

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF020719\
 Data File : VF061543.D
 Acq On : 7 Feb 2019 14:12
 Operator : VA/AP
 Sample : VF0207SBL01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Feb 09 04:33:23 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	190681	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.58	114	370585	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.76	117	312388	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	173798	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.82	65	127099	53.99	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	107.98%	
35) Dibromofluoromethane	4.09	113	150899	51.60	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	103.20%	
50) Toluene-d8	7.54	98	369413	46.11	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.22%	
62) 4-Bromofluorobenzene	11.40	95	182389	48.72	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.44%	

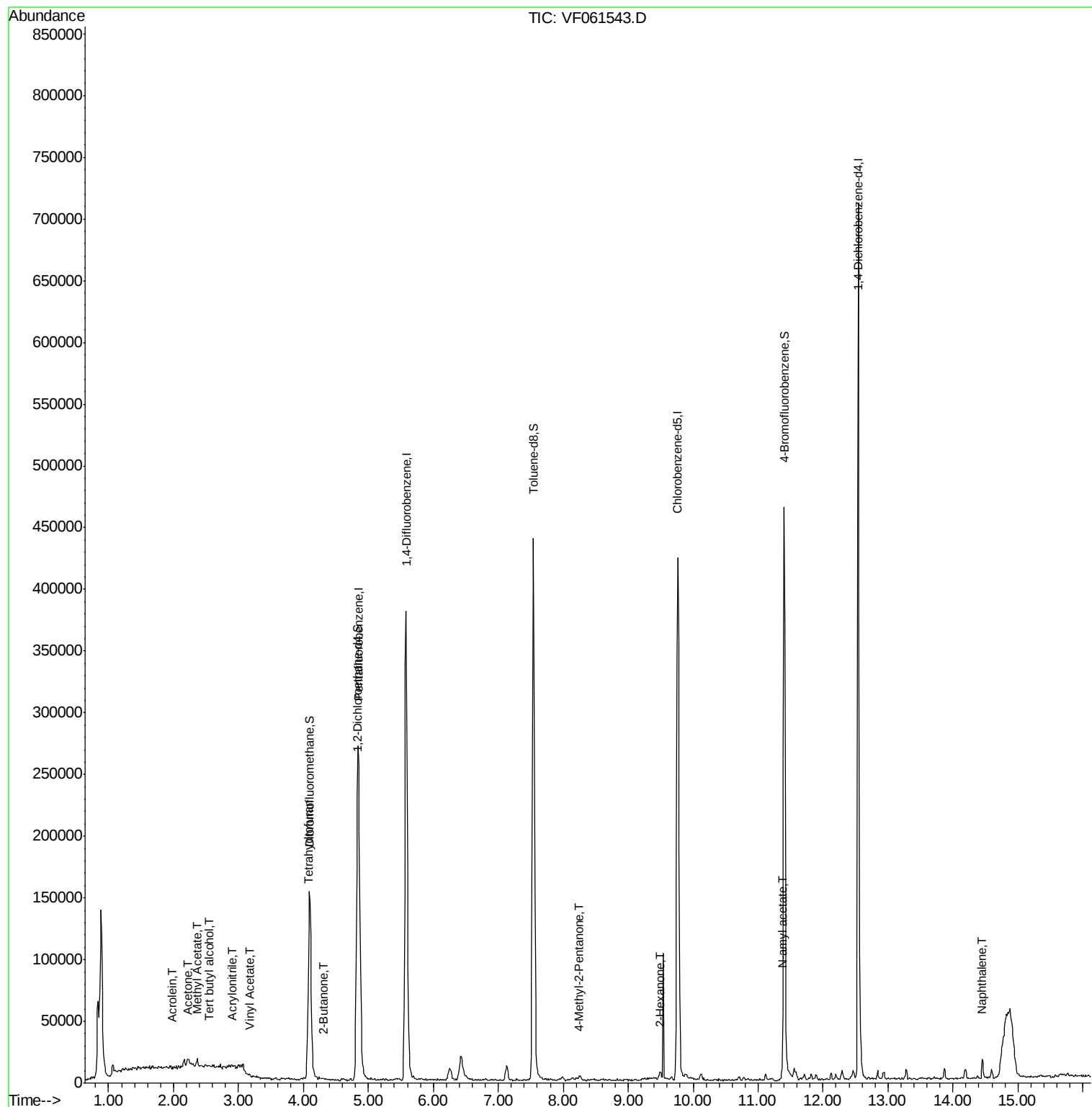
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.56	59	395	3.964	ug/l #	64
13) Acrolein	1.99	56	529	16.245	ug/l	91
14) Allyl chloride	2.09	41	1409	Below Cal	#	55
15) Acrylonitrile	2.90	53	358	1.403	ug/l #	27
16) Acetone	2.23	43	2274	4.815	ug/l	93
18) Methyl Acetate	2.36	43	2670	2.851	ug/l #	76
20) Methylene Chloride	2.17	84	2464	Below Cal	#	78
23) Vinyl Acetate	3.18	43	849	3.510	ug/l #	78
25) 2-Butanone	4.31	43	2056	2.618	ug/l #	57
29) Tetrahydrofuran	4.07	42	846	2.502	ug/l #	70
49) 1,4-Dioxane	6.69	88	67	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.24	43	3534	2.230	ug/l #	84
59) 2-Hexanone	9.49	43	4442	4.020	ug/l	97
74) N-amyl acetate	11.37	43	3554	1.063	ug/l #	93
95) Naphthalene	14.45	128	9434	1.269	ug/l	96

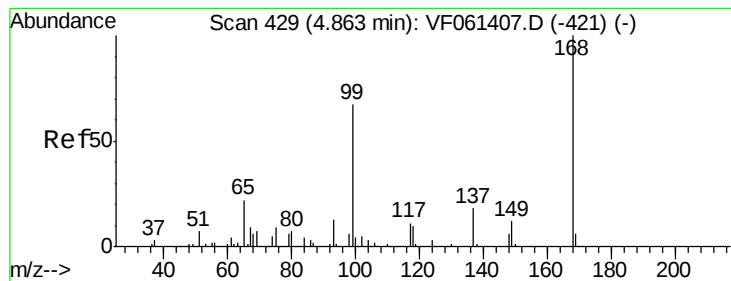
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VF061543.D

Acq: 7 Feb 2019 14:12

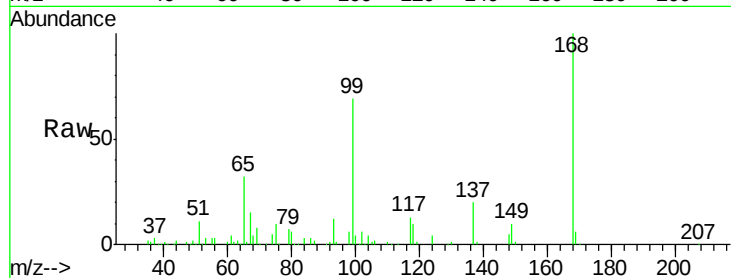
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 190681

Ion Ratio Lower Upper

168 100

99 68.7 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

60000

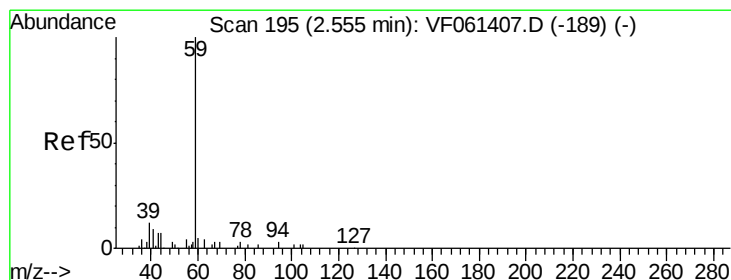
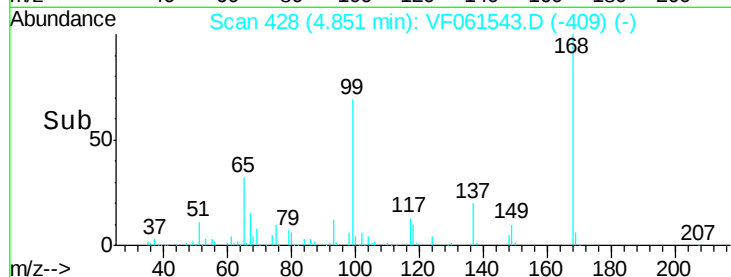
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 3.964 ug/l

