 99.8



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: VF061596.D

Acq: 11 Feb 2019 20:03

Instrument :

MSVOA_F

ClientSampleId :

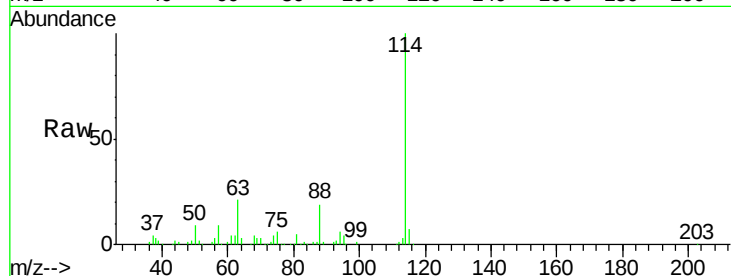
Tot Ion:114 Resp: 229868

Ion Ratio Lower Upper

114 100

63 21.5 0.0 39.0

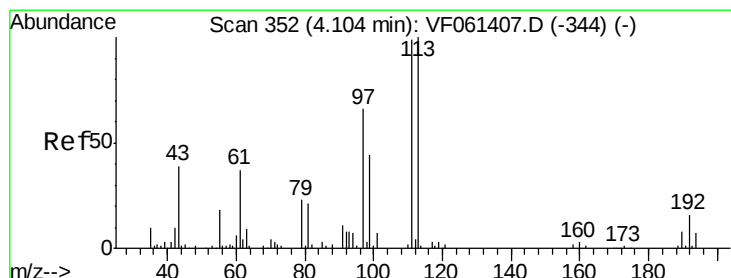
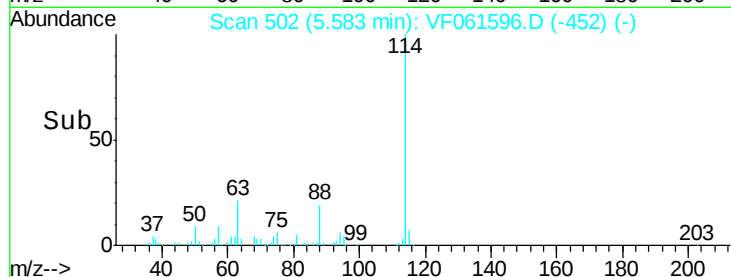
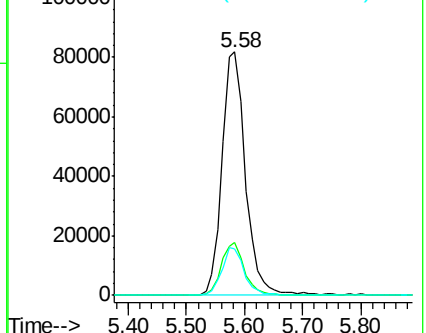
88 19.3 0.0 37.4



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: 54.218 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.01 min

Lab File: VF061596.D

Acq: 11 Feb 2019 20:03

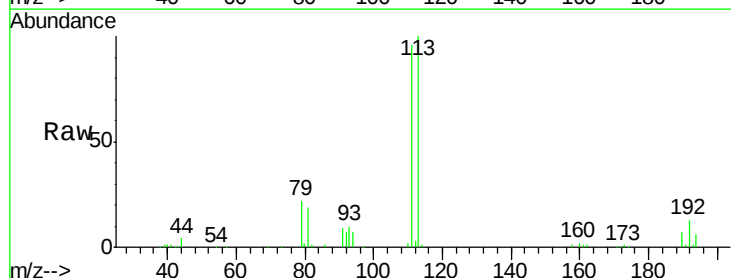
Tgt Ion:113 Resp: 98343

Ion Ratio Lower Upper

113 100

111 95.7 79.4 119.0

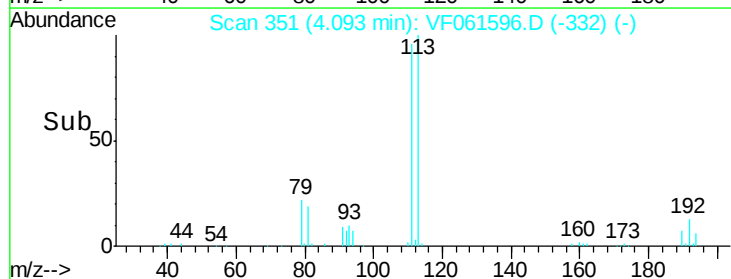
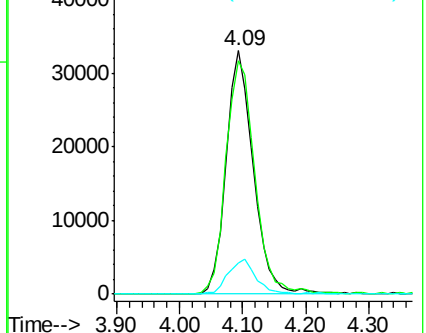
192 12.9 12.4 18.6

