

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF020819\
 Data File : VF061573.D
 Acq On : 8 Feb 2019 22:35
 Operator : VA/AP
 Sample : K1424-01RE
 Misc : 4.42g/5mL/MSVOA-F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SS2-RB200035RE

Quant Time: Feb 09 04:33:53 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	4.86	168	55391	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.58	114	86105	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.76	117	51400	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.54	152	15223	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	20667	30.22	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	60.44%	
35) Dibromofluoromethane	4.09	113	25814	37.99	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	75.98%	
50) Toluene-d8	7.54	98	54830	29.45	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	58.90%	
62) 4-Bromofluorobenzene	11.40	95	16332	18.78	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	37.56%	

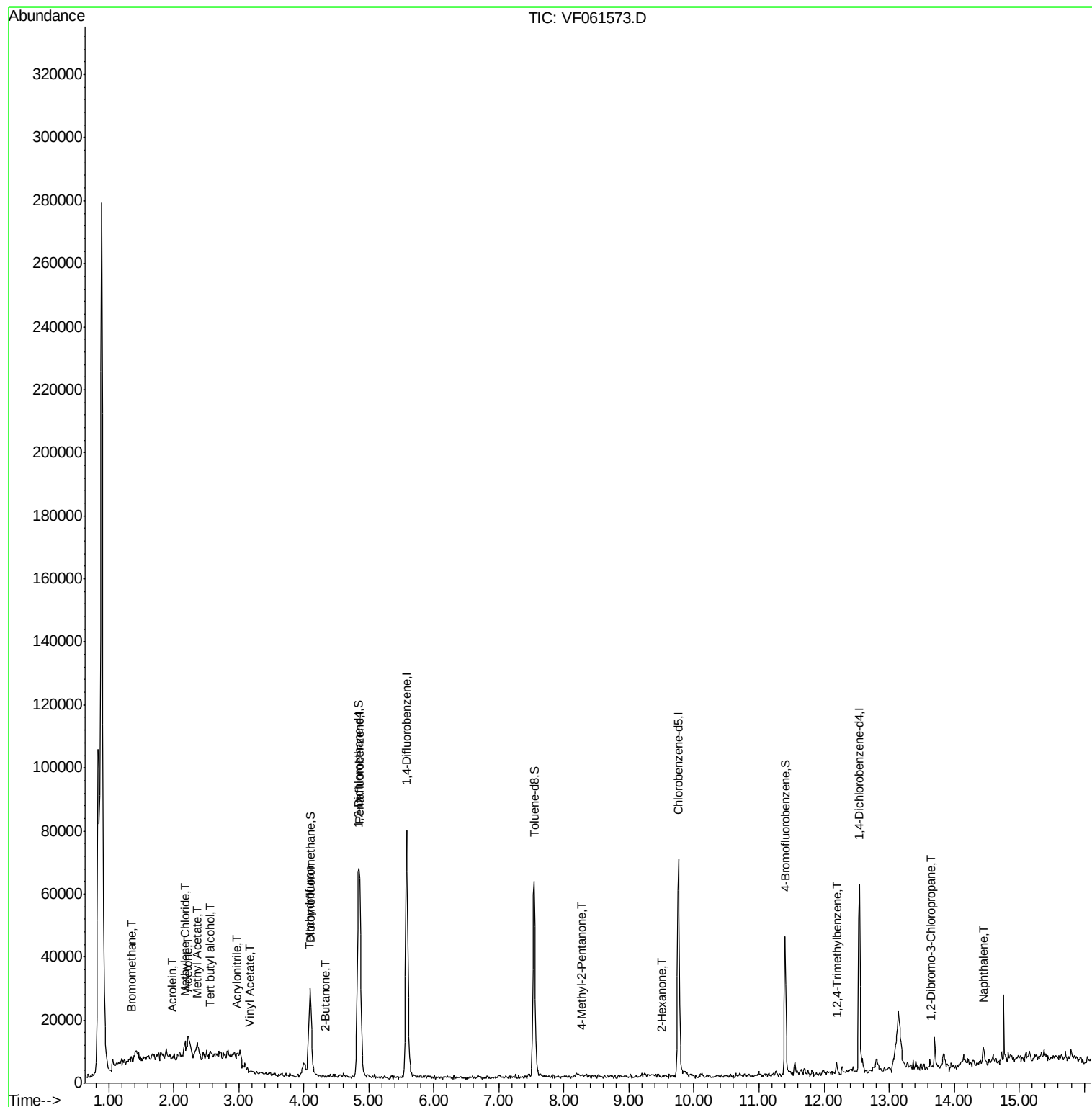
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.34	94	505	1.091	ug/l #	2
11) Tert butyl alcohol	2.55	59	182	6.287	ug/l #	64
13) Acrolein	1.97	56	341	23.448	ug/l #	64
14) Allyl chloride	2.06	41	551	Below Cal	#	36
15) Acrylonitrile	2.97	53	358	4.828	ug/l #	1
16) Acetone	2.23	43	9757	71.119	ug/l	94
18) Methyl Acetate	2.36	43	3218	11.828	ug/l #	61
20) Methylene Chloride	2.19	84	1870	2.340	ug/l #	48
23) Vinyl Acetate	3.16	43	846	4.277	ug/l #	78
25) 2-Butanone	4.33	43	1091	4.782	ug/l #	57
29) Tetrahydrofuran	4.08	42	346	3.522	ug/l #	68
51) 4-Methyl-2-Pentanone	8.26	43	551	1.496	ug/l #	39
59) 2-Hexanone	9.51	43	471	1.834	ug/l #	26
84) 1,2,4-Trimethylbenzene	12.20	105	2043	1.985	ug/l	76
92) 1,2-Dibromo-3-Chloropropan	13.65	75	124	3.170	ug/l #	1
95) Naphthalene	14.45	128	988	1.518	ug/l #	71

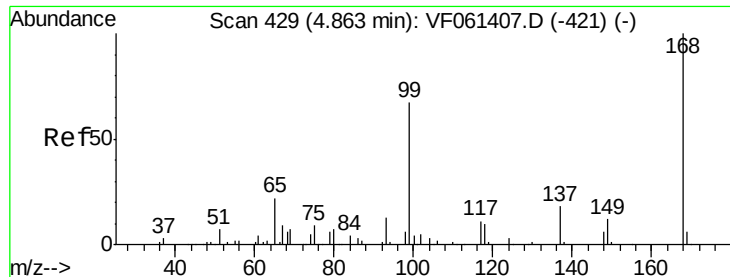
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.00 min

Lab File: VF061573.D

Acq: 8 Feb 2019 22:35

Instrument :

MSVOA_F

ClientSampleId :

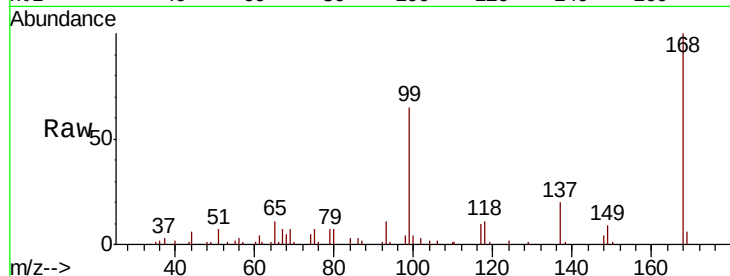
SS2-RB200035RE

Tgt Ion: 168 Resp: 55391

Ion Ratio Lower Upper

168 100

99 65.1 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

20000

15000

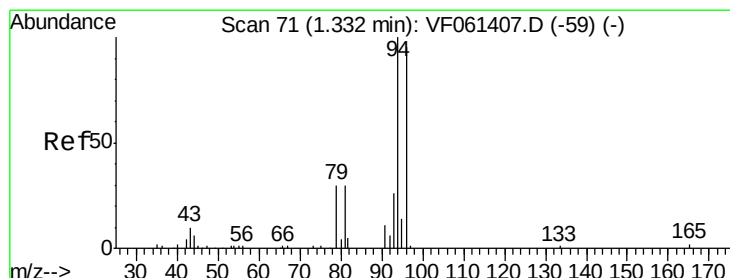
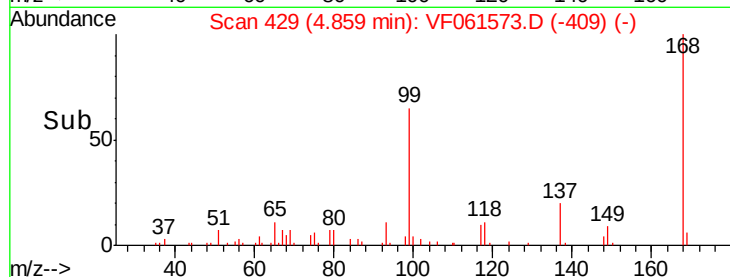
10000