RT: 2.56 min Scan# 196

Delta R.T. 0.01 min

Lab File: VF061543.D

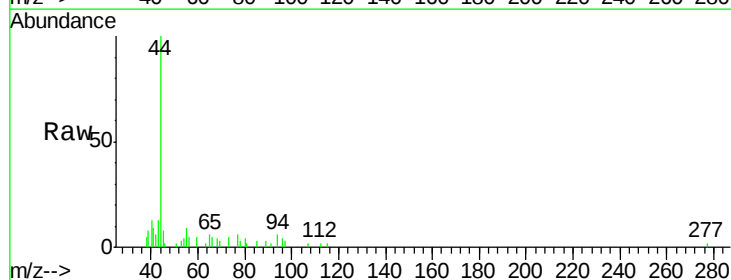
Acq: 7 Feb 2019 14:12

Tgt Ion: 59 Resp: 395

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

300

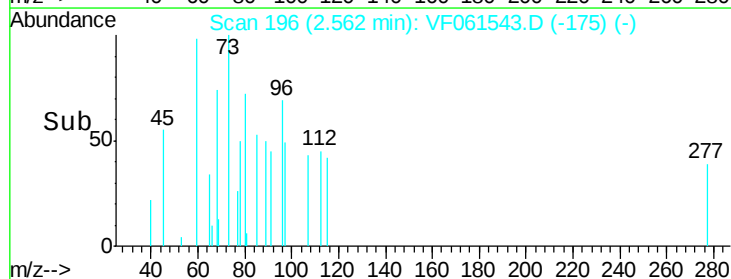
200

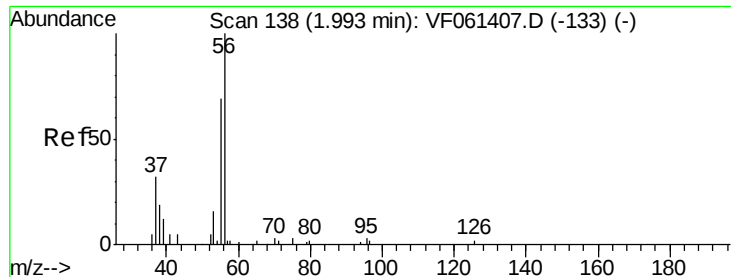
100

0

Time-->

2.50 2.55 2.60





#13

Acrolein

Concen: 16.245 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.00 min

Lab File: VF061543.D

Acq: 7 Feb 2019 14:12

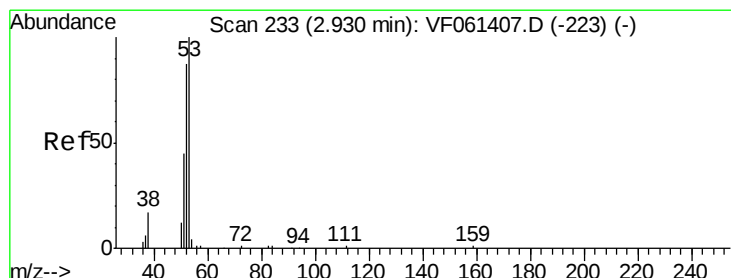
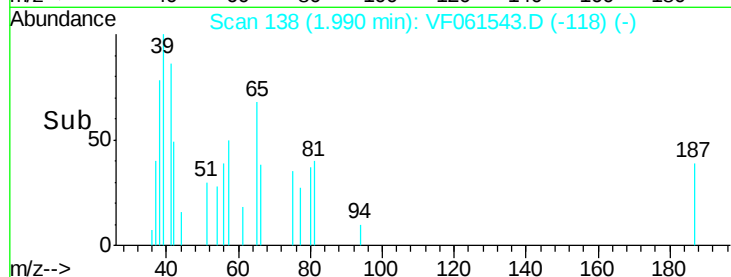
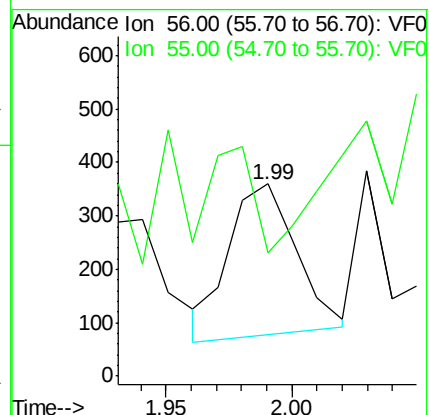
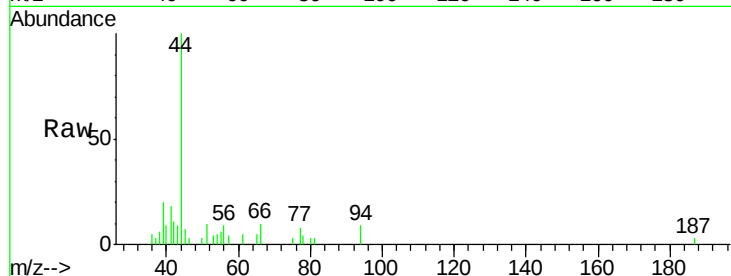
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 529

Ion Ratio Lower Upper

56 100

55 64.2 57.5 86.3



#15

Acrylonitrile

Concen: 1.403 ug/l

RT: 2.90 min Scan# 230

Delta R.T. -0.03 min

Lab File: VF061543.D

Acq: 7 Feb 2019 14:12

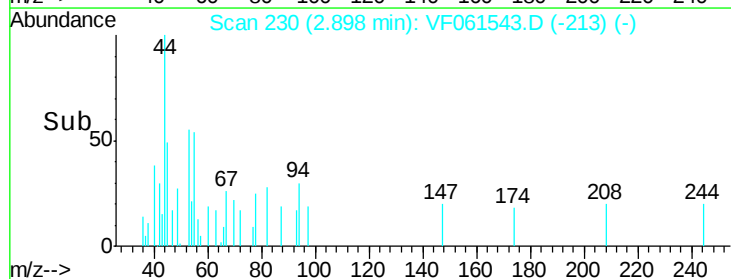
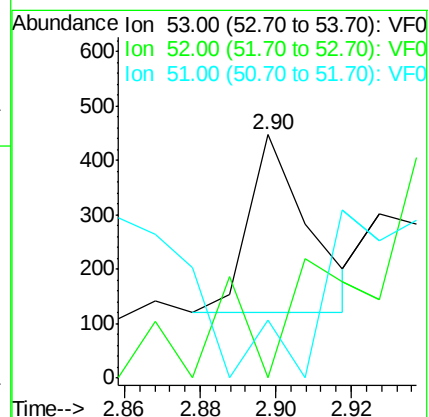
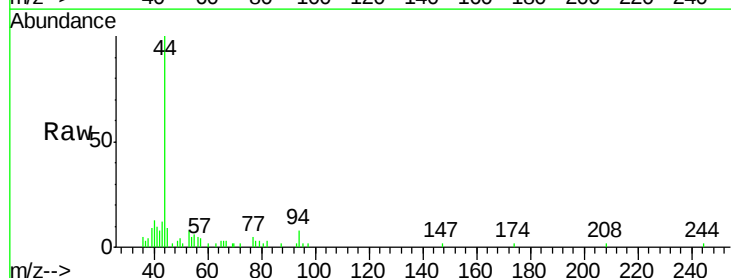
Tgt Ion: 53 Resp: 358

