

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062818\
 Data File : VF059367.D
 Acq On : 28 Jun 2018 18:20
 Operator : VA/AP
 Sample : J3242-15
 Misc : 5.57g/5mL/MSVOA-F/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 JC-02-062618-H

Quant Time: Jun 29 03:11:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	253465	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.77	114	388517	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.92	117	327681	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.63	152	173251	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	133364	40.73	ug/l	0.01
Spiked Amount			Recovery	=	81.46%	
35) Dibromofluoromethane	4.29	113	139512	49.15	ug/l	0.01
Spiked Amount			Recovery	=	98.30%	
50) Toluene-d8	7.71	98	264587	37.64	ug/l	0.01
Spiked Amount			Recovery	=	75.28%	
62) 4-Bromofluorobenzene	11.51	95	145610	36.73	ug/l	0.00
Spiked Amount			Recovery	=	73.46%	

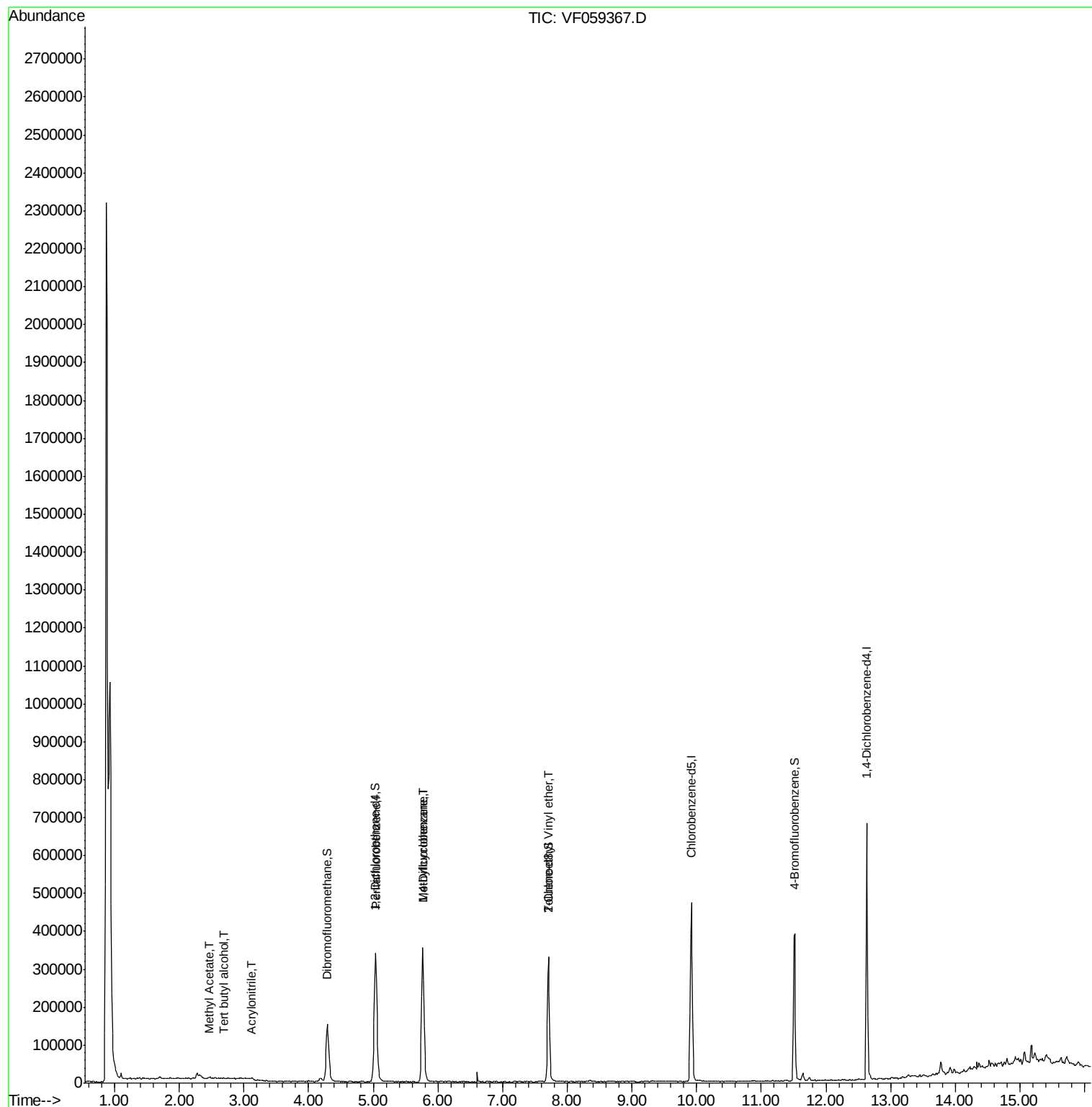
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.35	94	874	Below Cal	#	61
11) Tert butyl alcohol	2.67	59	726	3.330	ug/l #	22
13) Acrolein	2.06	56	439	Below Cal		90
15) Acrylonitrile	3.11	53	495	1.289	ug/l #	70
16) Acetone	2.33	43	1169	Below Cal	#	65
18) Methyl Acetate	2.45	43	4615	2.005	ug/l	98
20) Methylene Chloride	2.28	84	10630	Below Cal		96
25) 2-Butanone	4.50	43	369	Below Cal	#	59
28) Bromochloromethane	3.94	49	88	Below Cal	#	6
29) Tetrahydrofuran	4.21	42	487	Below Cal	#	53
37) Ethyl Acetate	4.28	43	104	Below Cal	#	26
39) Methylcyclohexane	5.77	83	4735	1.574	ug/l #	41
49) 1,4-Dioxane	6.89	88	62	Below Cal	#	21
58) 2-Chloroethyl Vinyl ether	7.71	63	513	2.526	ug/l	100
59) 2-Hexanone	9.72	43	366	Below Cal		86
87) 1,3-Dichlorobenzene	12.55	146	264	Below Cal	#	1

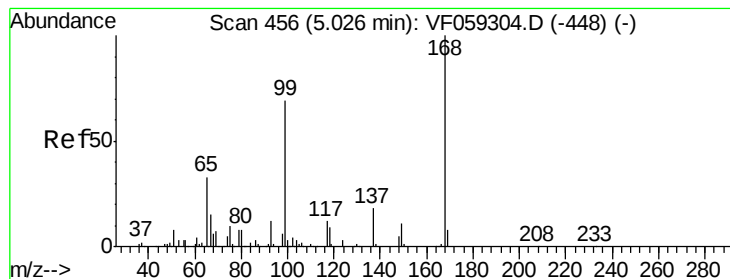
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 457

Delta R.T. 0.01 min

Lab File: VF059367.D

Acq: 28 Jun 2018 18:20

Instrument :

MSVOA_F

ClientSampleId :

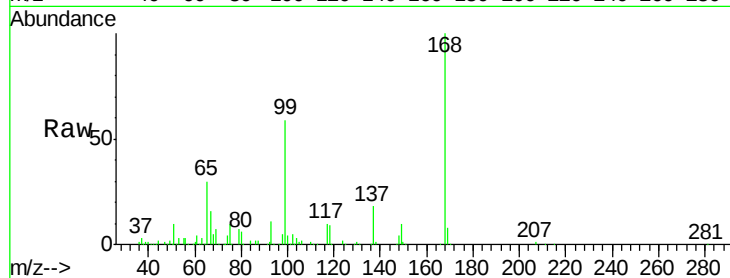
JC-02-062618-H

Tot Ion:168 Resp: 253465

Ion Ratio Lower Upper

168 100

99 58.7 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.04

80000

60000

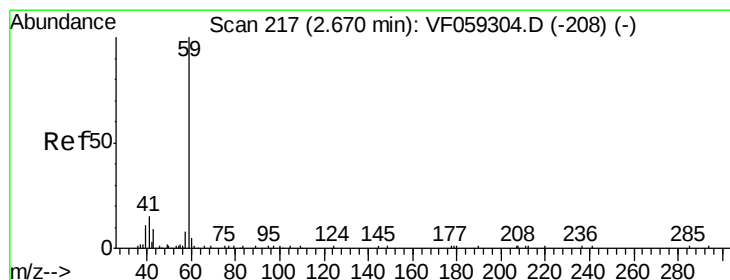
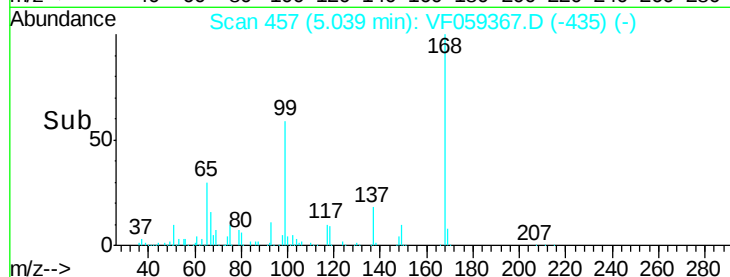
40000

