

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF021219\
 Data File : VF061618.D
 Acq On : 12 Feb 2019 19:36
 Operator : VA/AP
 Sample : K1343-23
 Misc : 6.37g/5mL/MSVOA-F/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 JC-02-021119-L

Quant Time: Feb 13 02:51:20 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	203377	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	359471	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	298663	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	143989	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	127634	50.83	ug/l	0.01
Spiked Amount			Recovery	=	101.66%	
35) Dibromofluoromethane	4.12	113	140878	49.67	ug/l	0.01
Spiked Amount			Recovery	=	99.34%	
50) Toluene-d8	7.55	98	312683	40.23	ug/l	0.00
Spiked Amount			Recovery	=	80.46%	
62) 4-Bromofluorobenzene	11.41	95	143845	39.61	ug/l	0.00
Spiked Amount			Recovery	=	79.22%	

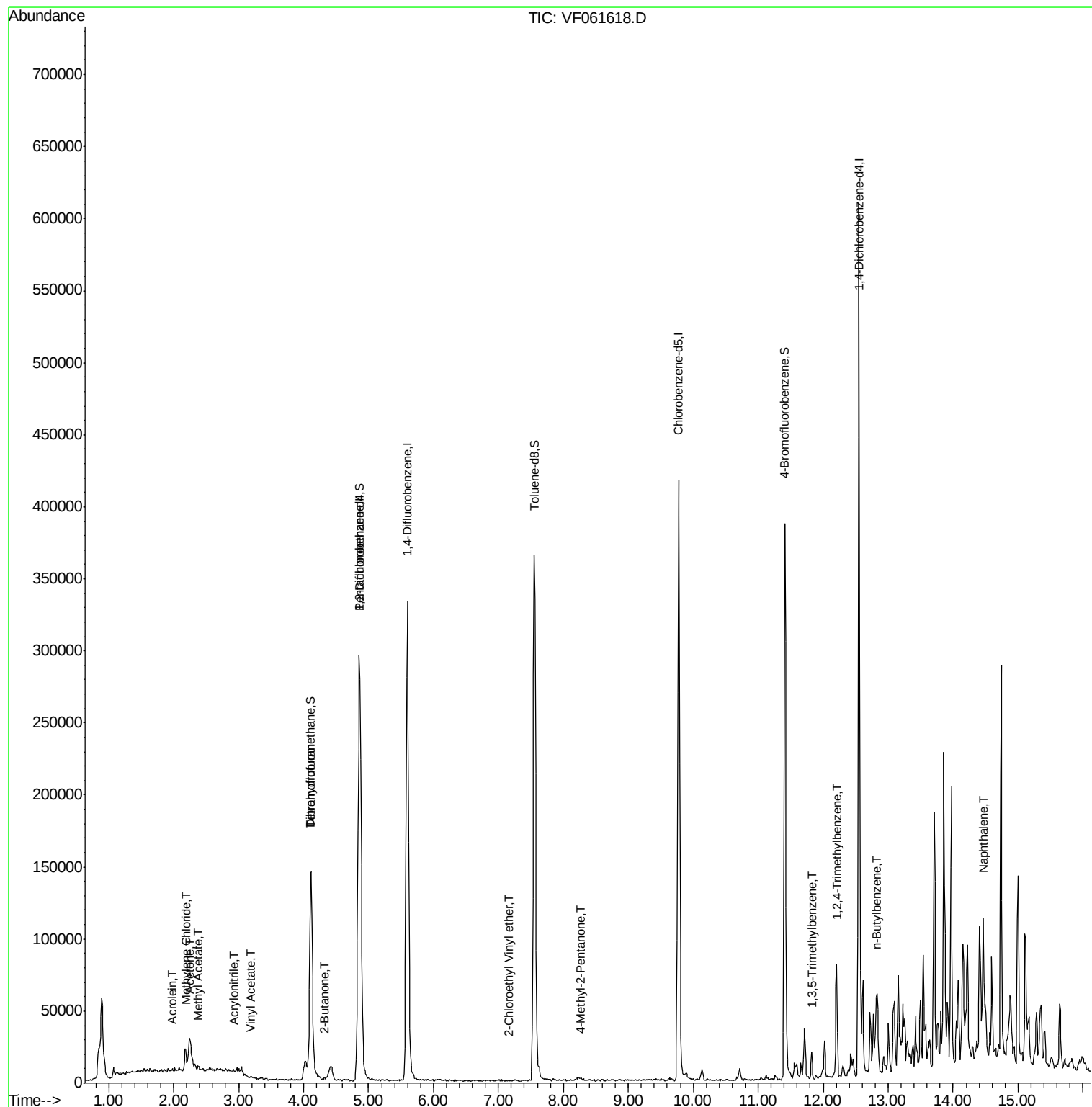
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	1.99	56	282	13.290	ug/l #	43
14) Allyl chloride	2.11	41	301	Below Cal	#	47
15) Acrylonitrile	2.93	53	326	1.197	ug/l #	73
16) Acetone	2.24	43	19659	39.027	ug/l	95
18) Methyl Acetate	2.36	43	1518	1.520	ug/l #	61
20) Methylene Chloride	2.18	84	6002	1.817	ug/l #	89
23) Vinyl Acetate	3.20	43	764	3.460	ug/l #	78
25) 2-Butanone	4.33	43	2640	3.152	ug/l	92
29) Tetrahydrofuran	4.10	42	1566	4.342	ug/l #	67
49) 1,4-Dioxane	6.23	88	67	Below Cal	#	13
51) 4-Methyl-2-Pentanone	8.27	43	2169	1.411	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.16	63	60	27.770	ug/l #	47
80) 1,3,5-Trimethylbenzene	11.82	105	9835	1.041	ug/l	92
84) 1,2,4-Trimethylbenzene	12.21	105	38273	3.932	ug/l	94
89) n-Butylbenzene	12.84	91	12483	1.110	ug/l #	67
95) Naphthalene	14.46	128	16208	2.632	ug/l #	76

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

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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: VF061618.D

Acq: 12 Feb 2019 19:36

Instrument :

MSVOA_F

ClientSampleId :

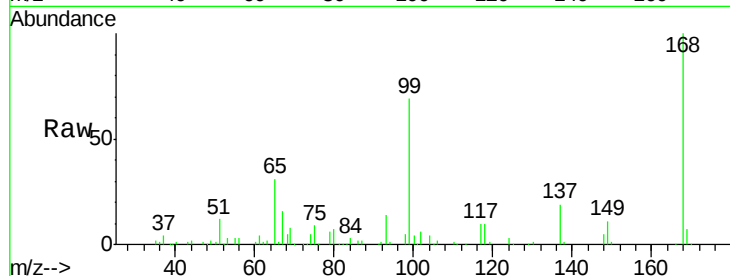
JC-02-021119-L

Tot Ion:168 Resp: 203377

Ion Ratio Lower Upper

168 100

99 68.5 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

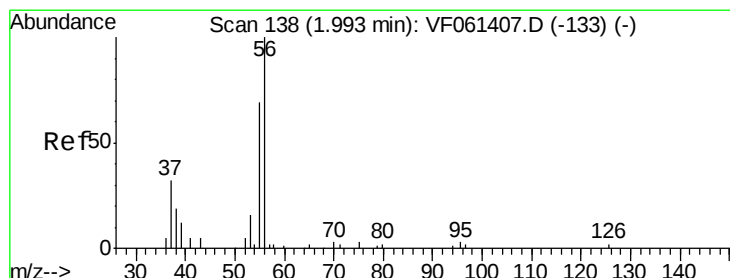
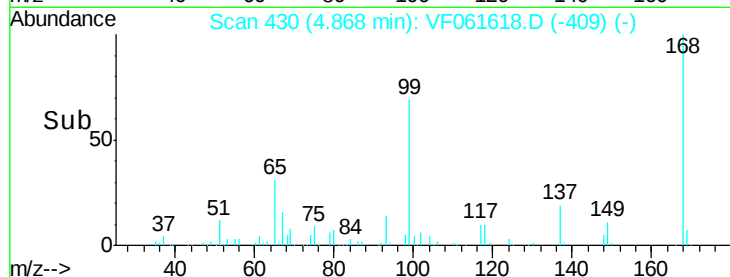
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#13

