

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030519\
 Data File : VF061854.D
 Acq On : 5 Mar 2019 19:29
 Operator : VA/AP
 Sample : K1707-03
 Misc : 4.71q/5mL/MSVOA-F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 S11

Quant Time: Mar 06 05:45:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	200072	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	259397	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.77	117	101298	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	13867	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	57213	39.27	ug/l	0.00
Spiked Amount			Recovery	=	78.54%	
35) Dibromofluoromethane	4.11	113	85151	47.04	ug/l	0.00
Spiked Amount			Recovery	=	94.08%	
50) Toluene-d8	7.56	98	147475	27.41	ug/l	0.00
Spiked Amount			Recovery	=	54.82%	
62) 4-Bromofluorobenzene	11.41	95	19532	9.27	ug/l	0.00
Spiked Amount			Recovery	=	18.54%	

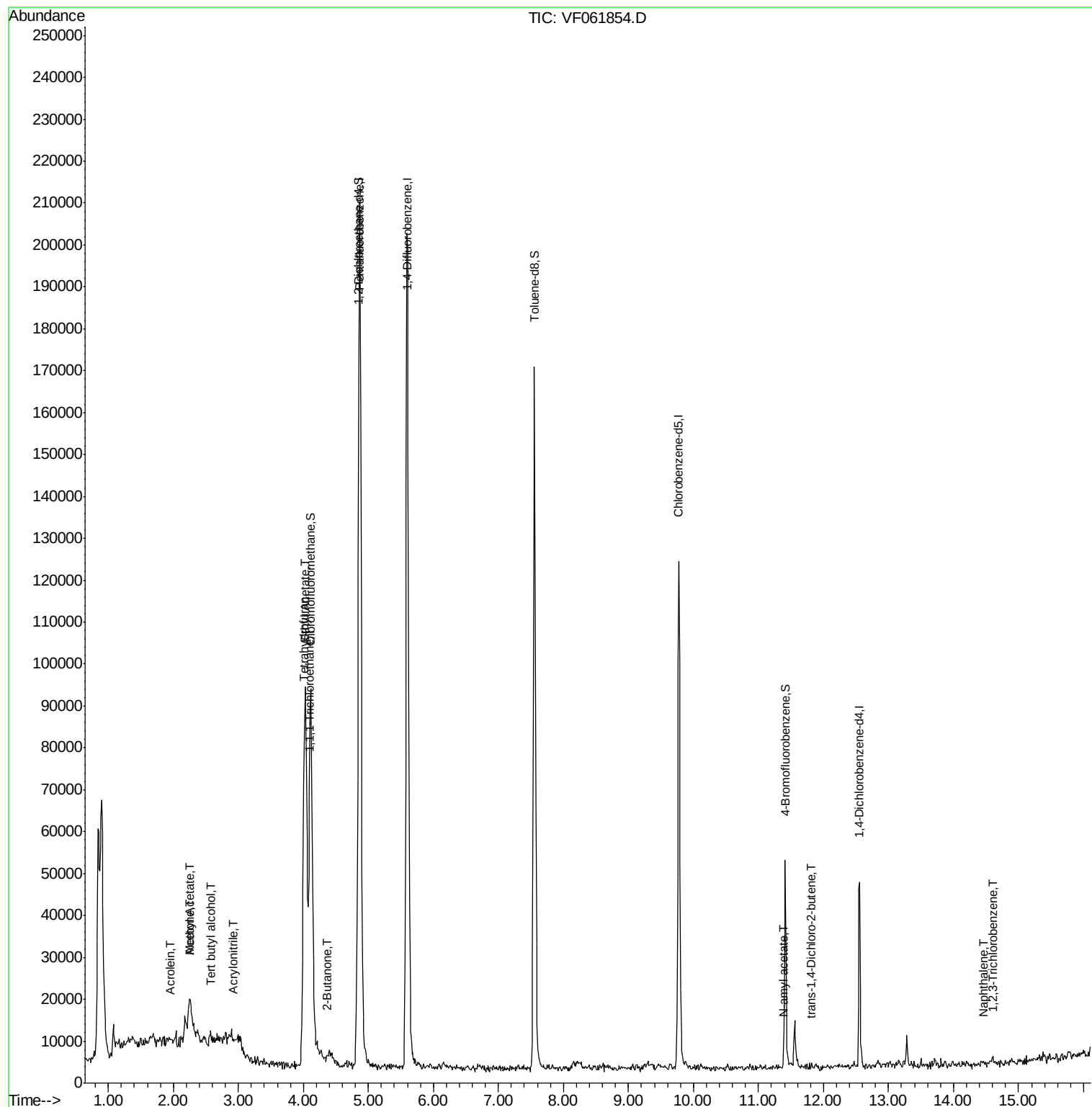
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.59	59	429	5.187	ug/l #	64
13) Acrolein	1.95	56	306	2.920	ug/l	100
15) Acrylonitrile	2.93	53	495	1.880	ug/l #	55
16) Acetone	2.24	43	13615	44.610	ug/l	99
18) Methyl Acetate	2.24	43	13615	21.691	ug/l #	62
20) Methylene Chloride	2.18	84	3137	Below Cal	#	68
25) 2-Butanone	4.36	43	1197	1.928	ug/l #	56
29) Tetrahydrofuran	4.01	42	1613	6.025	ug/l #	49
32) 1,1,1-Trichloroethane	4.08	97	2434	1.180	ug/l #	78
37) Ethyl Acetate	4.03	43	7352	7.148	ug/l #	96
74) N-amyl acetate	11.37	43	368	1.674	ug/l #	44
81) trans-1,4-Dichloro-2-buten	11.81	75	62	1.252	ug/l #	18
95) Naphthalene	14.46	128	722	1.399	ug/l #	70
96) 1,2,3-Trichlorobenzene	14.61	180	268	1.002	ug/l #	14

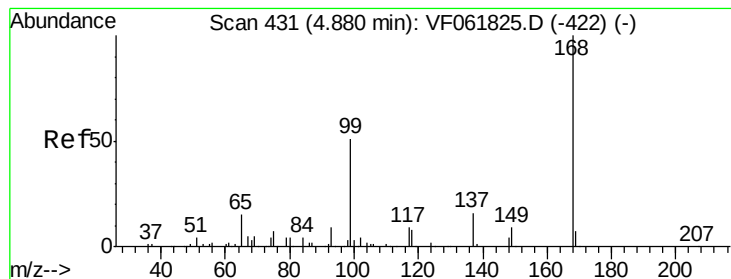
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF030519\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.01 min

Lab File: VF061854.D

Acq: 5 Mar 2019 19:29

Instrument :

MSVOA_F

ClientSampled :

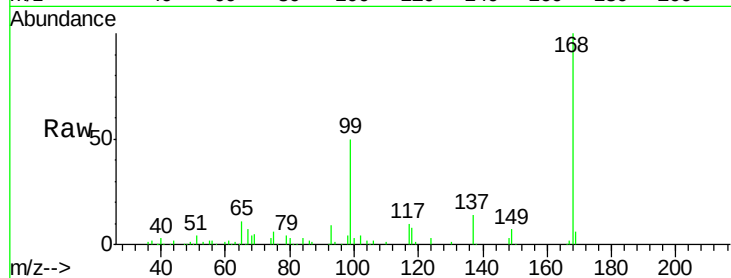
S11

Tot Ion:168 Resp: 200072

Ion Ratio Lower Upper

168 100

99 50.0 40.8 61.2



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0

4.87

60000

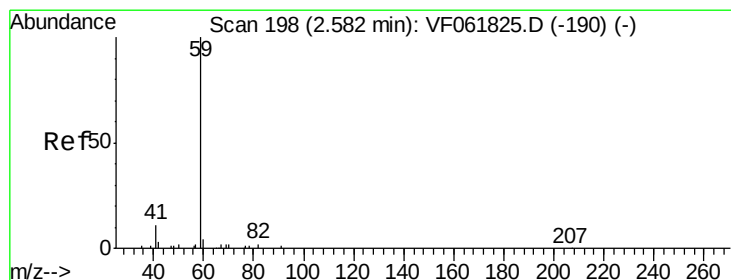
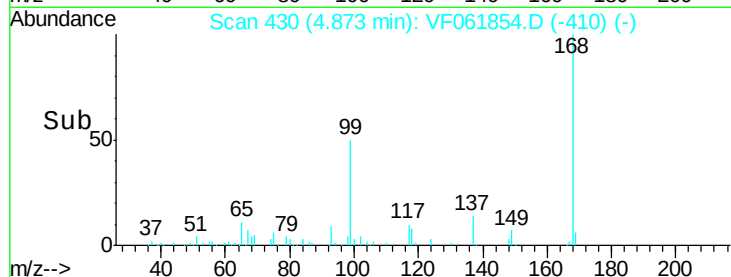
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 5.187 ug/l