20000

0

4.90 5.00 5.10 5.20

Time-->



#11

Tert butyl alcohol

Concen: 3.330 ug/l

RT: 2.67 min Scan# 217

Delta R.T. 0.00 min

Lab File: VF059367.D

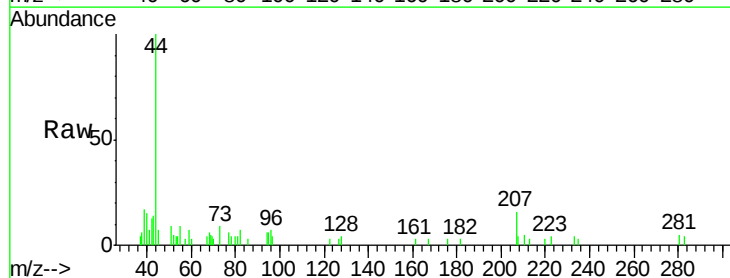
Acq: 28 Jun 2018 18:20

Tgt Ion: 59 Resp: 726

Ion Ratio Lower Upper

59 100

57 45.0 11.0 16.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.67

400

300

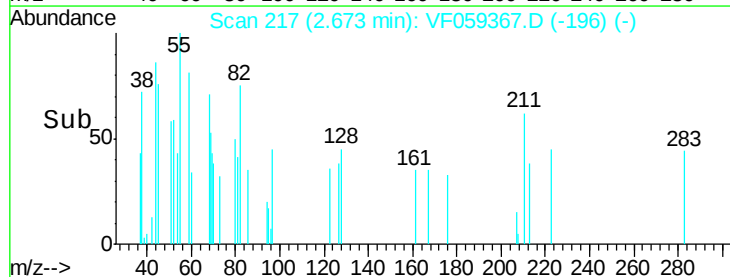
200

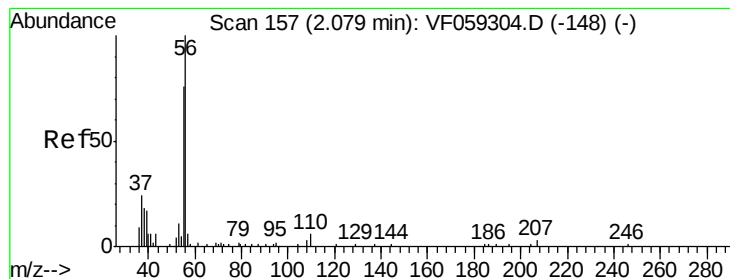
100

0

2.60 2.65 2.70

Time-->





#13

Acrolein

Concen: Below Cal

RT: 2.06 min Scan# 155

Delta R.T. -0.02 min

Lab File: VF059367.D

Acq: 28 Jun 2018 18:20

Instrument :

MSVOA_F

ClientSampleId :

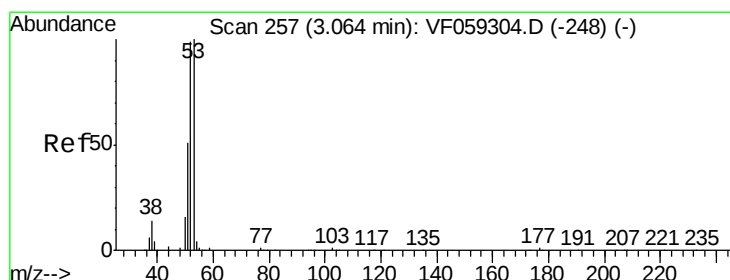
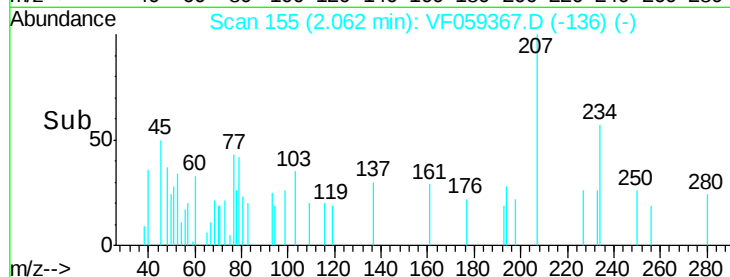
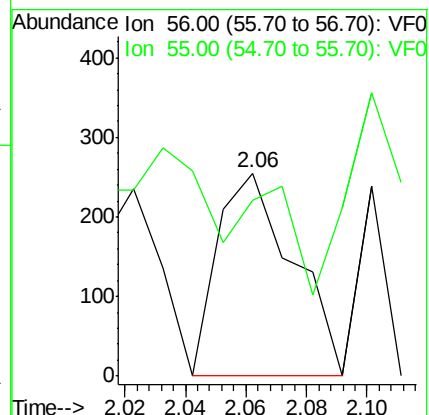
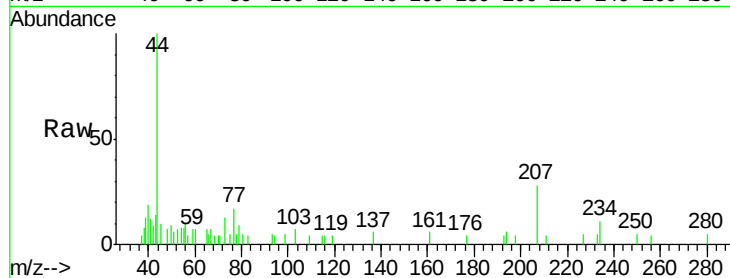
JC-02-062618-H

Tot Ion: 56 Resp: 439

Ion Ratio Lower Upper

56 100

55 86.7 62.4 93.6



#15

Acrylonitrile

Concen: 1.289 ug/l

RT: 3.11 min Scan# 261

Delta R.T. 0.04 min

Lab File: VF059367.D

Acq: 28 Jun 2018 18:20

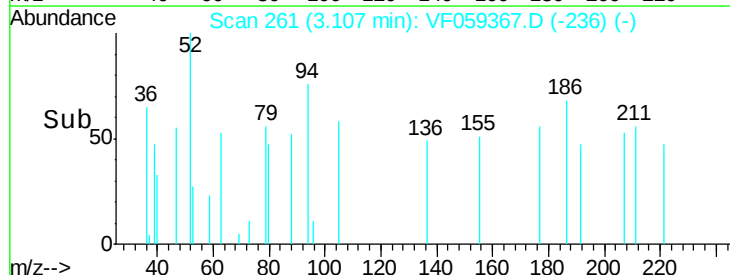
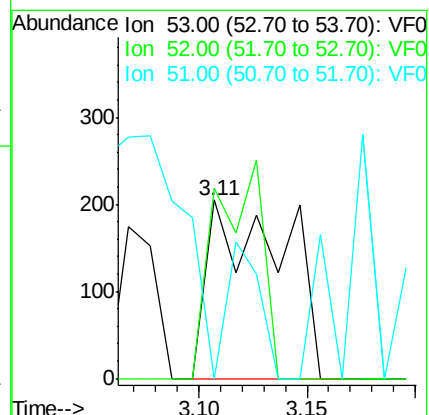
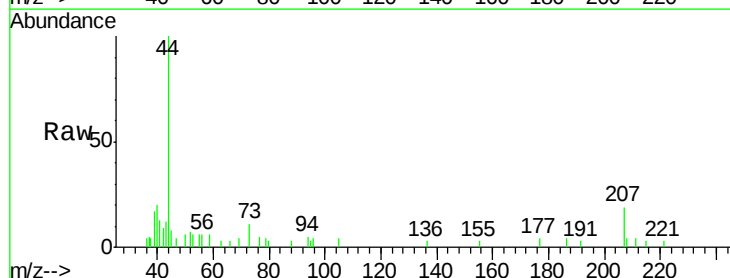
Tgt Ion: 53 Resp: 495

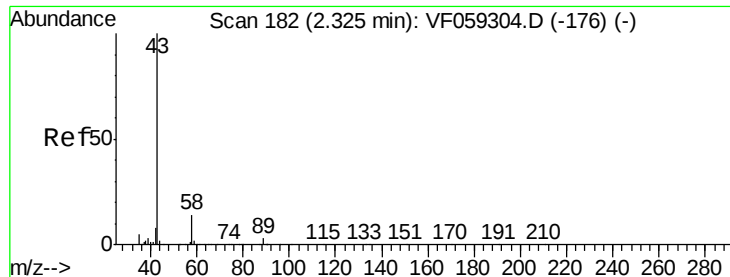
Ion Ratio Lower Upper

53 100

52 106.8 79.2 118.8

51 0.0 40.9 61.3#





#16

Acetone

Concen: Below Cal

RT: 2.33 min Scan# 182

Delta R.T. 0.00 min

Lab File: VF059367.D

Acq: 28 Jun 2018 18:20

Instrument :

MSVOA_F

ClientSampleId :