5000

0

Time-->

4.70 4.80 4.90 5.00



#5

Bromomethane

Concen: 1.091 ug/l

RT: 1.34 min Scan# 72

Delta R.T. 0.01 min

Lab File: VF061573.D

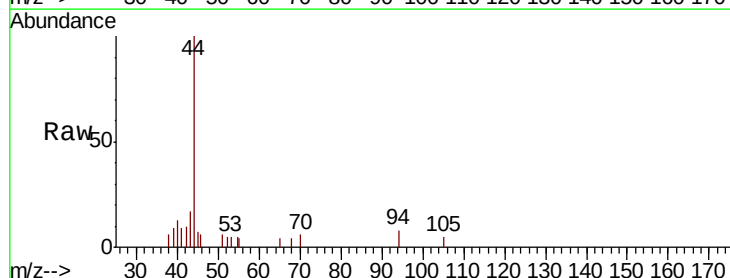
Acq: 8 Feb 2019 22:35

Tgt Ion: 94 Resp: 505

Ion Ratio Lower Upper

94 100

96 0.0 76.0 114.0#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.34

300

250

200

150

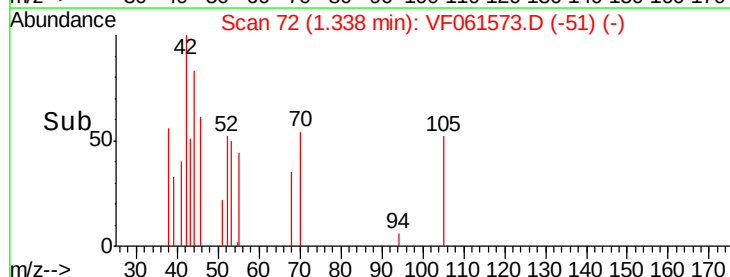
100

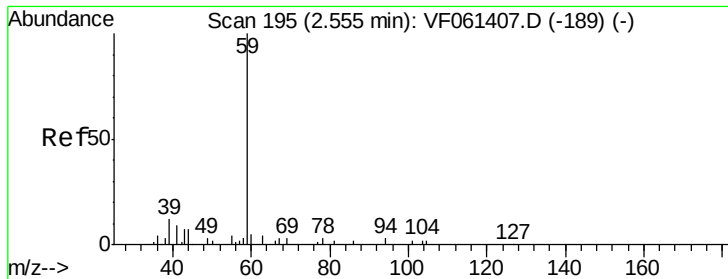
50

0

Time-->

1.30 1.32 1.34 1.36 1.38

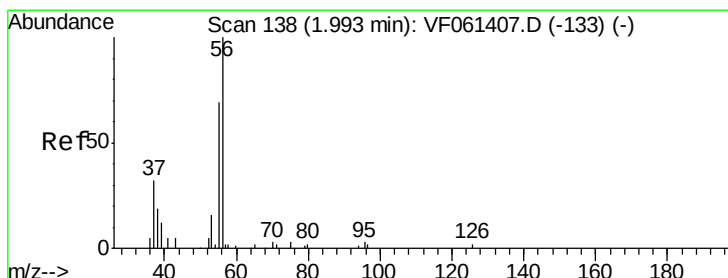
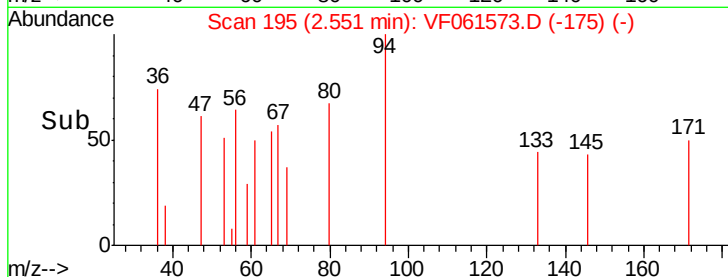
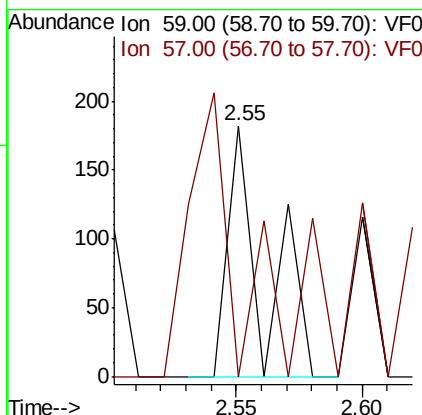
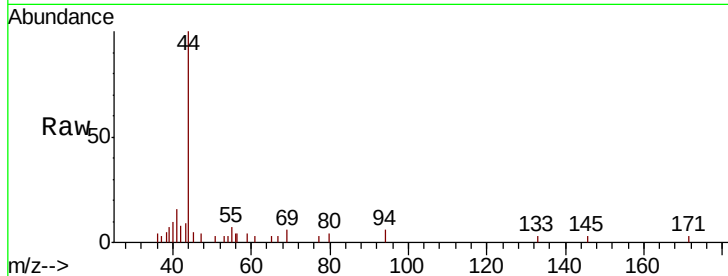




#11
Tert butyl alcohol
Concen: 6.287 ug/l
RT: 2.55 min Scan# 195
Delta R.T. -0.00 min
Lab File: VF061573.D
Acq: 8 Feb 2019 22:35

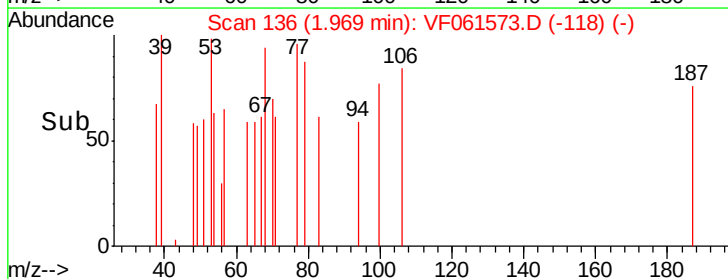
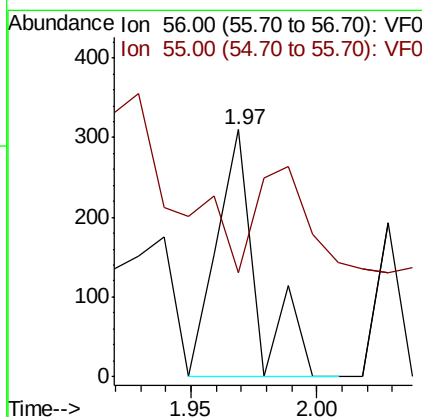
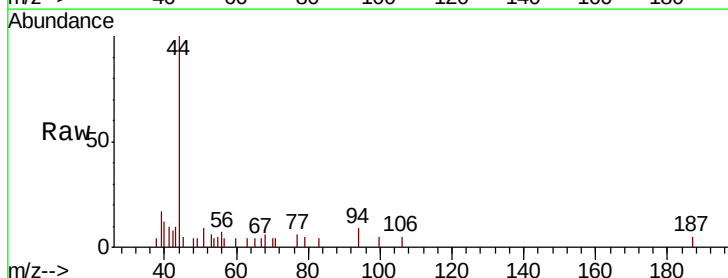
Instrument :
MSVOA_F
ClientSampleId :
SS2-RB200035RE

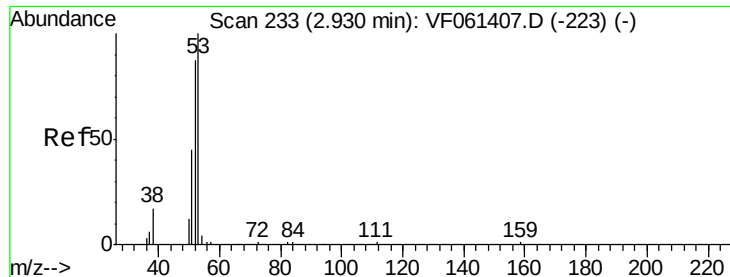
Tgt Ion: 59 Resp: 182
Ion Ratio Lower Upper
59 100
57 0.0 11.9 17.9#



#13
Acrolein
Concen: 23.448 ug/l
RT: 1.97 min Scan# 136
Delta R.T. -0.02 min
Lab File: VF061573.D
Acq: 8 Feb 2019 22:35

Tgt Ion: 56 Resp: 341
Ion Ratio Lower Upper
56 100
55 42.3 57.5 86.3#





#15

Acrylonitrile

Concen: 4.828 ug/l

RT: 2.97 min Scan# 237

Delta R.T. 0.04 min

Lab File: VF061573.D

Acq: 8 Feb 2019 22:35

Instrument :

MSVOA_F

ClientSampleId :