Acrolein

Concen: 13.290 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.00 min

Lab File: VF061618.D

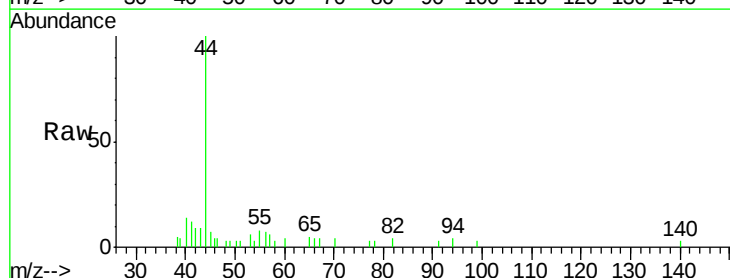
Acq: 12 Feb 2019 19:36

Tgt Ion: 56 Resp: 282

Ion Ratio Lower Upper

56 100

55 119.1 57.5 86.3#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

1.99

400

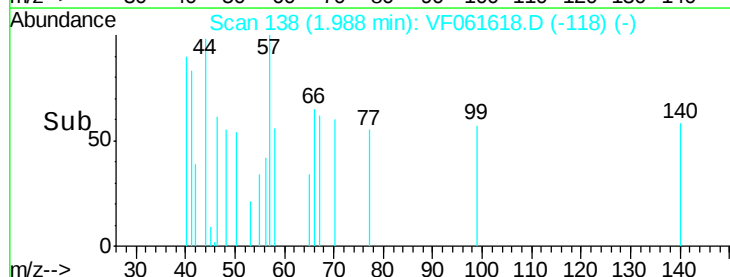
300

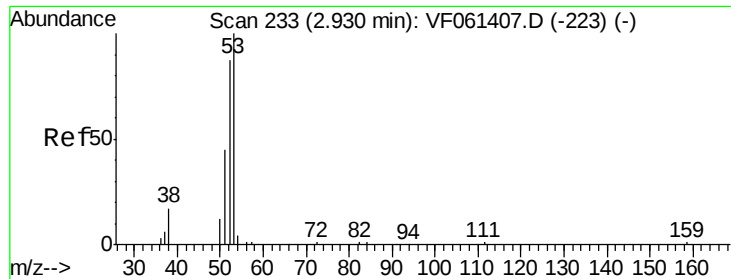
200

100

0

Time--> 1.94 1.96 1.98 2.00 2.02

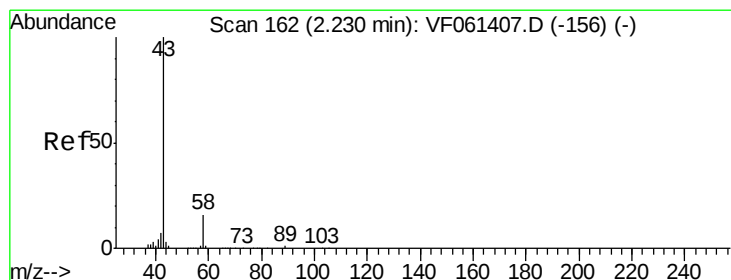
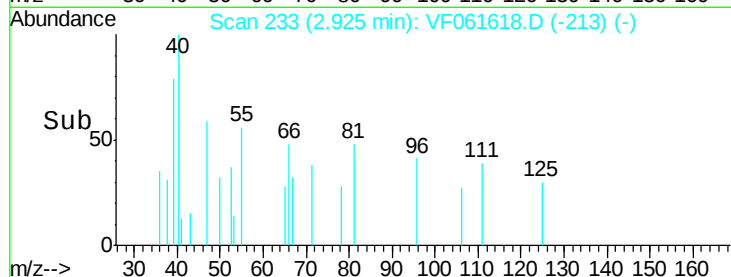
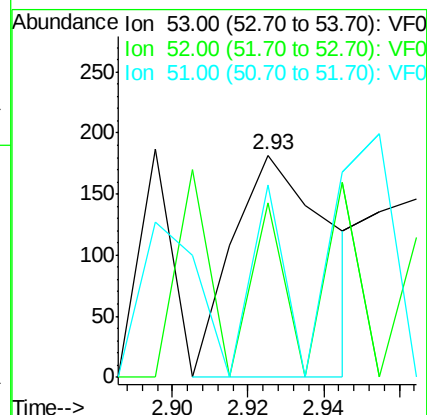
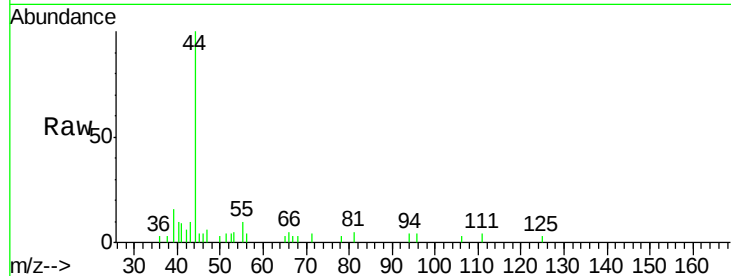




#15
 Acrylonitrile
 Concen: 1.197 ug/l
 RT: 2.93 min Scan# 233
 Delta R.T. -0.00 min
 Lab File: VF061618.D
 Acq: 12 Feb 2019 19:36

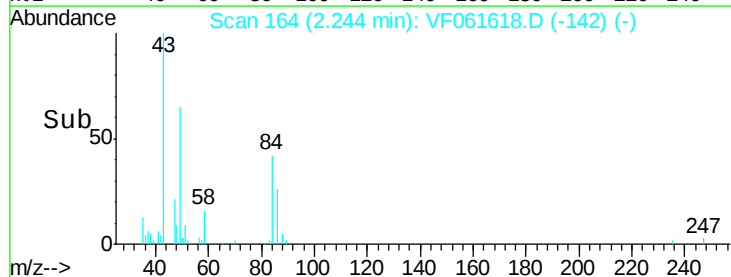
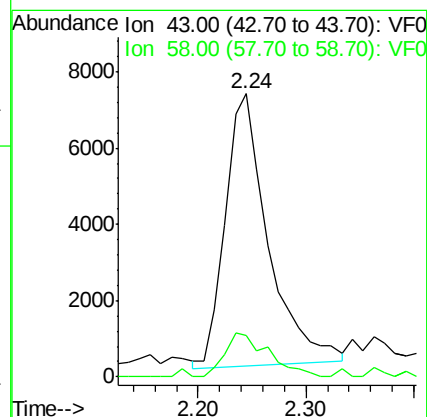
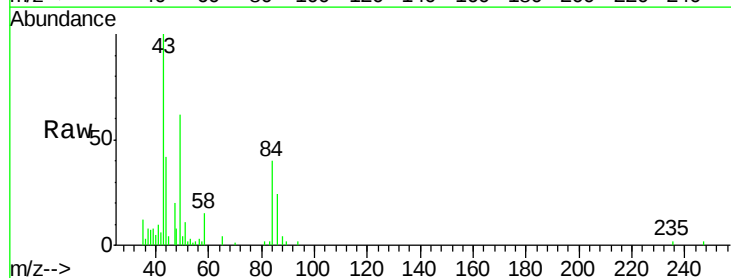
Instrument :
 MSVOA_F
 ClientSampleId :
 JC-02-021119-L

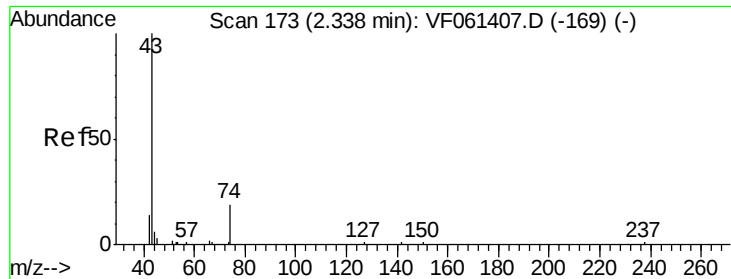
Tot Ion: 53 Resp: 326
 Ion Ratio Lower Upper
 53 100
 52 78.6 69.6 104.4
 51 86.8 36.8 55.2#



#16
 Acetone
 Concen: 39.027 ug/l
 RT: 2.24 min Scan# 164
 Delta R.T. 0.01 min
 Lab File: VF061618.D
 Acq: 12 Feb 2019 19:36