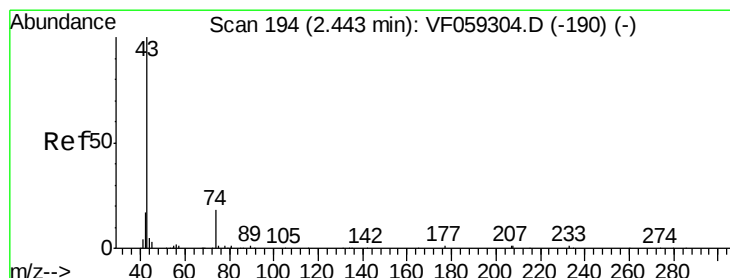
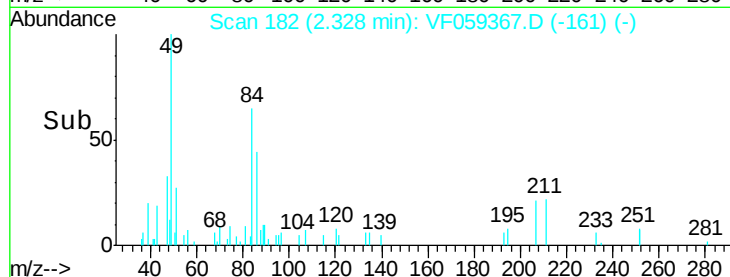
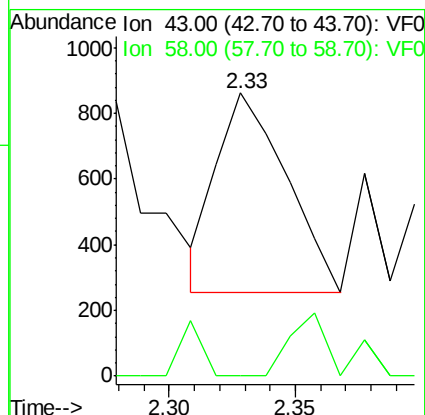
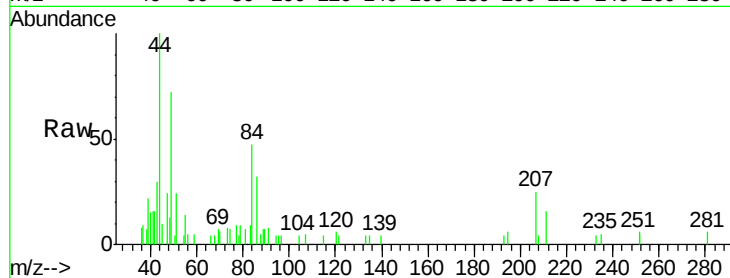
JC-02-062618-H

Tot Ion: 43 Resp: 1169

Ion Ratio Lower Upper

43 100

58 0.0 11.4 17.0#



#18

Methyl Acetate

Concen: 2.005 ug/l

RT: 2.45 min Scan# 194

Delta R.T. 0.00 min

Lab File: VF059367.D

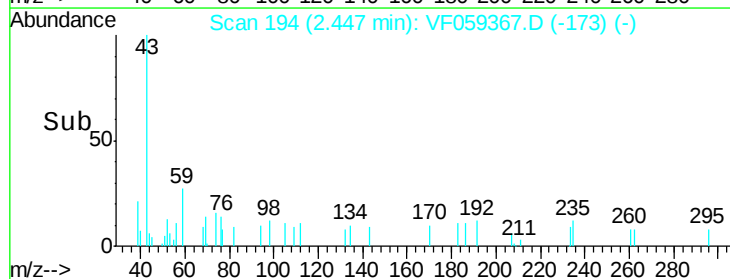
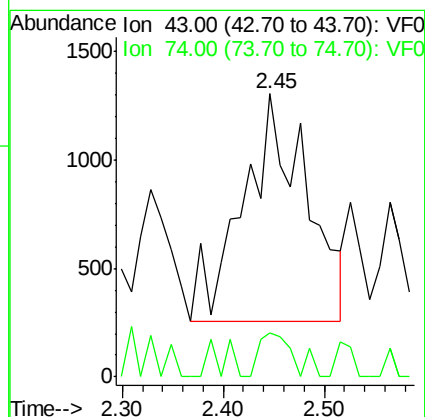
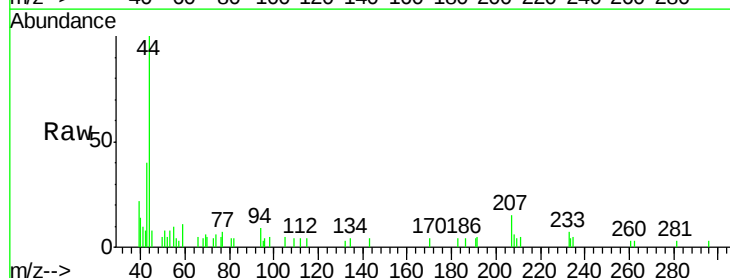
Acq: 28 Jun 2018 18:20

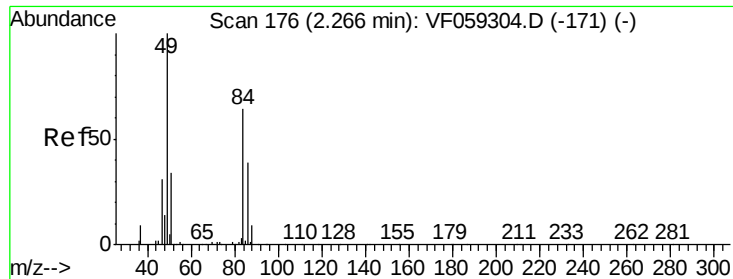
Tgt Ion: 43 Resp: 4615

Ion Ratio Lower Upper

43 100

74 15.7 13.3 19.9

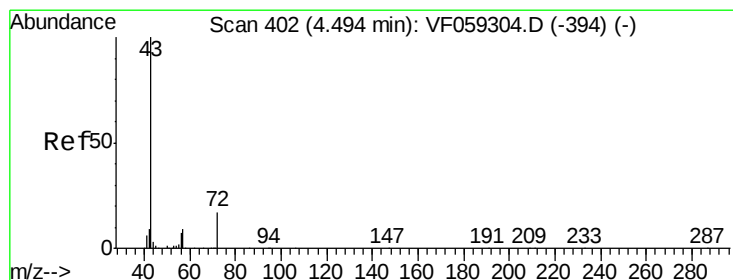
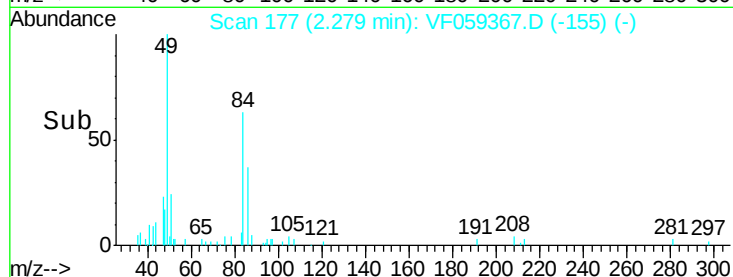
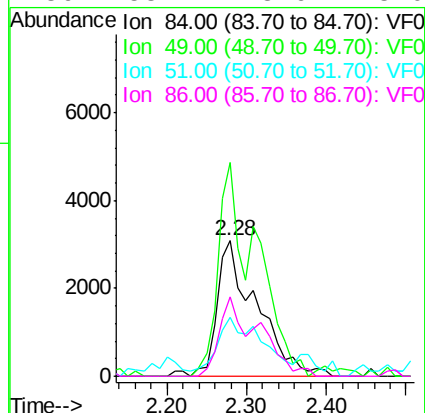
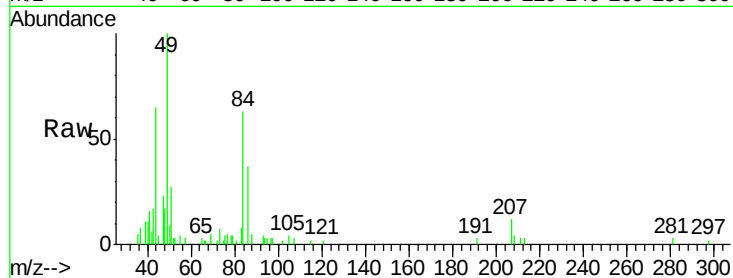




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.28 min Scan# 177
Delta R.T. 0.01 min
Lab File: VF059367.D
Acq: 28 Jun 2018 18:20