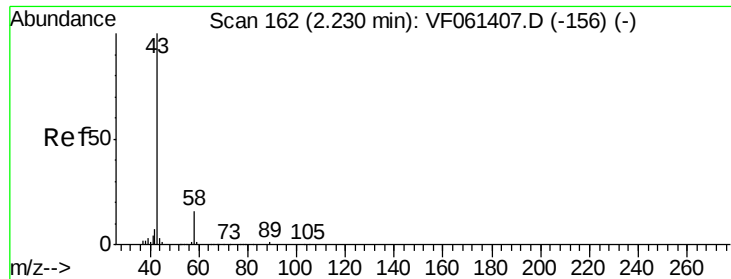
Ion Ratio Lower Upper

53 100

52 0.0 69.6 104.4#

51 23.9 36.8 55.2#





#16

Acetone

Concen: 4.815 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.00 min

Lab File: VF061543.D

Acq: 7 Feb 2019 14:12

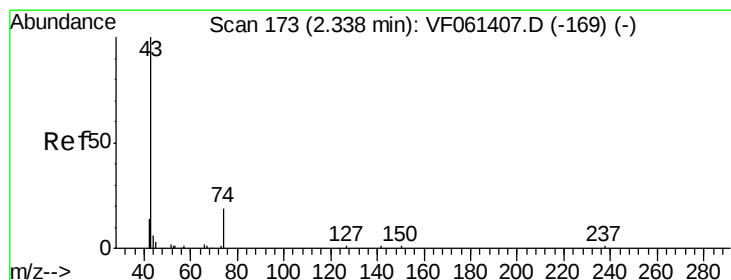
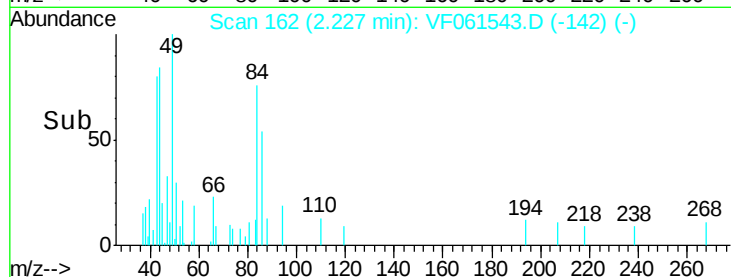
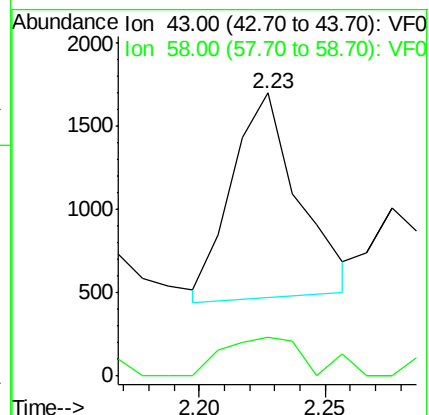
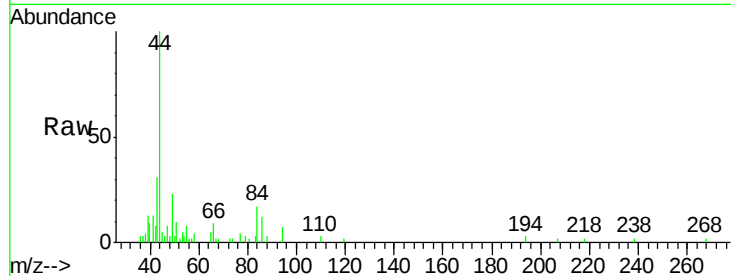
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 2274

Ion Ratio Lower Upper

43 100

58 13.6 13.3 19.9



#18

Methyl Acetate

Concen: 2.851 ug/l

RT: 2.36 min Scan# 175

Delta R.T. 0.02 min

Lab File: VF061543.D

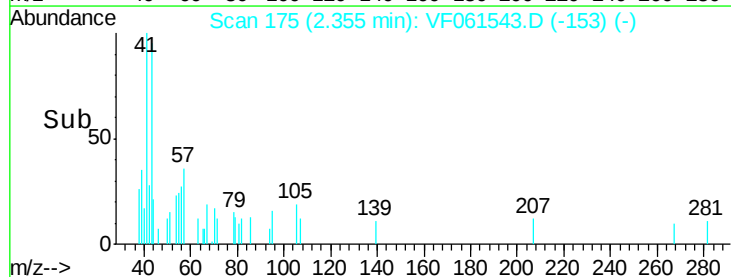
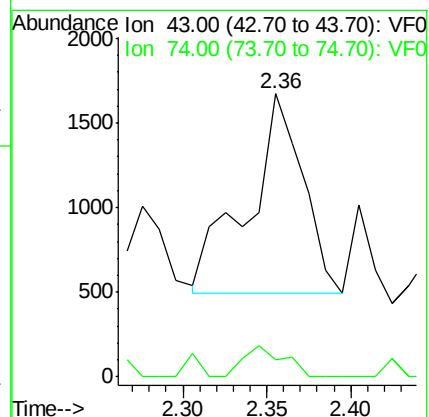
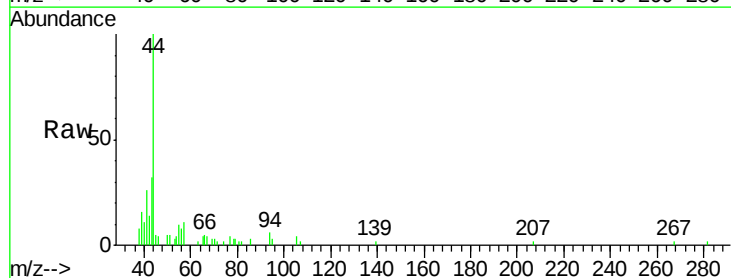
Acq: 7 Feb 2019 14:12

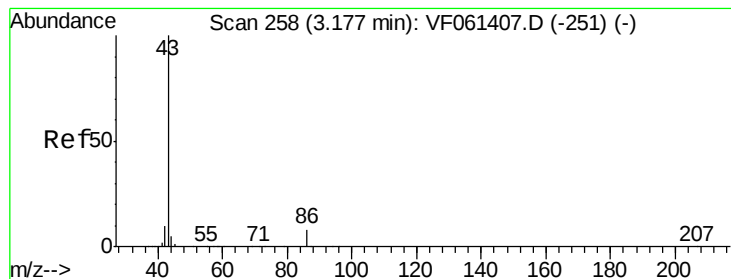
Tgt Ion: 43 Resp: 2670

Ion Ratio Lower Upper

43 100

74 6.3 13.4 20.0#





#23

Vinyl Acetate

Concen: 3.510 ug/l

RT: 3.18 min Scan# 259

Delta R.T. 0.01 min

Lab File: VF061543.D

Acq: 7 Feb 2019 14:12

Instrument :

MSVOA_F

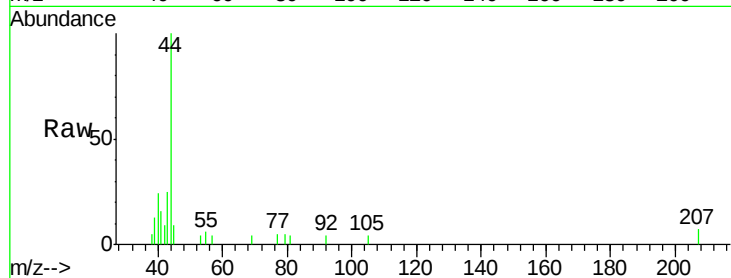
ClientSampled :