SS2-RB200035RE

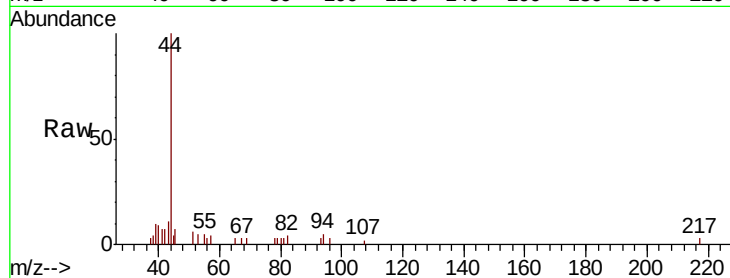
Tgt Ion: 53 Resp: 358

Ion Ratio Lower Upper

53 100

52 0.0 69.6 104.4#

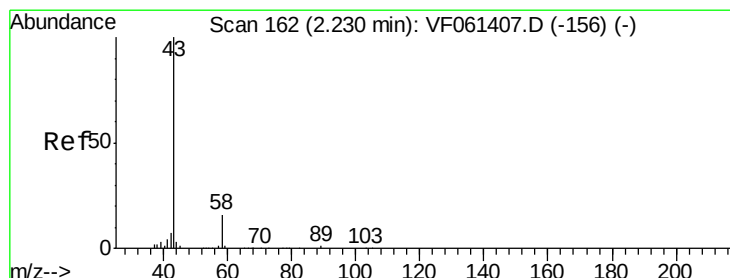
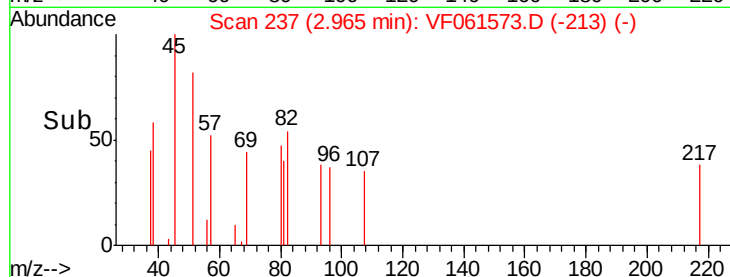
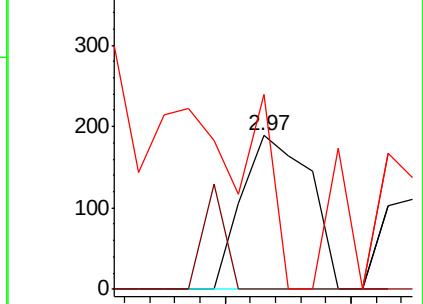
51 127.0 36.8 55.2#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 71.119 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.00 min

Lab File: VF061573.D

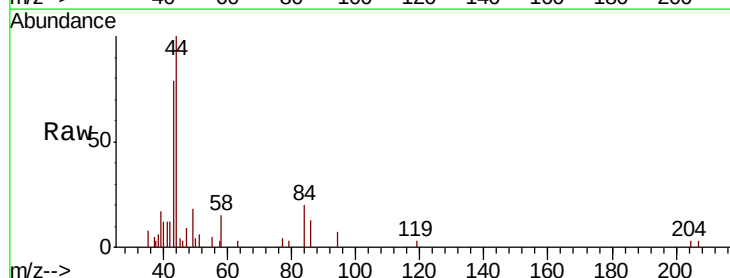
Acq: 8 Feb 2019 22:35

Tgt Ion: 43 Resp: 9757

Ion Ratio Lower Upper

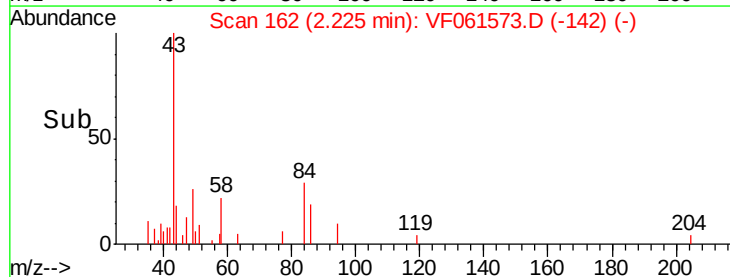
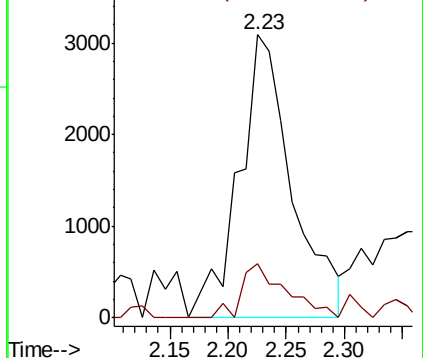
43 100

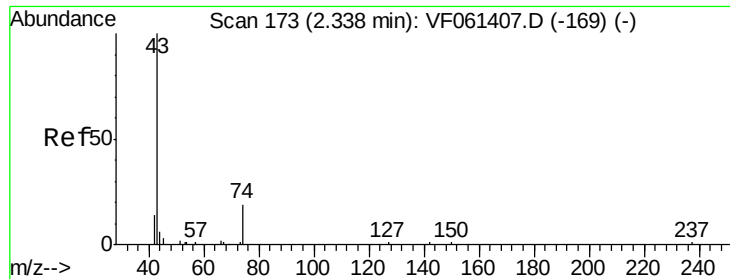
58 19.1 13.3 19.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

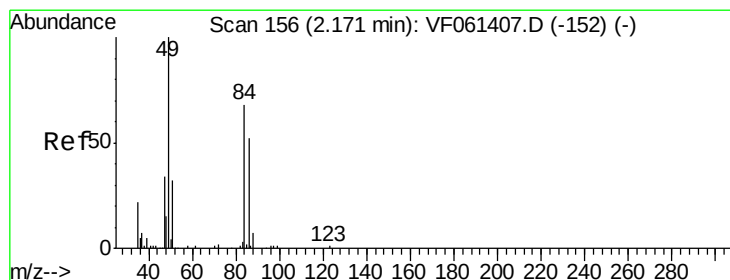
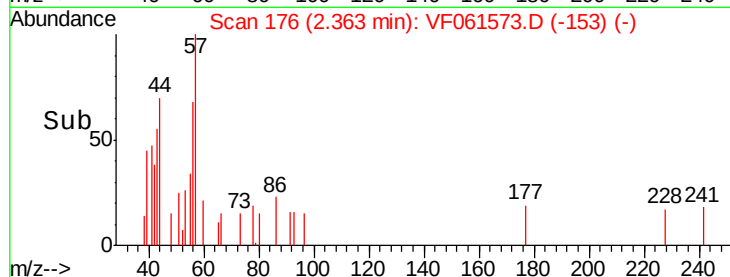
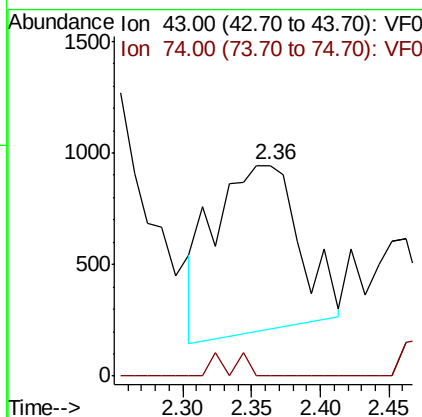
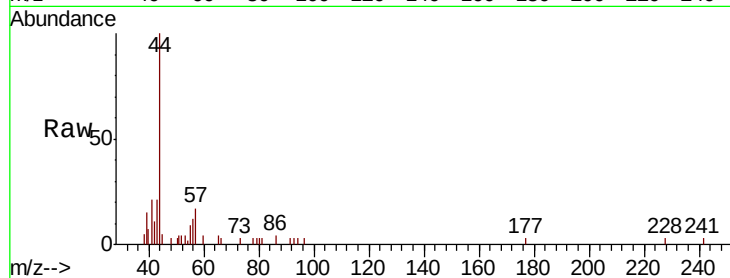




#18
Methyl Acetate
Concen: 11.828 ug/l
RT: 2.36 min Scan# 176
Delta R.T. 0.03 min
Lab File: VF061573.D
Acq: 8 Feb 2019 22:35