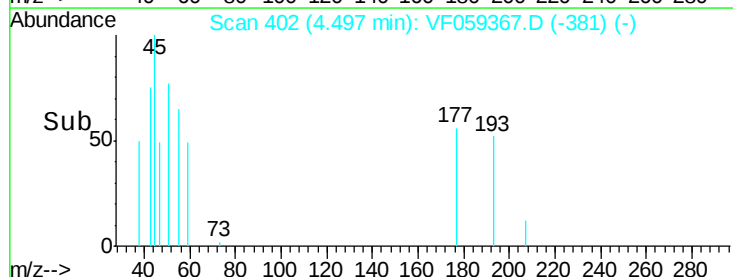
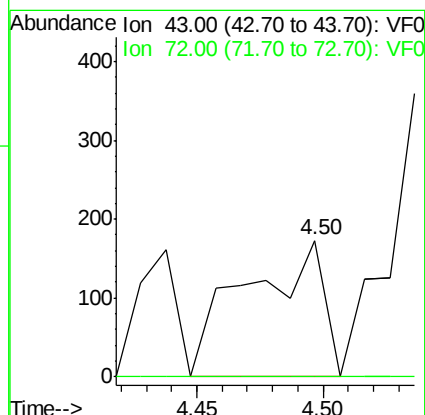
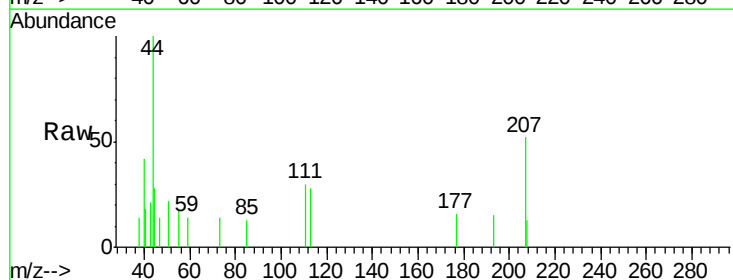
Instrument :
MSVOA_F
ClientSampleId :
JC-02-062618-H

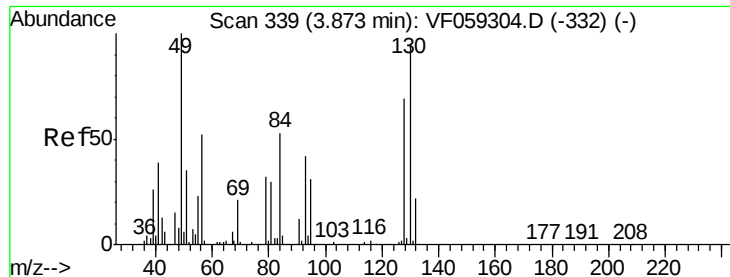
Tot Ion: 84 Resp: 10630
Ion Ratio Lower Upper
84 100
49 157.9 126.5 189.7
51 43.3 42.9 64.3
86 58.4 48.6 73.0



#25
2-Butanone
Concen: Below Cal
RT: 4.50 min Scan# 402
Delta R.T. 0.00 min
Lab File: VF059367.D
Acq: 28 Jun 2018 18:20

Tgt Ion: 43 Resp: 369
Ion Ratio Lower Upper
43 100
72 0.0 14.4 21.6#





#28

Bromochloromethane

Concen: Below Cal

RT: 3.94 min Scan# 345

Delta R.T. 0.06 min

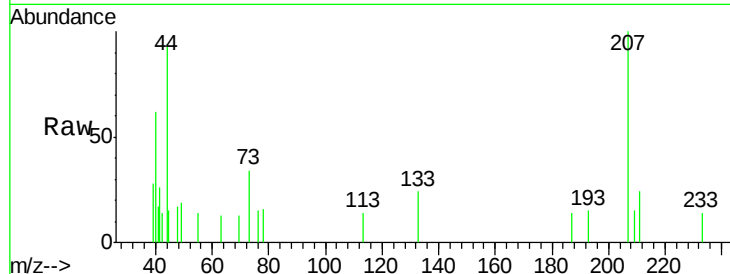
Lab File: VF059367.D

Acq: 28 Jun 2018 18:20

Instrument :
MSVOA_F
ClientSampleId :
JC-02-062618-H

Tot Ion: 49 Resp: 88

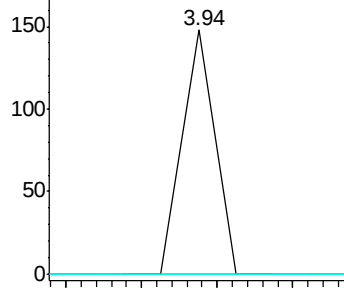
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	6.4
130	0.0	75.1	112.7



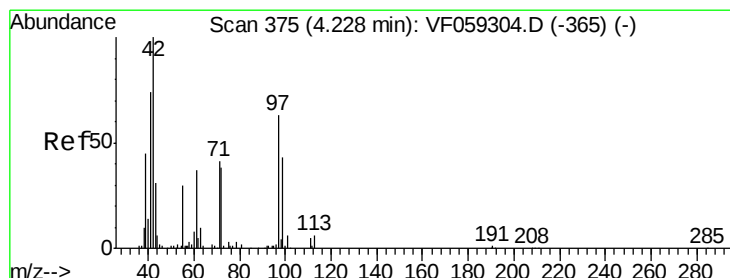
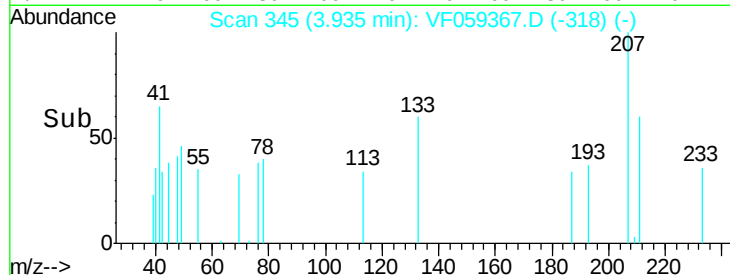
Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V



Time-->



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.21 min Scan# 373

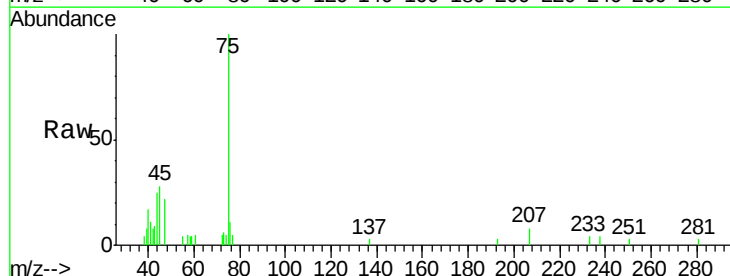
Delta R.T. -0.02 min

Lab File: VF059367.D

Acq: 28 Jun 2018 18:20

Tgt Ion: 42 Resp: 487

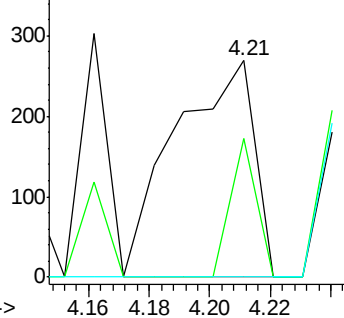
Ion	Ratio	Lower	Upper
42	100		
72	20.9	30.5	45.7
71	0.0	32.5	48.7



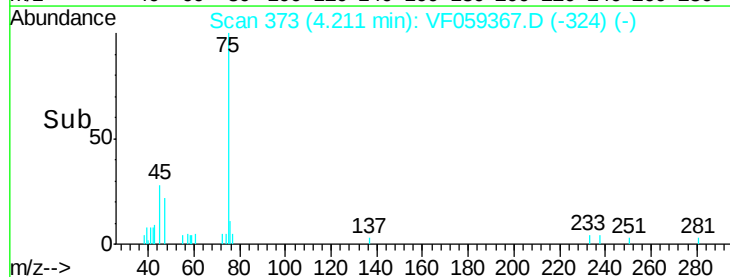
Abundance Ion 42.00 (41.70 to 42.70): VF0

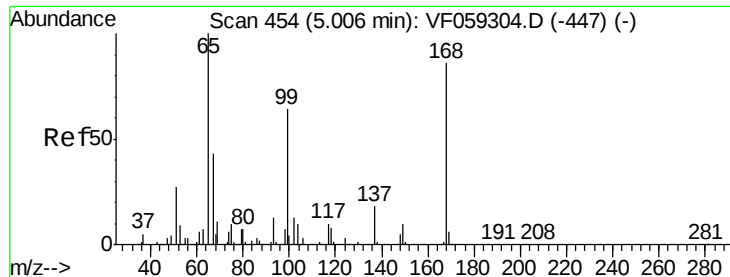
Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



Time-->





#33

1,2-Dichloroethane-d4

Concen: 40.725 ug/l

RT: 5.02 min Scan# 455

Delta R.T. 0.01 min

Lab File: VF059367.D

Acq: 28 Jun 2018 18:20

Instrument :

MSVOA_F

ClientSampleId :