Tgt Ion: 43 Resp: 19659
 Ion Ratio Lower Upper
 43 100
 58 14.7 13.3 19.9

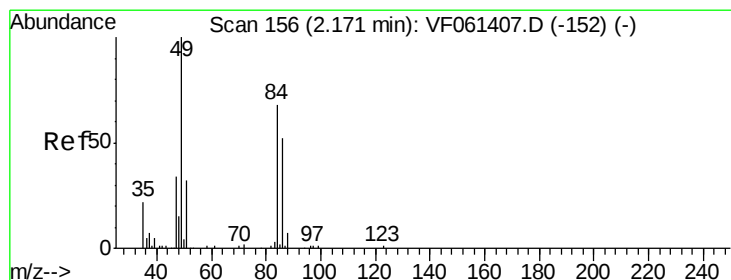
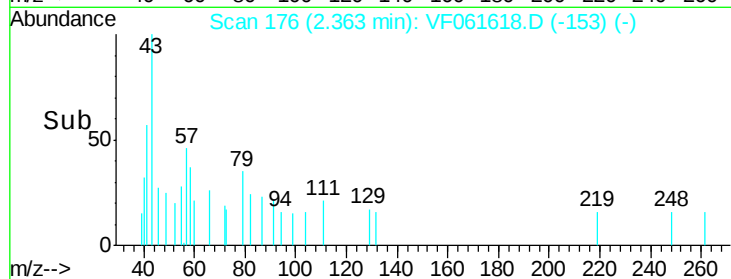
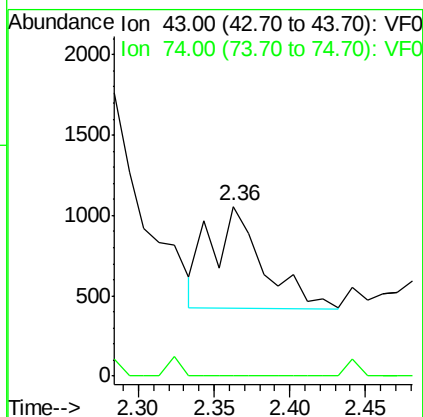
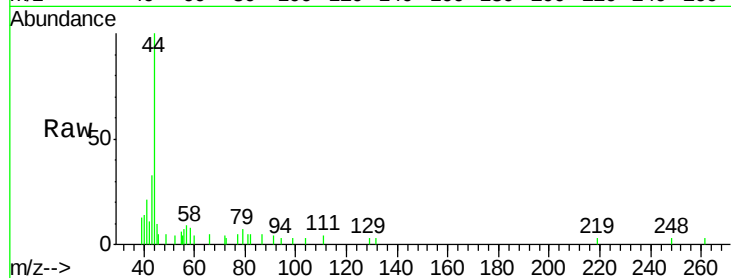




#18
Methvl Acetate
Concen: 1.520 ug/l
RT: 2.36 min Scan# 176
Delta R.T. 0.02 min
Lab File: VF061618.D
Acq: 12 Feb 2019 19:36

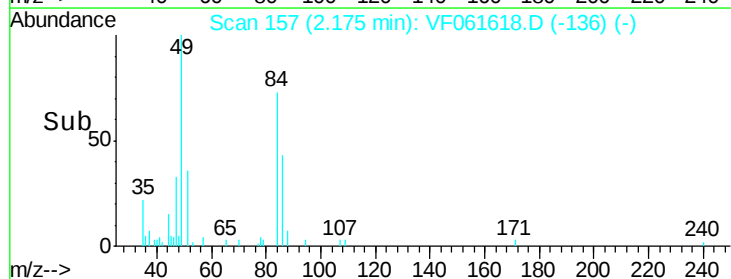
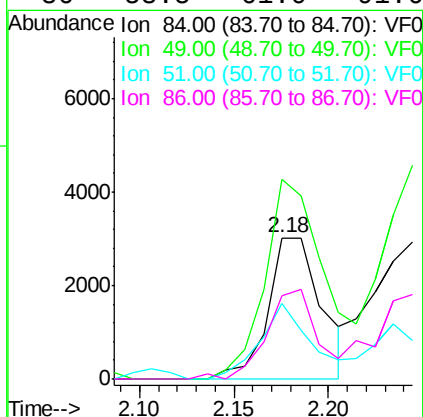
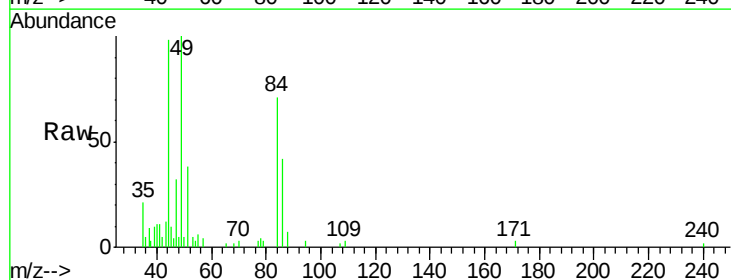
Instrument :
MSVOA_F
ClientSampleId :
JC-02-021119-L

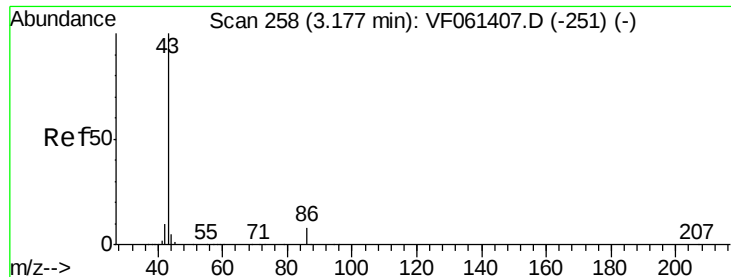
Tot Ion: 43 Resp: 1518
Ion Ratio Lower Upper
43 100
74 0.0 13.4 20.0#



#20
Methylene Chloride
Concen: 1.817 ug/l
RT: 2.18 min Scan# 157
Delta R.T. 0.01 min
Lab File: VF061618.D
Acq: 12 Feb 2019 19:36

Tgt Ion: 84 Resp: 6002
Ion Ratio Lower Upper
84 100
49 141.0 120.0 180.0
51 53.8 38.6 58.0
86 58.5 61.0 91.6#





#23

Vinyl Acetate

Concen: 3.460 ug/l

RT: 3.20 min Scan# 261

Delta R.T. 0.03 min

Lab File: VF061618.D

Acq: 12 Feb 2019 19:36

Instrument :

MSVOA_F

ClientSampleId :

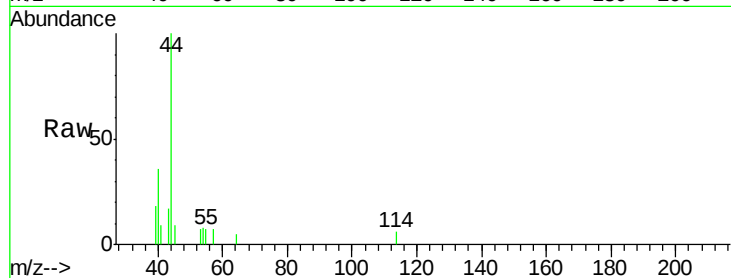
JC-02-021119-L

Tot Ion: 43 Resp: 764

Ion Ratio Lower Upper

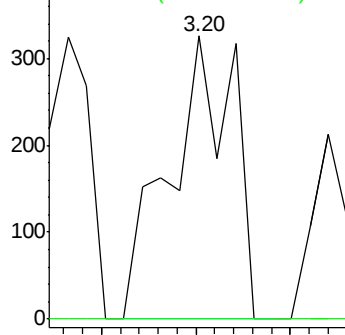
43 100

86 0.0 6.2 9.4#

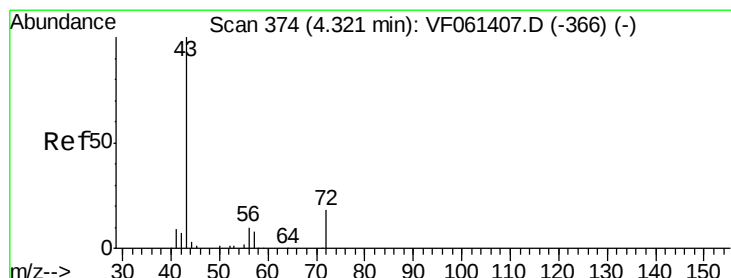
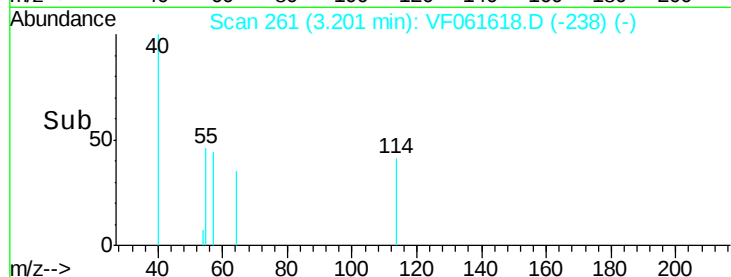


