

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011819\
 Data File : VF061463.D
 Acq On : 18 Jan 2019 17:01
 Operator : VA/AP
 Sample : K1013-01RE
 Misc : 5.01µ/5mL/MSVOA-F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 PL-01-011819-A

Quant Time: Jan 19 03:59:43 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	206701	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	374913	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	318368	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	143107	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	114169	44.74	ug/l	0.00
Spiked Amount			Recovery	=	89.48%	
35) Dibromofluoromethane	4.11	113	124079	41.94	ug/l	0.00
Spiked Amount			Recovery	=	83.88%	
50) Toluene-d8	7.55	98	304394	37.55	ug/l	0.00
Spiked Amount			Recovery	=	75.10%	
62) 4-Bromofluorobenzene	11.41	95	136925	36.16	ug/l	0.00
Spiked Amount			Recovery	=	72.32%	

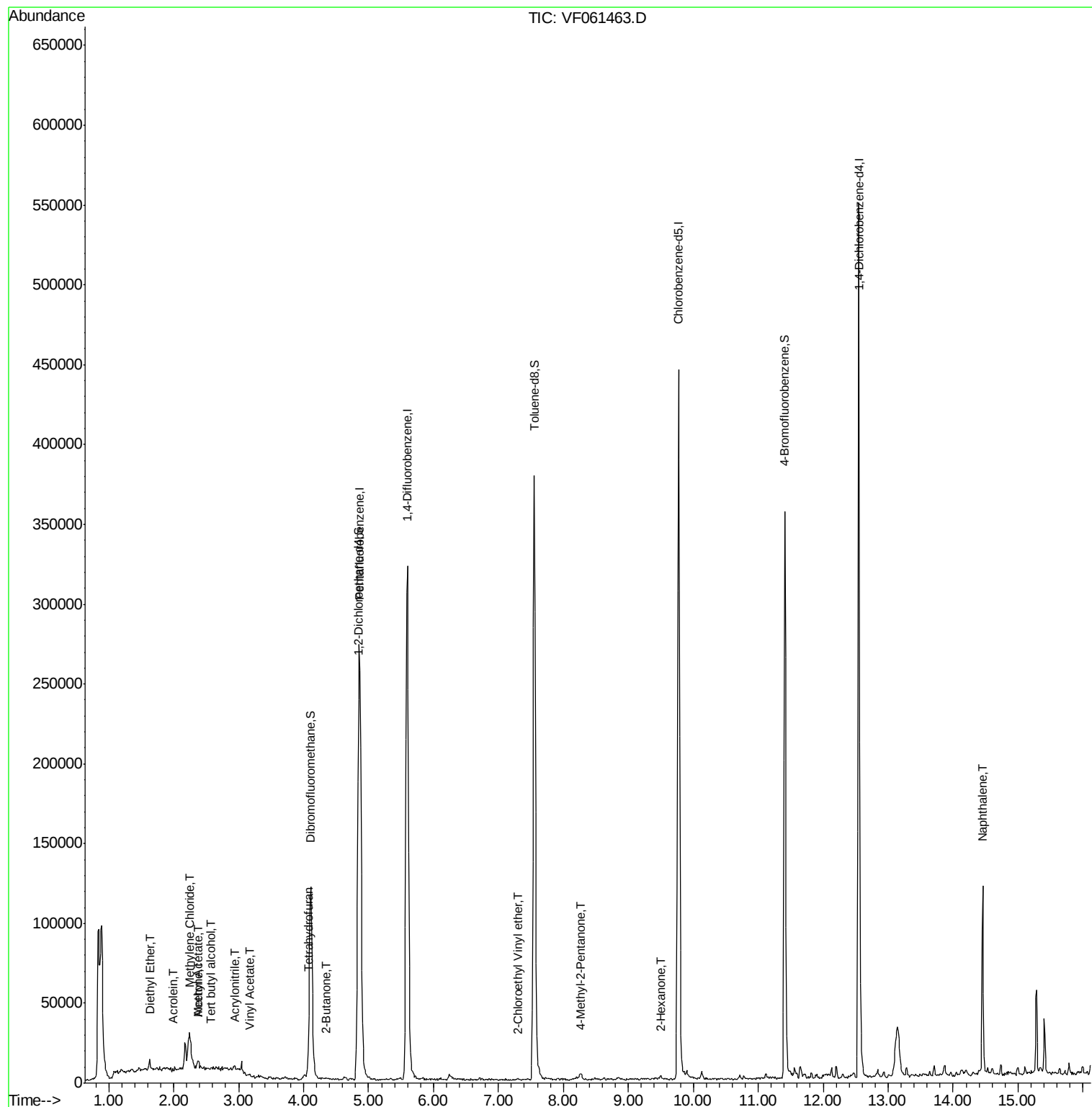
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	1.62	74	2163	3.278	ug/l	78
11) Tert butyl alcohol	2.57	59	420	3.888	ug/l #	33
13) Acrolein	1.99	56	637	16.900	ug/l #	70
14) Allyl chloride	2.09	41	637	Below Cal	#	65
15) Acrylonitrile	2.95	53	656	2.371	ug/l #	26
16) Acetone	2.37	43	2425	4.737	ug/l	92
18) Methyl Acetate	2.37	43	4181	4.118	ug/l #	61
20) Methylene Chloride	2.24	84	11674	5.141	ug/l	88
23) Vinyl Acetate	3.17	43	1689	3.773	ug/l #	46
25) 2-Butanone	4.34	43	1785	2.097	ug/l #	57
29) Tetrahydrofuran	4.07	42	1259	3.434	ug/l #	83
49) 1,4-Dioxane	6.29	88	120	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.26	43	3531	2.202	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.30	63	143	28.094	ug/l #	47
59) 2-Hexanone	9.50	43	2072	1.853	ug/l #	51
95) Naphthalene	14.46	128	82635	13.502	ug/l	98

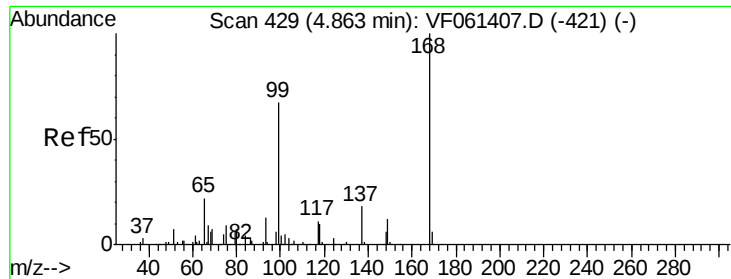
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jan 16 04:51:59 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.00 min

Lab File: VF061463.D

Acq: 18 Jan 2019 17:01

Instrument :

MSVOA_F

ClientSampleId :

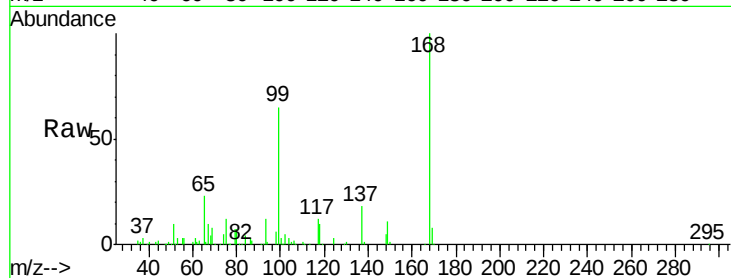
PL-01-011819-A

Tot Ion:168 Resp: 206701

Ion Ratio Lower Upper

168 100

99 65.2 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

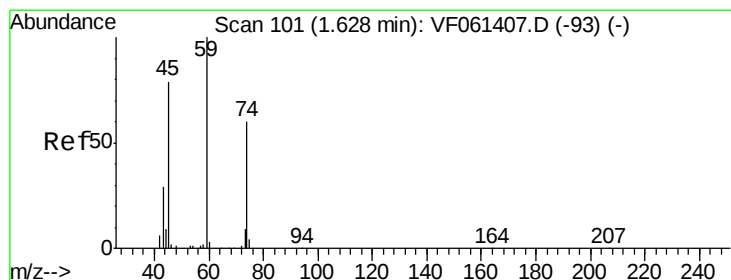
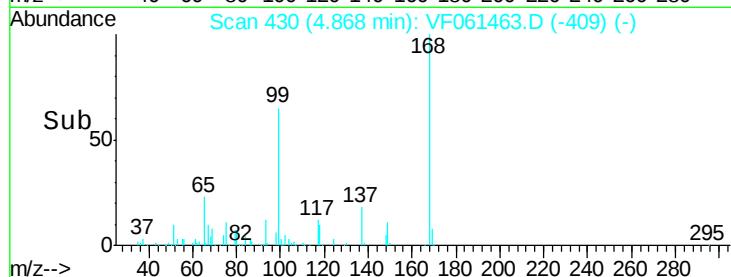
60000