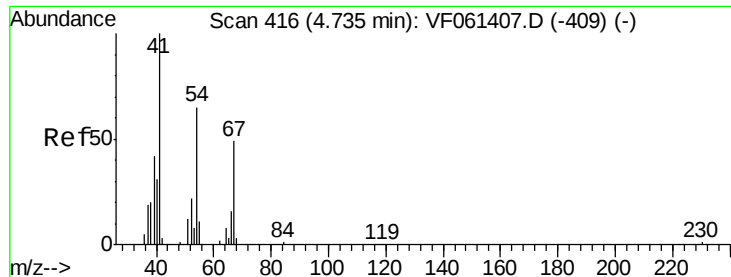


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

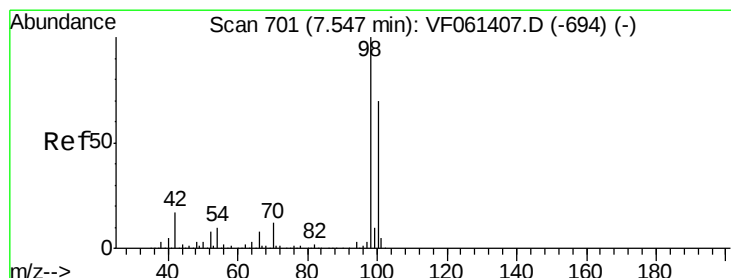
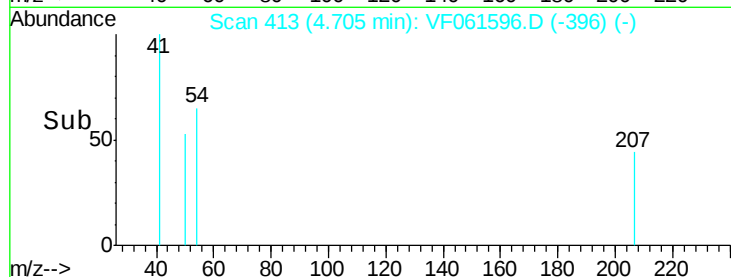
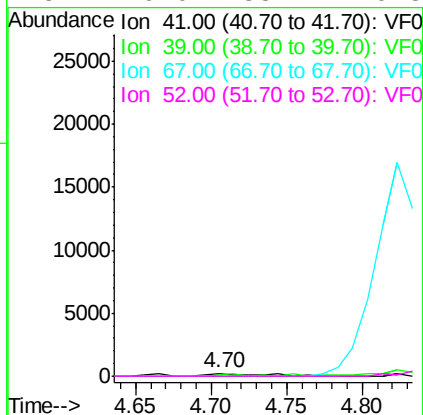
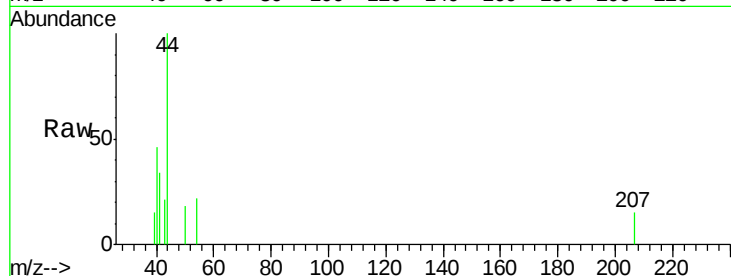




#41
Methacrylonitrile
Concen: 1.074 ug/l
RT: 4.70 min Scan# 413
Delta R.T. -0.03 min
Lab File: VF061596.D
Acq: 11 Feb 2019 20:03