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



Time-->



#25

2-Butanone

Concen: 3.152 ug/l

RT: 4.33 min Scan# 375

Delta R.T. 0.00 min

Lab File: VF061618.D

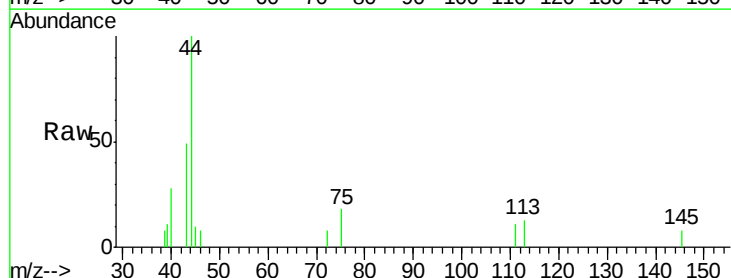
Acq: 12 Feb 2019 19:36

Tgt Ion: 43 Resp: 2640

Ion Ratio Lower Upper

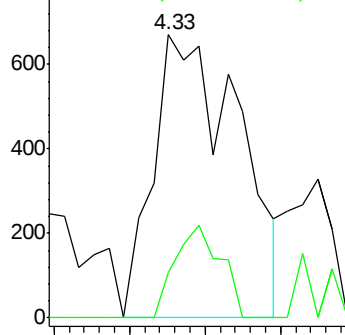
43 100

72 16.1 15.8 23.6

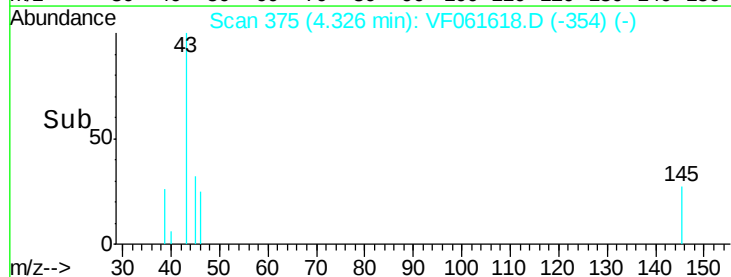


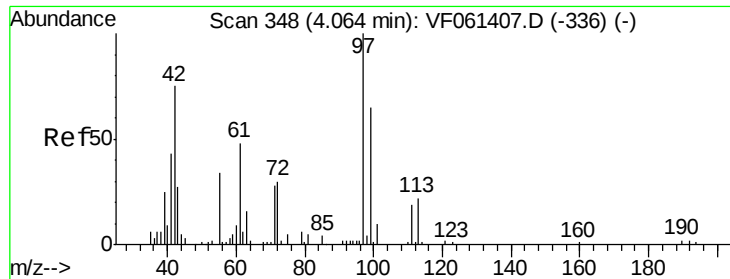
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



Time-->





#29

Tetrahydrofuran

Concen: 4.342 ug/l

RT: 4.10 min Scan# 352

Delta R.T. 0.03 min

Lab File: VF061618.D

Acq: 12 Feb 2019 19:36

Instrument :

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ClientSampleId :

JC-02-021119-L

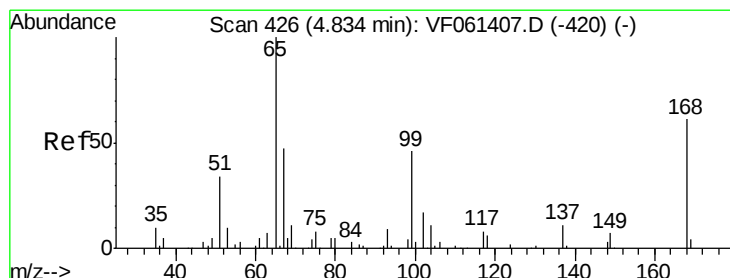
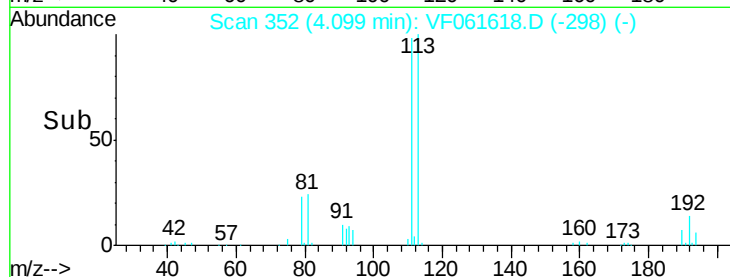
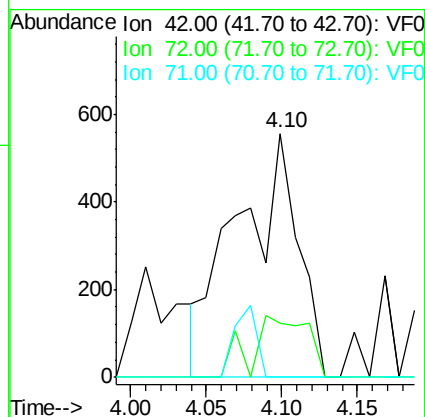
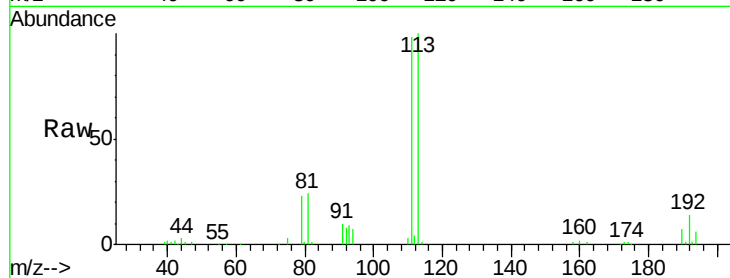
Tot Ion: 42 Resp: 1566

Ion Ratio Lower Upper

42 100

72 23.2 28.9 43.3#

71 10.7 29.6 44.4#



#33

1,2-Dichloroethane-d4

Concen: 50.831 ug/l

RT: 4.85 min Scan# 428

Delta R.T. 0.01 min

Lab File: VF061618.D

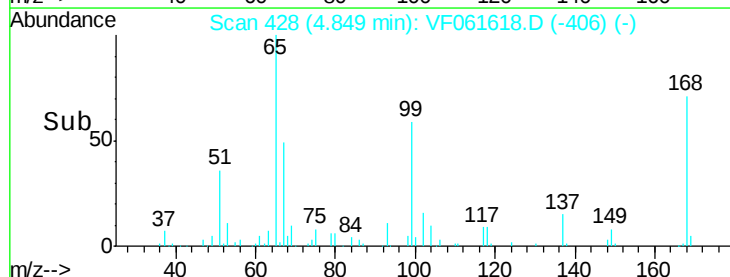
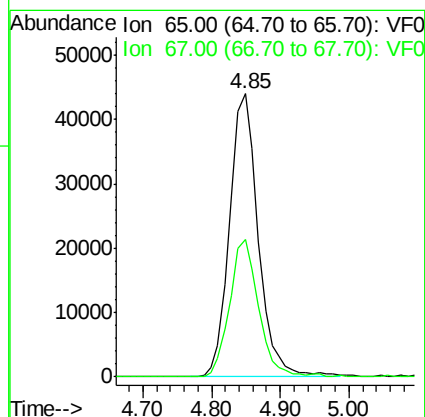
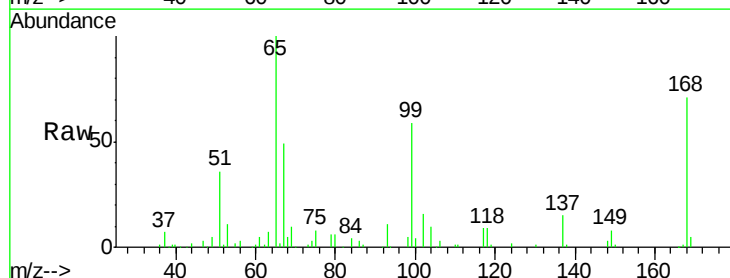
Acq: 12 Feb 2019 19:36

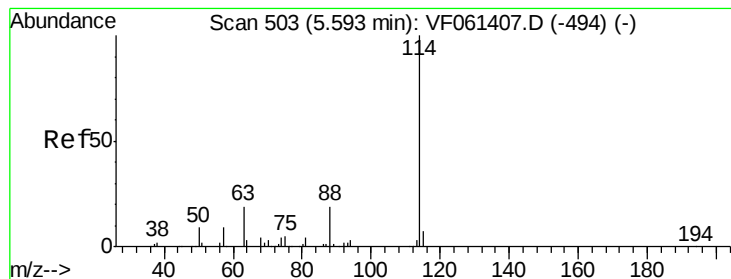
Tgt Ion: 65 Resp: 127634

Ion Ratio Lower Upper

65 100

67 48.7 0.0 99.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. 0.00 min

Lab File: VF061618.D

Acq: 12 Feb 2019 19:36

Instrument :