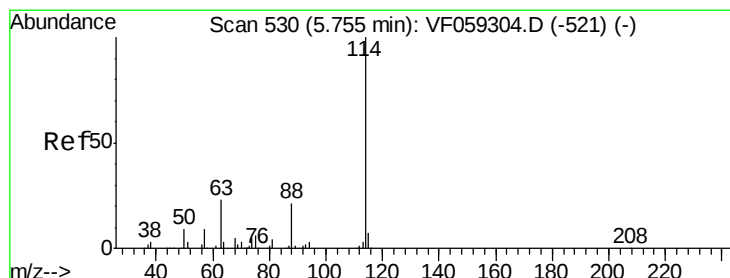
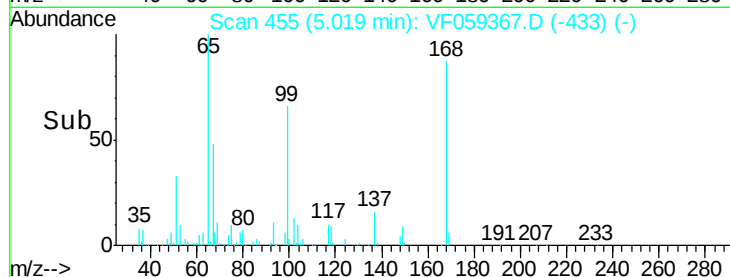
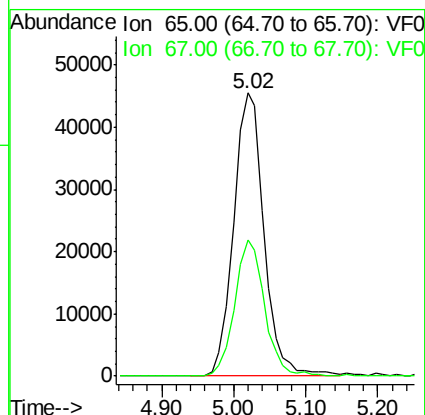
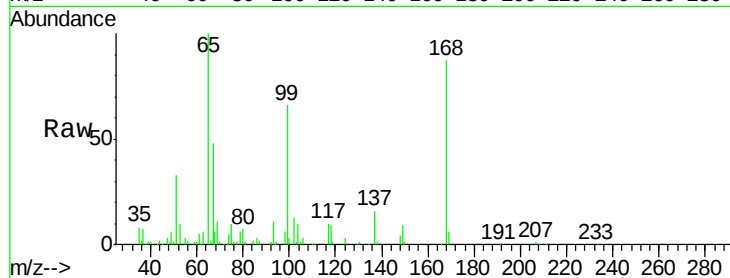
JC-02-062618-H

Tot Ion: 65 Resp: 133364

Ion Ratio Lower Upper

65 100

67 48.2 0.0 96.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 531

Delta R.T. 0.01 min

Lab File: VF059367.D

Acq: 28 Jun 2018 18:20

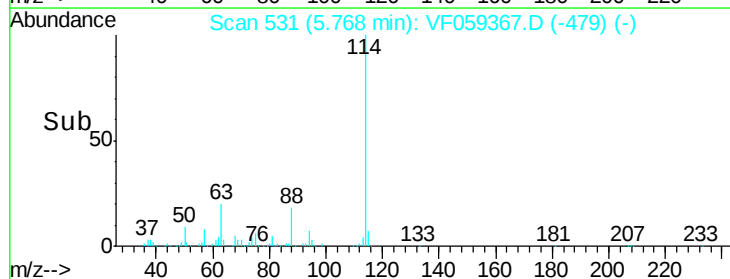
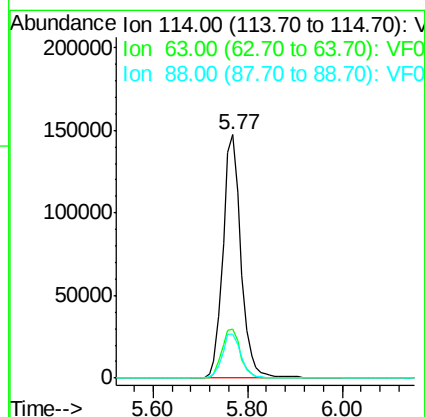
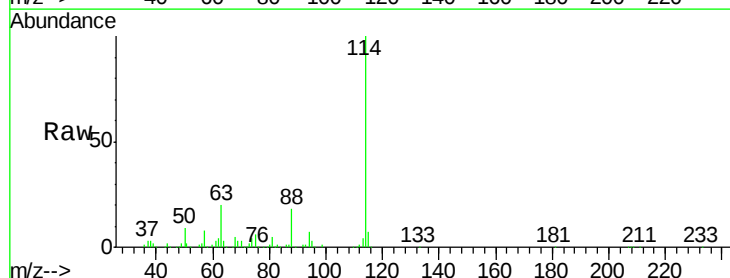
Tgt Ion: 114 Resp: 388517

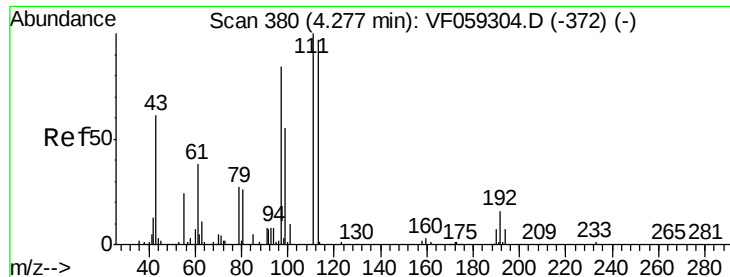
Ion Ratio Lower Upper

114 100

63 20.4 0.0 45.8

88 18.1 0.0 41.2

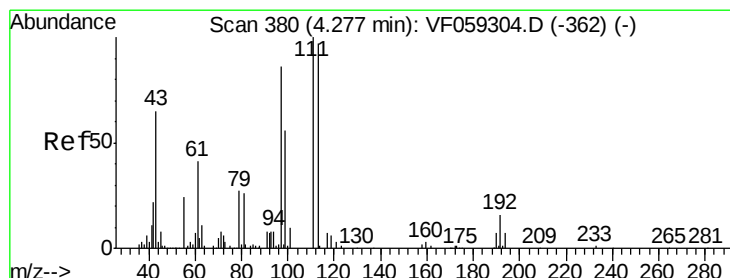
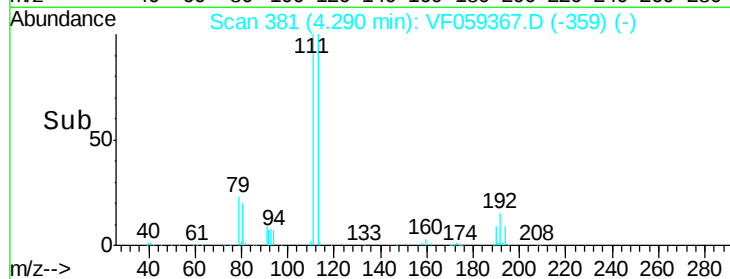
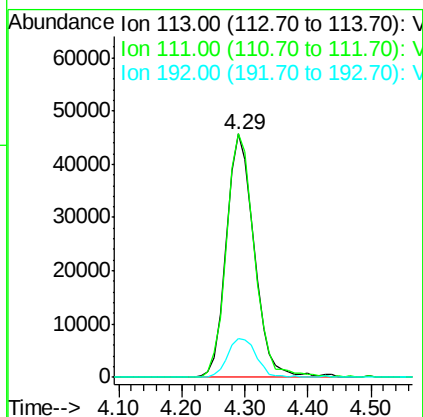
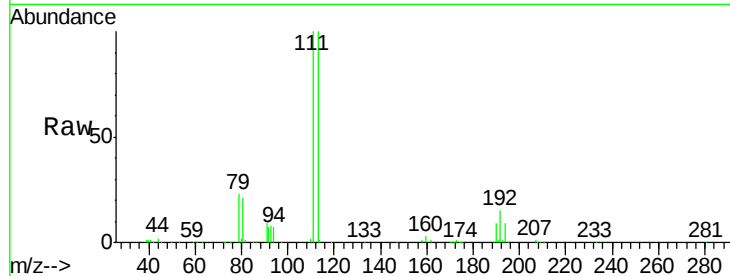




#35
Dibromofluoromethane
Concen: 49.145 ug/l
RT: 4.29 min Scan# 381
Delta R.T. 0.01 min
Lab File: VF059367.D
Acq: 28 Jun 2018 18:20