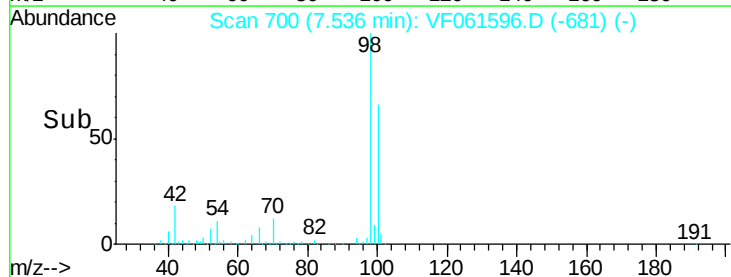
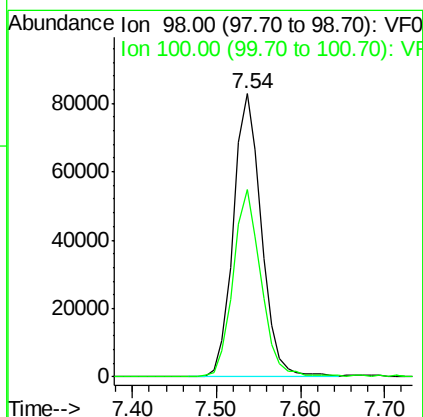
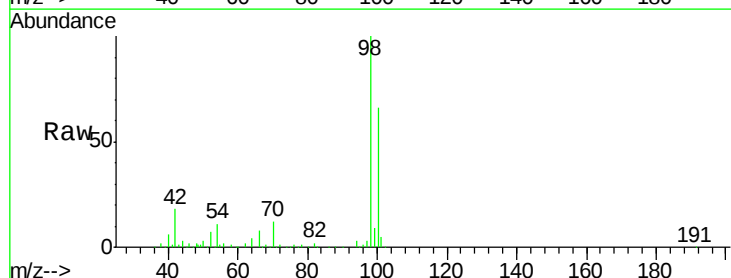
Instrument :
MSVOA_F
ClientSampleId :

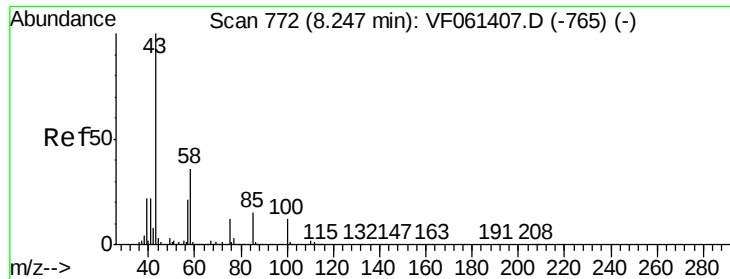
Tot Ion: 41 Resp: 609
Ion Ratio Lower Upper
41 100
39 44.2 43.1 64.7
67 0.0 38.8 58.2#
52 0.0 33.2 49.8#



#50
Toluene-d8
Concen: 38.708 ug/l
RT: 7.54 min Scan# 700
Delta R.T. -0.01 min
Lab File: VF061596.D
Acq: 11 Feb 2019 20:03

Tgt Ion: 98 Resp: 192363
Ion Ratio Lower Upper
98 100
100 66.4 55.6 83.4





#51

4-Methyl-2-Pentanone

Concen: 2.329 ug/l

RT: 8.25 min Scan# 772

Delta R.T. -0.00 min

Lab File: VF061596.D

Acq: 11 Feb 2019 20:03

Instrument :

MSVOA_F

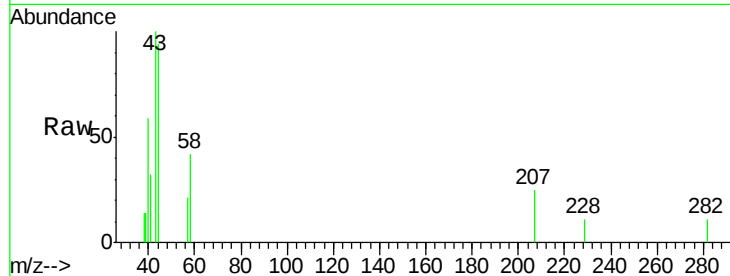
ClientSampleId :