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ClientSampleId :

JC-02-021119-L

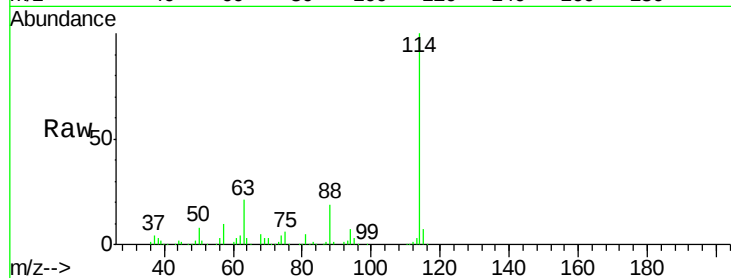
Tot Ion:114 Resp: 359471

Ion Ratio Lower Upper

114 100

63 21.4 0.0 39.0

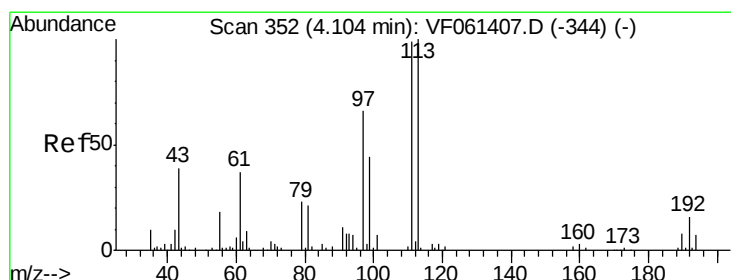
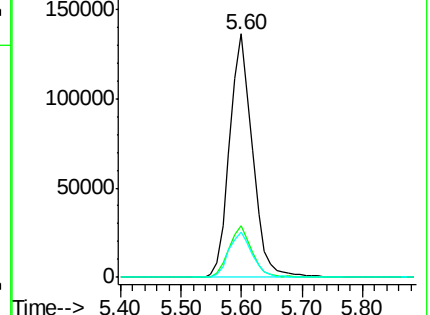
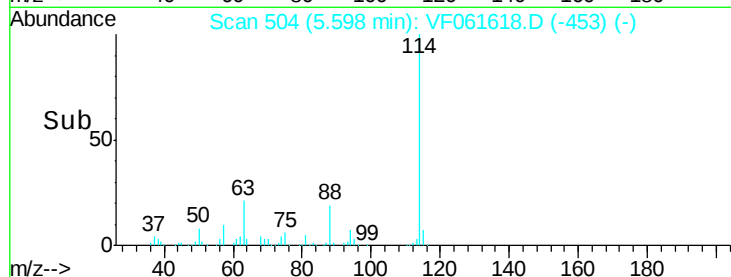
88 18.6 0.0 37.4



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: 49.666 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.01 min

Lab File: VF061618.D

Acq: 12 Feb 2019 19:36

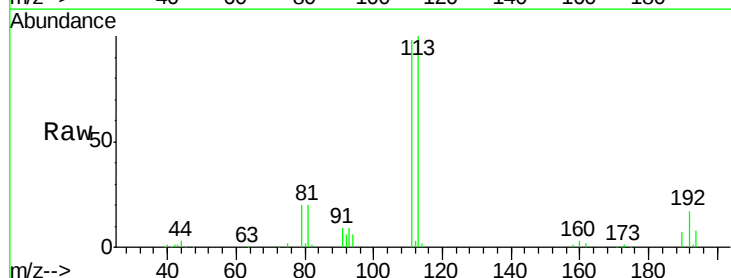
Tgt Ion:113 Resp: 140878

Ion Ratio Lower Upper

113 100

111 97.5 79.4 119.0

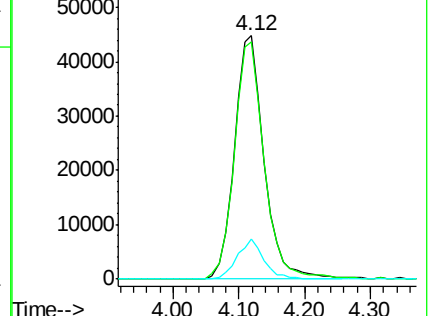
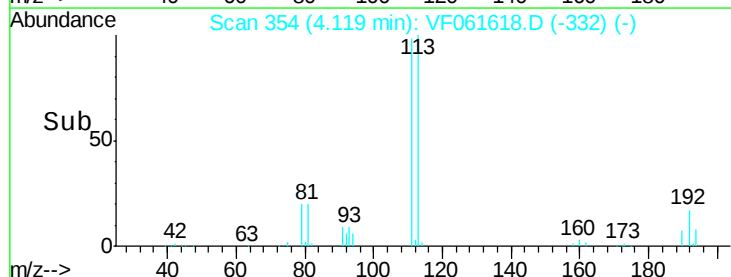
192 16.5 12.4 18.6

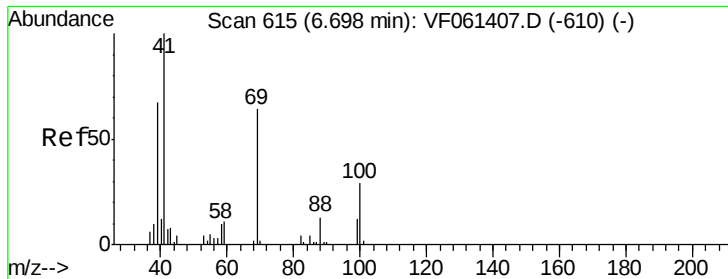


Abundance Ion 113.00 (112.70 to 113.70): V

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: 6.23 min Scan# 568

Delta R.T. -0.47 min

Lab File: VF061618.D

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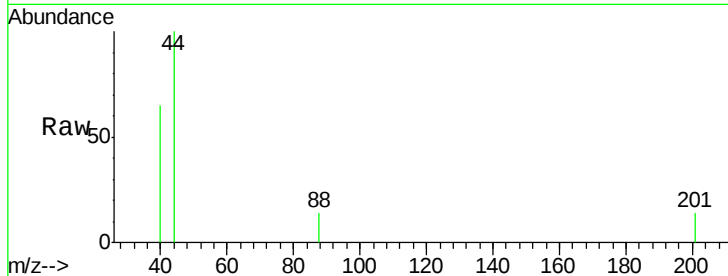
Tot Ion: 88 Resp: 67

Ion Ratio Lower Upper

88 100

43 0.0 55.5 83.3#

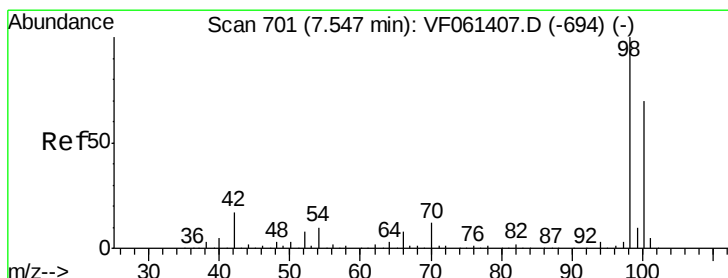
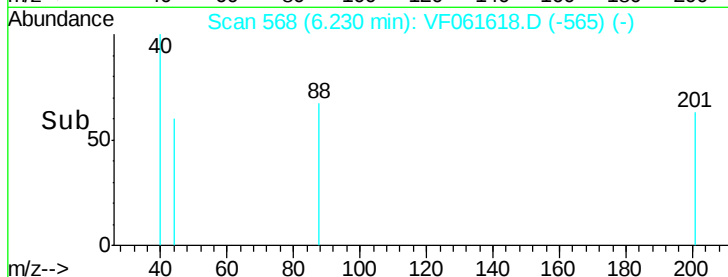
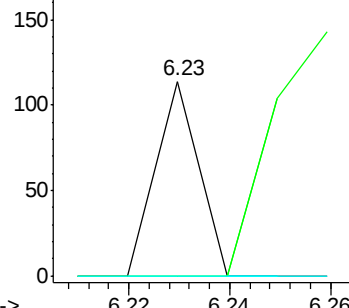
58 0.0 59.9 89.9#