40000

20000

0

Time-->



#8

Diethyl Ether

Concen: 3.278 ug/l

RT: 1.62 min Scan# 101

Delta R.T. -0.00 min

Lab File: VF061463.D

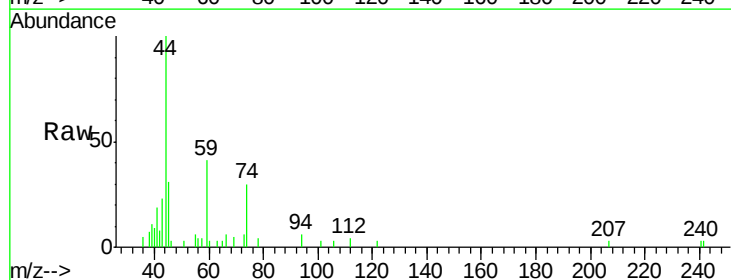
Acq: 18 Jan 2019 17:01

Tgt Ion: 74 Resp: 2163

Ion Ratio Lower Upper

74 100

45 105.4 65.8 197.5



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1.62

2000

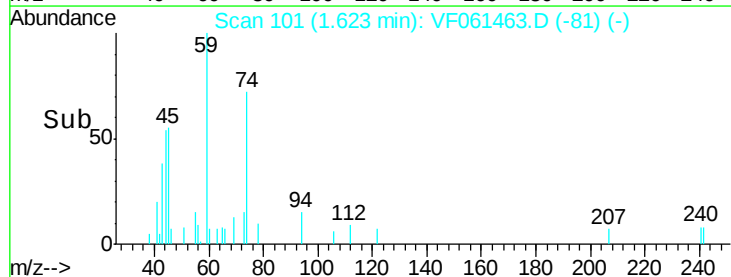
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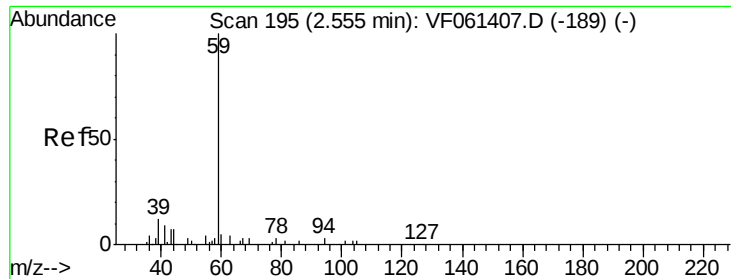
1000

500

0

Time-->

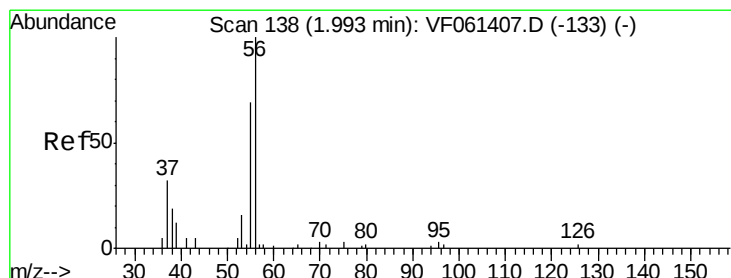
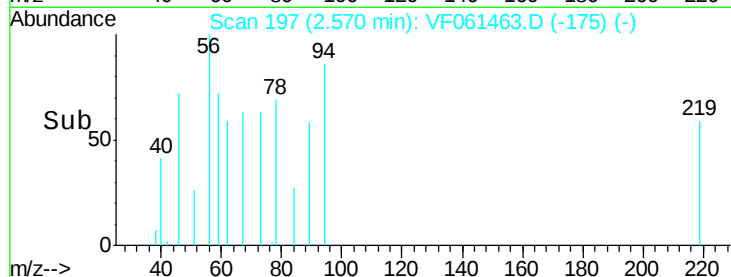
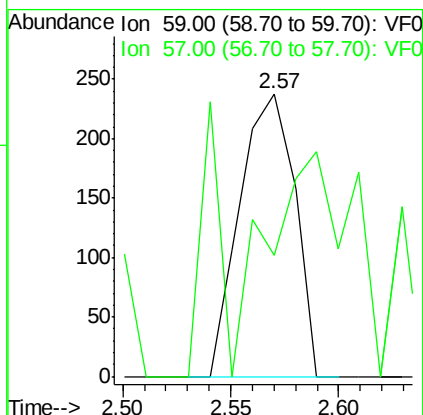
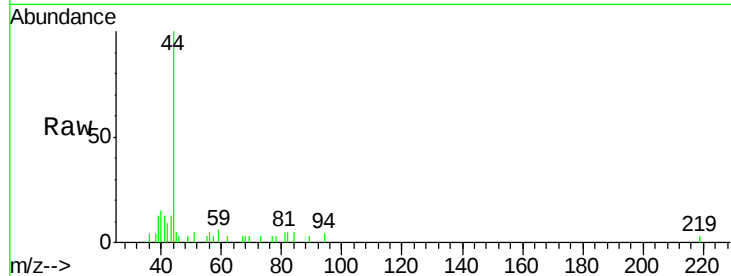




#11
Tert butyl alcohol
Concen: 3.888 ug/l
RT: 2.57 min Scan# 197
Delta R.T. 0.01 min
Lab File: VF061463.D
Acq: 18 Jan 2019 17:01

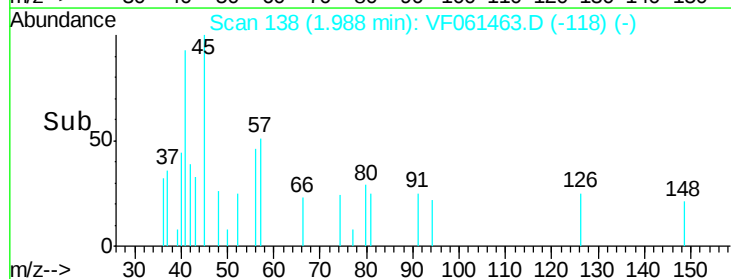
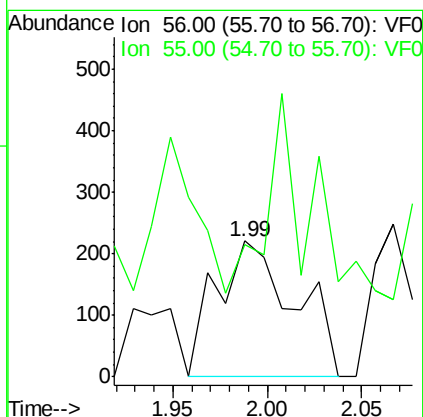
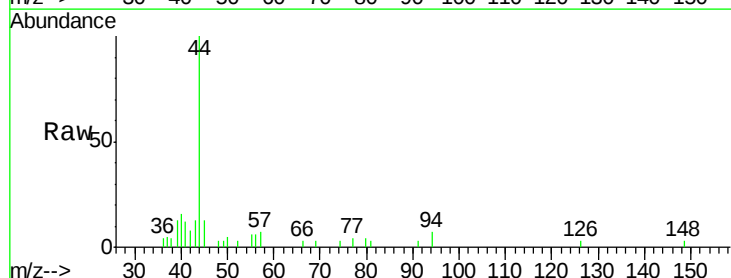
Instrument :
MSVOA_F
ClientSampleId :
PL-01-011819-A

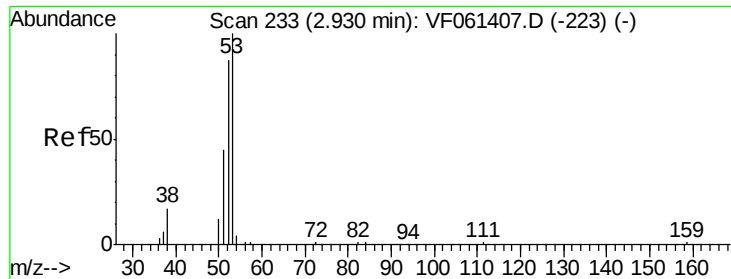
Tot Ion: 59 Resp: 420
Ion Ratio Lower Upper
59 100
57 42.9 11.9 17.9#



#13
Acrolein
Concen: 16.900 ug/l
RT: 1.99 min Scan# 138
Delta R.T. -0.00 min
Lab File: VF061463.D
Acq: 18 Jan 2019 17:01

