

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062818\
 Data File : VF059374.D
 Acq On : 28 Jun 2018 21:34
 Operator : VA/AP
 Sample : J3242-07
 Misc : 6.01µ/5mL/MSVOA-F/SOIL
 ALS Vial : 22 Sample Multiplier: 1

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

Quant Time: Jun 29 11:30:54 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	251727	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.76	114	385817	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.91	117	333972	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.63	152	169948	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	141429	43.49	ug/l	0.02
Spiked Amount			Recovery	=	86.98%	
35) Dibromofluoromethane	4.29	113	127218	45.13	ug/l	0.02
Spiked Amount			Recovery	=	90.26%	
50) Toluene-d8	7.71	98	236274	33.85	ug/l	0.02
Spiked Amount			Recovery	=	67.70%	
62) 4-Bromofluorobenzene	11.51	95	147522	37.47	ug/l	0.02
Spiked Amount			Recovery	=	74.94%	

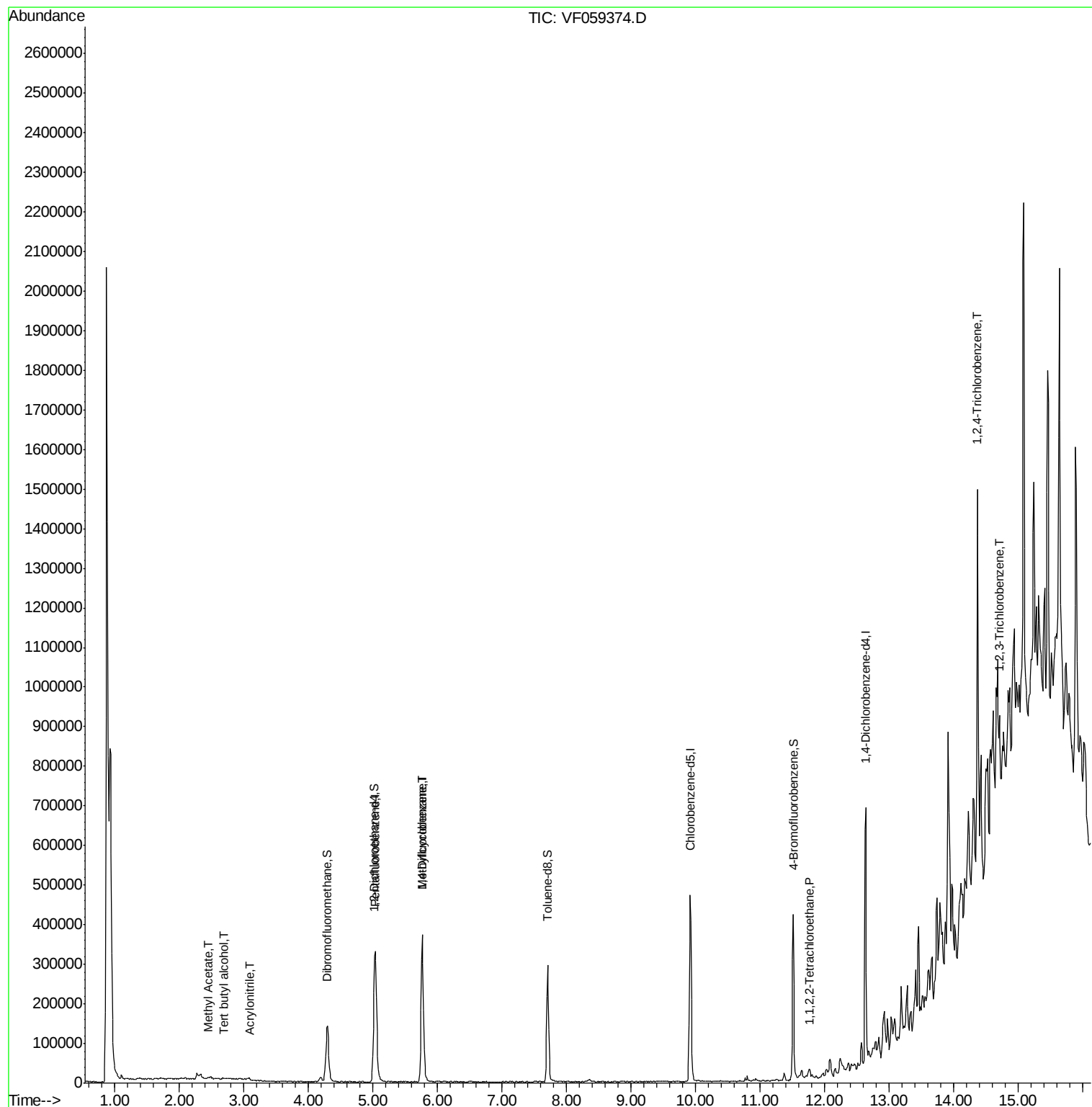
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.37	94	521	Below Cal		93
11) Tert butyl alcohol	2.69	59	1054	4.87 ug/l	#	66
13) Acrolein	1.99	56	175	Below Cal		85
15) Acrylonitrile	3.10	53	613	1.61 ug/l	#	12
16) Acetone	2.33	43	6448	Below Cal	#	91
18) Methyl Acetate	2.45	43	5580	2.70 ug/l		98
20) Methylene Chloride	2.27	84	5959	Below Cal	#	84
25) 2-Butanone	4.52	43	944	Below Cal	#	59
28) Bromochloromethane	3.88	49	67	Below Cal	#	6
29) Tetrahydrofuran	4.25	42	316	Below Cal	#	1
37) Ethyl Acetate	4.27	43	558	Below Cal	#	26
39) Methylcyclohexane	5.76	83	4043	1.35 ug/l	#	39
59) 2-Hexanone	9.65	43	469	Below Cal	#	30
75) 1,1,2,2-Tetrachloroethane	11.76	83	5626	2.25 ug/l	#	38
87) 1,3-Dichlorobenzene	12.57	146	279	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.35	180	9683	2.63 ug/l	#	42
96) 1,2,3-Trichlorobenzene	14.70	180	18050	5.17 ug/l	#	38