RT: 2.59 min Scan# 198

Delta R.T. 0.00 min

Lab File: VF061854.D

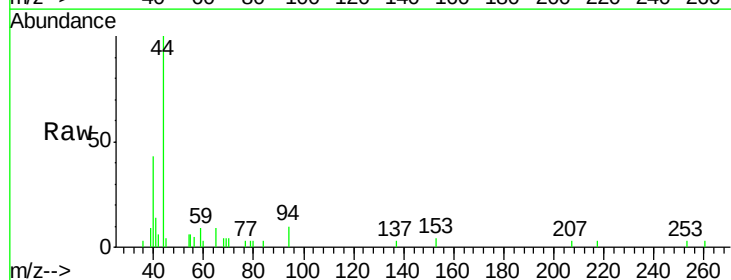
Acq: 5 Mar 2019 19:29

Tgt Ion: 59 Resp: 429

Ion Ratio Lower Upper

59 100

57 0.0 11.8 17.6#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

400

300

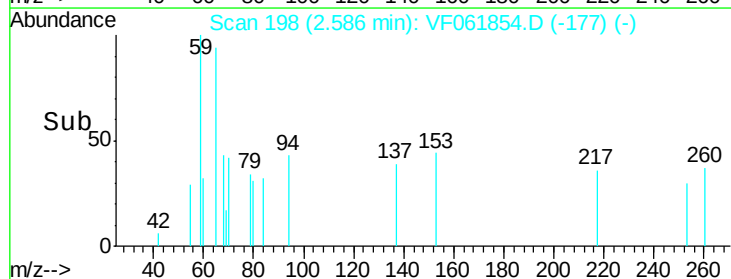
200

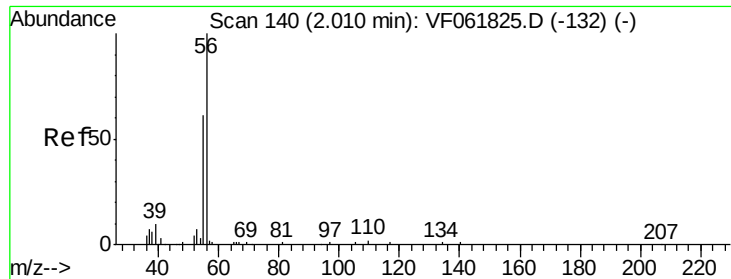
100

0

Time-->

2.50 2.55 2.60





#13

Acrolein

Concen: 2.920 ug/l

RT: 1.95 min Scan# 134

Delta R.T. -0.06 min

Lab File: VF061854.D

Acq: 5 Mar 2019 19:29

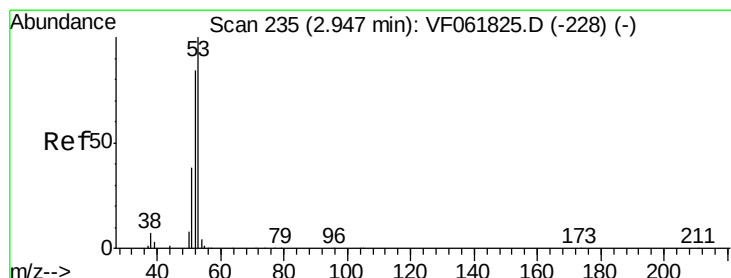
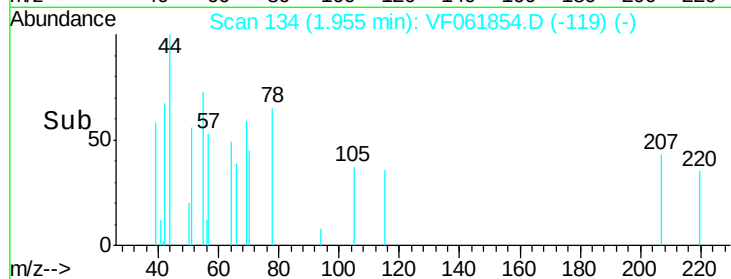
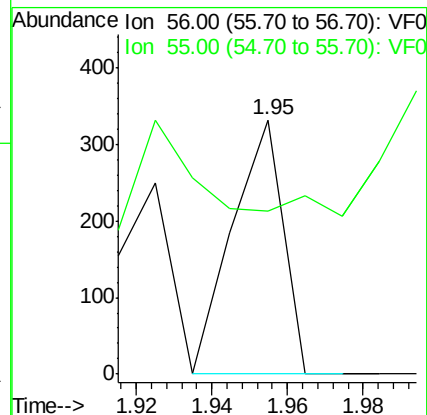
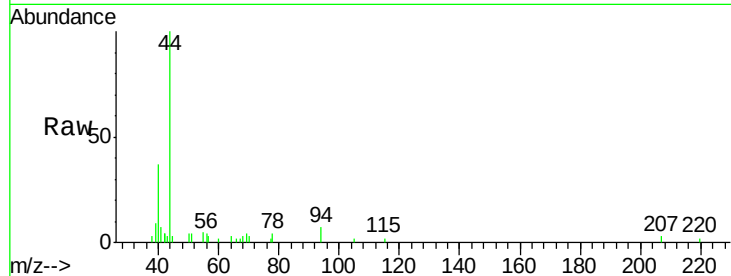
Instrument :
MSVOA_F
ClientSampled :
S11

Tot Ion: 56 Resp: 306

Ion Ratio Lower Upper

56 100

55 63.9 51.3 76.9



#15

Acrylonitrile

Concen: 1.880 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.02 min

Lab File: VF061854.D

Acq: 5 Mar 2019 19:29

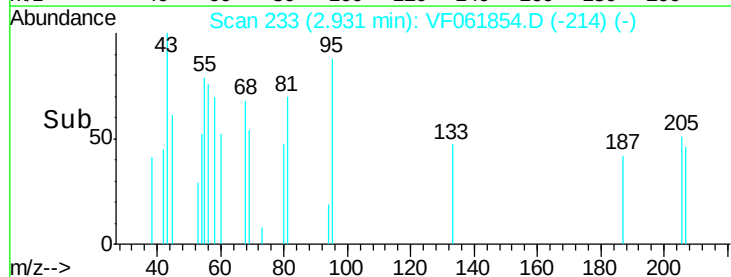
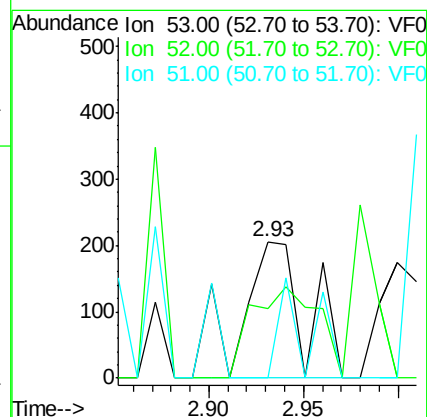
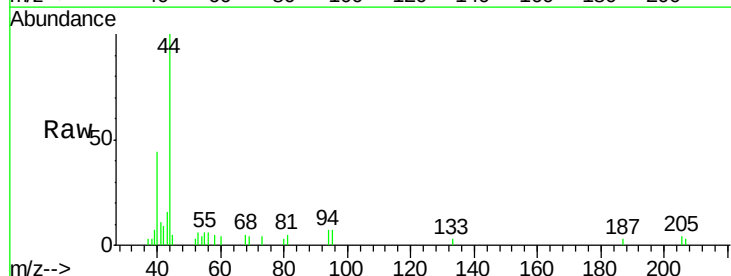
Tgt Ion: 53 Resp: 495