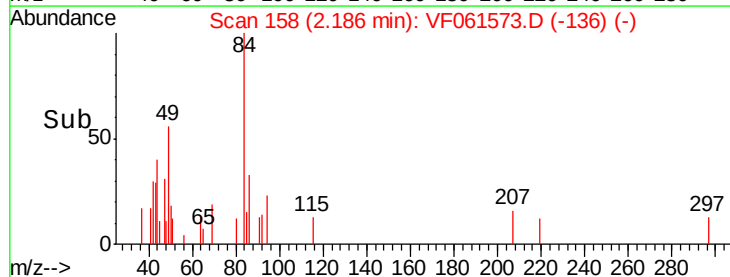
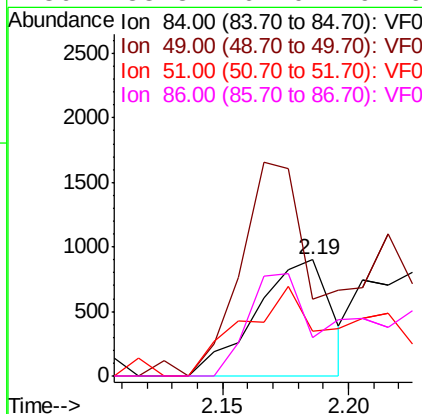
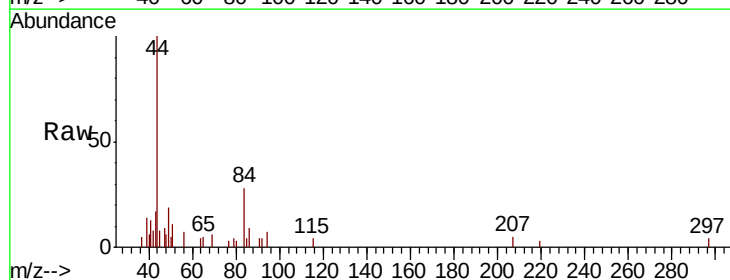
Instrument :
MSVOA_F
ClientSampleId :
SS2-RB200035RE

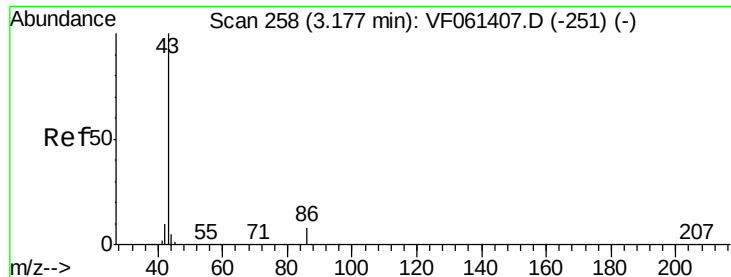
Tgt Ion: 43 Resp: 3218
Ion Ratio Lower Upper
43 100
74 0.0 13.4 20.0#



#20
Methylene Chloride
Concen: 2.340 ug/l
RT: 2.19 min Scan# 158
Delta R.T. 0.02 min
Lab File: VF061573.D
Acq: 8 Feb 2019 22:35

Tgt Ion: 84 Resp: 1870
Ion Ratio Lower Upper
84 100
49 66.7 120.0 180.0#
51 38.9 38.6 58.0
86 33.3 61.0 91.6#





#23

Vinyl Acetate

Concen: 4.277 ug/l

RT: 3.16 min Scan# 257

Delta R.T. -0.01 min

Lab File: VF061573.D

Acq: 8 Feb 2019 22:35

Instrument :

MSVOA_F

ClientSampleId :

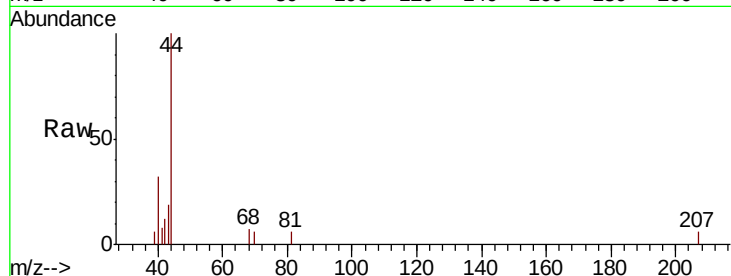
SS2-RB200035RE

Tgt Ion: 43 Resp: 846

Ion Ratio Lower Upper

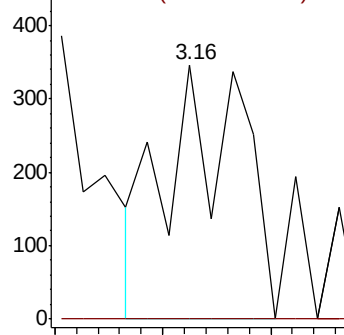
43 100

86 0.0 6.2 9.4#

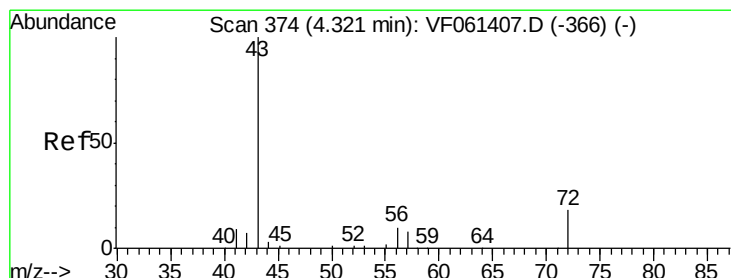
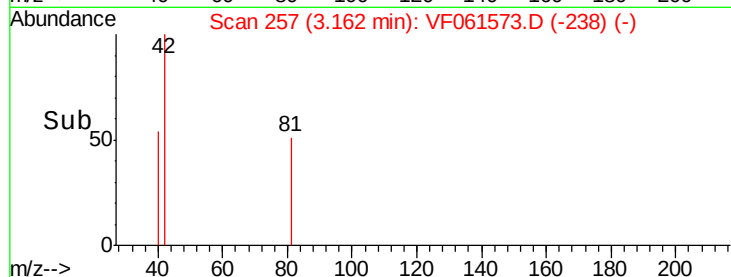


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



Time--> 3.10 3.15 3.20



#25

2-Butanone

Concen: 4.782 ug/l

RT: 4.33 min Scan# 375

Delta R.T. 0.01 min

Lab File: VF061573.D

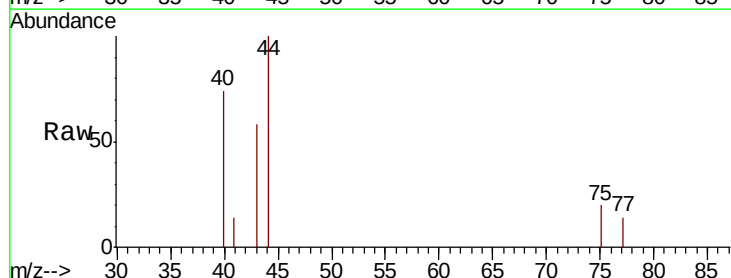
Acq: 8 Feb 2019 22:35

Tgt Ion: 43 Resp: 1091

Ion Ratio Lower Upper

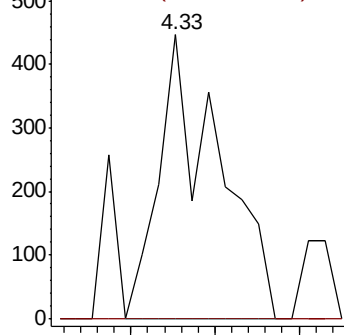
43 100

72 0.0 15.8 23.6#

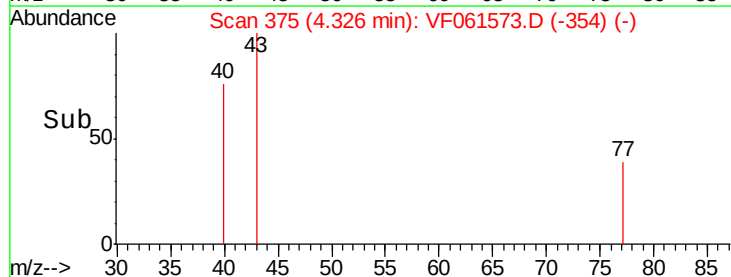


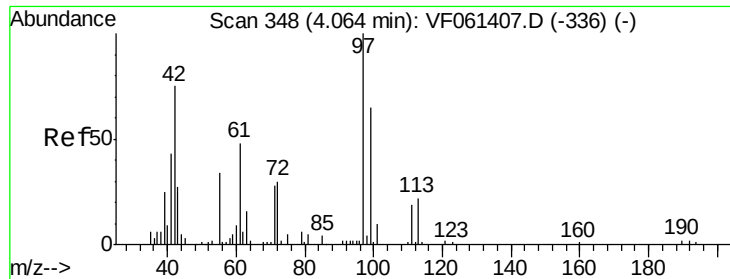
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



Time--> 4.30 4.35 4.40





#29

Tetrahydrofuran

Concen: 3.522 ug/l

RT: 4.08 min Scan# 350

Delta R.T. 0.02 min

Lab File: VF061573.D

Acq: 8 Feb 2019 22:35

Instrument :

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ClientSampleId :