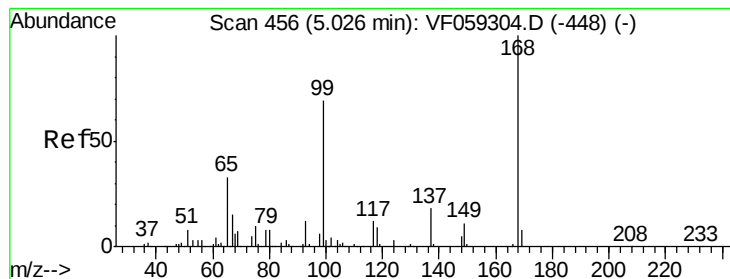
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.04 min Scan# 458

Delta R.T. 0.02 min

Lab File: VF059374.D

Acq: 28 Jun 2018 21:34

Instrument :

MSVOA_F

ClientSampleId :

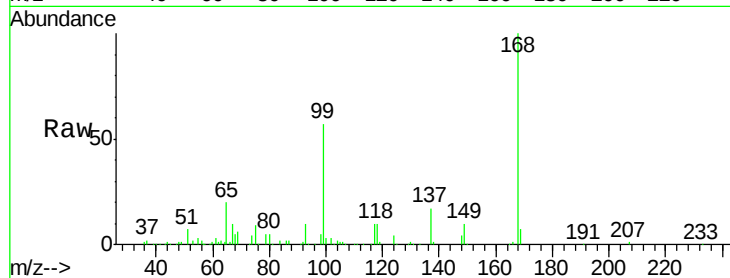
JC-02-062618-D

Tot Ion:168 Resp: 251727

Ion Ratio Lower Upper

168 100

99 56.6 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

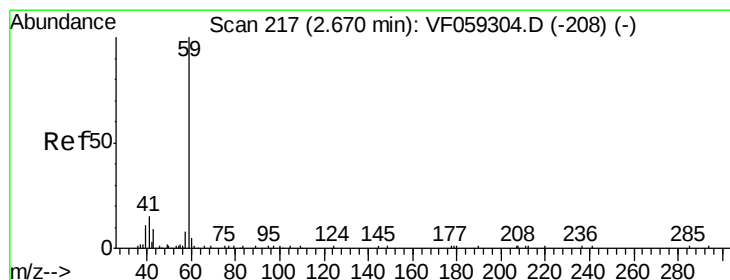
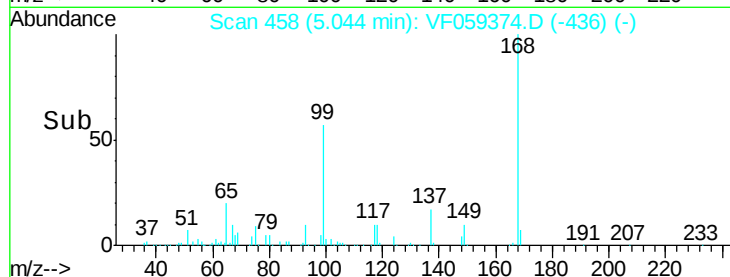
40000