Tgt Ion: 56 Resp: 637
Ion Ratio Lower Upper
56 100
55 97.3 57.5 86.3#

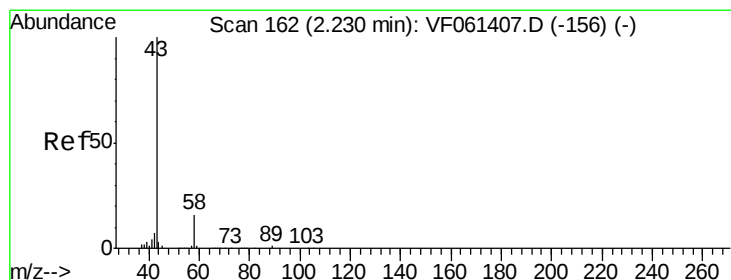
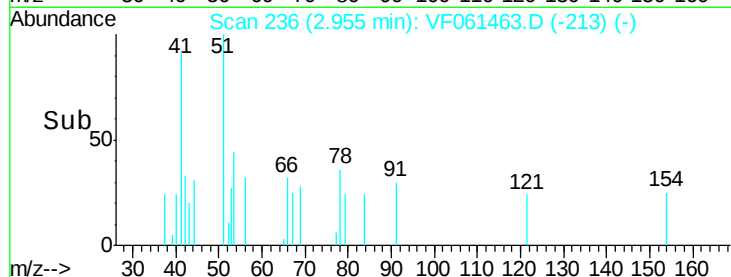
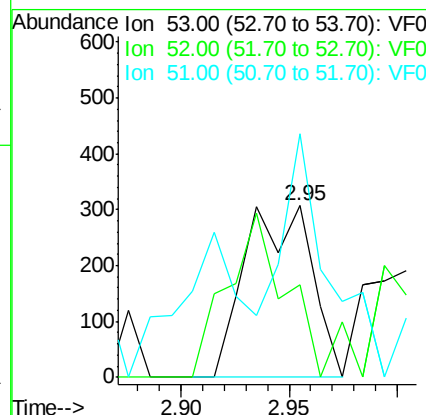
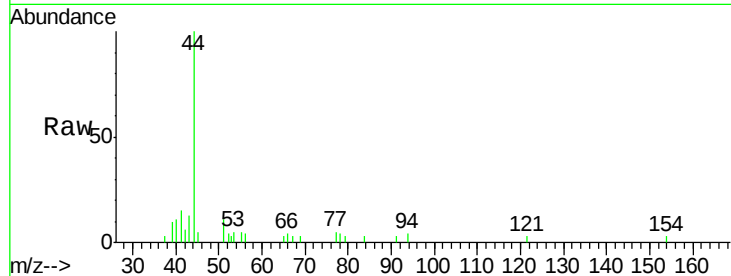




#15
 Acrylonitrile
 Concen: 2.371 ug/l
 RT: 2.95 min Scan# 236
 Delta R.T. 0.02 min
 Lab File: VF061463.D
 Acq: 18 Jan 2019 17:01

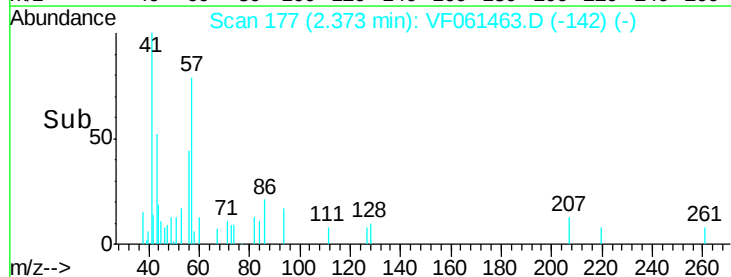
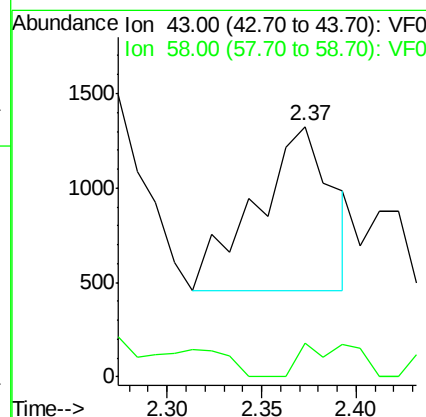
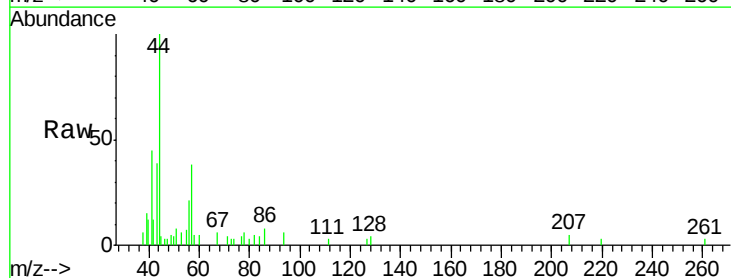
Instrument :
 MSVOA_F
 ClientSampleID :
 PL-01-011819-A

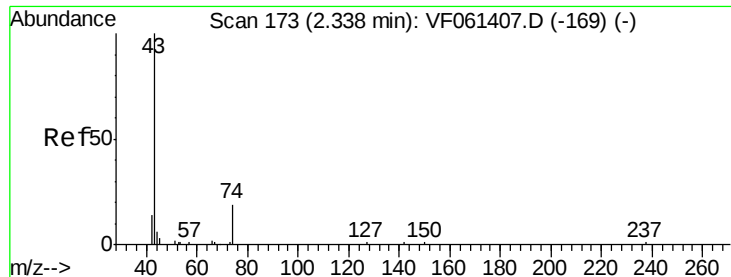
Tot Ion: 53 Resp: 656
 Ion Ratio Lower Upper
 53 100
 52 53.7 69.6 104.4#
 51 142.0 36.8 55.2#



#16
 Acetone
 Concen: 4.737 ug/l
 RT: 2.37 min Scan# 177
 Delta R.T. 0.14 min
 Lab File: VF061463.D
 Acq: 18 Jan 2019 17:01

Tgt Ion: 43 Resp: 2425
 Ion Ratio Lower Upper
 43 100
 58 13.4 13.3 19.9

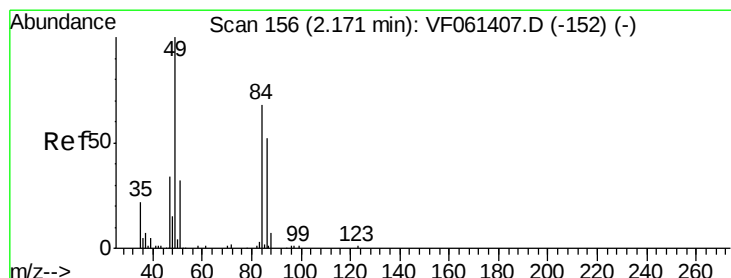
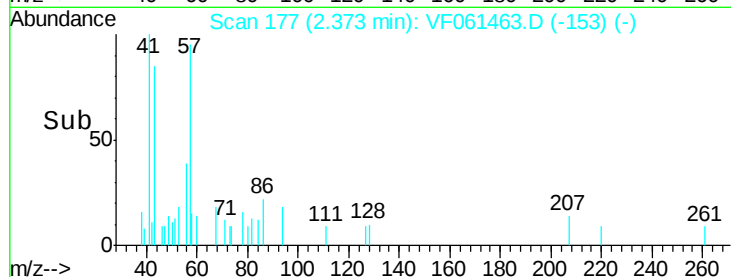
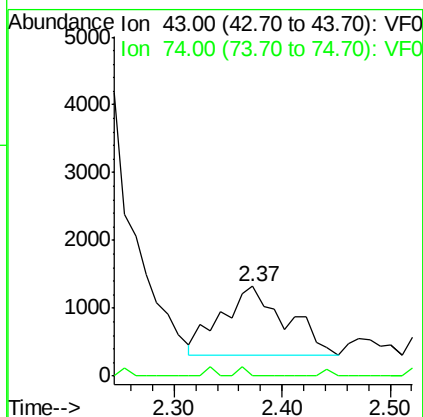
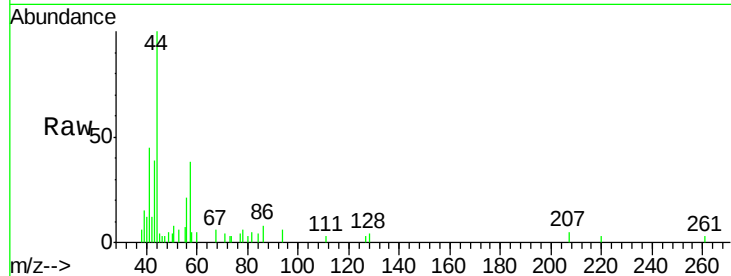