SS2-RB200035RE

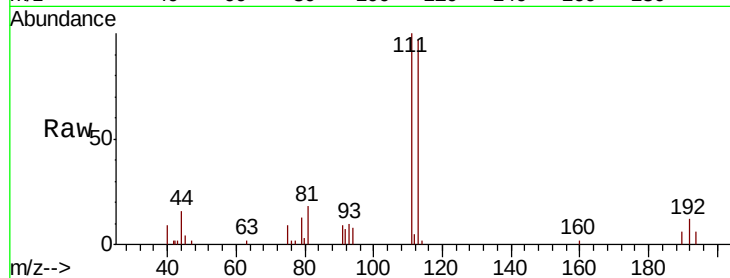
Tgt Ion: 42 Resp: 346

Ion Ratio Lower Upper

42 100

72 35.0 28.9 43.3

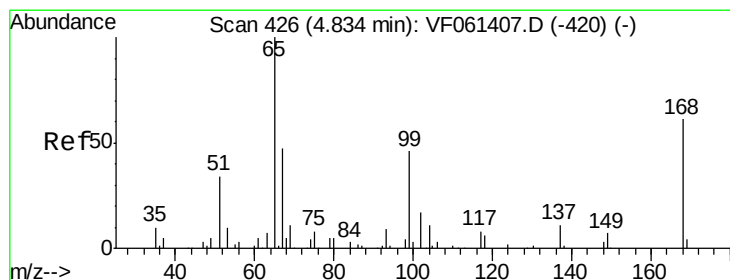
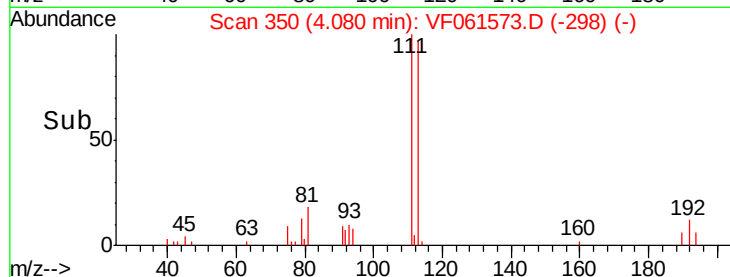
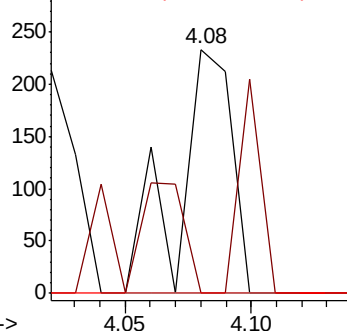
71 0.0 29.6 44.4#



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: 30.220 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.00 min

Lab File: VF061573.D

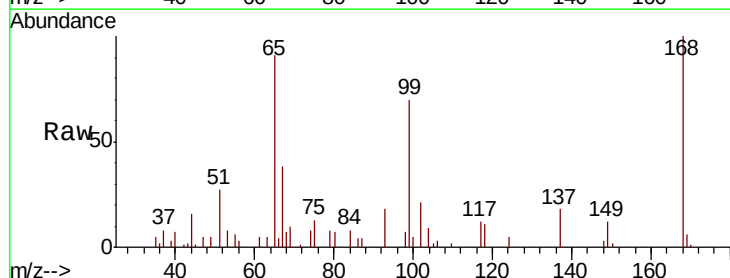
Acq: 8 Feb 2019 22:35

Tgt Ion: 65 Resp: 20667

Ion Ratio Lower Upper

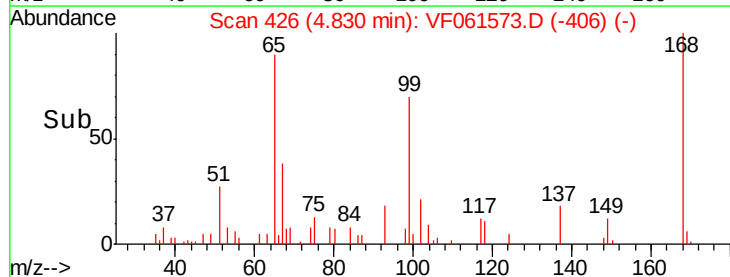
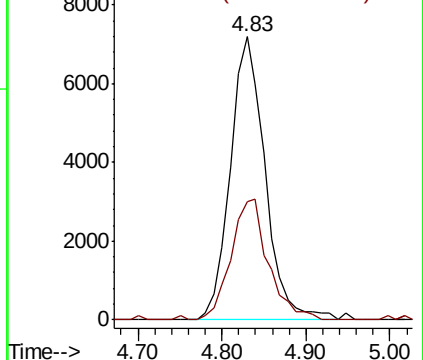
65 100

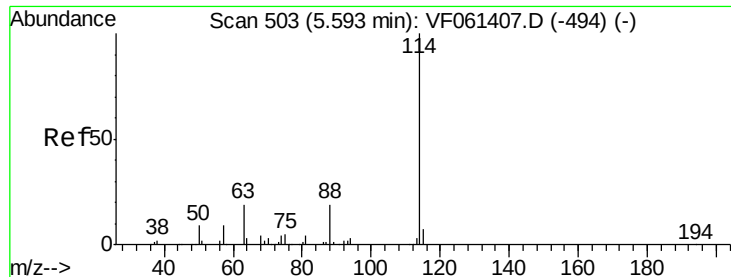
67 42.0 0.0 99.8



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: VF061573.D

Acq: 8 Feb 2019 22:35

Instrument :

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ClientSampleId :

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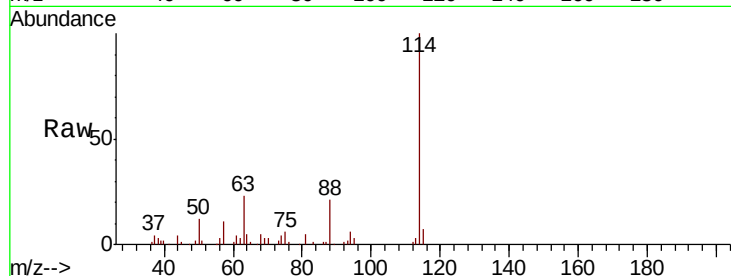
Tgt Ion:114 Resp: 86105

Ion Ratio Lower Upper

114 100

63 23.5 0.0 39.0

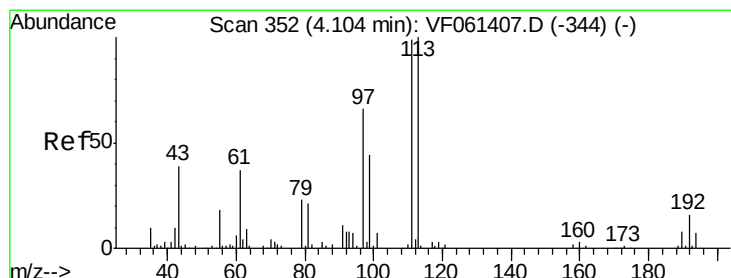
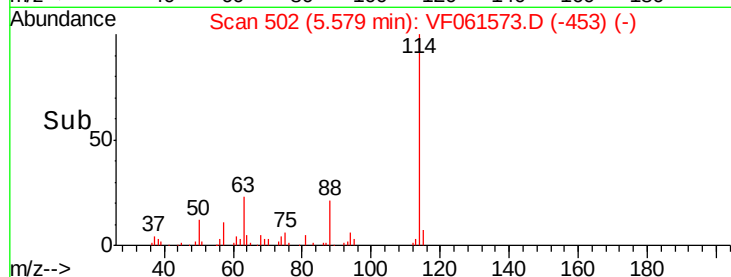
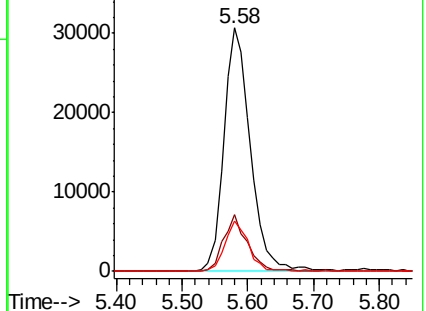
88 20.9 0.0 37.4



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: 37.993 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.01 min