Tot Ion: 43 Resp: 849

Ion Ratio Lower Upper

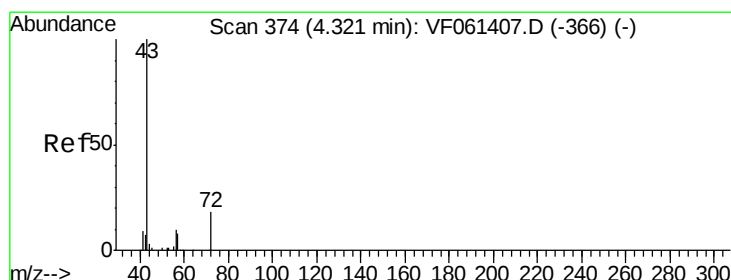
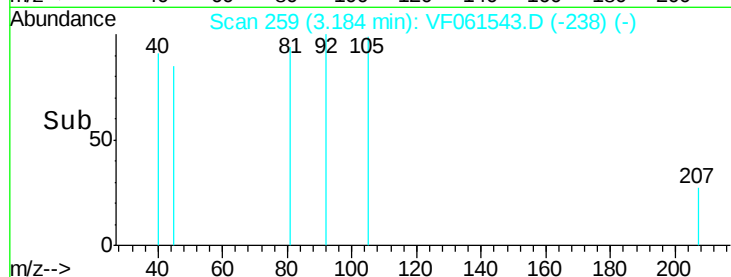
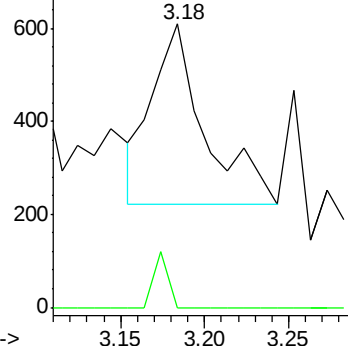
43 100

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: 2.618 ug/l

RT: 4.31 min Scan# 373

Delta R.T. -0.01 min

Lab File: VF061543.D

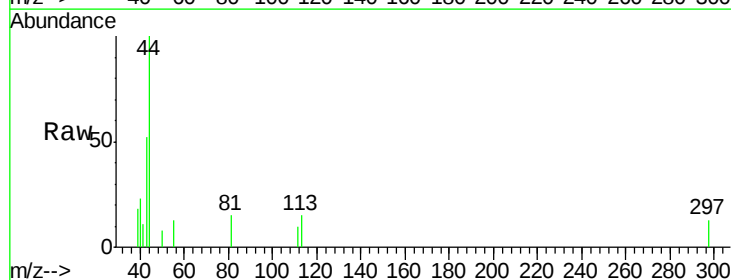
Acq: 7 Feb 2019 14:12

Tgt Ion: 43 Resp: 2056

Ion Ratio Lower Upper

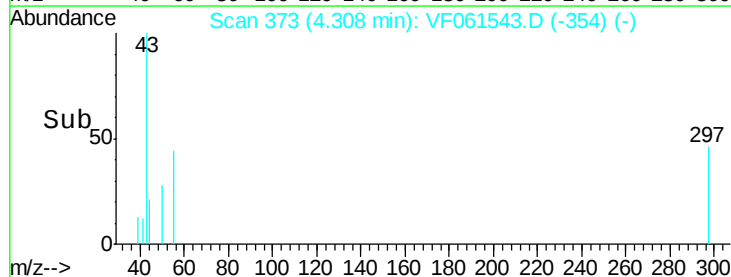
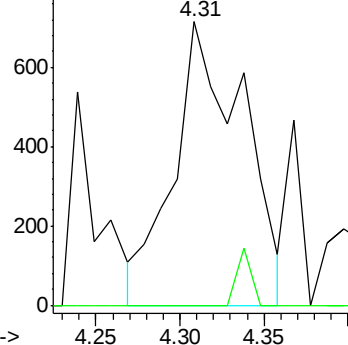
43 100

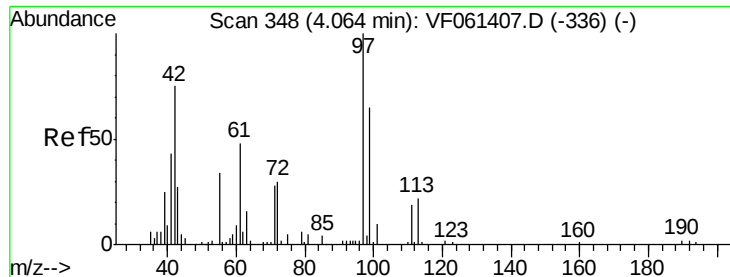
72 0.0 15.8 23.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 2.502 ug/l

RT: 4.07 min Scan# 349

Delta R.T. 0.01 min

Lab File: VF061543.D

Acq: 7 Feb 2019 14:12

Instrument :
MSVOA_F
ClientSampled :

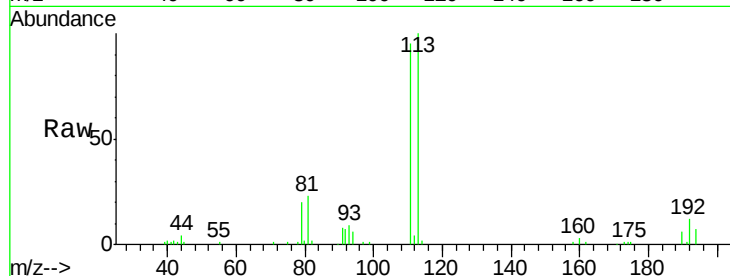
Tot Ion: 42 Resp: 846

Ion Ratio Lower Upper

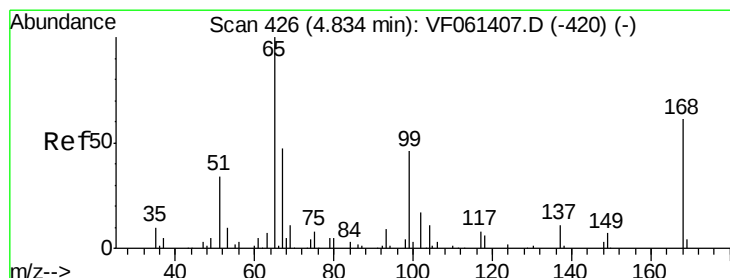
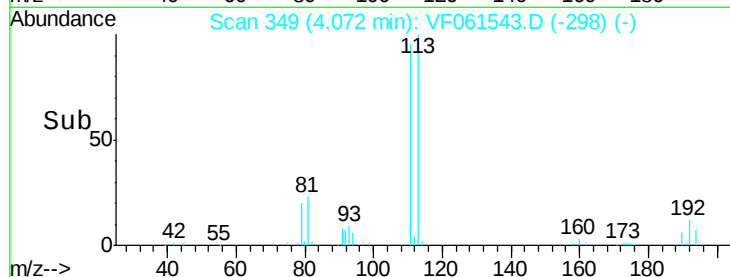
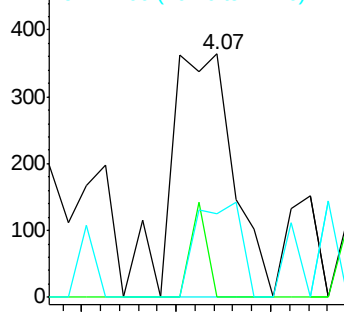
42 100