Tot Ion: 43 Resp: 2289

Ion Ratio Lower Upper

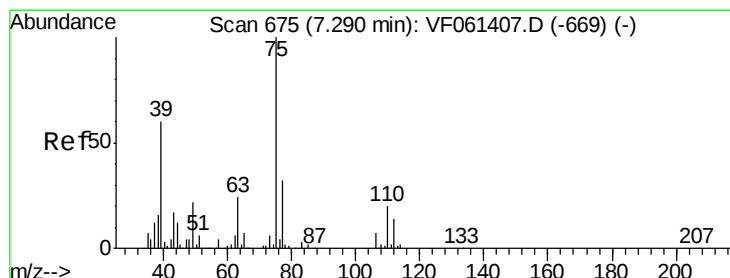
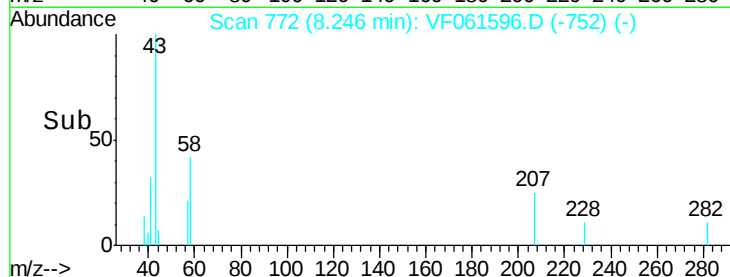
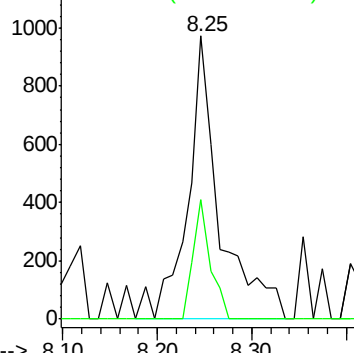
43 100

58 42.4 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: 27.965 ug/l

RT: 7.26 min Scan# 672

Delta R.T. -0.03 min

Lab File: VF061596.D

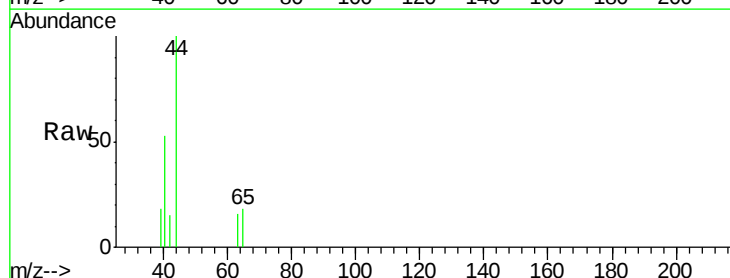
Acq: 11 Feb 2019 20:03

Tgt Ion: 63 Resp: 68

Ion Ratio Lower Upper

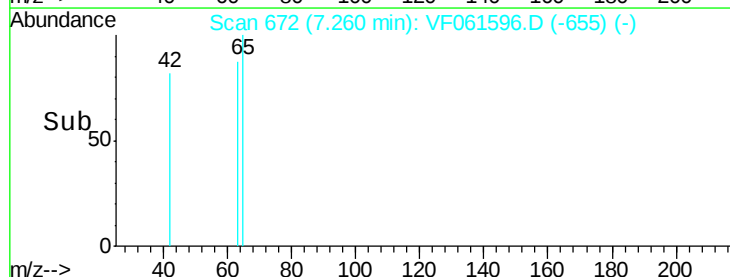
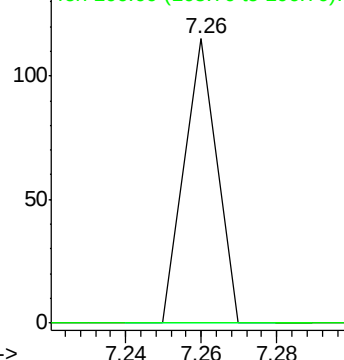
63 100

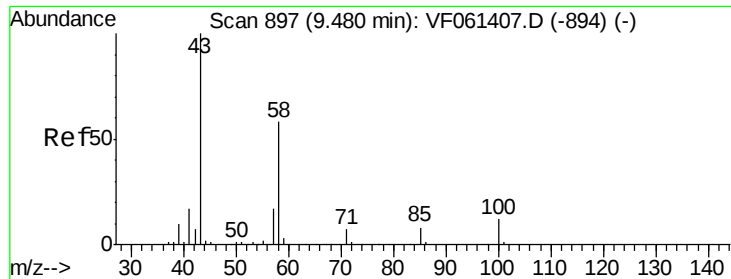
106 0.0 21.9 32.9#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V





#59

2-Hexanone

Concen: 2.794 ug/l

RT: 9.47 min Scan# 896

Delta R.T. -0.01 min

Lab File: VF061596.D

Acq: 11 Feb 2019 20:03

Instrument :