Lab File: VF061573.D

Acq: 8 Feb 2019 22:35

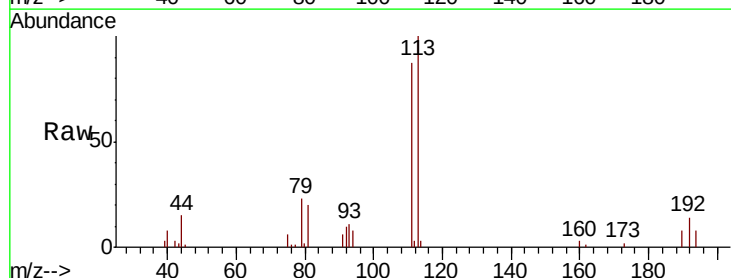
Tgt Ion:113 Resp: 25814

Ion Ratio Lower Upper

113 100

111 86.6 79.4 119.0

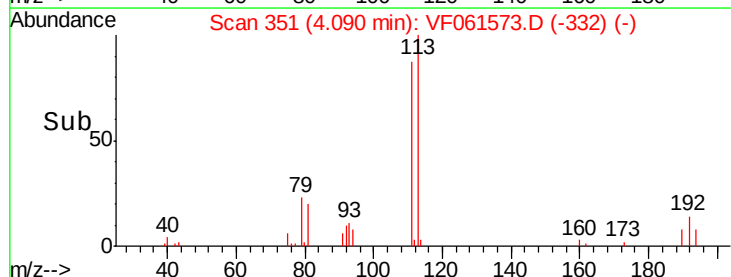
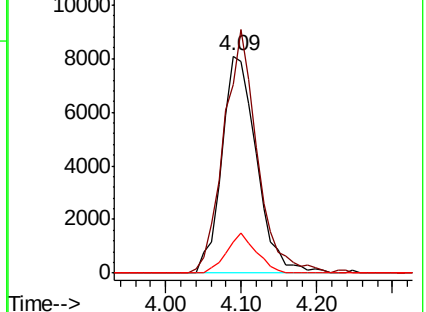
192 14.2 12.4 18.6

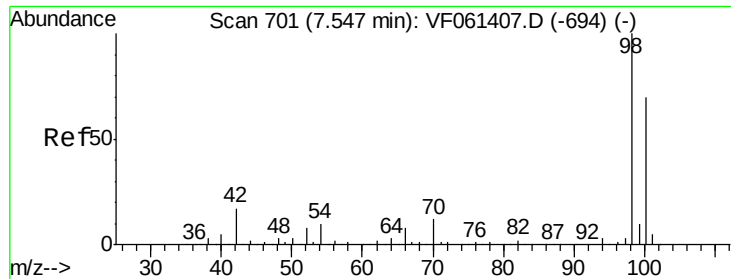


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

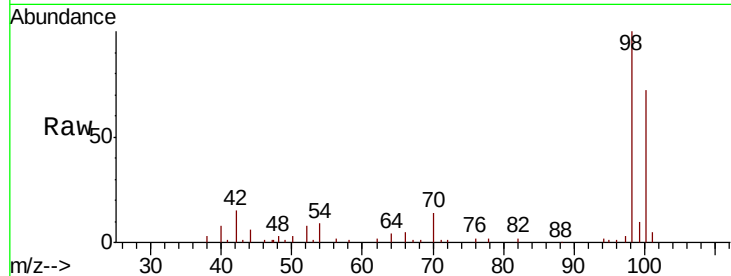




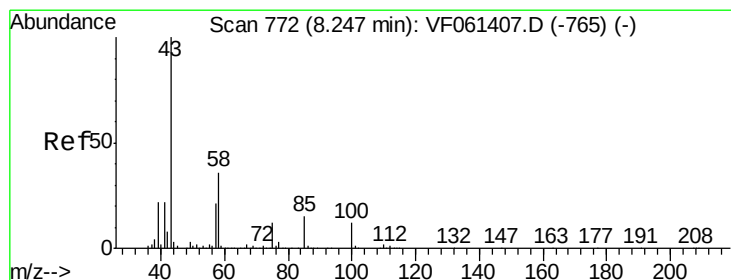
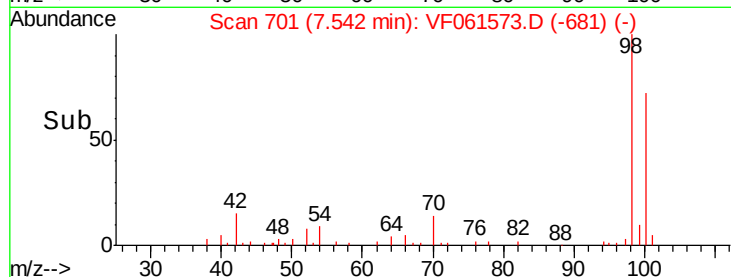
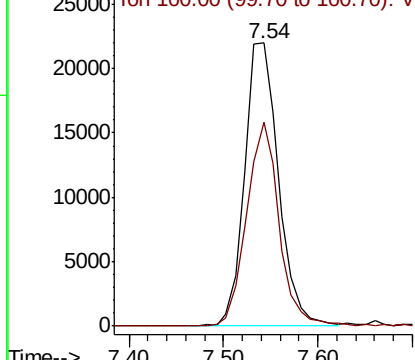
#50
Toluene-d8
Concen: 29.454 ug/l
RT: 7.54 min Scan# 701
Delta R.T. -0.00 min
Lab File: VF061573.D
Acq: 8 Feb 2019 22:35

Instrument :
MSVOA_F
ClientSampleId :
SS2-RB200035RE

Tgt Ion: 98 Resp: 54830
Ion Ratio Lower Upper
98 100
100 72.2 55.6 83.4

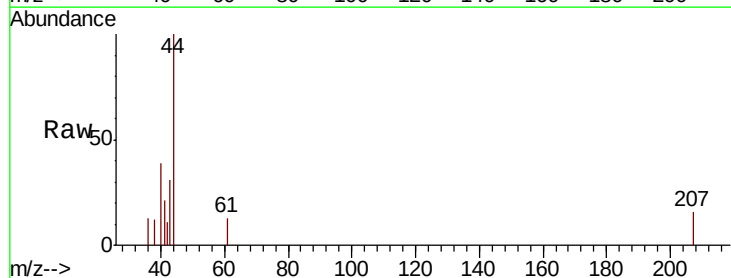


Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF0

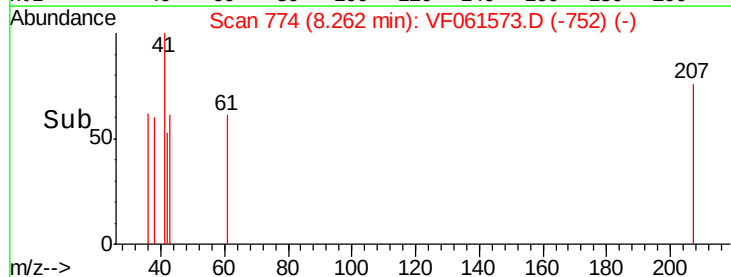
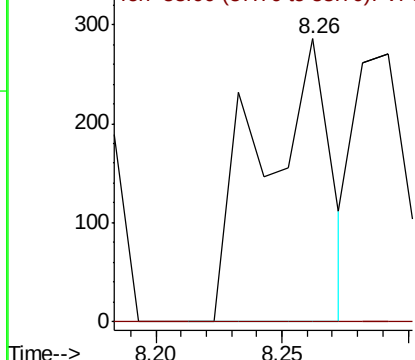


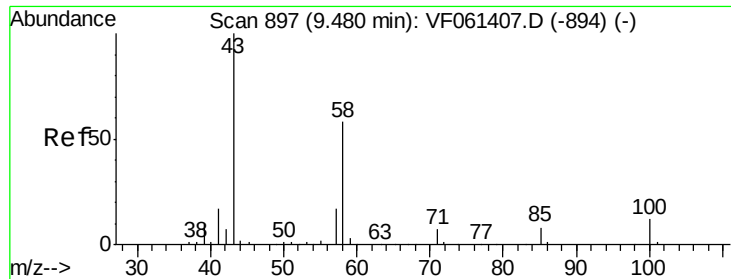
#51
4-Methyl-2-Pentanone
Concen: 1.496 ug/l
RT: 8.26 min Scan# 774
Delta R.T. 0.02 min
Lab File: VF061573.D
Acq: 8 Feb 2019 22:35

Tgt Ion: 43 Resp: 551
Ion Ratio Lower Upper
43 100
58 0.0 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: 1.834 ug/l

RT: 9.51 min Scan# 900

Delta R.T. 0.03 min

Lab File: VF061573.D

Acq: 8 Feb 2019 22:35

Instrument :

MSVOA_F

ClientSampleId :