72 9.9 28.9 43.3#

71 27.9 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: 53.988 ug/l

RT: 4.82 min Scan# 425

Delta R.T. -0.01 min

Lab File: VF061543.D

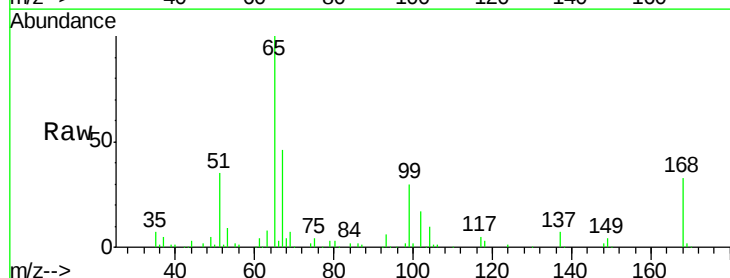
Acq: 7 Feb 2019 14:12

Tgt Ion: 65 Resp: 127099

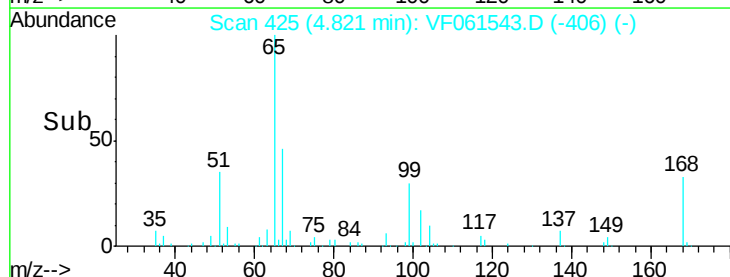
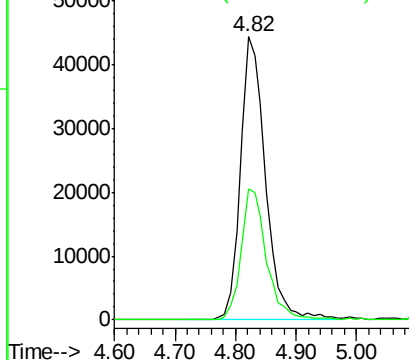
Ion Ratio Lower Upper

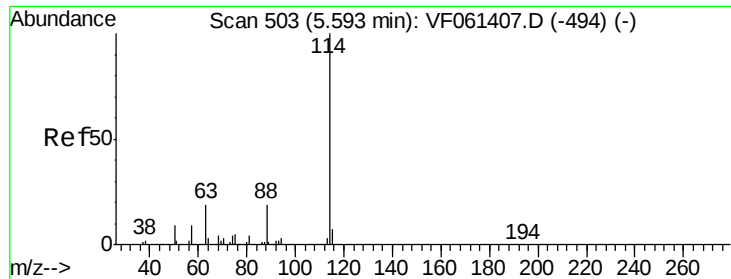
65 100

67 46.1 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: VF061543.D

Acq: 7 Feb 2019 14:12

Instrument :

MSVOA_F

ClientSampleId :

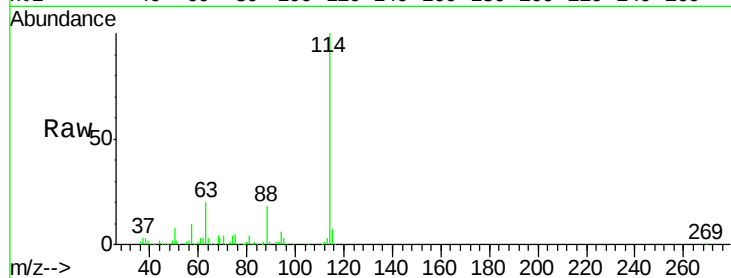
Tot Ion:114 Resp: 370585

Ion Ratio Lower Upper

114 100

63 20.1 0.0 39.0

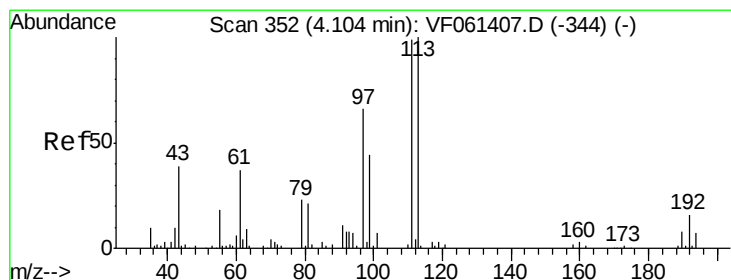
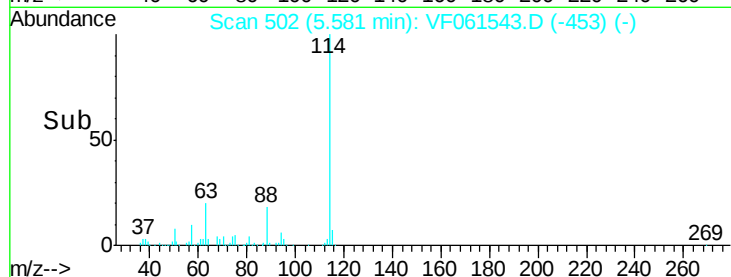
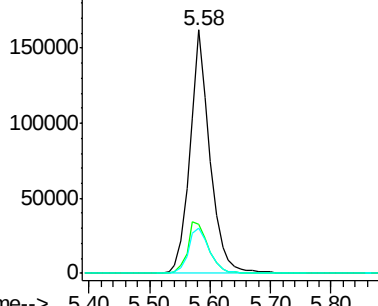
88 18.3 0.0 37.4



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: 51.603 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.01 min

Lab File: VF061543.D

Acq: 7 Feb 2019 14:12

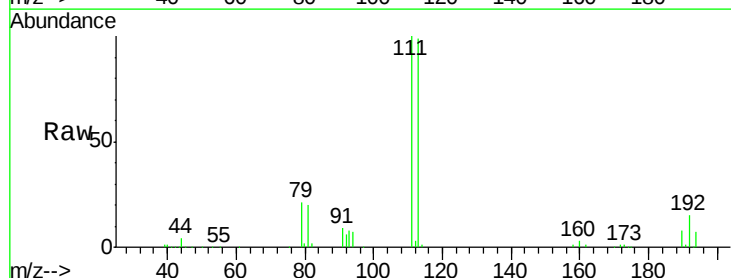
Tgt Ion:113 Resp: 150899

Ion Ratio Lower Upper

113 100

111 100.6 79.4 119.0

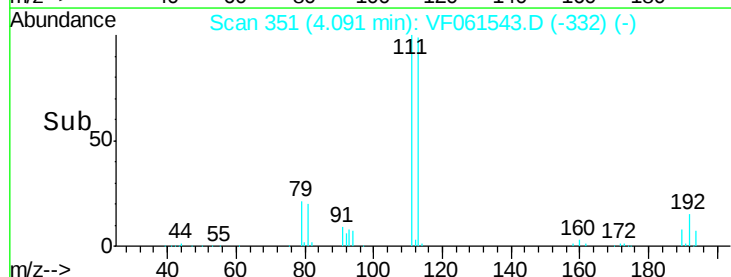
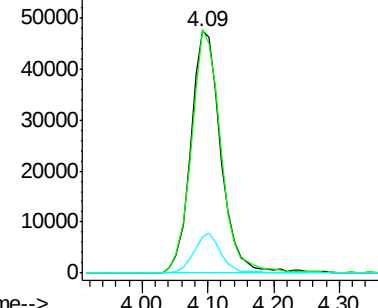
192 14.9 12.4 18.6