MSVOA_F

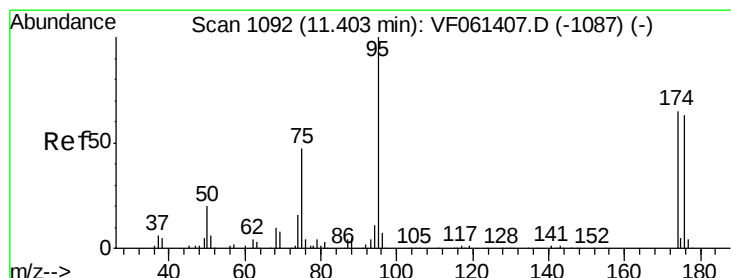
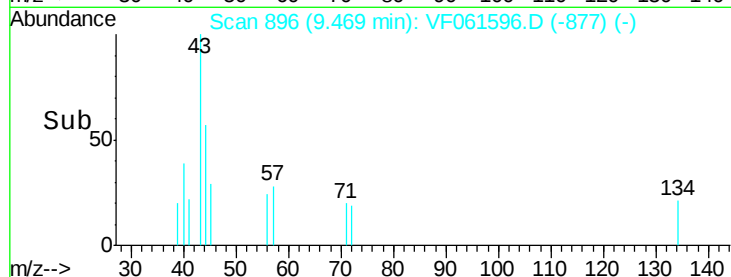
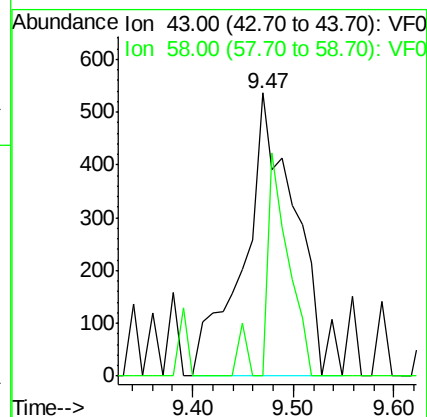
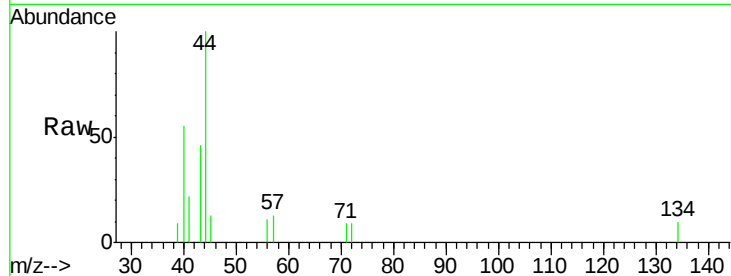
ClientSampleId :

Tot Ion: 43 Resp: 1915

Ion Ratio Lower Upper

43 100

58 0.0 25.9 77.6#



#62

4-Bromofluorobenzene

Concen: 21.270 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. -0.01 min

Lab File: VF061596.D

Acq: 11 Feb 2019 20:03

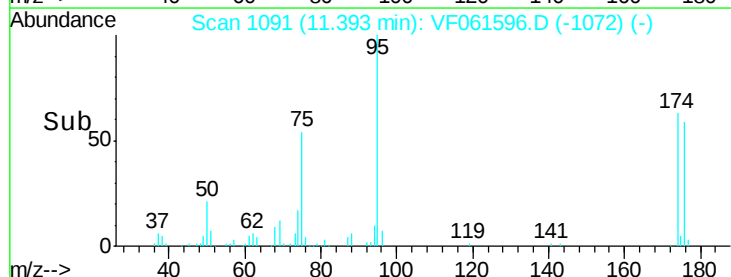
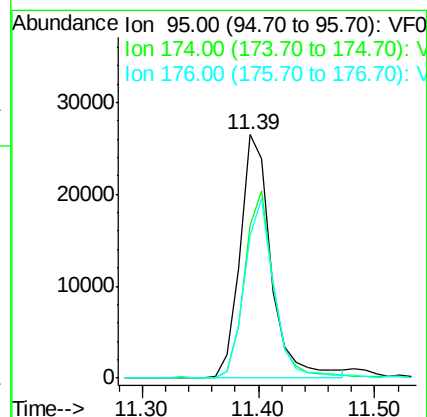
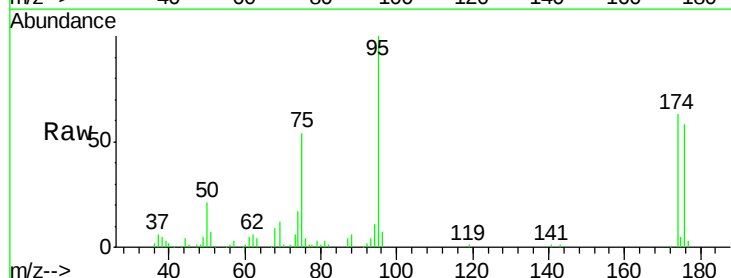
Tgt Ion: 95 Resp: 49387