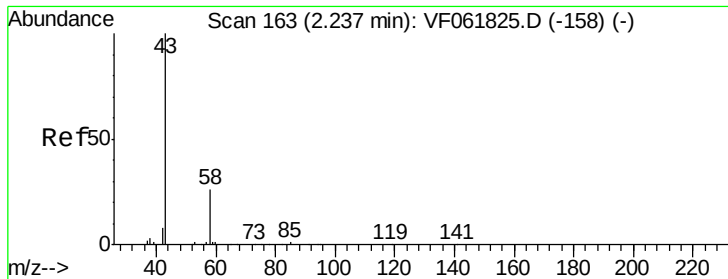
Ion Ratio Lower Upper

53 100

52 51.0 67.4 101.0#

51 0.0 30.7 46.1#





#16

Acetone

Concen: 44.610 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.00 min

Lab File: VF061854.D

Acq: 5 Mar 2019 19:29

Instrument :

MSVOA_F

ClientSampleId :

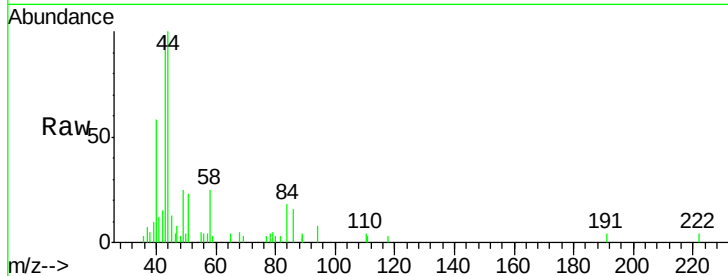
S11

Tot Ion: 43 Resp: 13615

Ion Ratio Lower Upper

43 100

58 25.7 20.3 30.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.24

4000

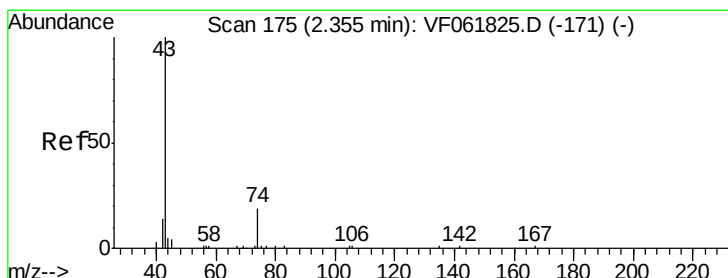
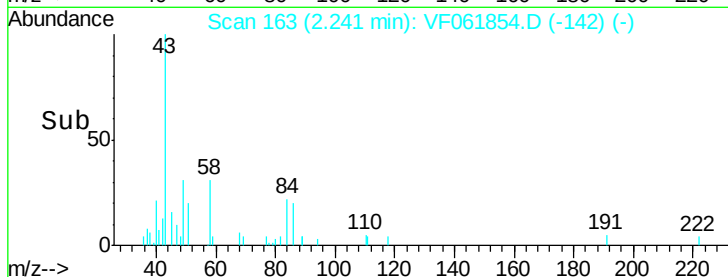
3000

2000

1000

0

Time--> 2.10 2.20 2.30 2.40



#18

Methyl Acetate

Concen: 21.691 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.11 min

Lab File: VF061854.D

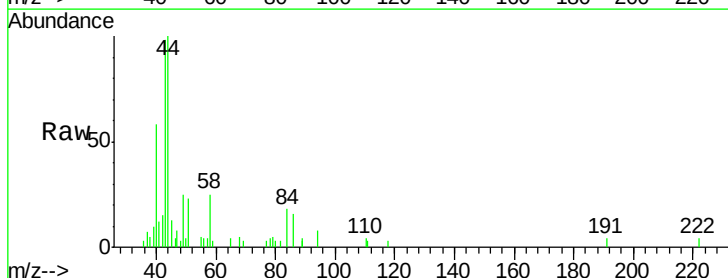
Acq: 5 Mar 2019 19:29

Tgt Ion: 43 Resp: 13615

Ion Ratio Lower Upper

43 100

74 0.0 13.2 19.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

2.24

4000

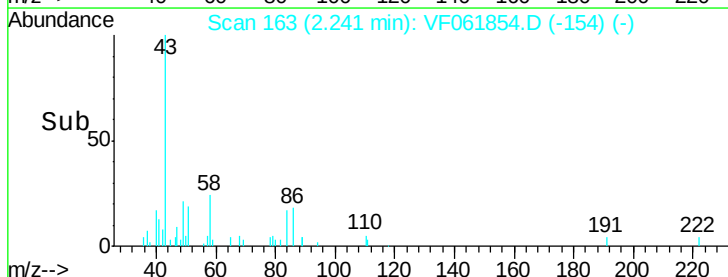
3000

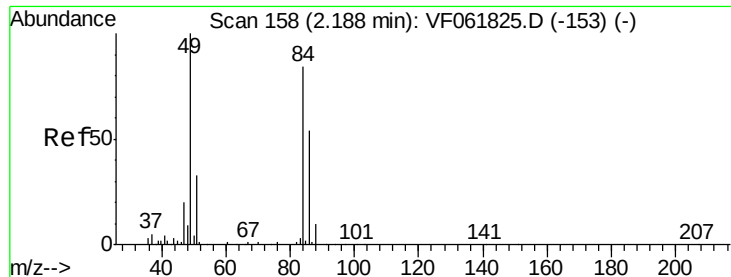
2000

1000

0

Time--> 2.10 2.20 2.30 2.40

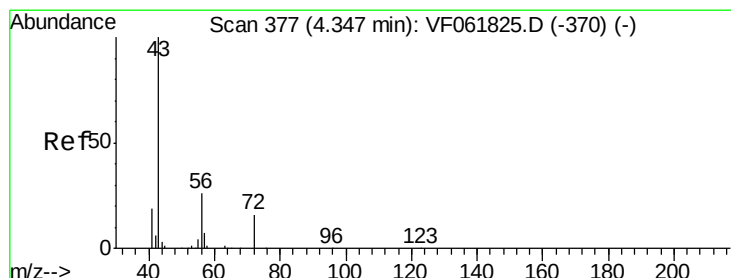
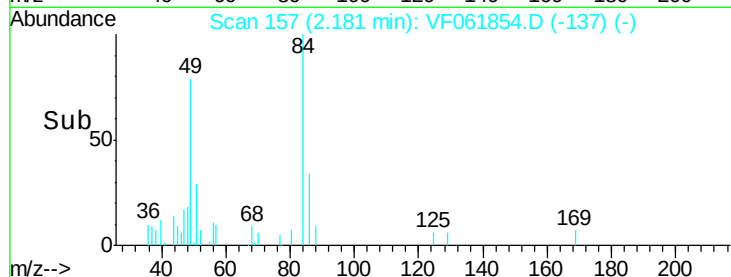
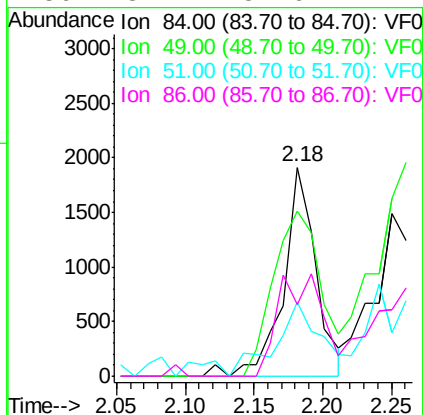
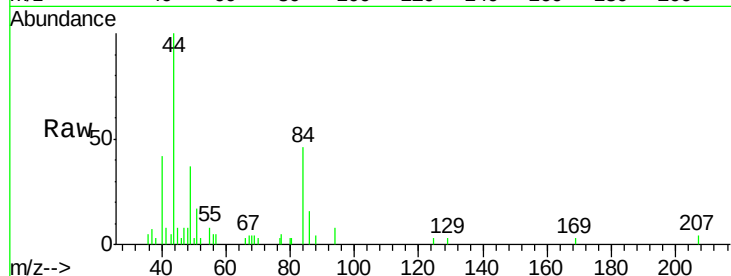




#20
Methylene Chloride
Concen: Below Cal
RT: 2.18 min Scan# 157
Delta R.T. -0.01 min
Lab File: VF061854.D
Acq: 5 Mar 2019 19:29