#18
Methyl Acetate
Concen: 4.118 ug/l
RT: 2.37 min Scan# 177
Delta R.T. 0.03 min
Lab File: VF061463.D
Acq: 18 Jan 2019 17:01

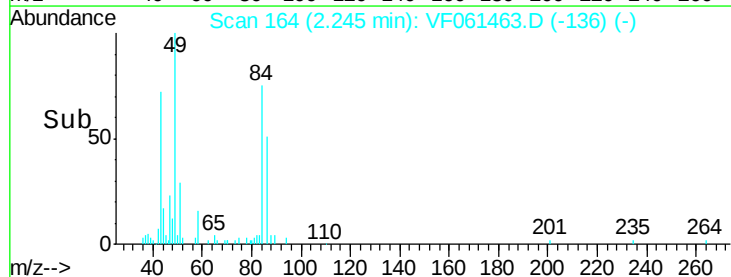
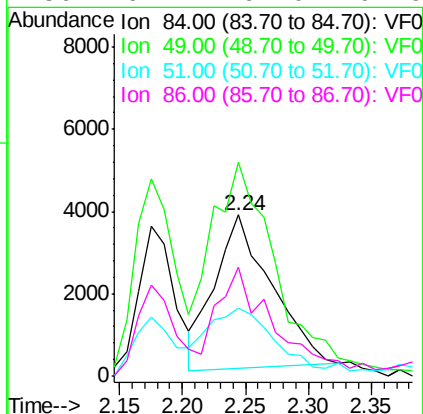
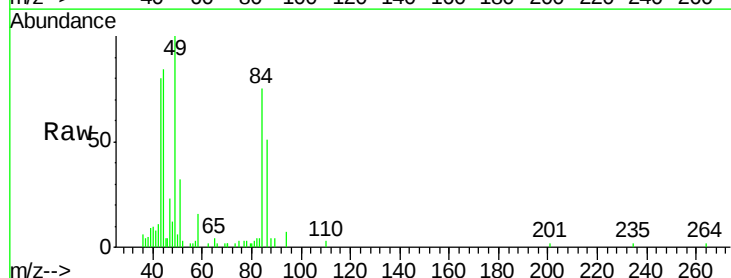
Instrument :
MSVOA_F
ClientSampleId :
PL-01-011819-A

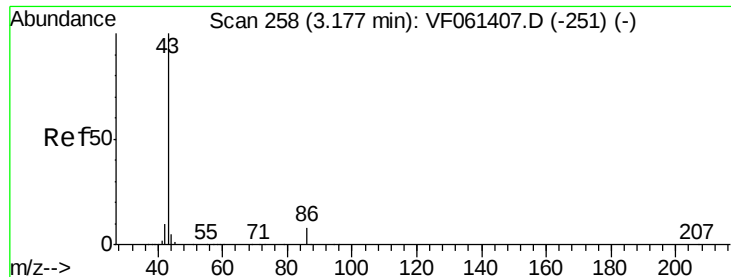
Tot Ion: 43 Resp: 4181
Ion Ratio Lower Upper
43 100
74 0.0 13.4 20.0#



#20
Methylene Chloride
Concen: 5.141 ug/l
RT: 2.24 min Scan# 164
Delta R.T. 0.07 min
Lab File: VF061463.D
Acq: 18 Jan 2019 17:01

Tgt Ion: 84 Resp: 11674
Ion Ratio Lower Upper
84 100
49 132.6 120.0 180.0
51 42.0 38.6 58.0
86 67.2 61.0 91.6





#23

Vinyl Acetate

Concen: 3.773 ug/l

RT: 3.17 min Scan# 258

Delta R.T. -0.00 min

Lab File: VF061463.D

Acq: 18 Jan 2019 17:01

Instrument :

MSVOA_F

ClientSampleId :

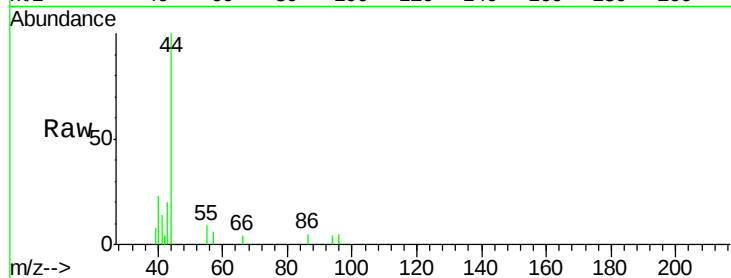
PL-01-011819-A

Tot Ion: 43 Resp: 1689

Ion Ratio Lower Upper

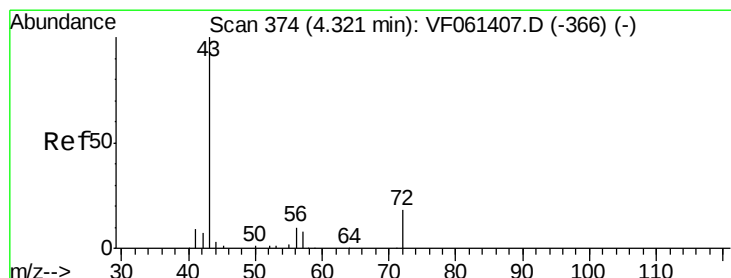
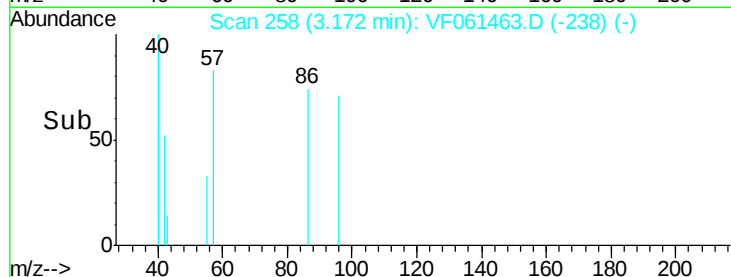
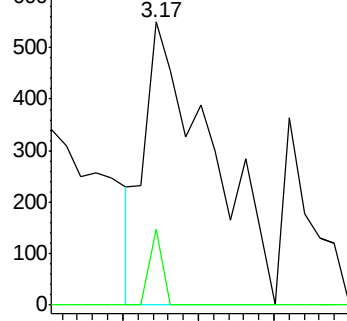
43 100

86 26.7 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: 2.097 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.01 min

Lab File: VF061463.D

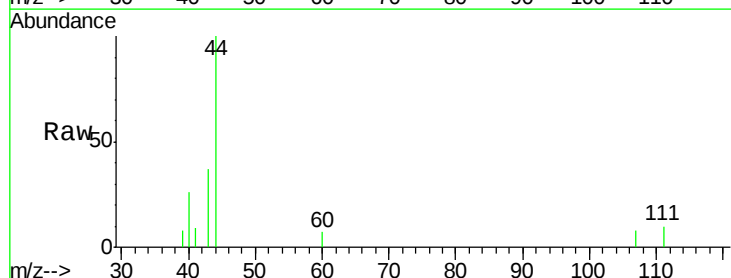
Acq: 18 Jan 2019 17:01

Tgt Ion: 43 Resp: 1785

Ion Ratio Lower Upper

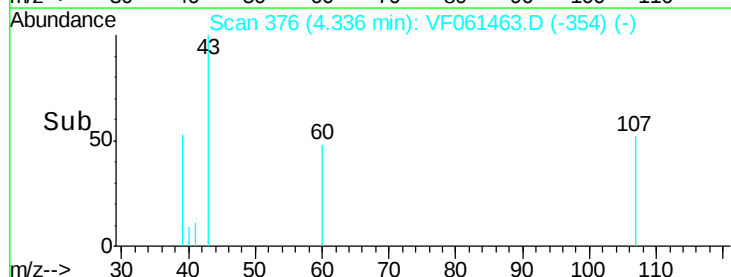
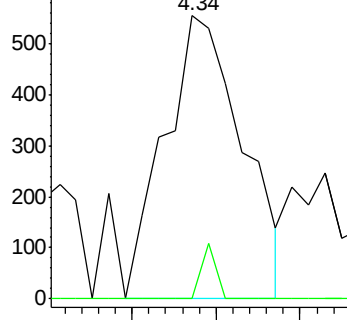
43 100