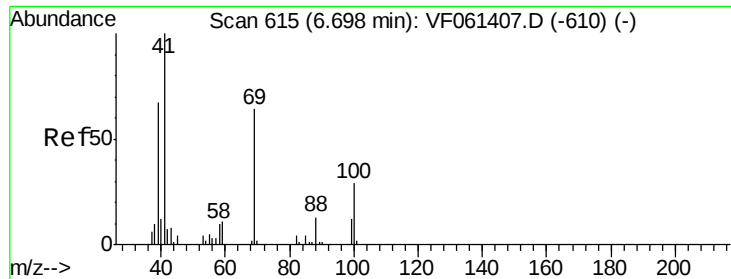


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.69 min Scan# 614

Delta R.T. -0.01 min

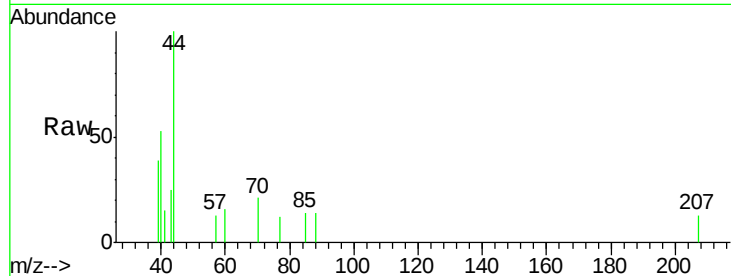
Lab File: VF061543.D

Acq: 7 Feb 2019 14:12

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 88 Resp: 67

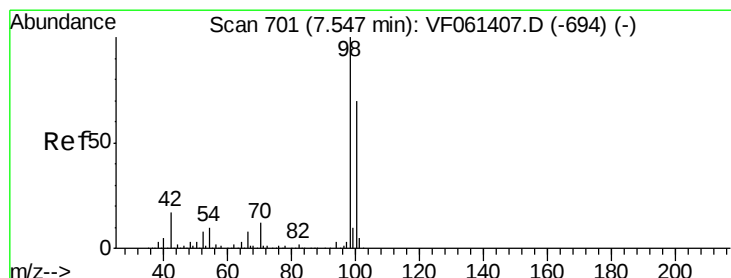
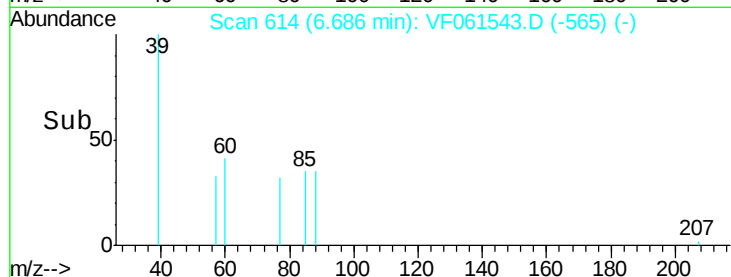
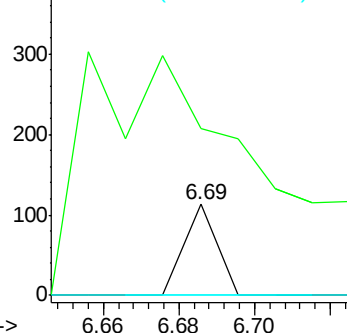
Ion	Ratio	Lower	Upper
88	100		
43	184.1	55.5	83.3#
58	0.0	59.9	89.9#



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: 46.108 ug/l

RT: 7.54 min Scan# 701

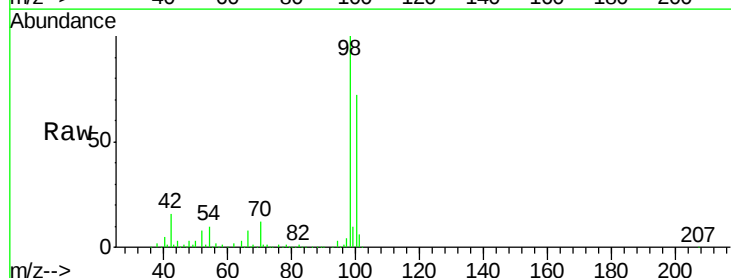
Delta R.T. -0.00 min

Lab File: VF061543.D

Acq: 7 Feb 2019 14:12

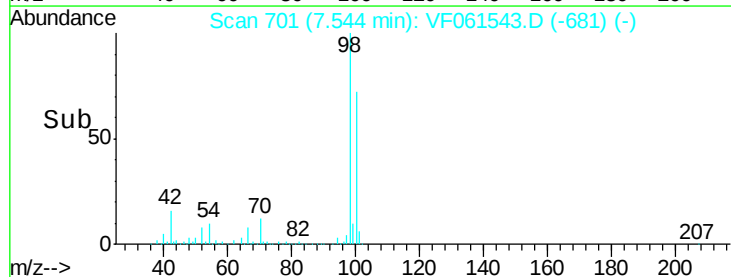
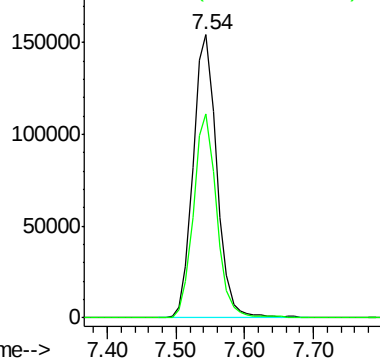
Tgt Ion: 98 Resp: 369413

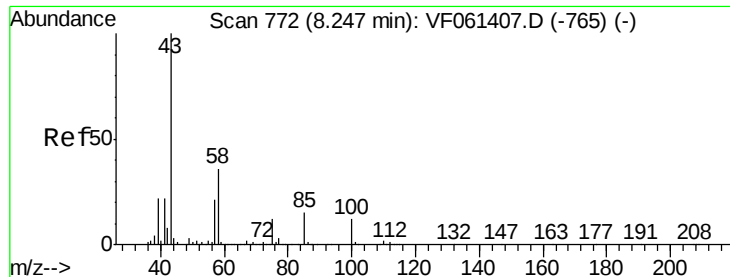
Ion	Ratio	Lower	Upper
98	100		
100	71.9	55.6	83.4



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: 2.230 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.00 min

Lab File: VF061543.D

Acq: 7 Feb 2019 14:12

Instrument :

MSVOA_F

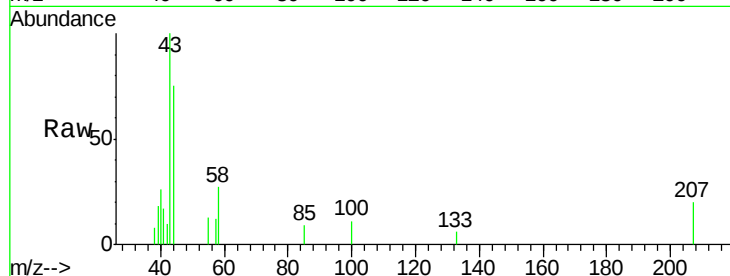
ClientSampleId :

Tot Ion: 43 Resp: 3534

Ion Ratio Lower Upper

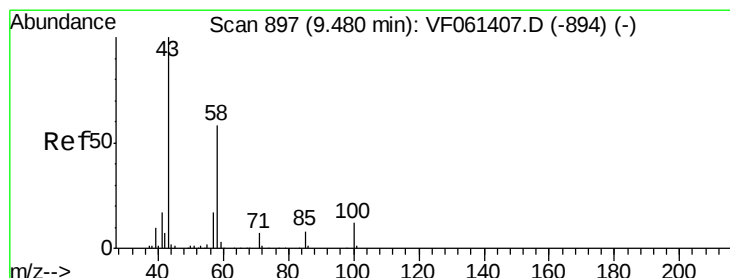
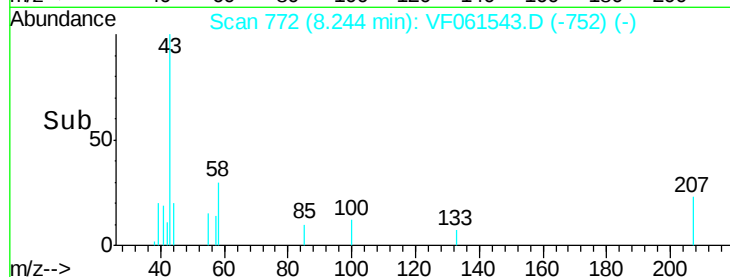
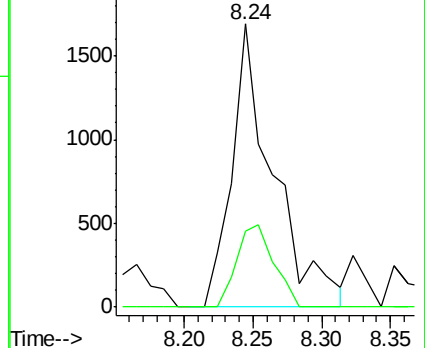
43 100