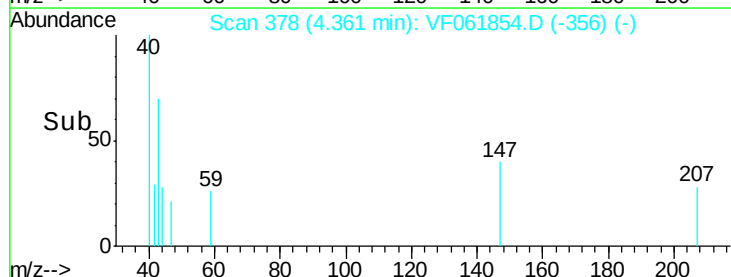
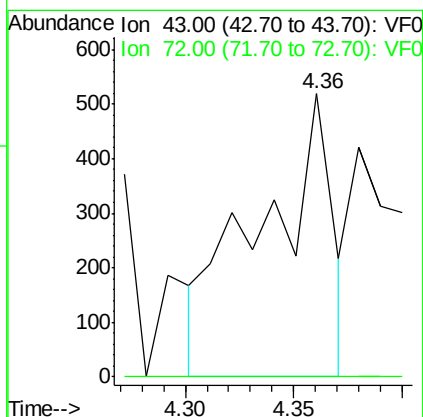
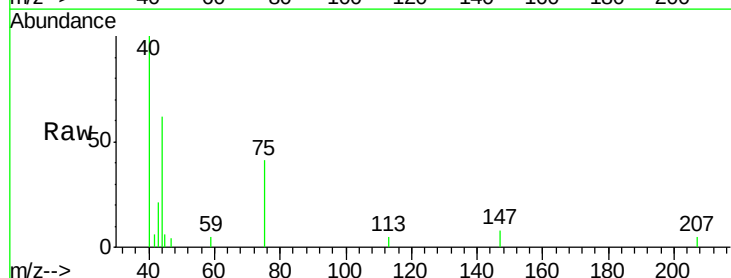
Instrument :
MSVOA_F
ClientSampleId :
S11

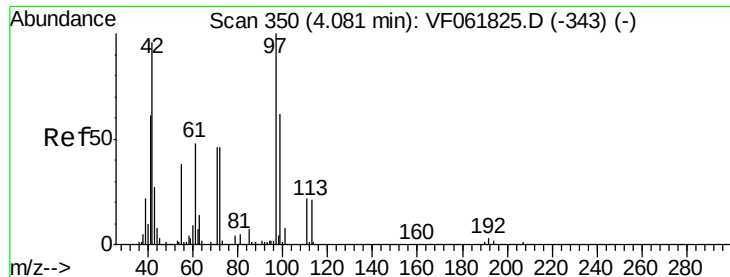
Tot Ion: 84 Resp: 3137
Ion Ratio Lower Upper
84 100
49 79.2 96.8 145.2#
51 35.7 31.8 47.6
86 34.2 51.6 77.4#



#25
2-Butanone
Concen: 1.928 ug/l
RT: 4.36 min Scan# 378
Delta R.T. 0.01 min
Lab File: VF061854.D
Acq: 5 Mar 2019 19:29

Tgt Ion: 43 Resp: 1197
Ion Ratio Lower Upper
43 100
72 0.0 16.2 24.4#





#29

Tetrahydrofuran

Concen: 6.025 ug/l

RT: 4.01 min Scan# 342

Delta R.T. -0.08 min

Lab File: VF061854.D

Acq: 5 Mar 2019 19:29

Instrument :

MSVOA_F

ClientSampled :

S11

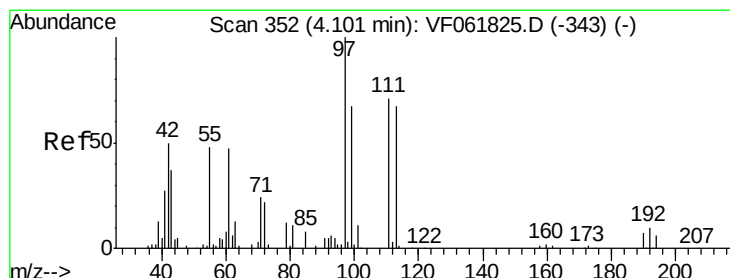
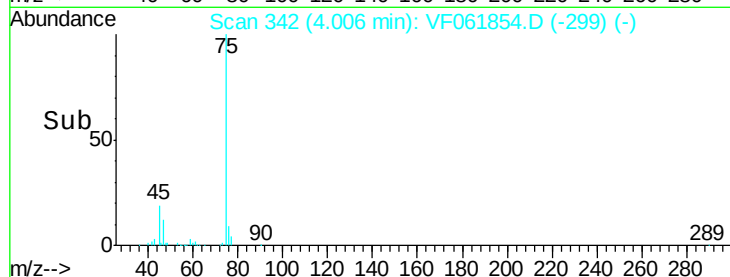
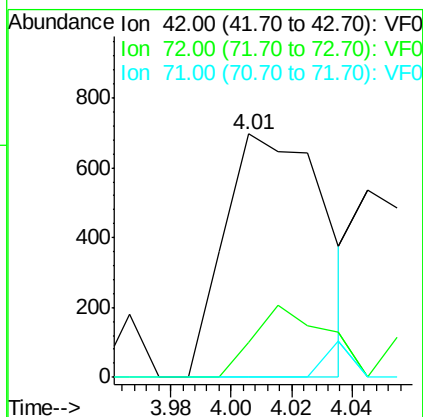
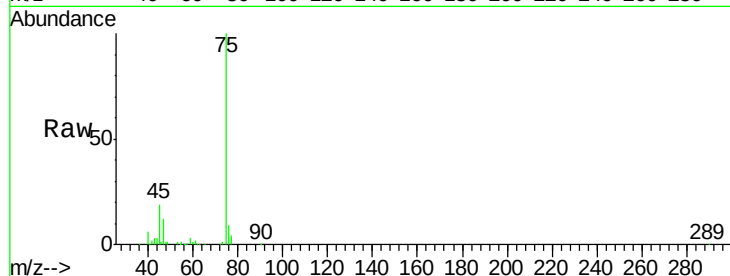
Tot Ion: 42 Resp: 1613

Ion Ratio Lower Upper

42 100

72 21.5 34.4 51.6#

71 0.0 34.6 52.0#



#32

1,1,1-Trichloroethane

Concen: 1.180 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.02 min

Lab File: VF061854.D

Acq: 5 Mar 2019 19:29

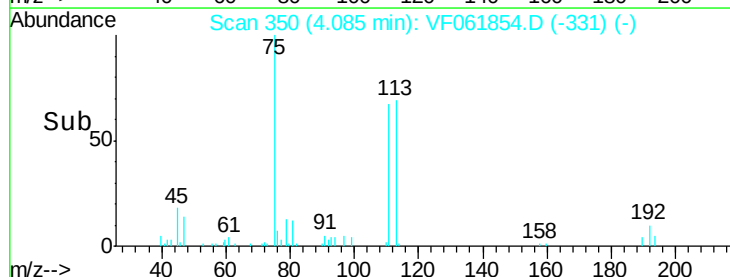
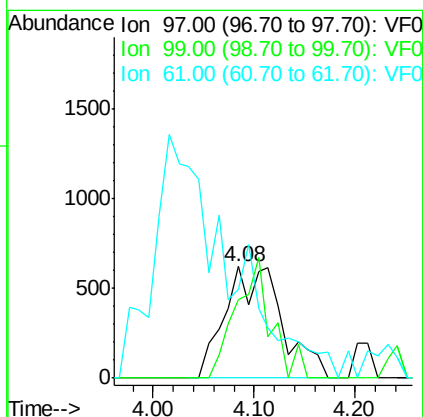
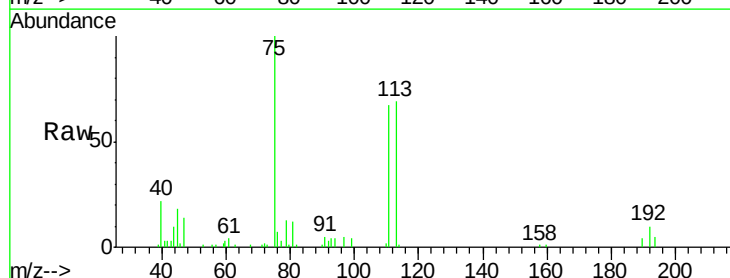
Tgt Ion: 97 Resp: 2434