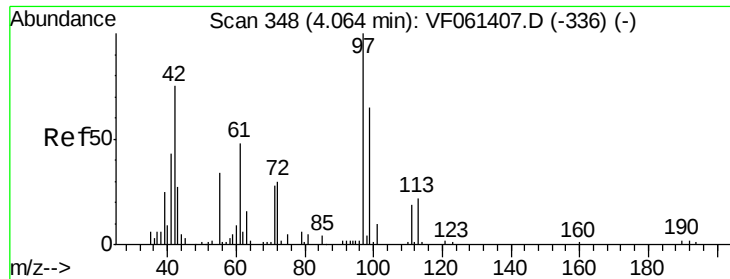
72 0.0 15.8 23.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 3.434 ug/l

RT: 4.07 min Scan# 349

Delta R.T. 0.00 min

Lab File: VF061463.D

Acq: 18 Jan 2019 17:01

Instrument :

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ClientSampleId :

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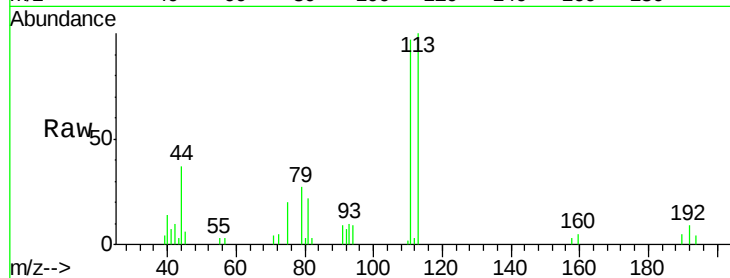
Tot Ion: 42 Resp: 1259

Ion Ratio Lower Upper

42 100

72 48.0 28.9 43.3#

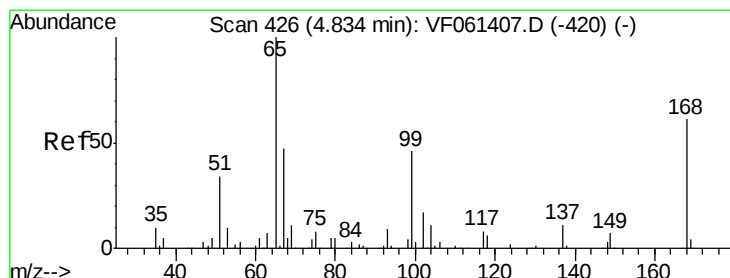
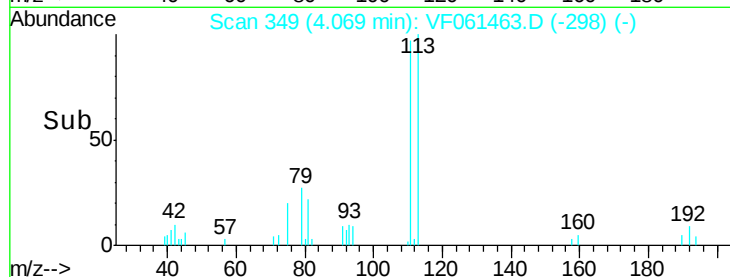
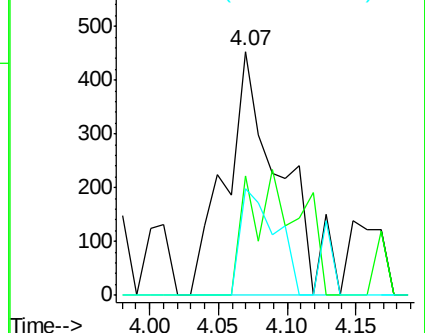
71 28.8 29.6 44.4#



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: 44.737 ug/l

RT: 4.84 min Scan# 427

Delta R.T. 0.00 min

Lab File: VF061463.D

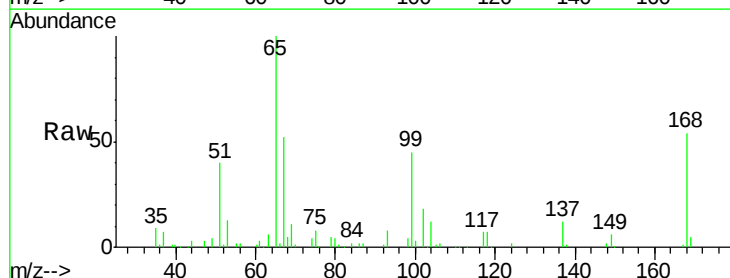
Acq: 18 Jan 2019 17:01

Tgt Ion: 65 Resp: 114169

Ion Ratio Lower Upper

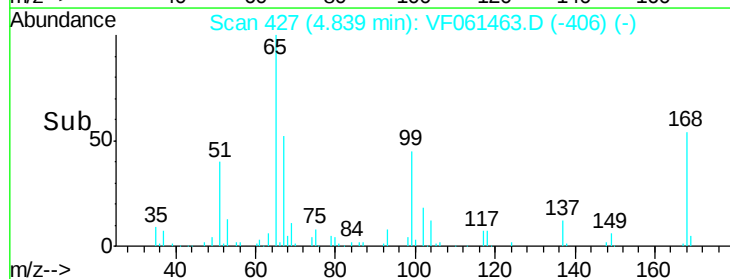
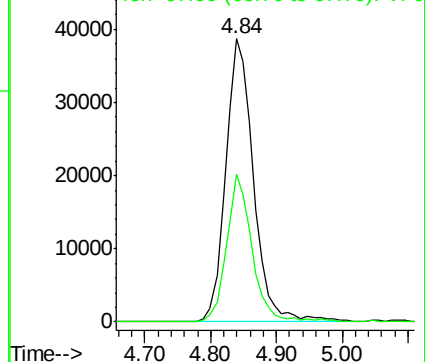
65 100

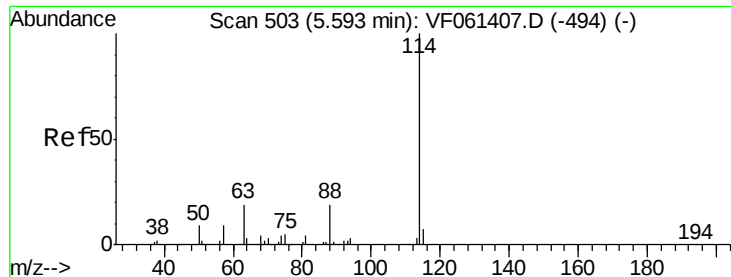
67 52.1 0.0 99.8



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: 5.60 min Scan# 504

Delta R.T. 0.00 min

Lab File: VF061463.D

Acq: 18 Jan 2019 17:01

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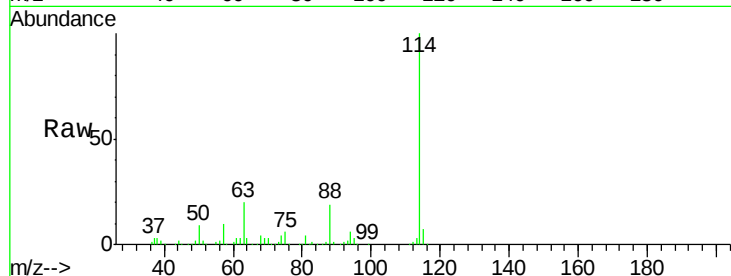
Tot Ion:114 Resp: 374913

Ion Ratio Lower Upper

114 100

63 20.4 0.0 39.0

88 19.5 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

150000

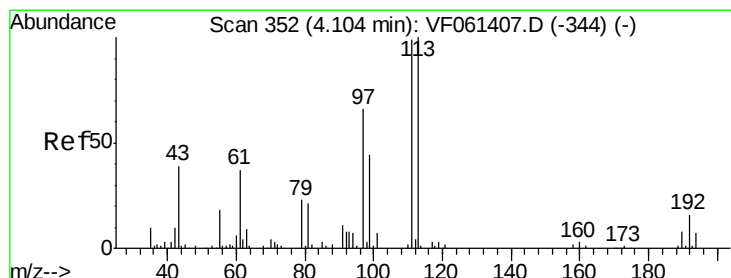
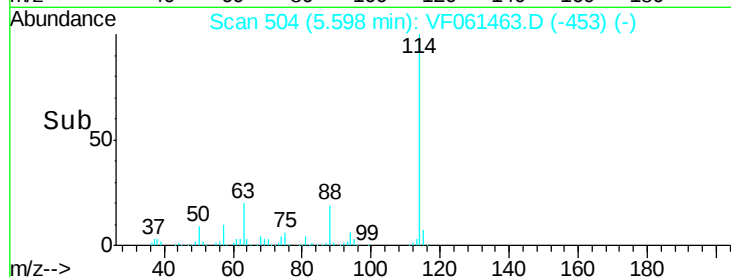
100000