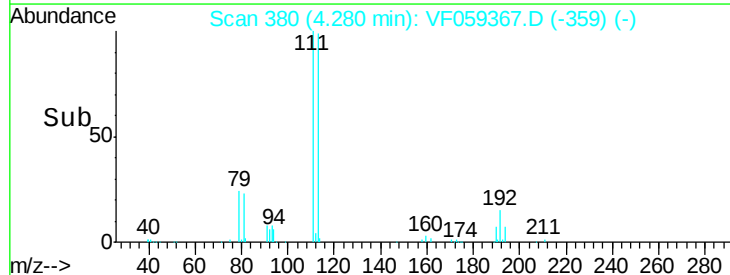
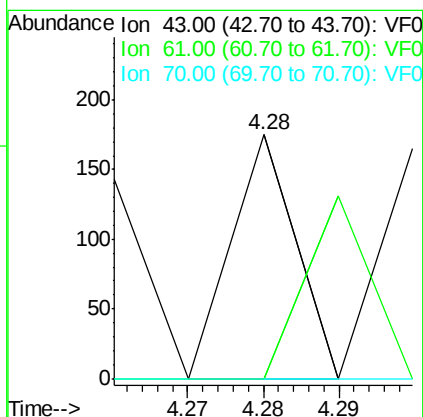
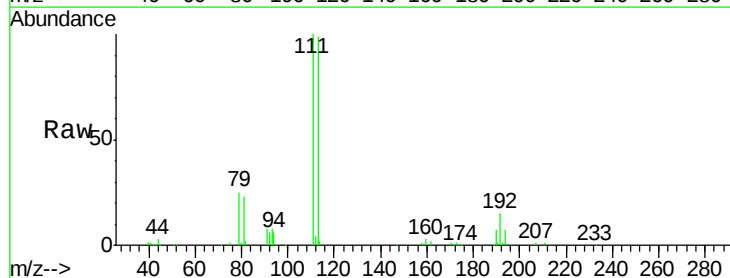
Instrument :
MSVOA_F
ClientSampleId :
JC-02-062618-H

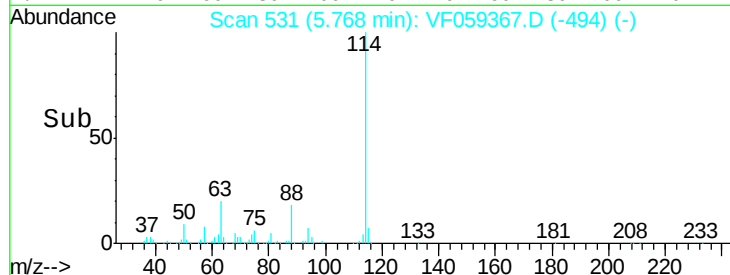
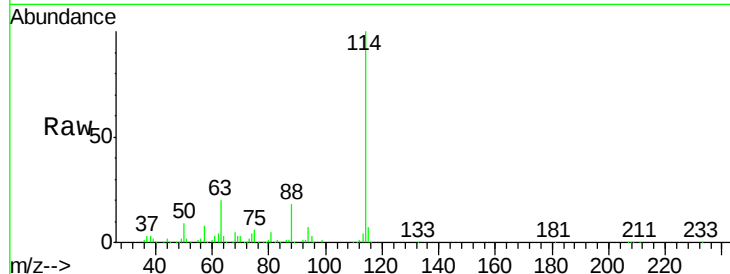
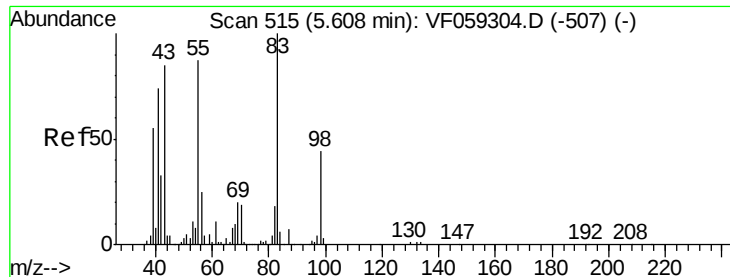
Tot Ion	Ratio	Lower	Upper
113	100		
111	98.5	82.1	123.1
192	15.7	13.0	19.6



#37
Ethyl Acetate
Concen: Below Cal
RT: 4.28 min Scan# 380
Delta R.T. 0.00 min
Lab File: VF059367.D
Acq: 28 Jun 2018 18:20

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	50.1	75.1#
70	0.0	6.2	9.4#

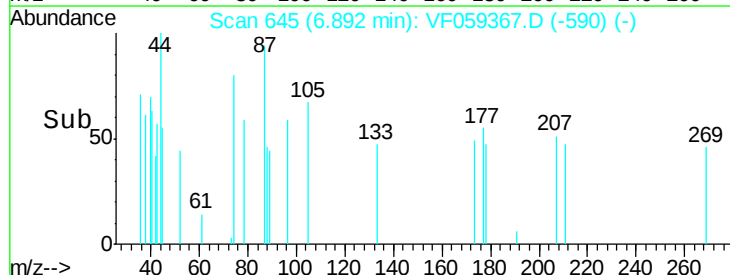
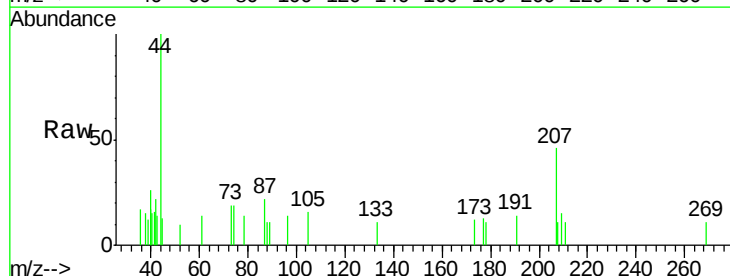
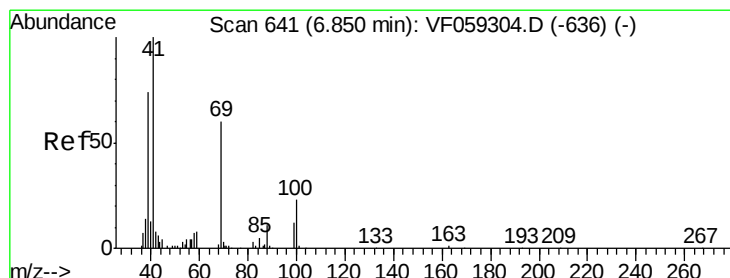
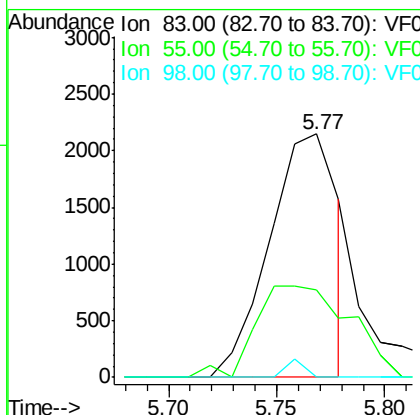




#39
Methylcyclohexane
Concen: 1.574 ug/l
RT: 5.77 min Scan# 531
Delta R.T. 0.16 min
Lab File: VF059367.D
Acq: 28 Jun 2018 18:20

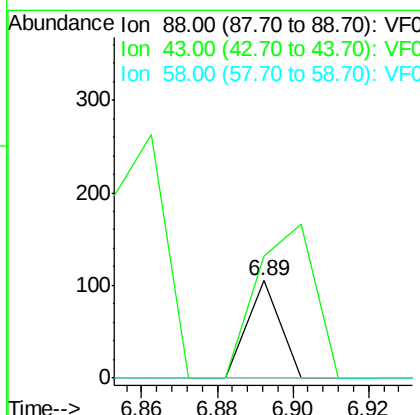
Instrument :
MSVOA_F
ClientSampleId :
JC-02-062618-H

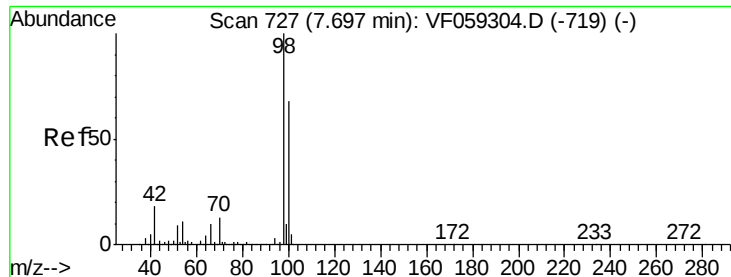
Tot Ion: 83 Resp: 4735
Ion Ratio Lower Upper
83 100
55 35.8 69.2 103.8#
98 0.0 35.0 52.6#



#49
1,4-Dioxane
Concen: Below Cal
RT: 6.89 min Scan# 645
Delta R.T. 0.04 min
Lab File: VF059367.D
Acq: 28 Jun 2018 18:20

Tgt Ion: 88 Resp: 62
Ion Ratio Lower Upper
88 100
43 124.8 50.6 75.8#
58 0.0 46.6 69.8#





#50

Toluene-d8

Concen: 37.645 ug/l

RT: 7.71 min Scan# 728

Delta R.T. 0.01 min

Lab File: VF059367.D

Acq: 28 Jun 2018 18:20

Instrument :