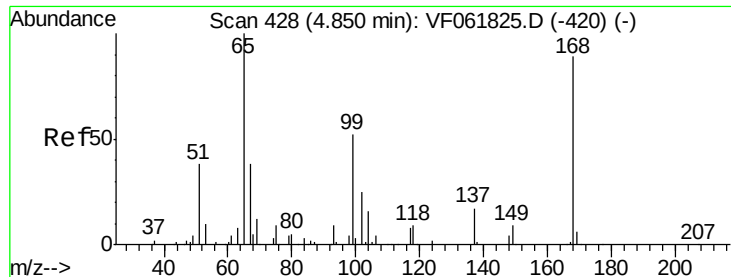
Ion Ratio Lower Upper

97 100

99 70.8 53.8 80.8

61 79.5 37.9 56.9#





#33

1,2-Dichloroethane-d4

Concen: 39.267 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.01 min

Lab File: VF061854.D

Acq: 5 Mar 2019 19:29

Instrument :

MSVOA_F

ClientSampleId :

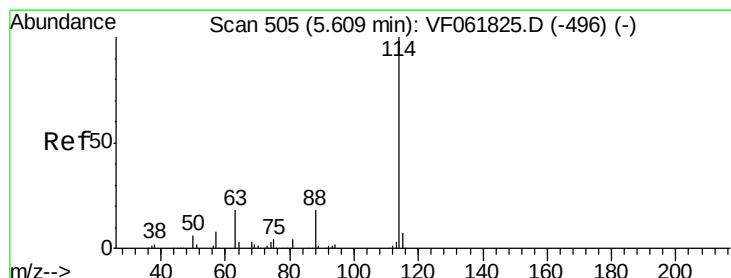
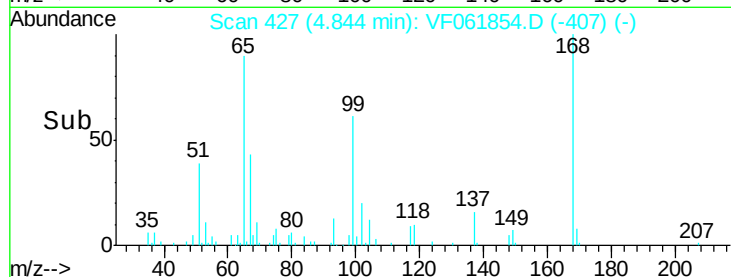
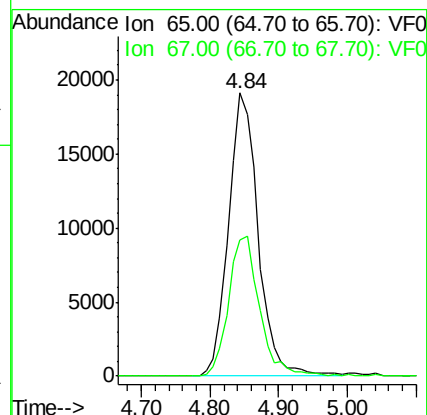
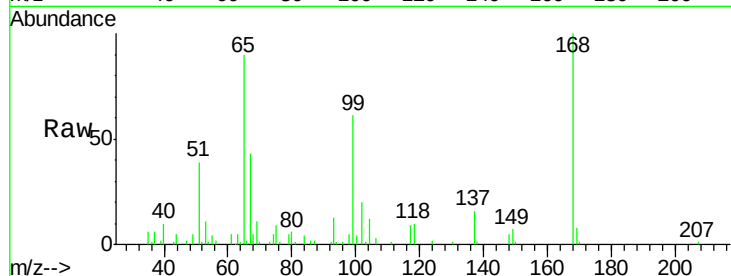
S11

Tot Ion: 65 Resp: 57213

Ion Ratio Lower Upper

65 100

67 48.1 0.0 108.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.02 min

Lab File: VF061854.D

Acq: 5 Mar 2019 19:29

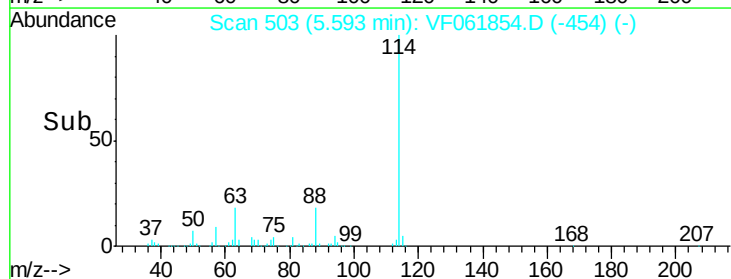
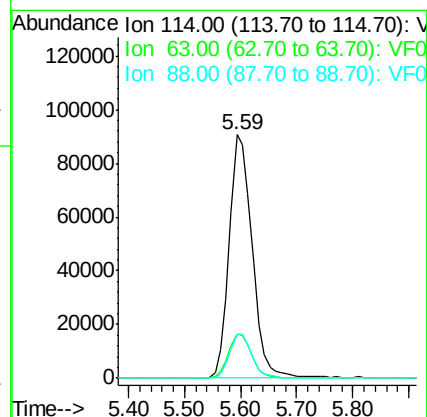
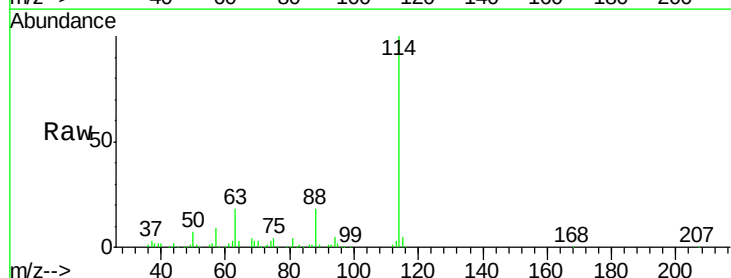
Tgt Ion: 114 Resp: 259397

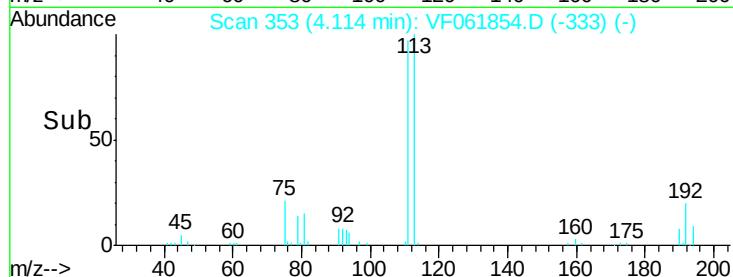
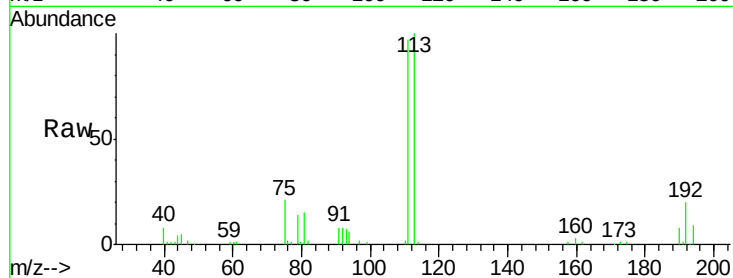
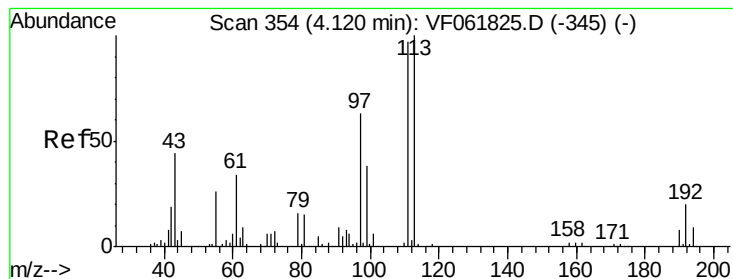
Ion Ratio Lower Upper

114 100

63 18.2 0.0 35.6

88 17.8 0.0 35.6





#35

Dibromofluoromethane

Concen: 47.038 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.01 min

Lab File: VF061854.D

Acq: 5 Mar 2019 19:29

Instrument :

MSVOA_F

ClientSampleId :