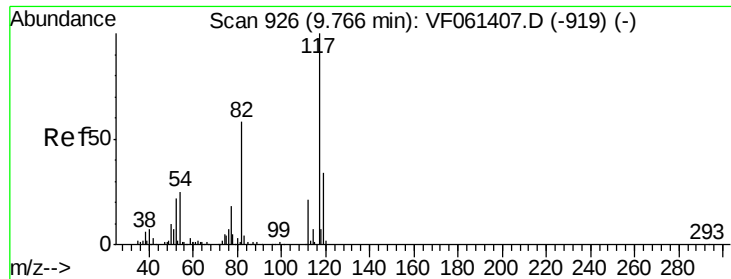
Ion Ratio Lower Upper

95 100

174 62.6 0.0 130.4

176 58.5 0.0 126.2

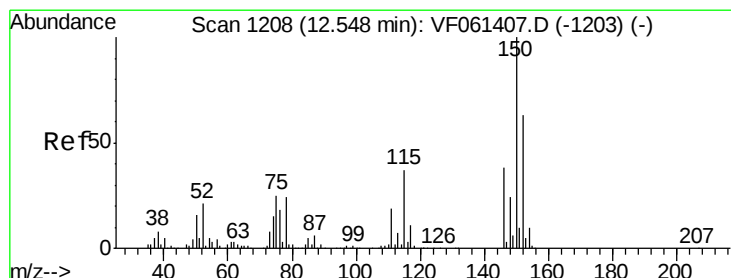
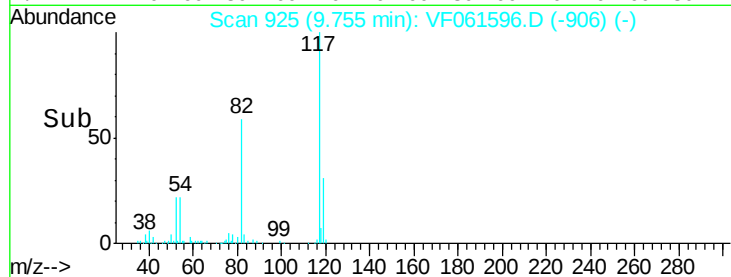
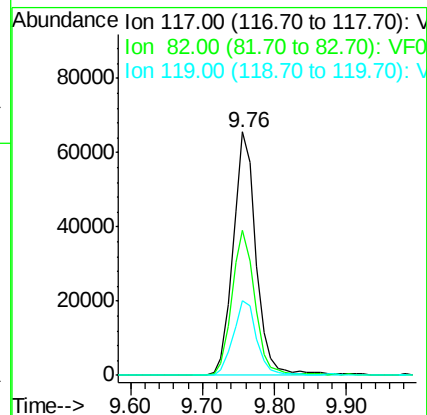
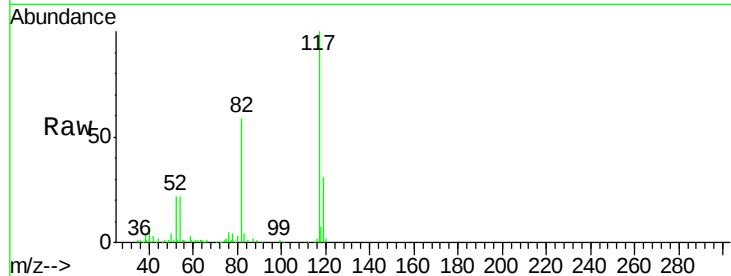




#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 9.76 min Scan# 925
 Delta R.T. -0.01 min
 Lab File: VF061596.D
 Acq: 11 Feb 2019 20:03

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	59.4	46.4	69.6
119	30.9	27.2	40.8



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.54 min Scan# 1207
 Delta R.T. -0.01 min
 Lab File: VF061596.D
 Acq: 11 Feb 2019 20:03

Tgt Ion	Ratio	Lower	Upper
152	100		
115	63.1	30.0	90.0
150	156.8	0.0	321.4