MSVOA_F

ClientSampleId :

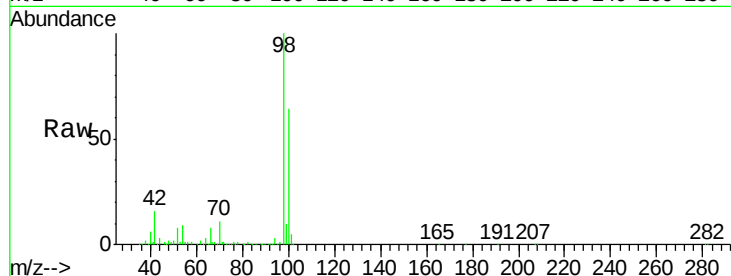
JC-02-062618-H

Tot Ion: 98 Resp: 264587

Ion Ratio Lower Upper

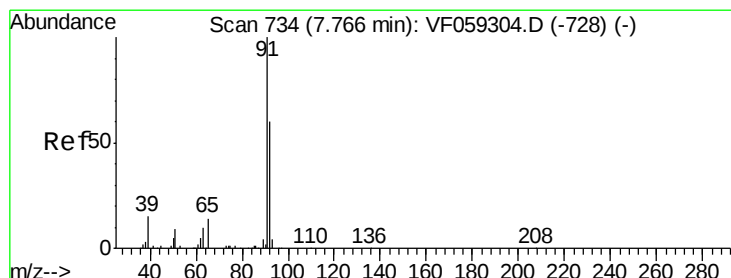
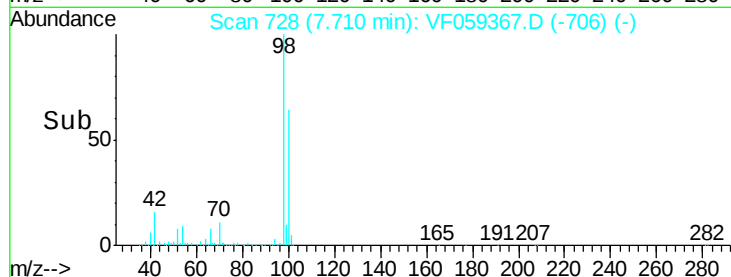
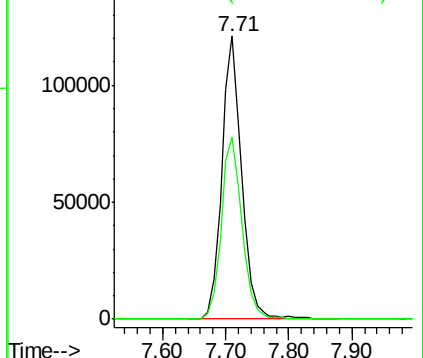
98 100

100 64.4 54.6 82.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 2.526 ug/l

RT: 7.71 min Scan# 728

Delta R.T. -0.06 min

Lab File: VF059367.D

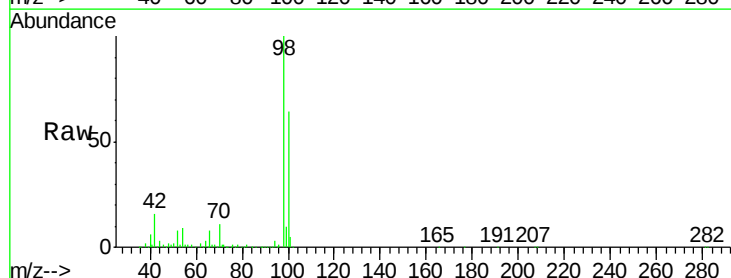
Acq: 28 Jun 2018 18:20

Tgt Ion: 63 Resp: 513

Ion Ratio Lower Upper

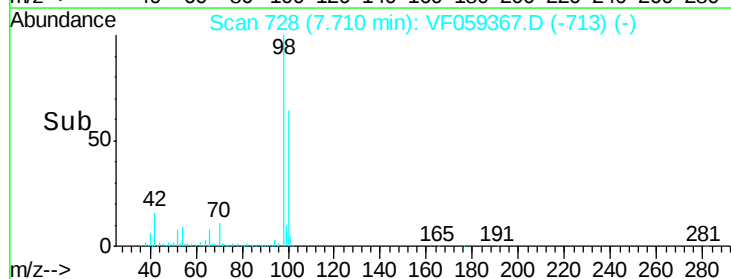
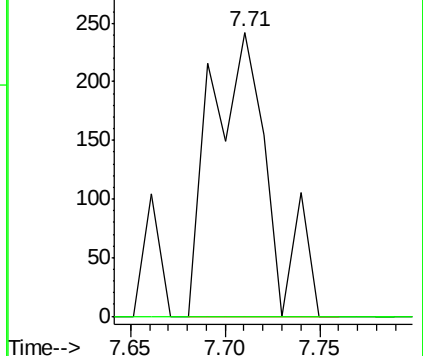
63 100

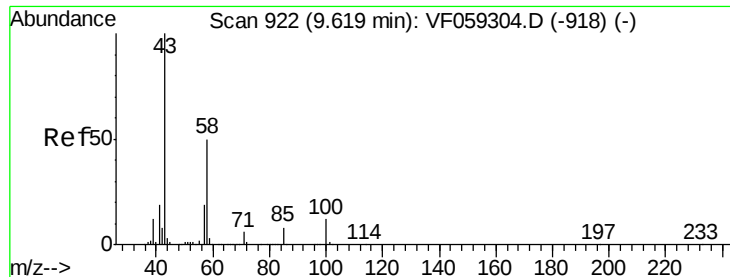
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

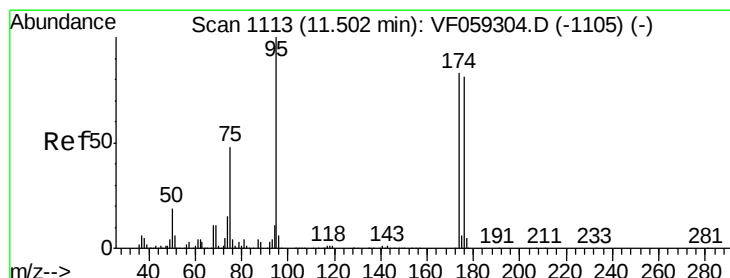
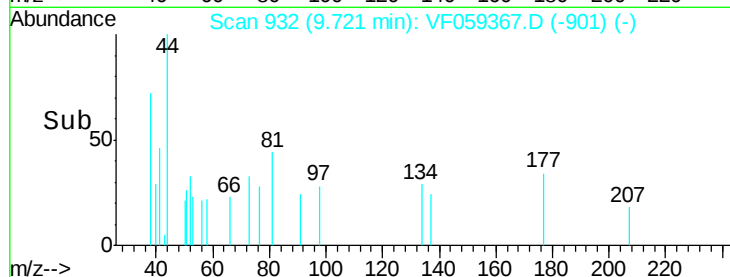
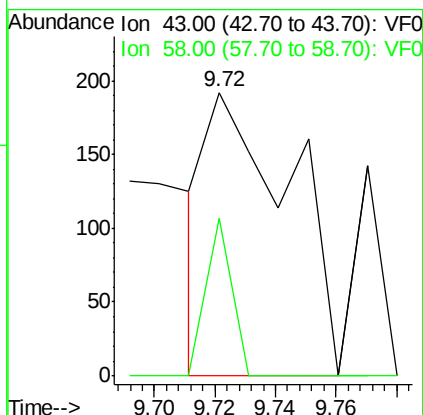
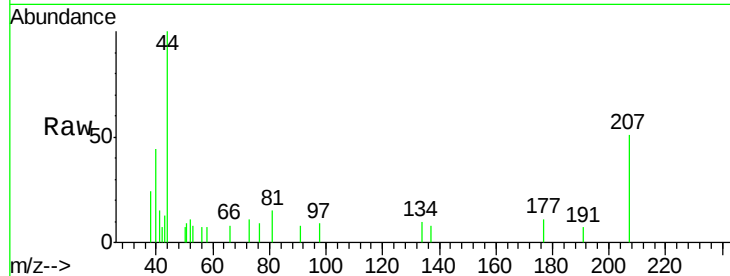




#59
2-Hexanone
Concen: Below Cal
RT: 9.72 min Scan# 932
Delta R.T. 0.10 min
Lab File: VF059367.D
Acq: 28 Jun 2018 18:20