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: 40.234 ug/l

RT: 7.55 min Scan# 702

Delta R.T. 0.00 min

Lab File: VF061618.D

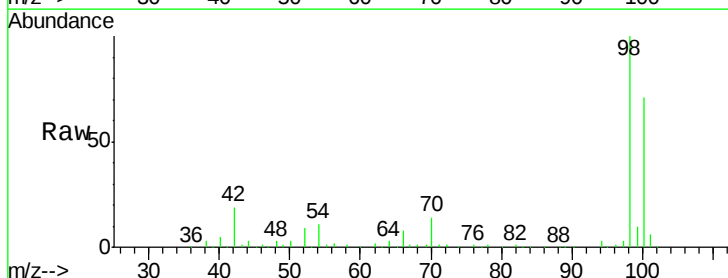
Acq: 12 Feb 2019 19:36

Tgt Ion: 98 Resp: 312683

Ion Ratio Lower Upper

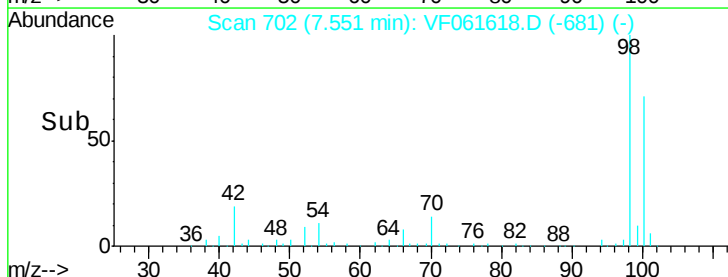
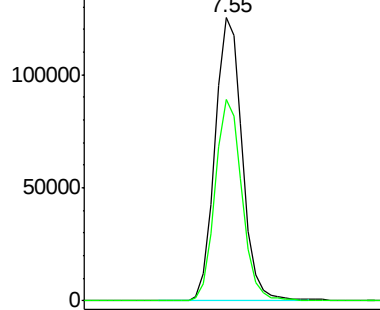
98 100

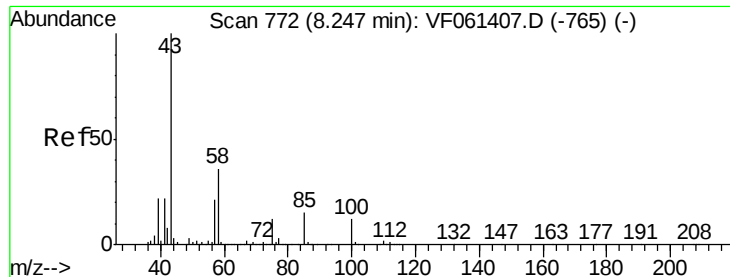
100 71.0 55.6 83.4



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: 1.411 ug/l

RT: 8.27 min Scan# 775

Delta R.T. 0.02 min

Lab File: VF061618.D

Acq: 12 Feb 2019 19:36

Instrument :

MSVOA_F

ClientSampleId :

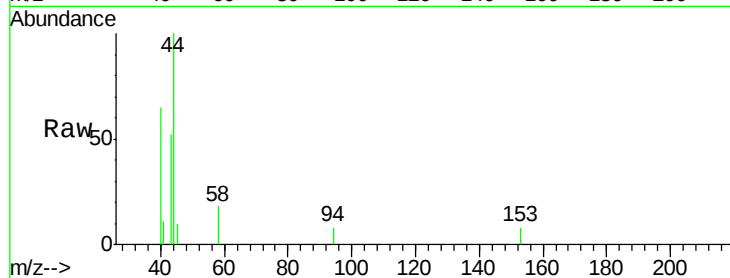
JC-02-021119-L

Tot Ion: 43 Resp: 2169

Ion Ratio Lower Upper

43 100

58 33.4 28.8 43.2



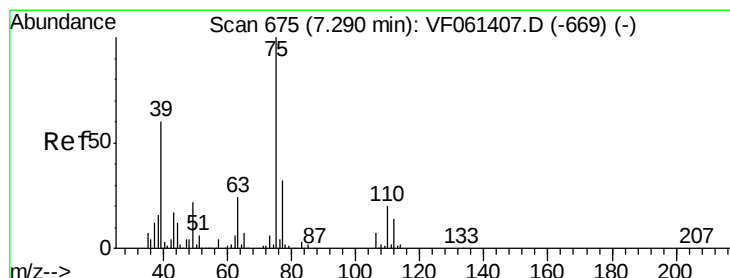
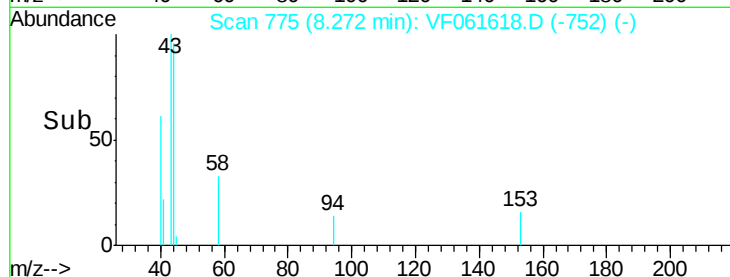
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.27

8.25 8.30 8.35

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 27.770 ug/l

RT: 7.16 min Scan# 662

Delta R.T. -0.13 min

Lab File: VF061618.D

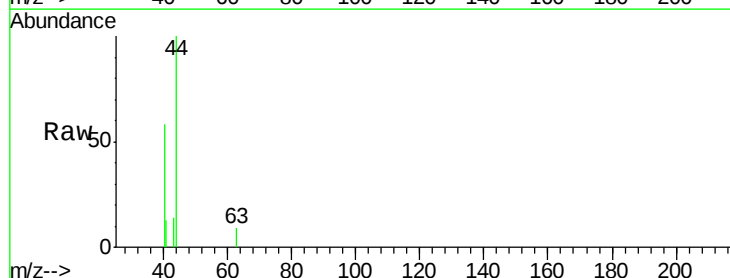
Acq: 12 Feb 2019 19:36

Tgt Ion: 63 Resp: 60

Ion Ratio Lower Upper

63 100

106 0.0 21.9 32.9#



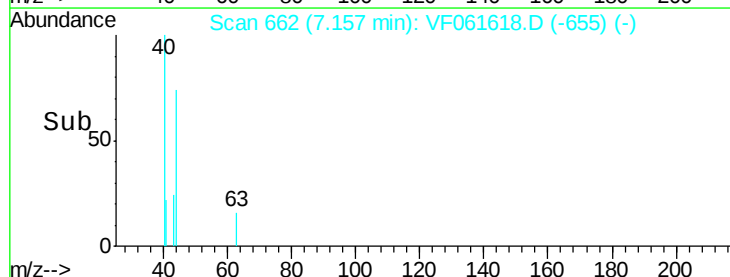
Abundance Ion 63.00 (62.70 to 63.70): VF0

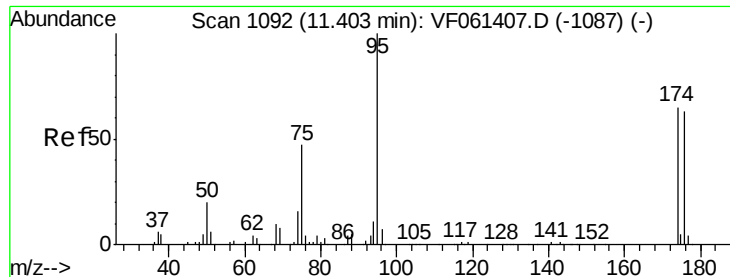
Ion 106.00 (105.70 to 106.70): V

7.16

7.12 7.14 7.18

Time-->

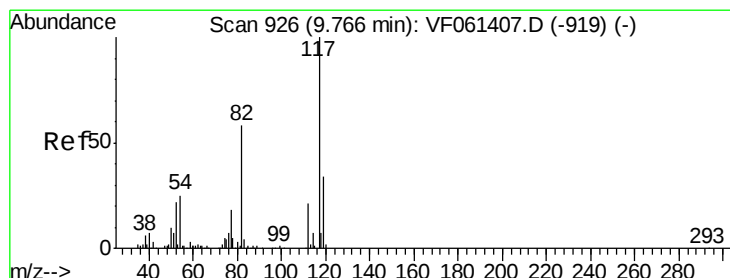
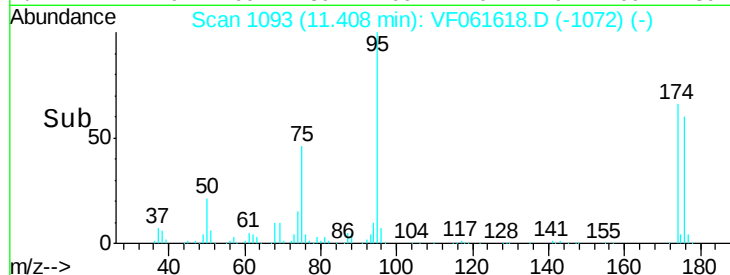
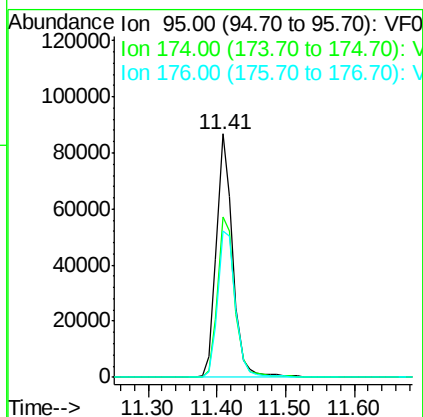
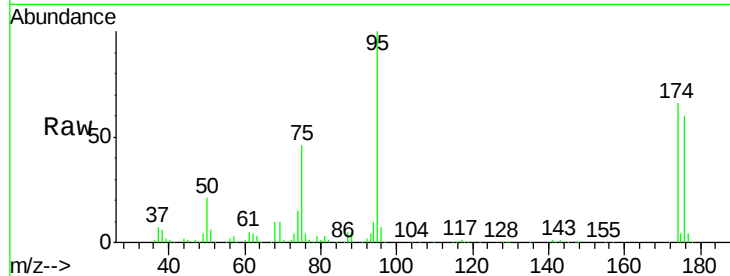