58 26.6 28.8 43.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#59

2-Hexanone

Concen: 4.020 ug/l

RT: 9.49 min Scan# 898

Delta R.T. 0.01 min

Lab File: VF061543.D

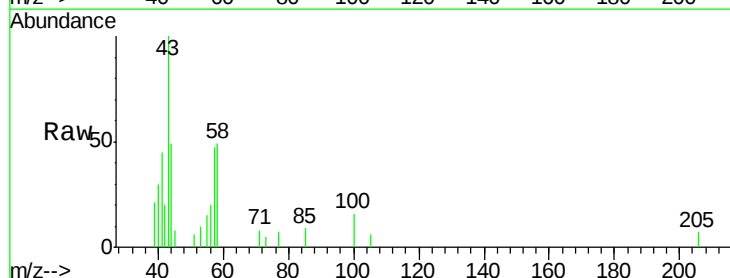
Acq: 7 Feb 2019 14:12

Tgt Ion: 43 Resp: 4442

Ion Ratio Lower Upper

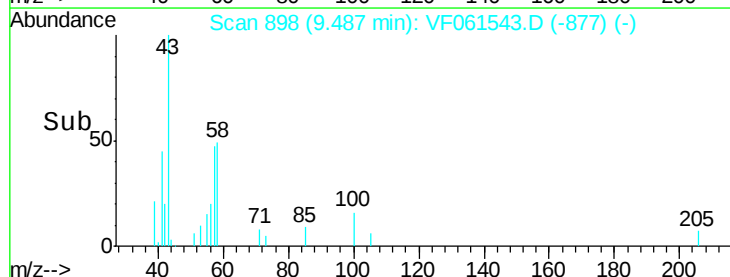
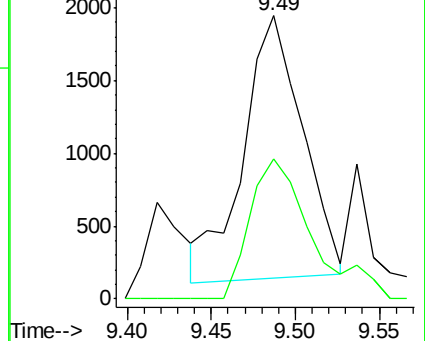
43 100

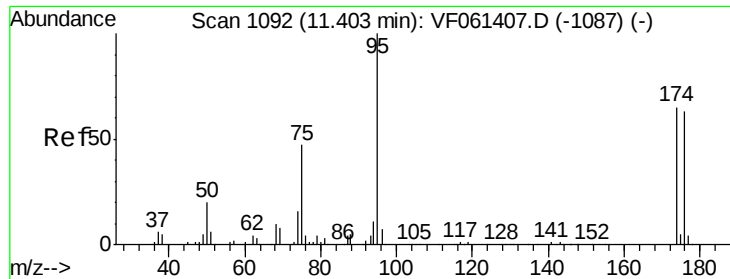
58 49.4 25.9 77.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 48.723 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.00 min

Lab File: VF061543.D

Acq: 7 Feb 2019 14:12

Instrument :

MSVOA_F

ClientSampleId :

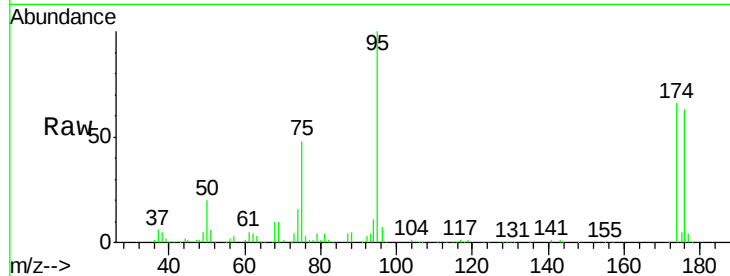
Tot Ion: 95 Resp: 182389

Ion Ratio Lower Upper

95 100

174 66.1 0.0 130.4

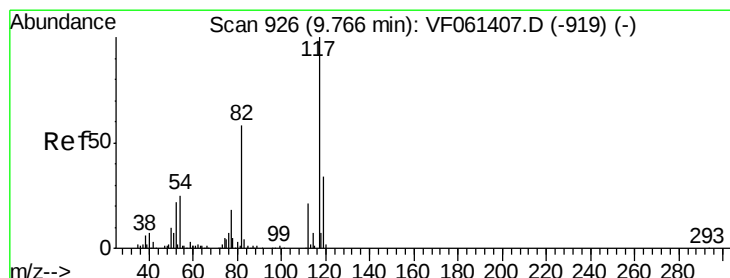
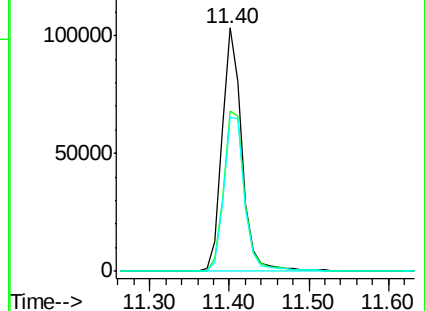
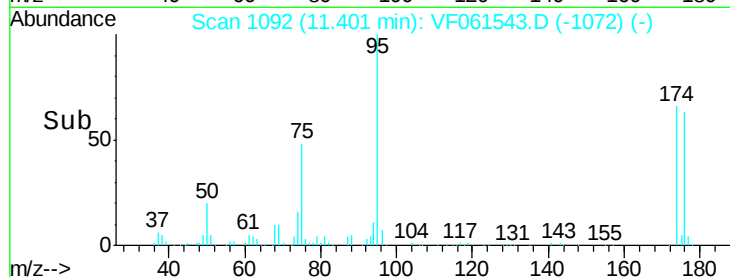
176 63.1 0.0 126.2



Abundance Ion 95.00 (94.70 to 95.70): VF061543.D (-1072) (-)

Ion 174.00 (173.70 to 174.70): VF061543.D (-1072) (-)

Ion 176.00 (175.70 to 176.70): VF061543.D (-1072) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.76 min Scan# 926

Delta R.T. -0.00 min

Lab File: VF061543.D

Acq: 7 Feb 2019 14:12

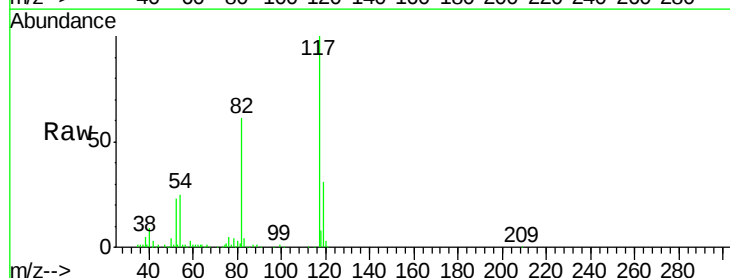
Tgt Ion: 117 Resp: 312388

Ion Ratio Lower Upper

117 100

82 60.8 46.4 69.6

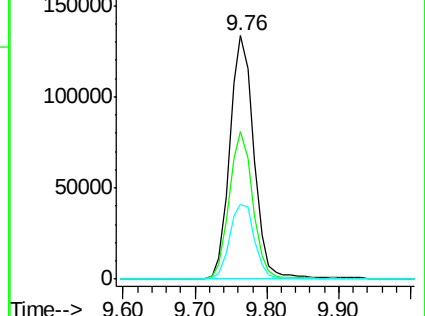
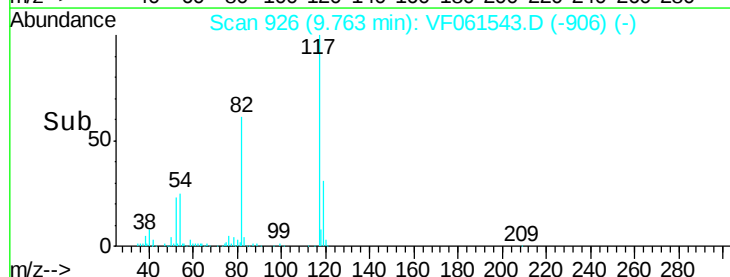
119 30.6 27.2 40.8