50000

0

5.40 5.50 5.60 5.70 5.80

Time-->



#35

Dibromofluoromethane

Concen: 41.941 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.00 min

Lab File: VF061463.D

Acq: 18 Jan 2019 17:01

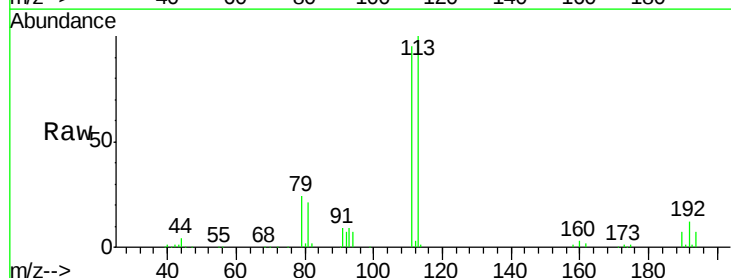
Tgt Ion:113 Resp: 124079

Ion Ratio Lower Upper

113 100

111 95.0 79.4 119.0

192 12.3 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

50000

40000

30000

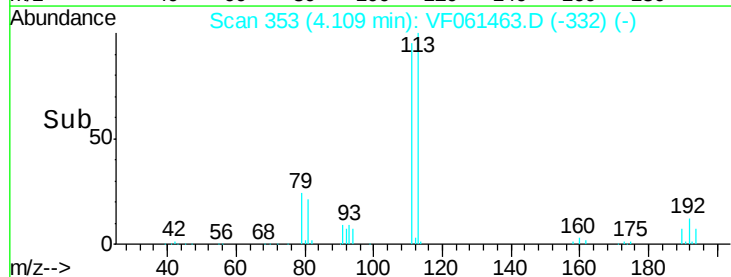
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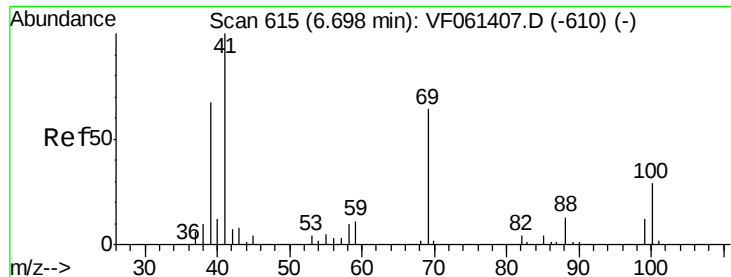
10000

0

4.00 4.10 4.20 4.30

Time-->





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.29 min Scan# 574

Delta R.T. -0.41 min

Lab File: VF061463.D

Acq: 18 Jan 2019 17:01

Instrument :

MSVOA_F

ClientSampleId :

PL-01-011819-A

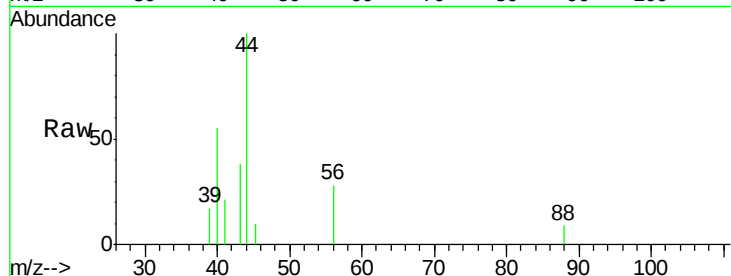
Tot Ion: 88 Resp: 120

Ion Ratio Lower Upper

88 100

43 417.8 55.5 83.3#

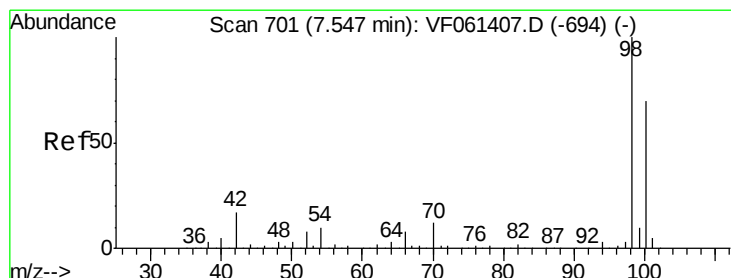
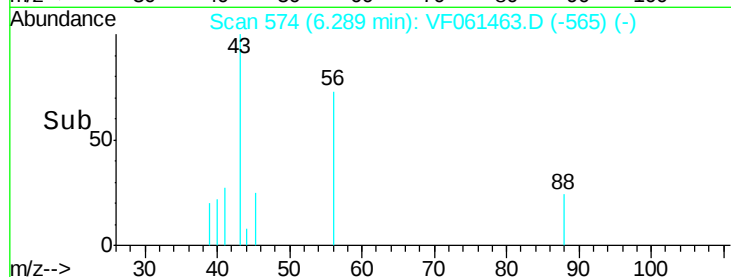
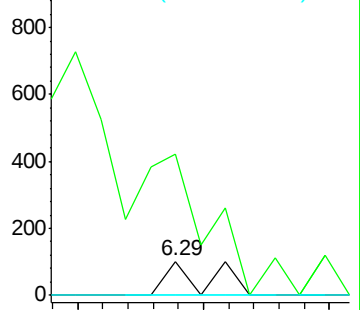
58 0.0 59.9 89.9#



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: 37.554 ug/l

RT: 7.55 min Scan# 702

Delta R.T. 0.00 min

Lab File: VF061463.D

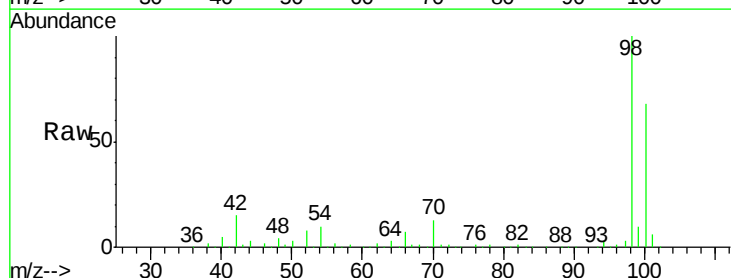
Acq: 18 Jan 2019 17:01

Tgt Ion: 98 Resp: 304394

Ion Ratio Lower Upper

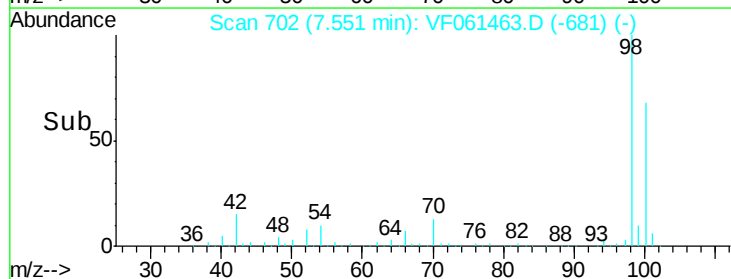
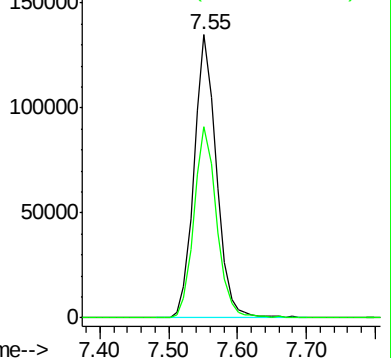
98 100

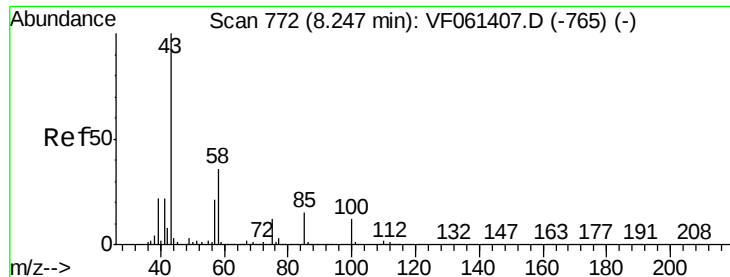
100 67.5 55.6 83.4



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: 2.202 ug/l

RT: 8.26 min Scan# 774

Delta R.T. 0.01 min

Lab File: VF061463.D

Acq: 18 Jan 2019 17:01

Instrument :

MSVOA_F

ClientSampleId :