#62
4-Bromofluorobenzene
Concen: 39.615 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. 0.00 min
Lab File: VF061618.D
Acq: 12 Feb 2019 19:36

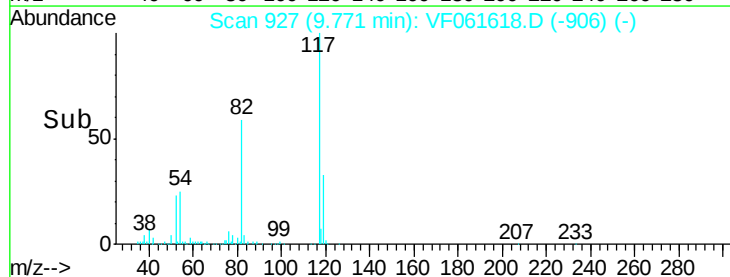
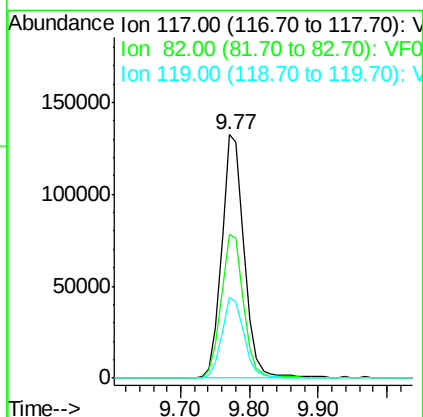
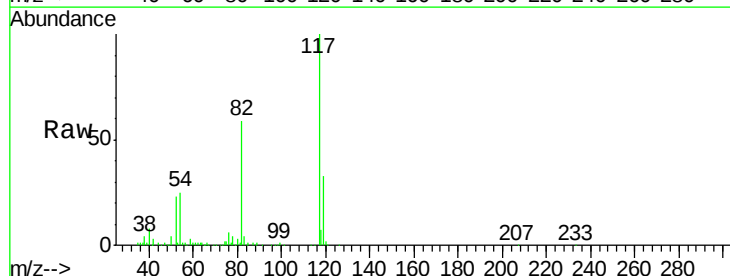
Instrument :
MSVOA_F
ClientSampleId :
JC-02-021119-L

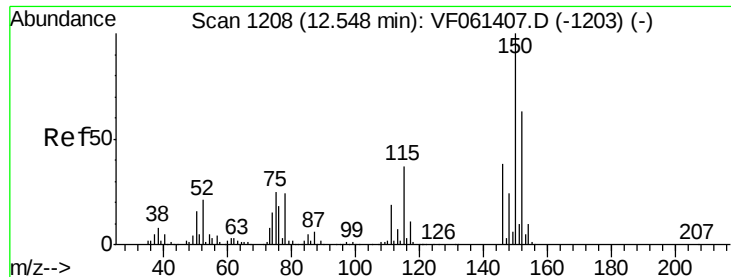
Tot Ion: 95 Resp: 143845
Ion Ratio Lower Upper
95 100
174 65.8 0.0 130.4
176 59.9 0.0 126.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. 0.00 min
Lab File: VF061618.D
Acq: 12 Feb 2019 19:36

Tgt Ion: 117 Resp: 298663
Ion Ratio Lower Upper
117 100
82 59.1 46.4 69.6
119 33.4 27.2 40.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. 0.00 min

Lab File: VF061618.D

Acq: 12 Feb 2019 19:36

Instrument :

MSVOA_F

ClientSampleId :

JC-02-021119-L

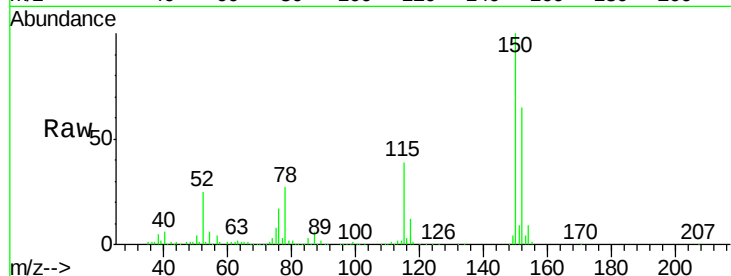
Tot Ion:152 Resp: 143989

Ion Ratio Lower Upper

152 100

115 59.5 30.0 90.0

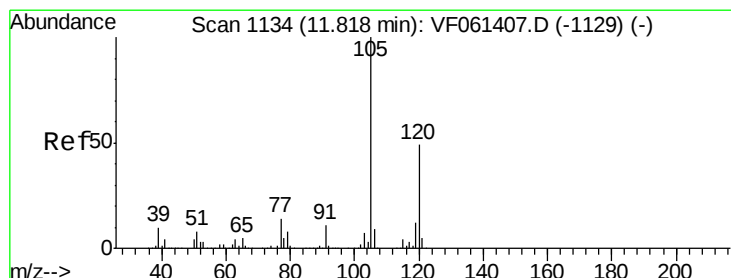
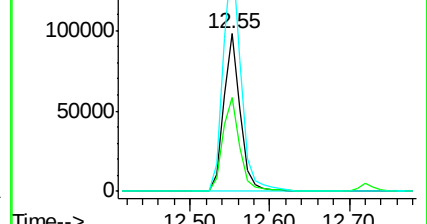
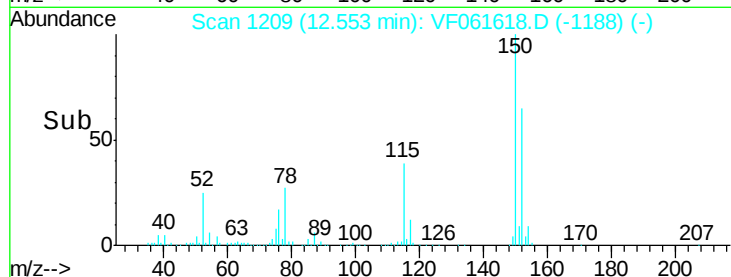
150 154.3 0.0 321.4



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



#80

1,3,5-Trimethylbenzene

Concen: 1.041 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. 0.00 min

Lab File: VF061618.D

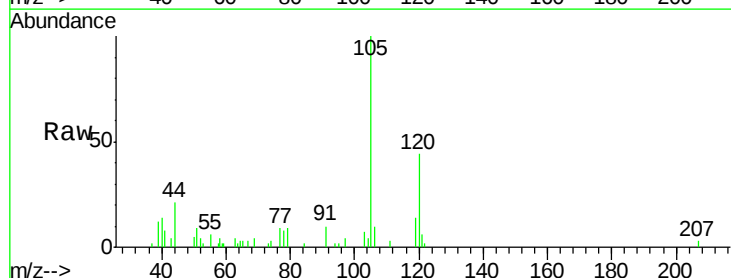
Acq: 12 Feb 2019 19:36

Tgt Ion:105 Resp: 9835

Ion Ratio Lower Upper

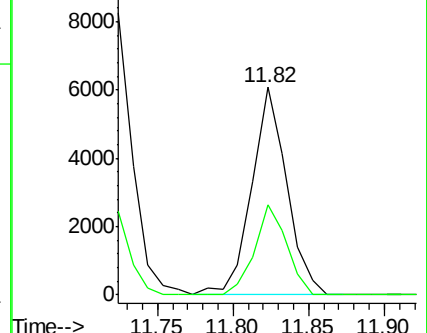
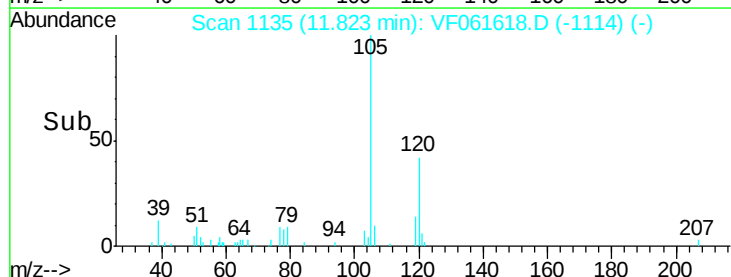
105 100