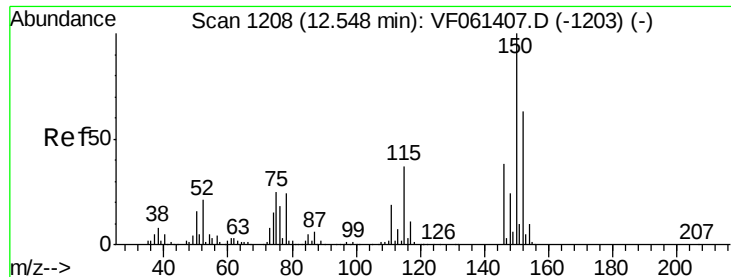


Abundance Ion 117.00 (116.70 to 117.70): VF061543.D (-906) (-)

Ion 82.00 (81.70 to 82.70): VF061543.D (-906) (-)

Ion 119.00 (118.70 to 119.70): VF061543.D (-906) (-)



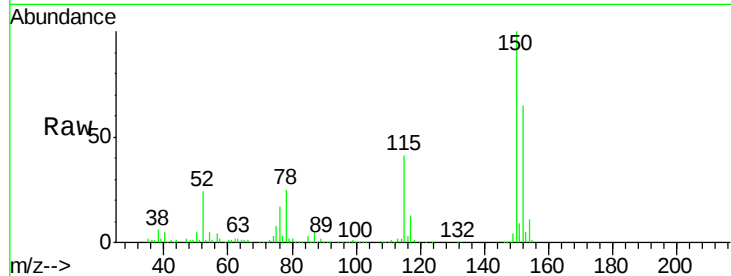


#72

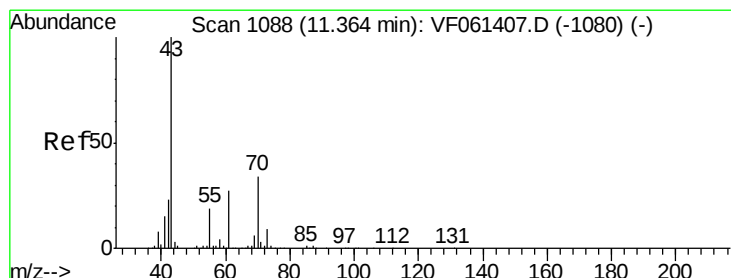
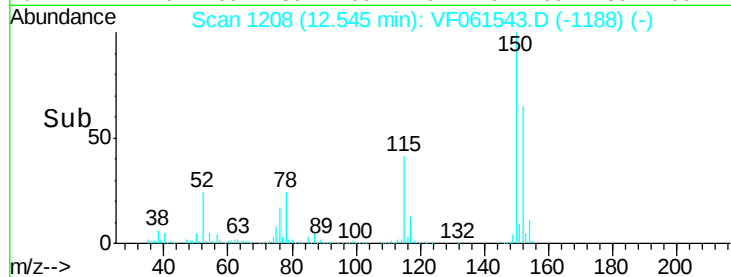
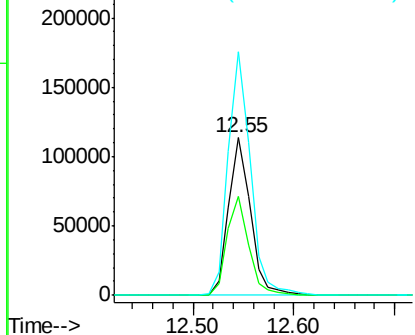
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1208
Delta R.T. -0.00 min
Lab File: VF061543.D
Acq: 7 Feb 2019 14:12

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:152 Resp: 173798
Ion Ratio Lower Upper
152 100
115 62.6 30.0 90.0
150 154.6 0.0 321.4



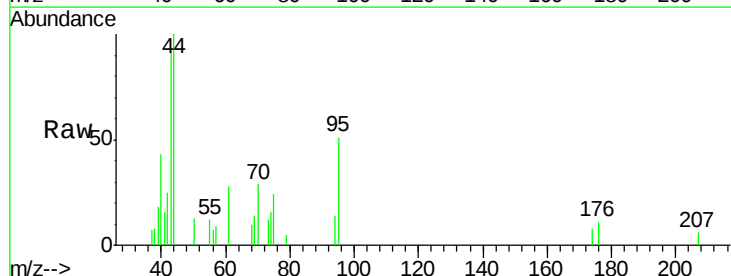
Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V



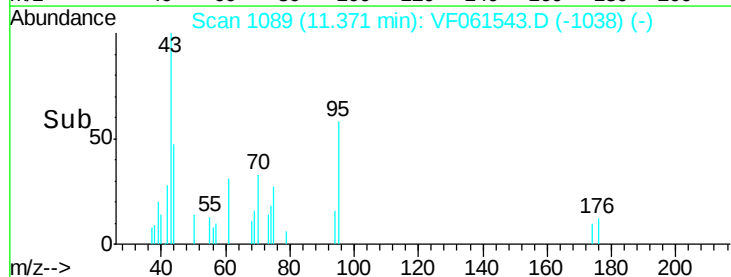
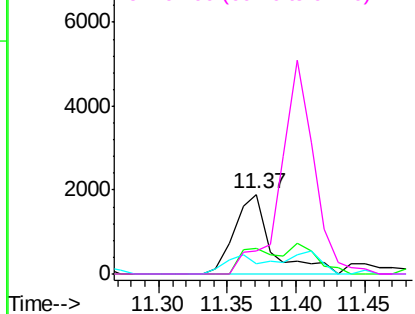
#74

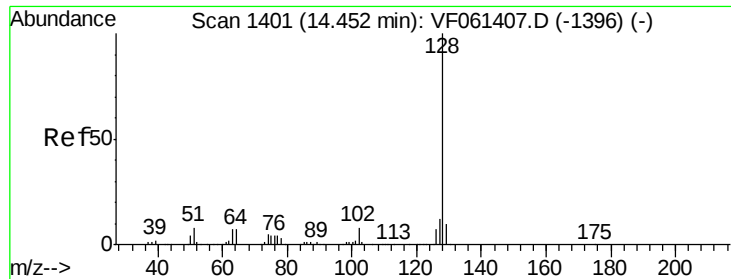
N-ethyl acetate
Concen: 1.063 ug/l
RT: 11.37 min Scan# 1089
Delta R.T. 0.01 min
Lab File: VF061543.D
Acq: 7 Feb 2019 14:12

Tgt Ion: 43 Resp: 3554
Ion Ratio Lower Upper
43 100
70 31.5 27.6 41.4
55 12.5 15.4 23.2#
61 29.6 21.8 32.6



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 70.00 (69.70 to 70.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 61.00 (60.70 to 61.70): VF0

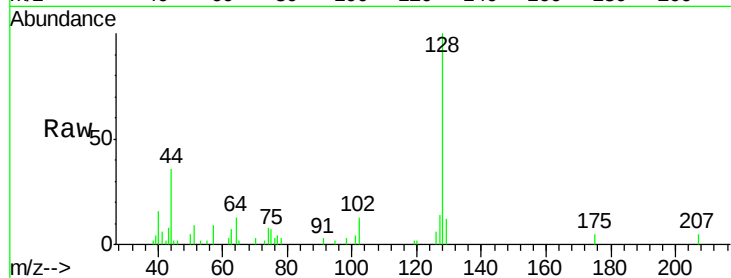




#95
Naphthalene
Concen: 1.269 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. -0.00 min
Lab File: VF061543.D
Acq: 7 Feb 2019 14:12

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:128 Resp: 9434
Ion Ratio Lower Upper
128 100
127 13.6 9.5 14.3
129 11.6 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