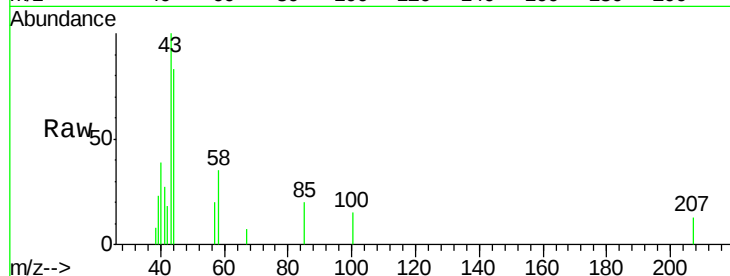
PL-01-011819-A

Tot Ion: 43 Resp: 3531

Ion Ratio Lower Upper

43 100

58 34.9 28.8 43.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.26

1500

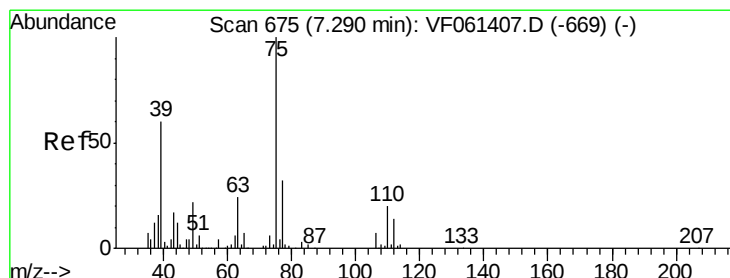
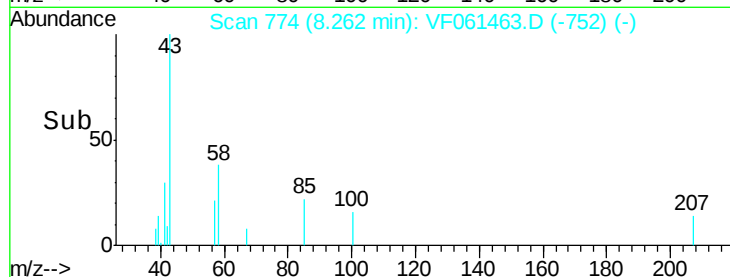
1000

500

0

8.20 8.25 8.30 8.35

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 28.094 ug/l

RT: 7.30 min Scan# 677

Delta R.T. 0.01 min

Lab File: VF061463.D

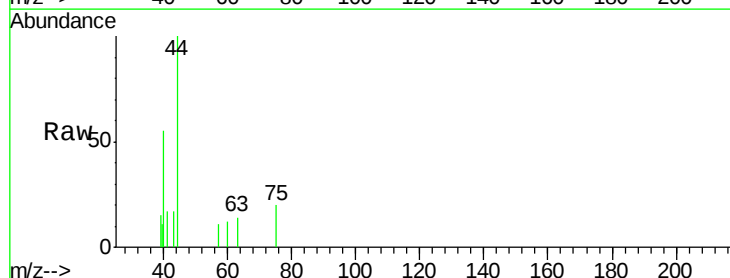
Acq: 18 Jan 2019 17:01

Tgt Ion: 63 Resp: 143

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

7.30

150

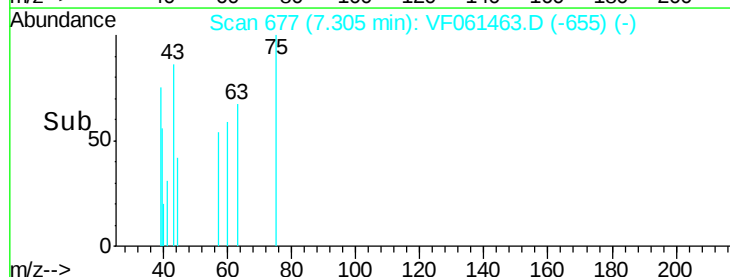
100

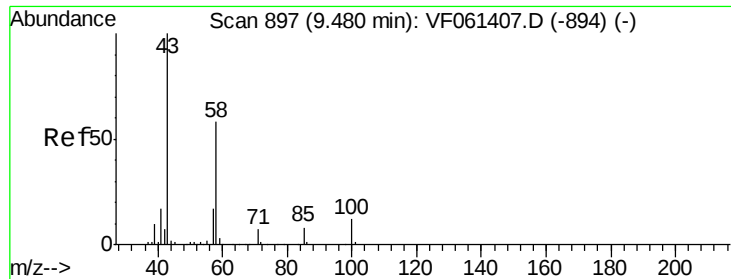
50

0

7.28 7.30 7.32 7.34 7.36

Time-->

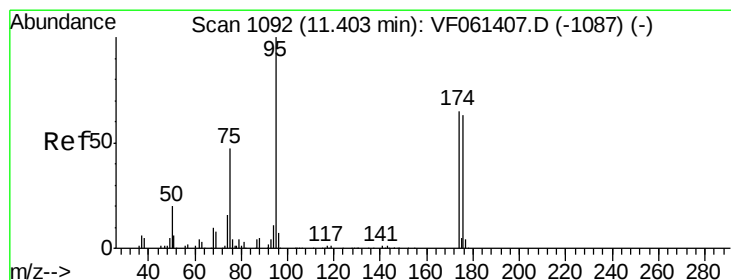
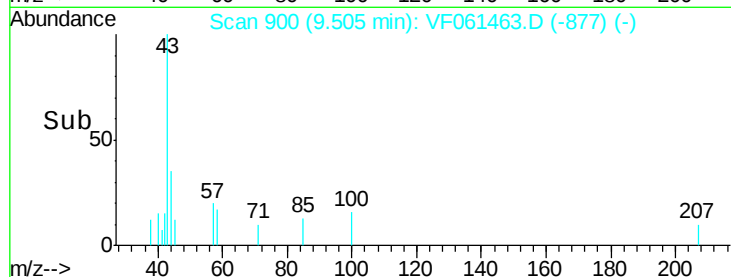
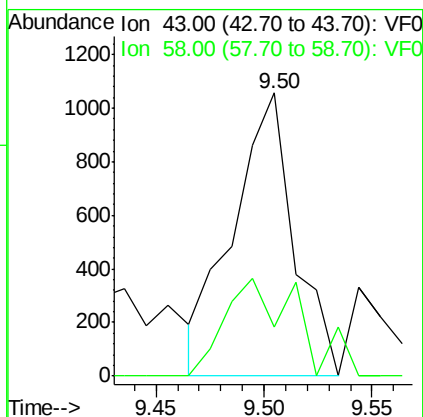
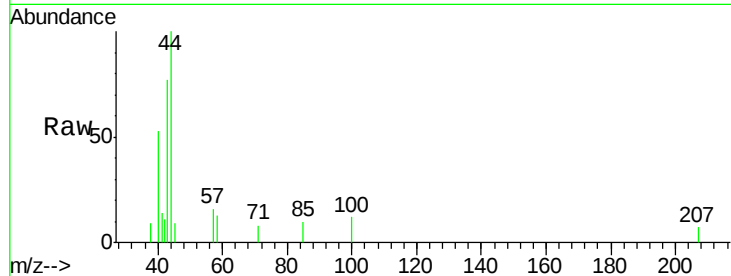




#59
2-Hexanone
Concen: 1.853 ug/l
RT: 9.50 min Scan# 900
Delta R.T. 0.02 min
Lab File: VF061463.D
Acq: 18 Jan 2019 17:01

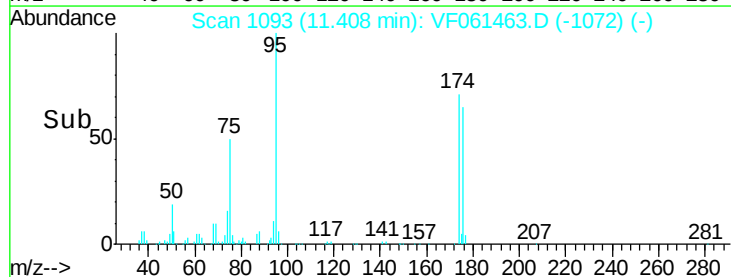
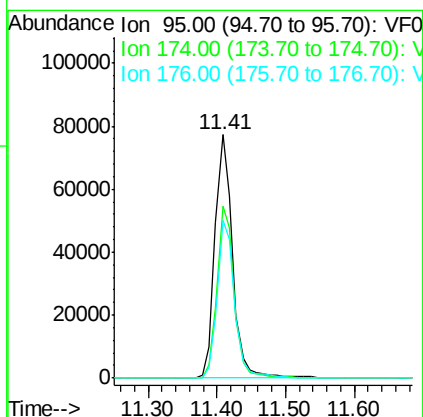
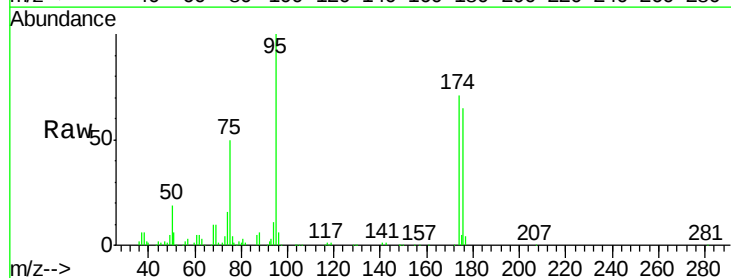
Instrument :
MSVOA_F
ClientSampleId :
PL-01-011819-A