S11

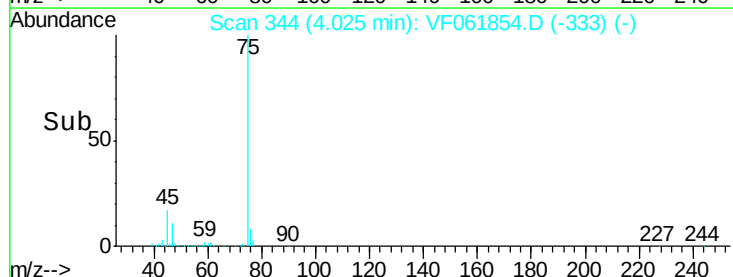
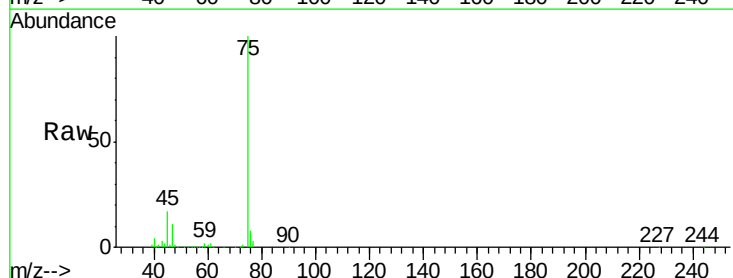
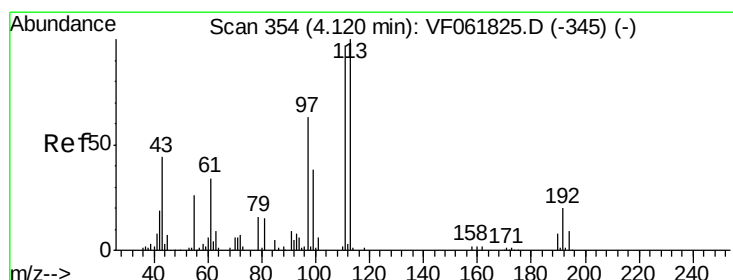
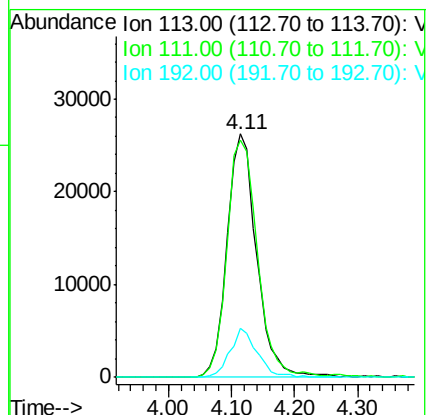
Tot Ion:113 Resp: 85151

Ion Ratio Lower Upper

113 100

111 97.4 77.6 116.4

192 20.2 15.9 23.9



#37

Ethyl Acetate

Concen: 7.148 ug/l

RT: 4.03 min Scan# 344

Delta R.T. -0.10 min

Lab File: VF061854.D

Acq: 5 Mar 2019 19:29

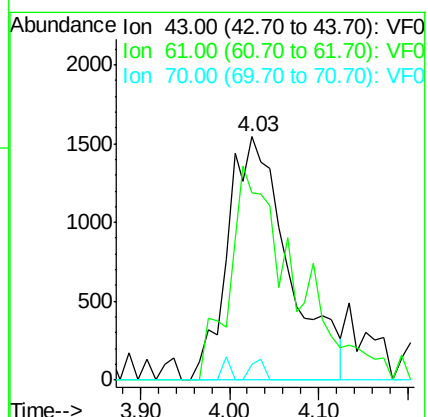
Tgt Ion: 43 Resp: 7352

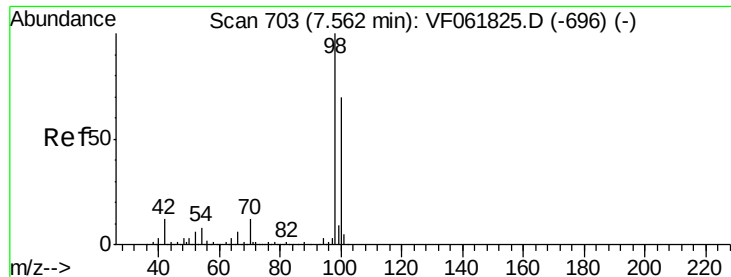
Ion Ratio Lower Upper

43 100

61 77.0 60.7 91.1

70 6.6 10.6 15.8#





#50

Toluene-d8

Concen: 27.409 ug/l

RT: 7.56 min Scan# 702

Delta R.T. -0.01 min

Lab File: VF061854.D

Acq: 5 Mar 2019 19:29

Instrument :

MSVOA_F

ClientSampleId :

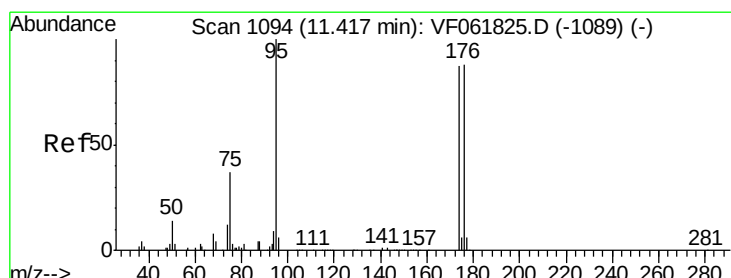
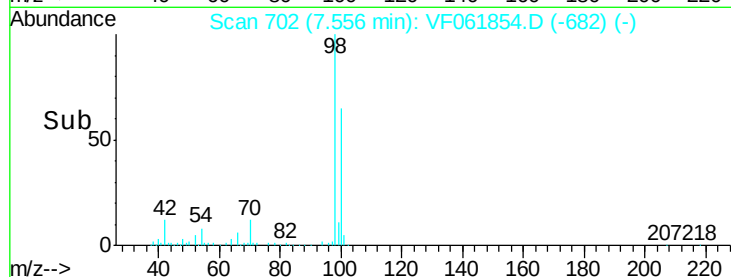
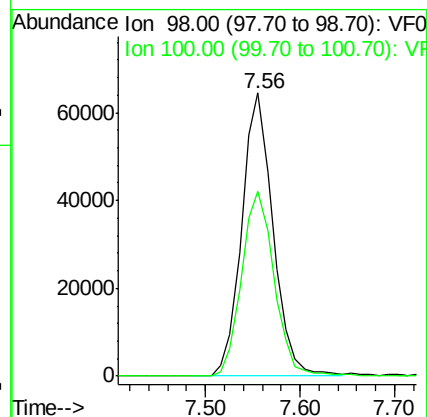
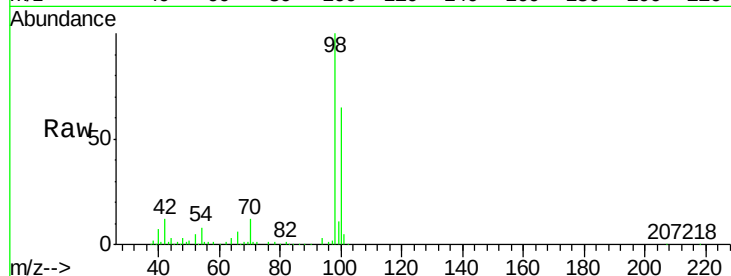
S11

Tot Ion: 98 Resp: 147475

Ion Ratio Lower Upper

98 100

100 65.1 56.0 84.0



#62

4-Bromofluorobenzene

Concen: 9.267 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF061854.D

Acq: 5 Mar 2019 19:29

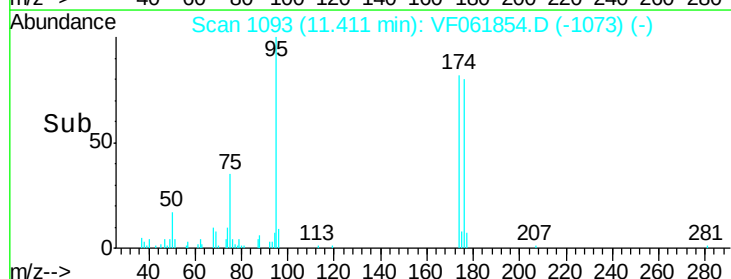
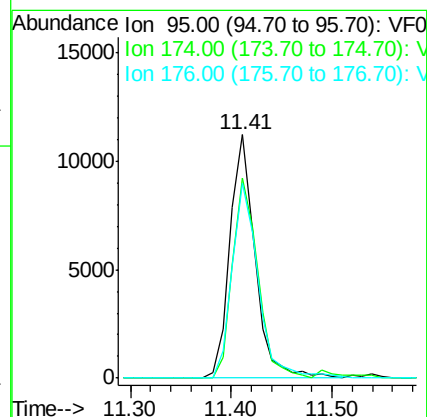
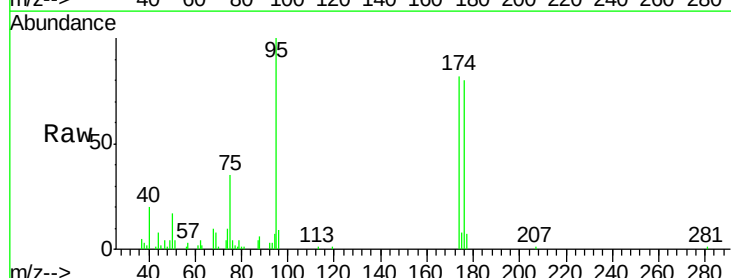
Tgt Ion: 95 Resp: 19532