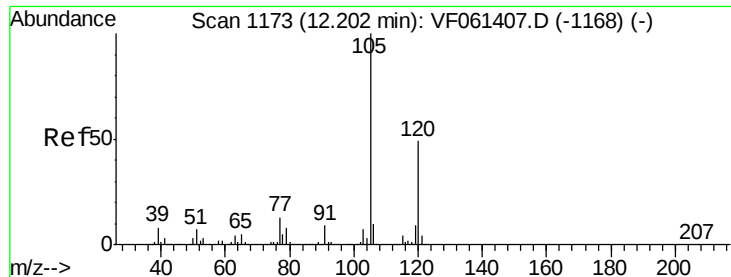
120 43.6 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#84

1,2,4-Trimethylbenzene

Concen: 3.932 ug/l

RT: 12.21 min Scan# 1174

Delta R.T. 0.00 min

Lab File: VF061618.D

Acq: 12 Feb 2019 19:36

Instrument :

MSVOA_F

ClientSampleId :

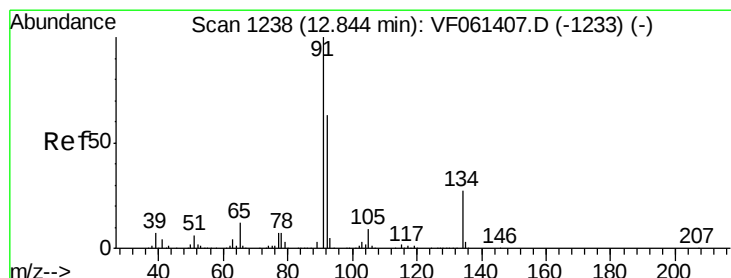
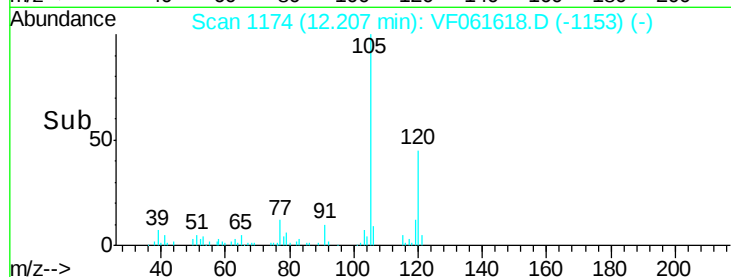
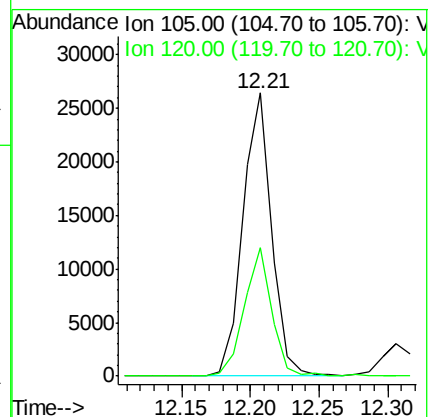
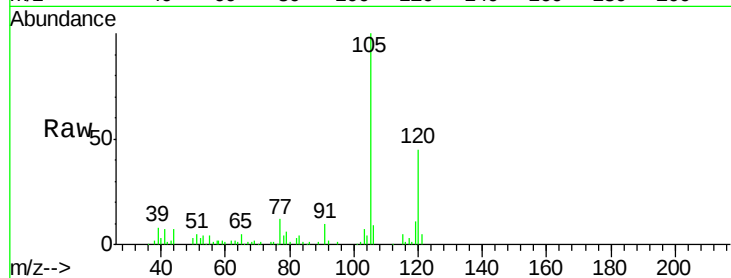
JC-02-021119-L

Tot Ion:105 Resp: 38273

Ion Ratio Lower Upper

105 100

120 45.4 24.9 74.6



#89

n-Butylbenzene

Concen: 1.110 ug/l

RT: 12.84 min Scan# 1238

Delta R.T. -0.00 min

Lab File: VF061618.D

Acq: 12 Feb 2019 19:36

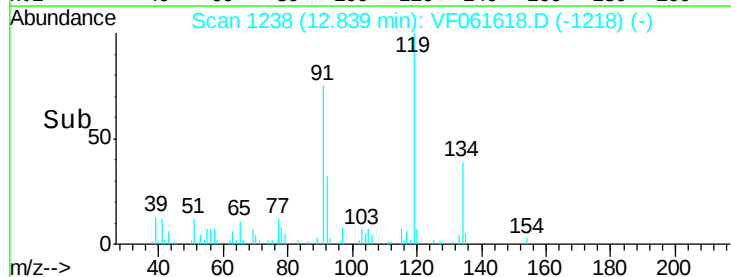
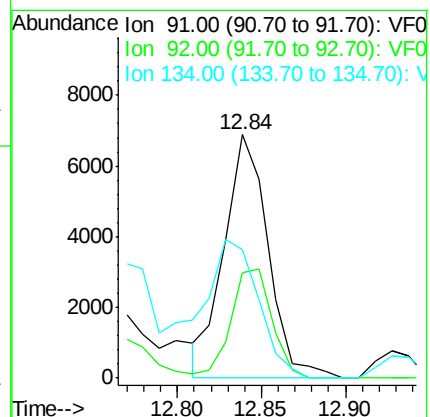
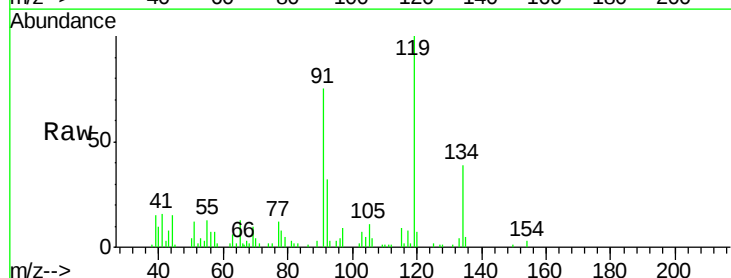
Tgt Ion: 91 Resp: 12483

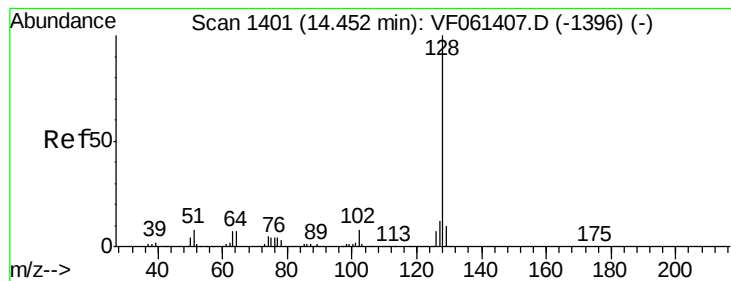
Ion Ratio Lower Upper

91 100

92 43.1 31.6 94.7

134 52.8 13.6 40.8#





#95

Naphthalene

Concen: 2.632 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. 0.00 min

Lab File: VF061618.D

Acq: 12 Feb 2019 19:36

Instrument :

MSVOA_F

ClientSampleId :

JC-02-021119-L

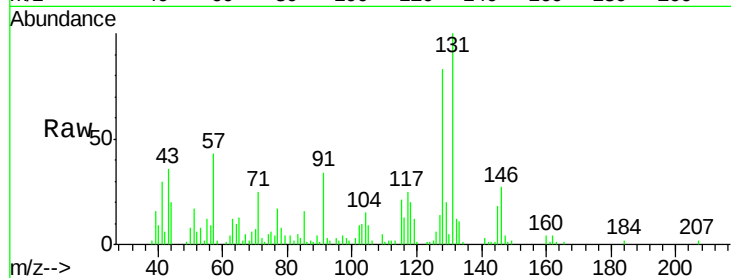
Tot Ion:128 Resp: 16208

Ion Ratio Lower Upper

128 100

127 17.0 9.5 14.3#

129 24.0 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