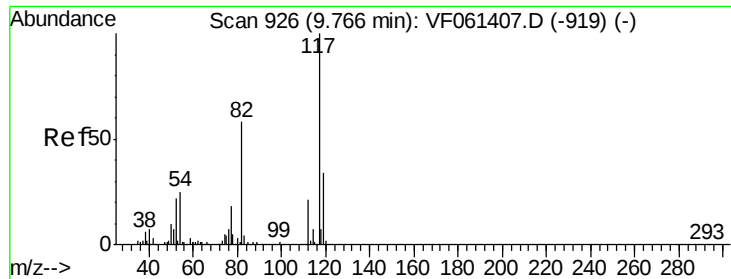
Tot Ion: 43 Resp: 2072
Ion Ratio Lower Upper
43 100
58 17.2 25.9 77.6#



#62
4-Bromofluorobenzene
Concen: 36.156 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. 0.00 min
Lab File: VF061463.D
Acq: 18 Jan 2019 17:01

Tgt Ion: 95 Resp: 136925
Ion Ratio Lower Upper
95 100
174 70.7 0.0 130.4
176 64.6 0.0 126.2

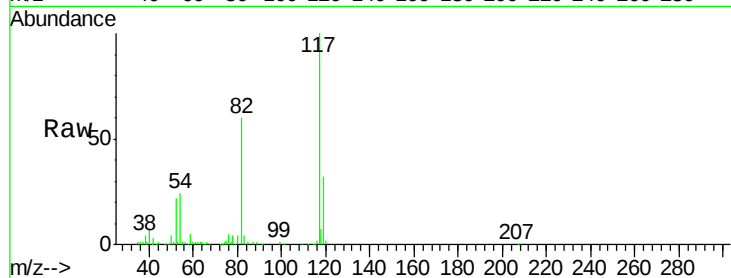




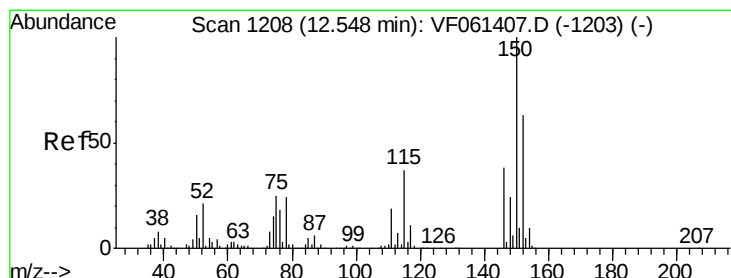
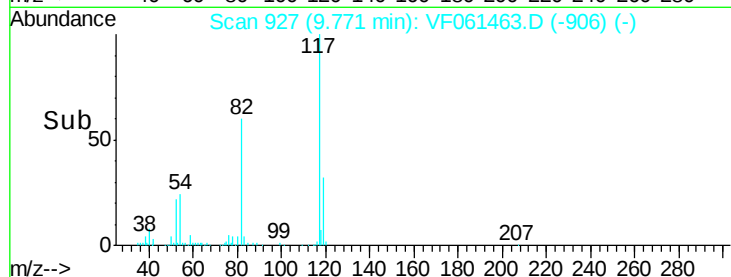
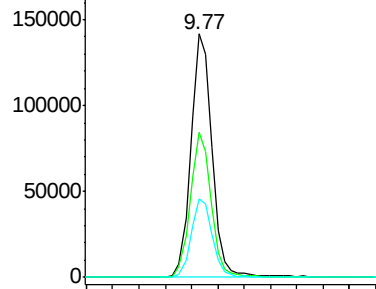
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. 0.00 min
Lab File: VF061463.D
Acq: 18 Jan 2019 17:01

Instrument :
MSVOA_F
ClientSampleId :
PL-01-011819-A

Tot Ion:117 Resp: 318368
Ion Ratio Lower Upper
117 100
82 59.5 46.4 69.6
119 32.5 27.2 40.8

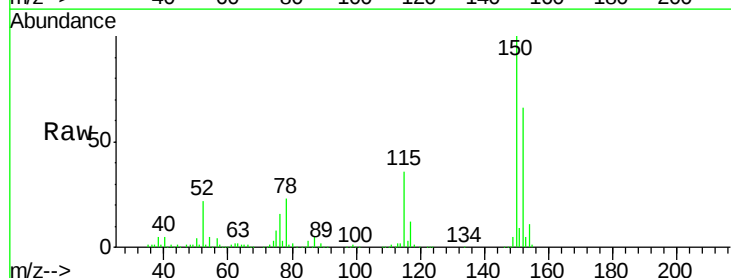


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

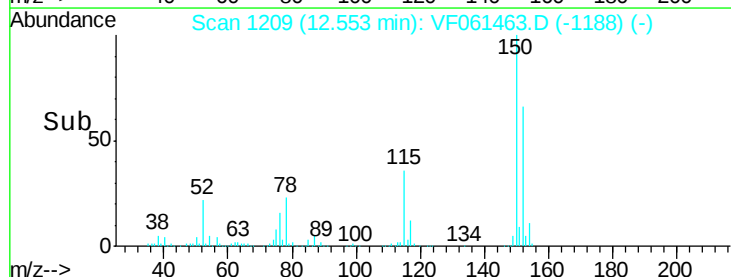
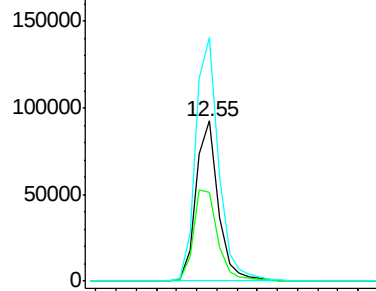


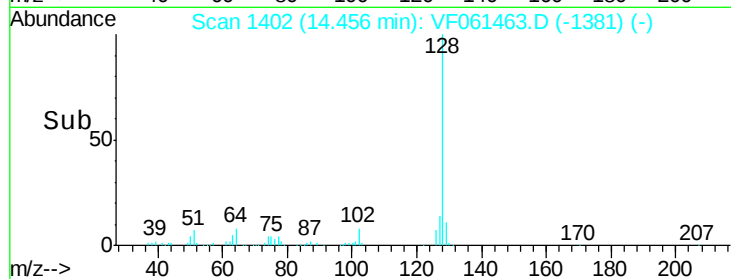
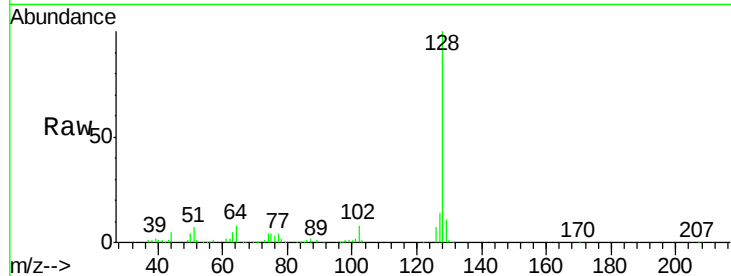
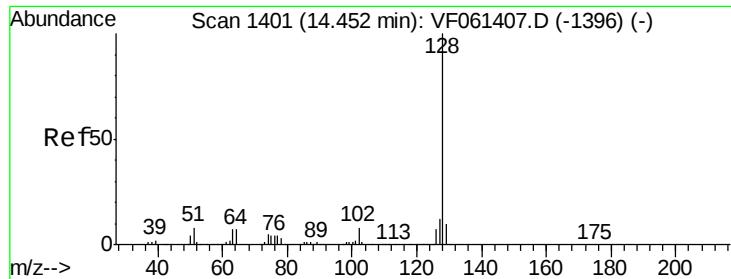
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. 0.00 min
Lab File: VF061463.D
Acq: 18 Jan 2019 17:01

Tgt Ion:152 Resp: 143107
Ion Ratio Lower Upper
152 100
115 55.3 30.0 90.0
150 152.1 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: 13.502 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. 0.00 min

Lab File: VF061463.D

Acq: 18 Jan 2019 17:01

Instrument :

MSVOA_F

ClientSampleId :

PL-01-011819-A

Tot Ion:128 Resp: 82635

Ion	Ratio	Lower	Upper
128	100		
127	13.5	9.5	14.3
129	10.6	8.4	12.6