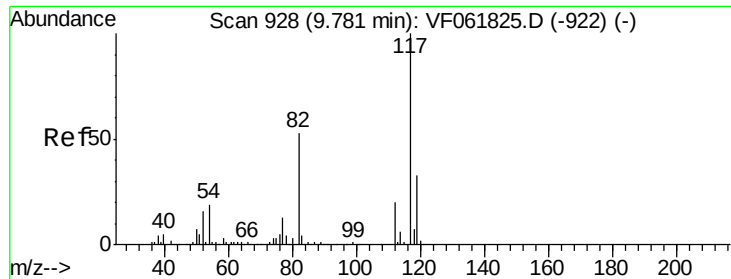
Ion Ratio Lower Upper

95 100

174 82.1 0.0 174.0

176 80.0 0.0 175.2

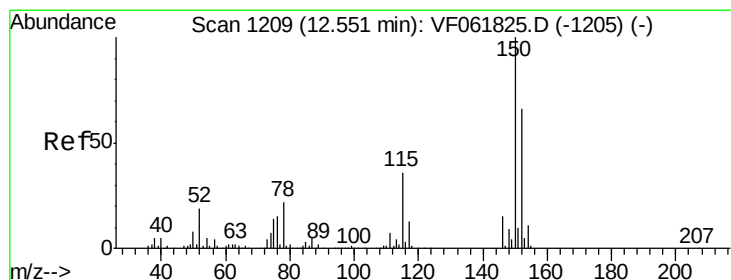
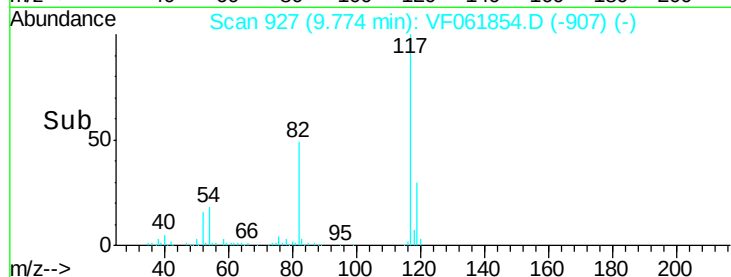
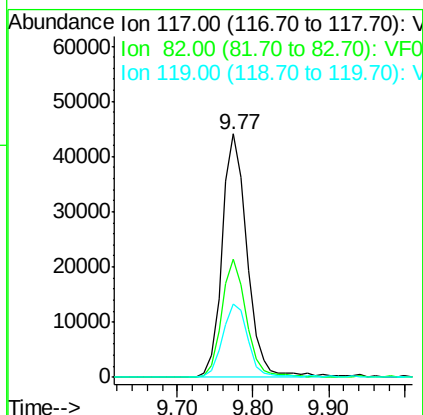
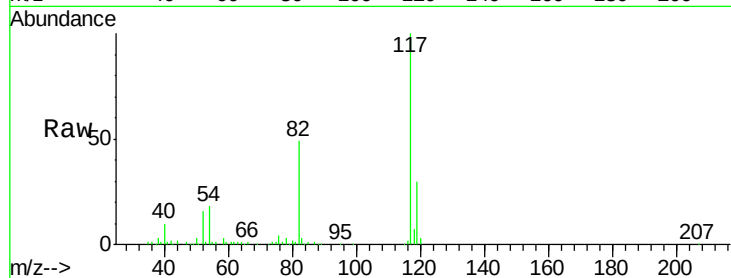




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.01 min
Lab File: VF061854.D
Acq: 5 Mar 2019 19:29

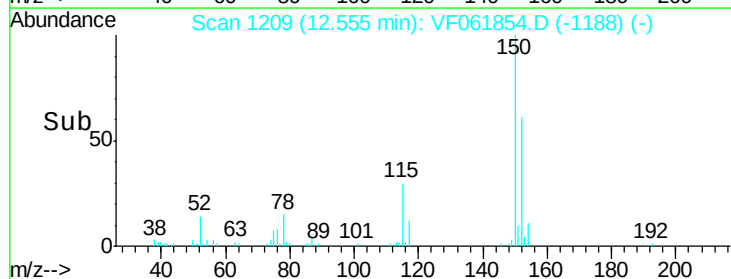
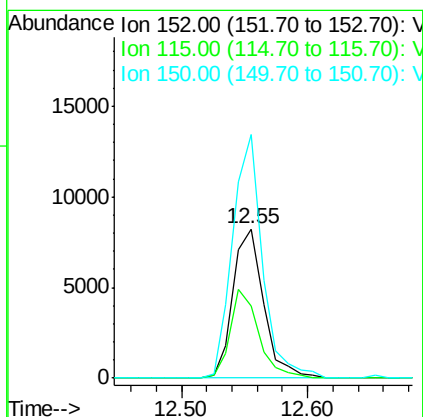
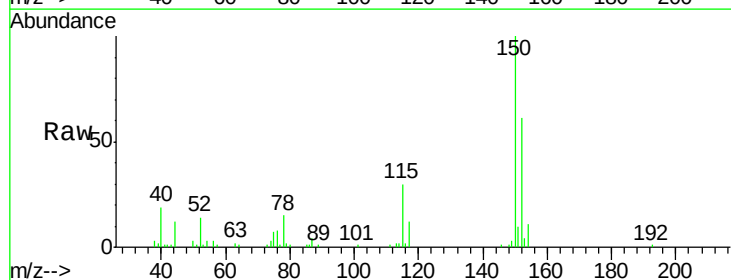
Instrument :
MSVOA_F
ClientSampled :
S11

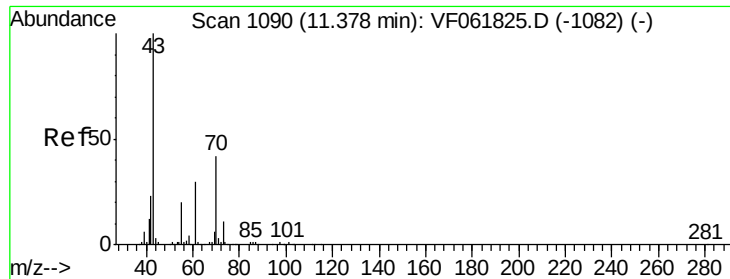
Tot Ion:117 Resp: 101298
Ion Ratio Lower Upper
117 100
82 48.7 42.6 63.8
119 30.0 26.0 39.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. 0.00 min
Lab File: VF061854.D
Acq: 5 Mar 2019 19:29

Tgt Ion:152 Resp: 13867
Ion Ratio Lower Upper
152 100
115 48.6 27.7 83.1
150 163.3 0.0 304.2





#74

N-amvl acetate

Concen: 1.674 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VF061854.D

Acq: 5 Mar 2019 19:29

Instrument :

MSVOA_F

ClientSampled :