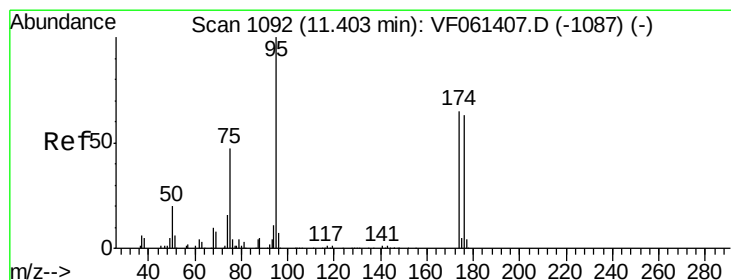
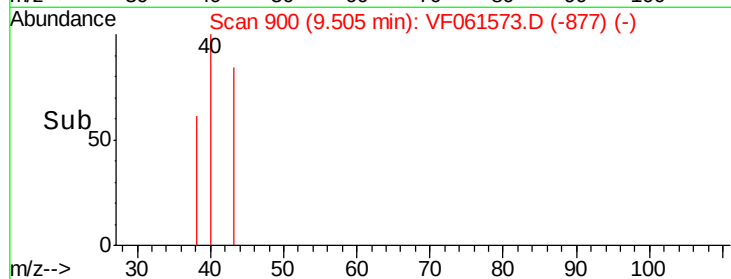
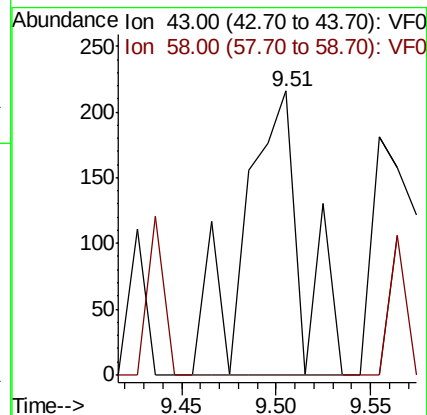
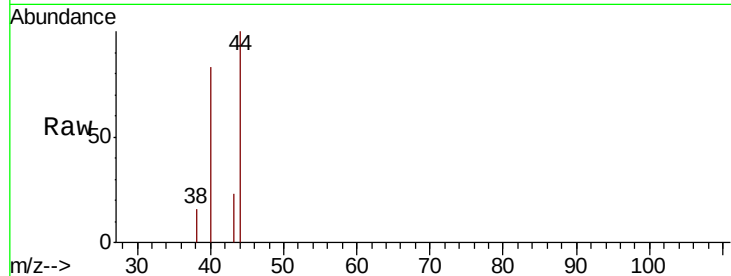
SS2-RB200035RE

Tgt Ion: 43 Resp: 471

Ion Ratio Lower Upper

43 100

58 0.0 25.9 77.6#



#62

4-Bromofluorobenzene

Concen: 18.777 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.00 min

Lab File: VF061573.D

Acq: 8 Feb 2019 22:35

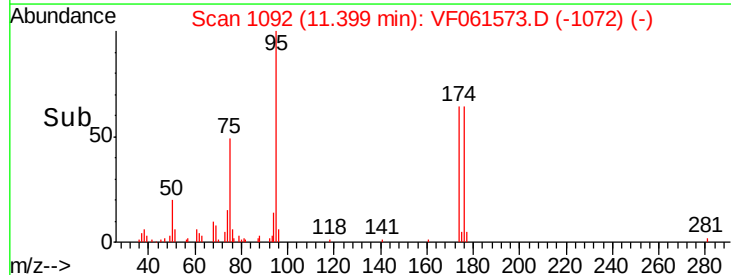
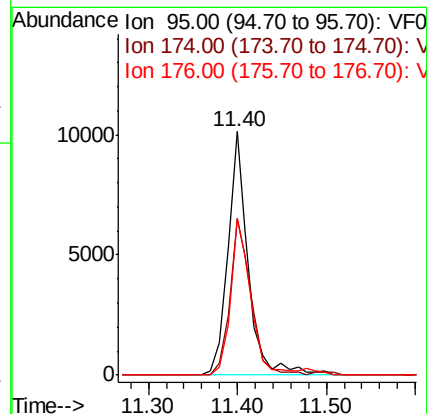
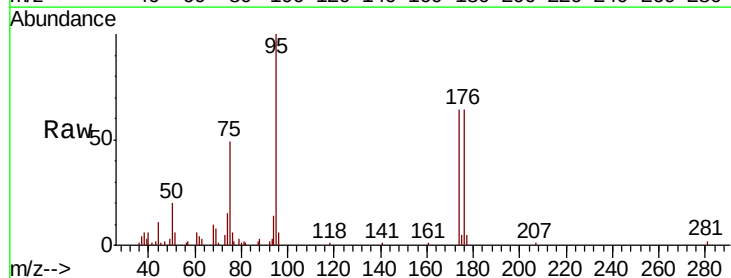
Tgt Ion: 95 Resp: 16332

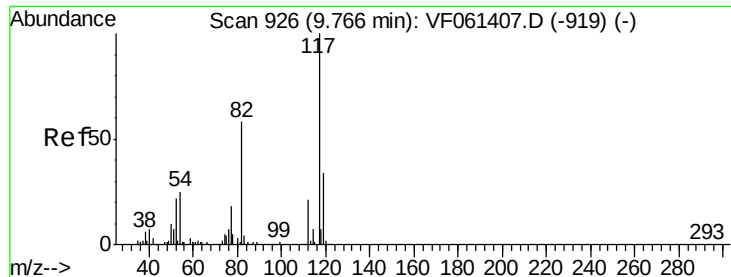
Ion Ratio Lower Upper

95 100

174 64.2 0.0 130.4

176 64.1 0.0 126.2

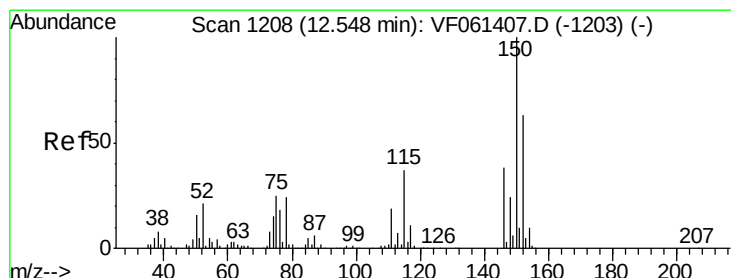
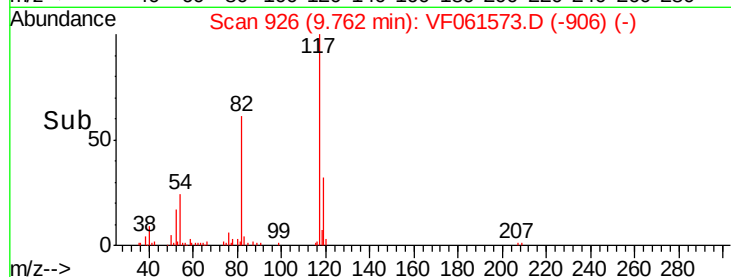
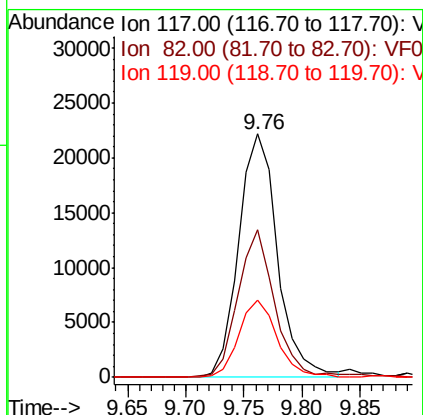
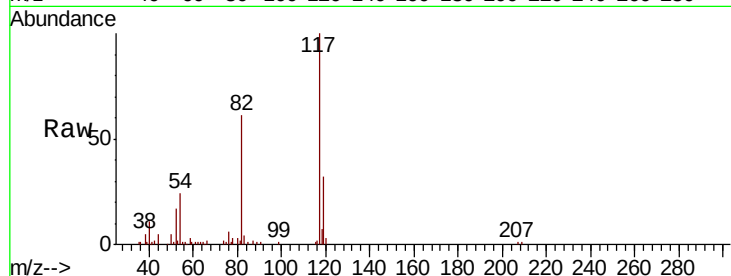




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.00 min
Lab File: VF061573.D
Acq: 8 Feb 2019 22:35

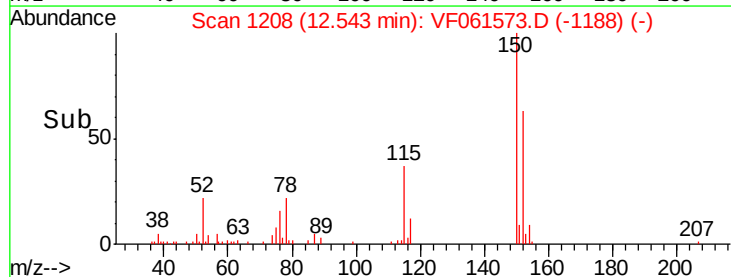
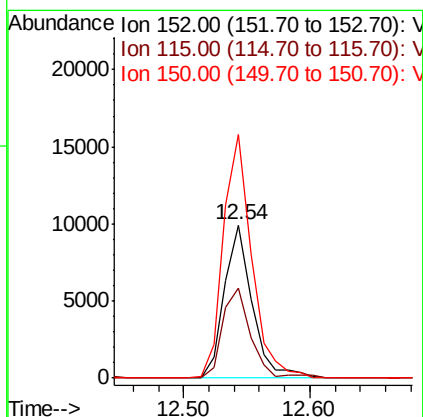
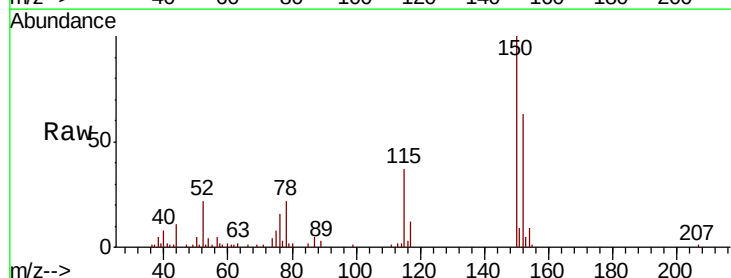
Instrument :
MSVOA_F
ClientSampleId :
SS2-RB200035RE