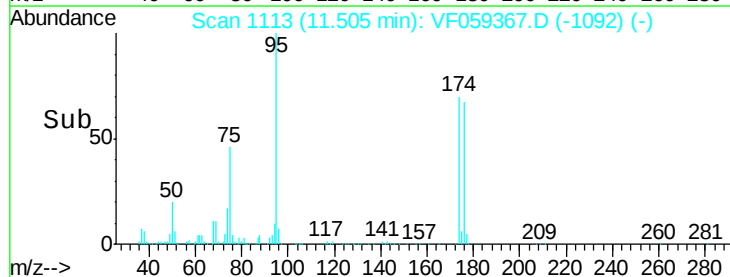
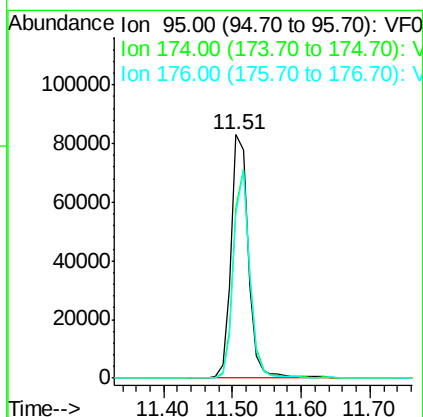
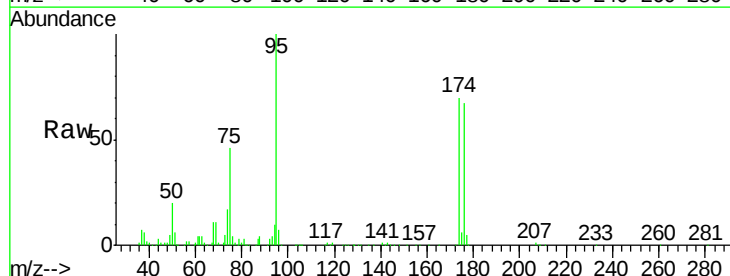
Instrument :
MSVOA_F
ClientSampleId :
JC-02-062618-H

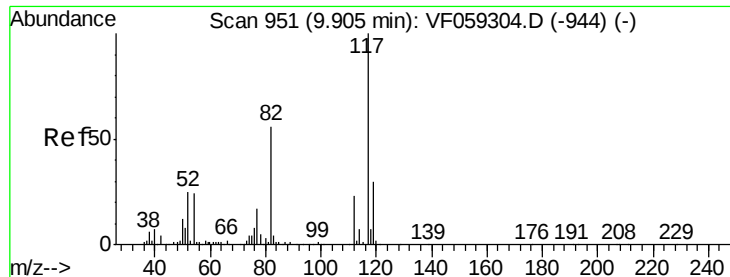
Tot Ion: 43 Resp: 366
Ion Ratio Lower Upper
43 100
58 55.7 23.3 69.9



#62
4-Bromofluorobenzene
Concen: 36.726 ug/l
RT: 11.51 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VF059367.D
Acq: 28 Jun 2018 18:20

Tgt Ion: 95 Resp: 145610
Ion Ratio Lower Upper
95 100
174 70.1 0.0 165.2
176 67.5 0.0 161.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.92 min Scan# 952

Delta R.T. 0.01 min

Lab File: VF059367.D

Acq: 28 Jun 2018 18:20

Instrument :

MSVOA_F

ClientSampleId :

JC-02-062618-H

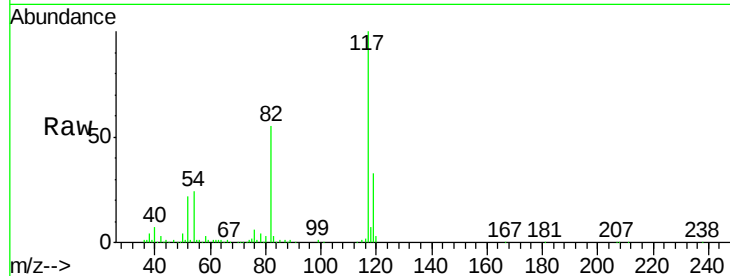
Tot Ion:117 Resp: 327681

Ion Ratio Lower Upper

117 100

82 55.3 44.6 66.8

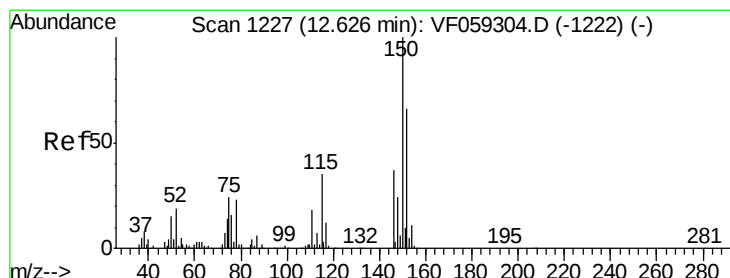
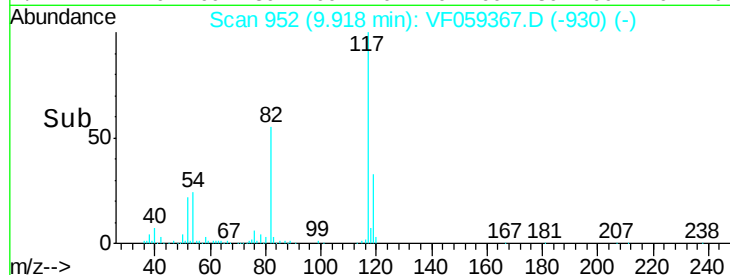
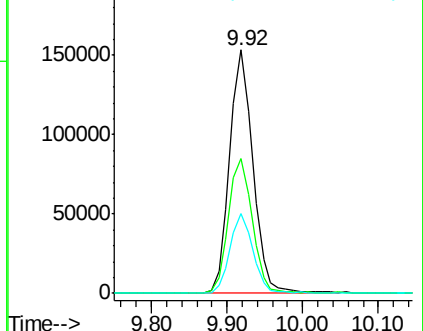
119 32.9 24.1 36.1



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: 12.63 min Scan# 1227

Delta R.T. 0.00 min

Lab File: VF059367.D

Acq: 28 Jun 2018 18:20

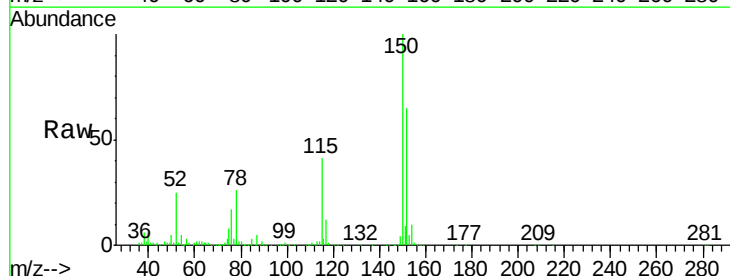
Tgt Ion:152 Resp: 173251

Ion Ratio Lower Upper

152 100

115 63.1 27.1 81.3

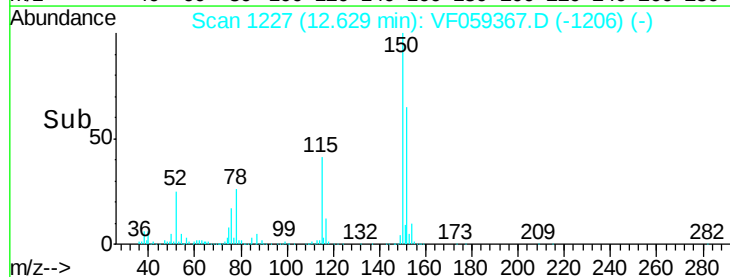
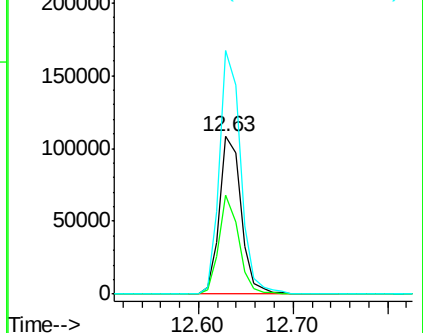
150 154.8 0.0 305.2

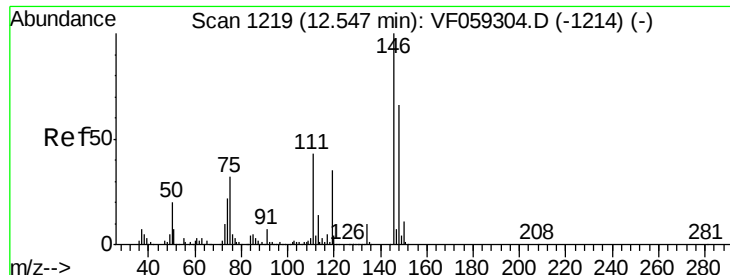


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#87
 1,3-Dichlorobenzene
 Concen: Below Cal
 RT: 12.55 min Scan# 1219
 Delta R.T. 0.00 min
 Lab File: VF059367.D
 Acq: 28 Jun 2018 18:20

Instrument :
 MSVOA_F
 ClientSampleId :
 JC-02-062618-H

Tot Ion	Ratio	Lower	Upper
146	100		
111	148.0	21.4	64.2#
148	0.0	32.8	98.4#