20000

0

4.90 5.00 5.10 5.20

Time-->



#11

Tert butyl alcohol

Concen: 4.87 ug/l

RT: 2.69 min Scan# 219

Delta R.T. 0.02 min

Lab File: VF059374.D

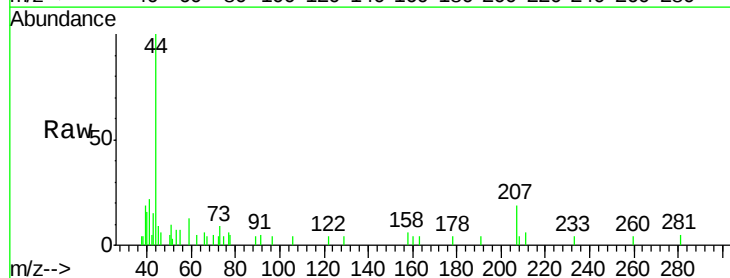
Acq: 28 Jun 2018 21:34

Tgt Ion: 59 Resp: 1054

Ion Ratio Lower Upper

59 100

57 0.0 11.0 16.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.69

400

300

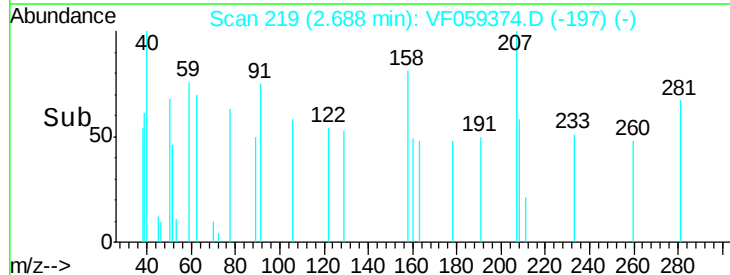
200

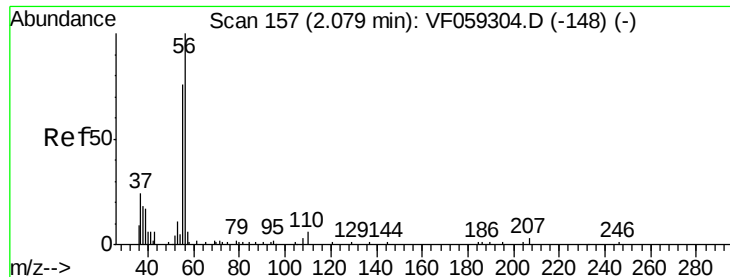
100

0

2.60 2.65 2.70

Time-->





#13

Acrolein

Concen: Below Cal

RT: 1.99 min Scan# 148

Delta R.T. -0.09 min