S11

Tot Ion: 43 Resp: 368

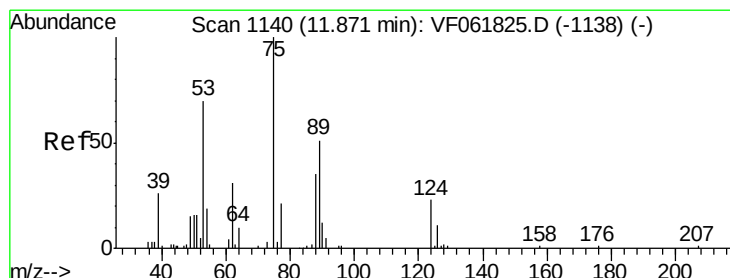
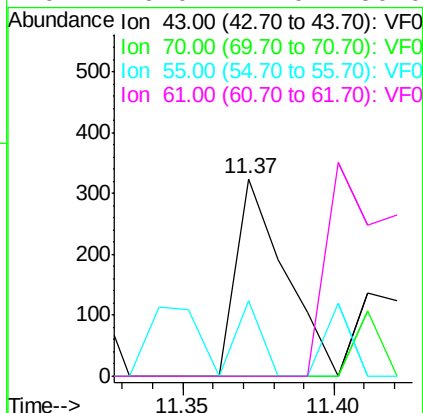
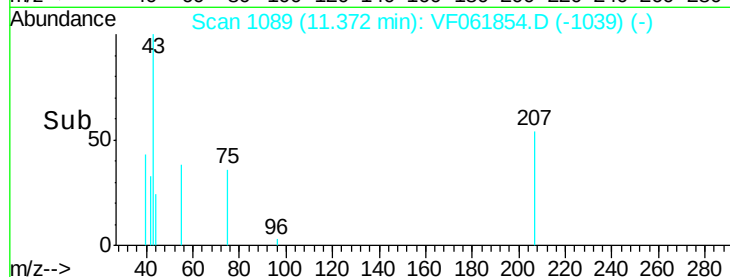
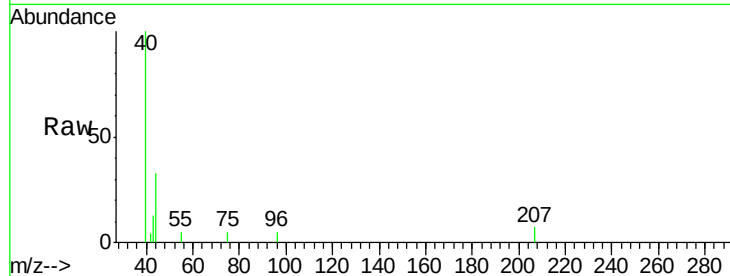
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.0#

55 38.0 16.3 24.5#

61 0.0 24.0 36.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 1.252 ug/l

RT: 11.81 min Scan# 1133

Delta R.T. -0.07 min

Lab File: VF061854.D

Acq: 5 Mar 2019 19:29

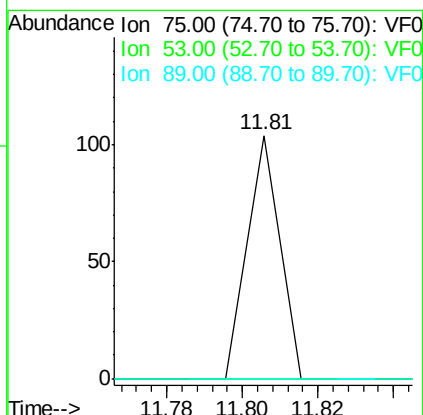
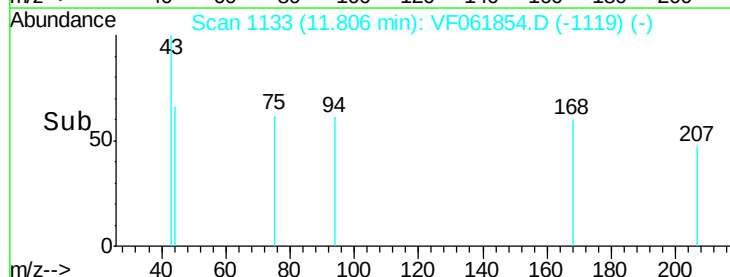
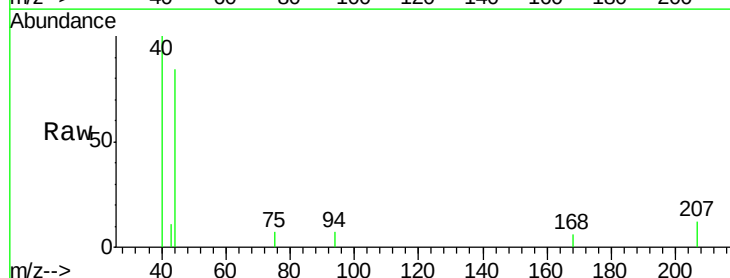
Tgt Ion: 75 Resp: 62

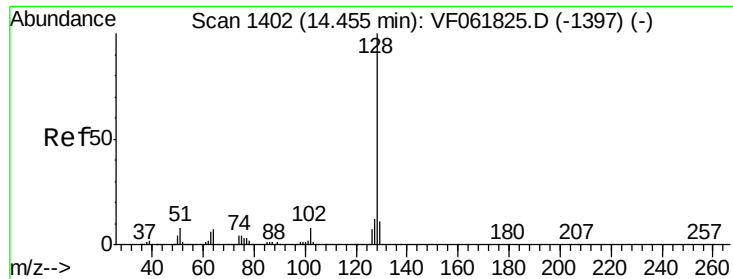
Ion Ratio Lower Upper

75 100

53 0.0 58.6 88.0#

89 0.0 41.4 62.0#

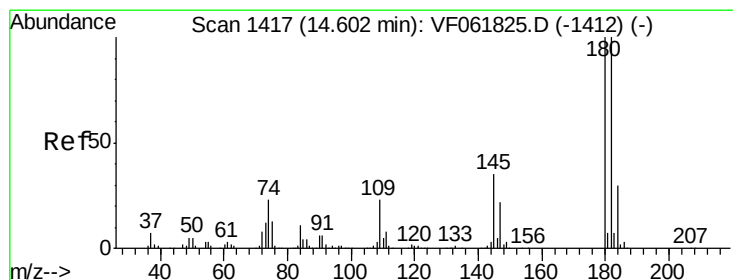
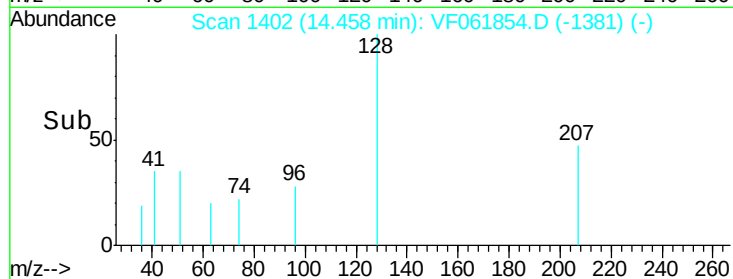
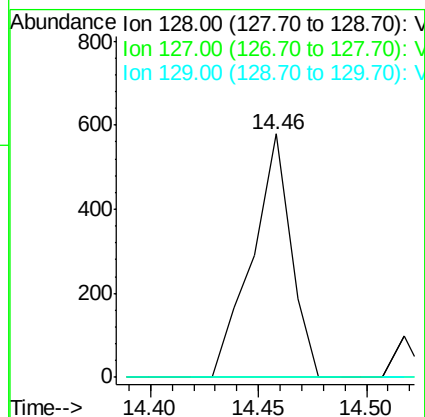
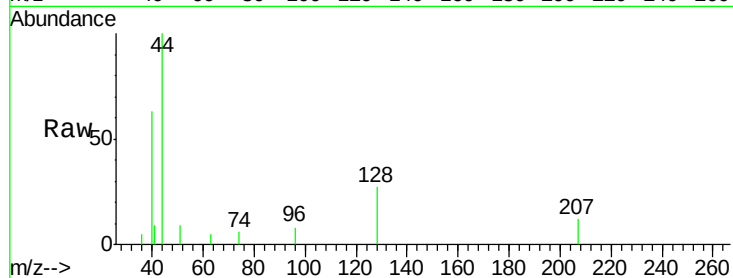




#95
Naphthalene
Concen: 1.399 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. 0.00 min
Lab File: VF061854.D
Acq: 5 Mar 2019 19:29

Instrument :
MSVOA_F
ClientSampleId :
S11

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	9.3	13.9#
129	0.0	8.8	13.2#



#96
1,2,3-Trichlorobenzene
Concen: 1.002 ug/l
RT: 14.61 min Scan# 1417
Delta R.T. 0.00 min
Lab File: VF061854.D
Acq: 5 Mar 2019 19:29

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	50.2	150.7#
145	61.1	17.5	52.5#