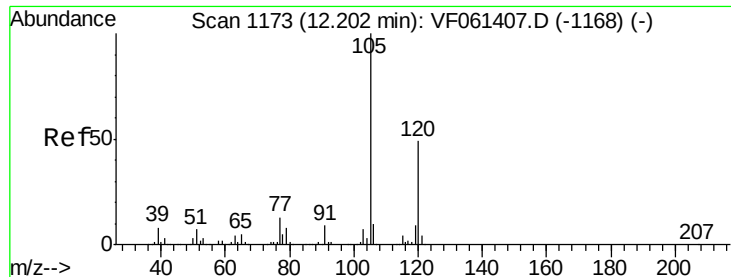
Tgt Ion:117 Resp: 51400
Ion Ratio Lower Upper
117 100
82 60.8 46.4 69.6
119 31.6 27.2 40.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.00 min
Lab File: VF061573.D
Acq: 8 Feb 2019 22:35

Tgt Ion:152 Resp: 15223
Ion Ratio Lower Upper
152 100
115 58.8 30.0 90.0
150 159.1 0.0 321.4

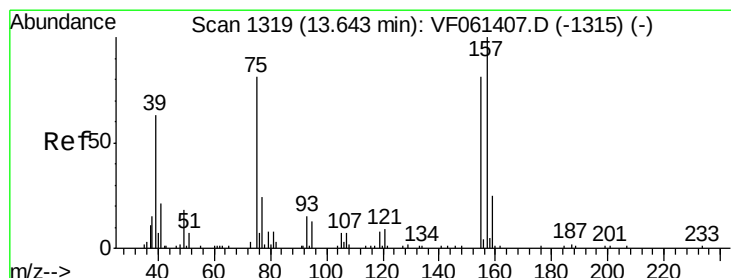
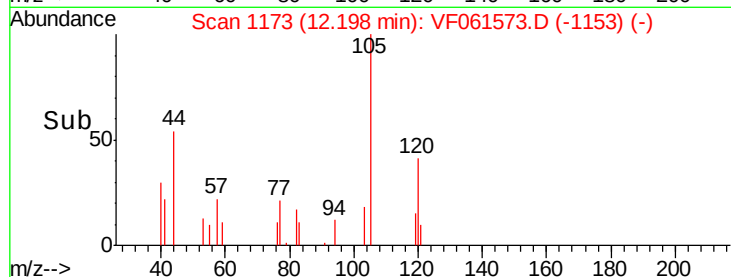
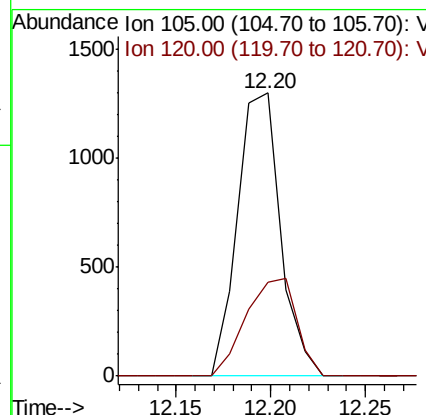
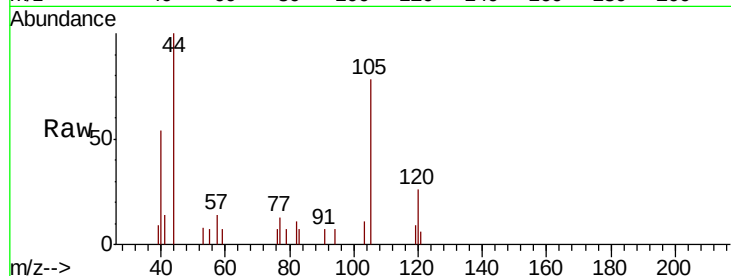




#84
 1,2,4-Trimethylbenzene
 Concen: 1.985 ug/l
 RT: 12.20 min Scan# 1173
 Delta R.T. -0.00 min
 Lab File: VF061573.D
 Acq: 8 Feb 2019 22:35

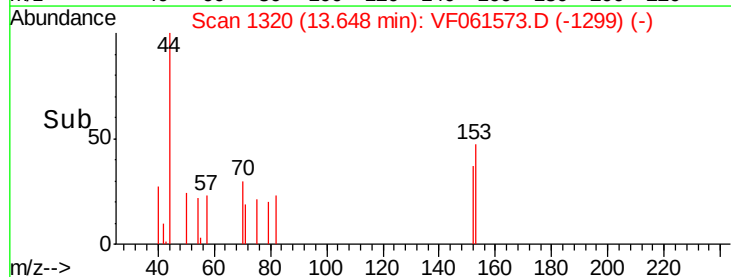
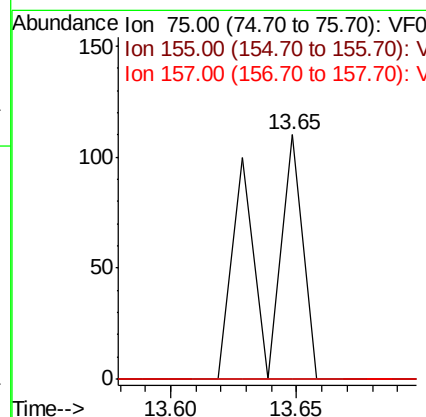
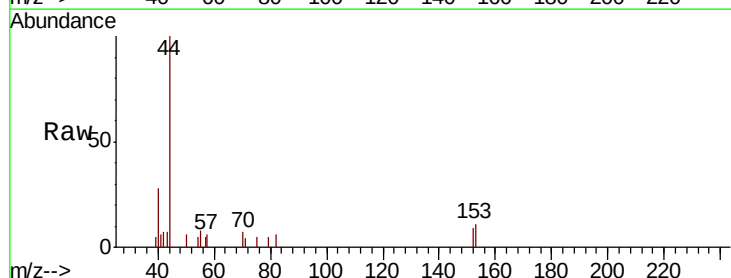
Instrument :
 MSVOA_F
 ClientSampleId :
 SS2-RB200035RE

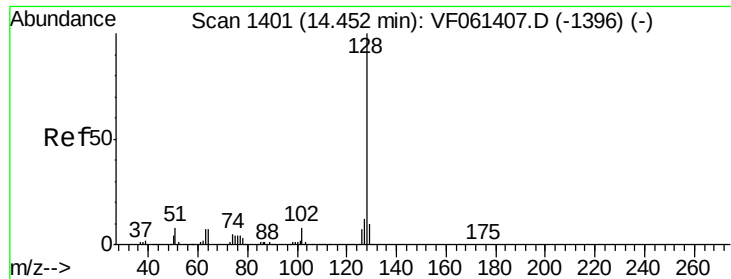
Tgt Ion: 105 Resp: 2043
 Ion Ratio Lower Upper
 105 100
 120 33.1 24.9 74.6



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.170 ug/l
 RT: 13.65 min Scan# 1320
 Delta R.T. 0.01 min
 Lab File: VF061573.D
 Acq: 8 Feb 2019 22:35

Tgt Ion: 75 Resp: 124
 Ion Ratio Lower Upper
 75 100
 155 0.0 49.7 149.1#
 157 0.0 61.4 184.1#

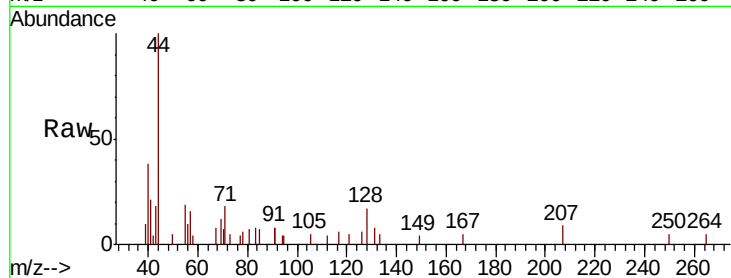




#95
Naphthalene
Concen: 1.518 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. -0.00 min
Lab File: VF061573.D
Acq: 8 Feb 2019 22:35

Instrument :
MSVOA_F
ClientSampleId :
SS2-RB200035RE

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	9.5	14.3#
129	0.0	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