Lab File: VF059374.D

Acq: 28 Jun 2018 21:34

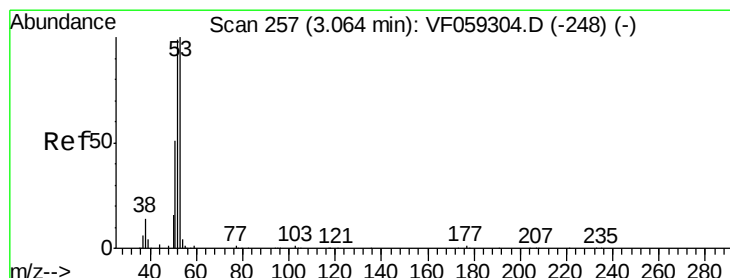
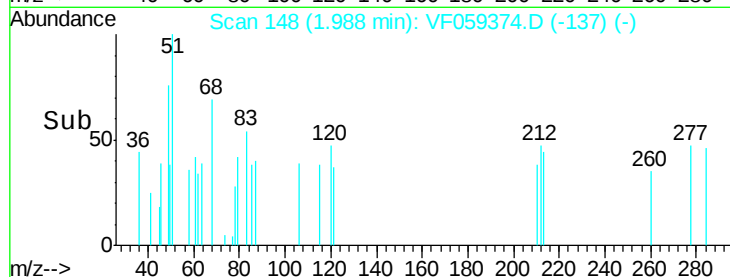
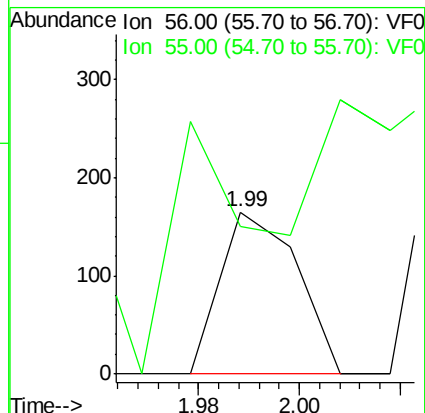
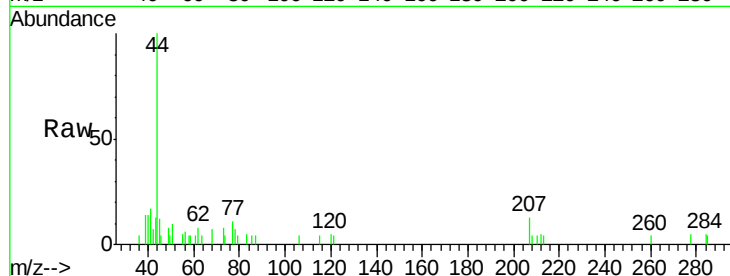
Instrument :
MSVOA_F
ClientSampleId :
JC-02-062618-D

Tot Ion: 56 Resp: 175

Ion Ratio Lower Upper

56 100

55 90.9 62.4 93.6



#15

Acrylonitrile

Concen: 1.61 ug/l

RT: 3.10 min Scan# 261

Delta R.T. 0.04 min

Lab File: VF059374.D

Acq: 28 Jun 2018 21:34

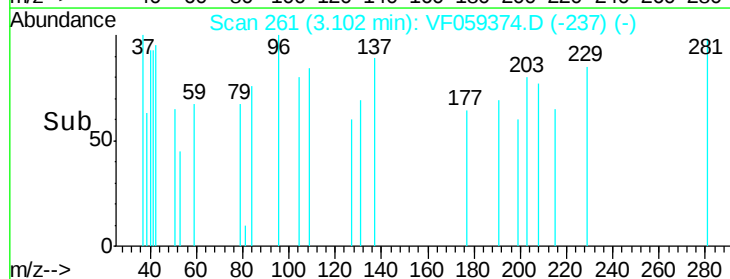
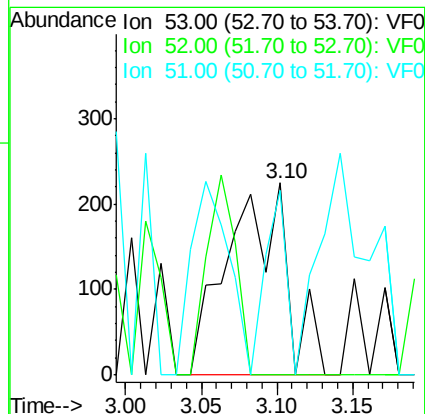
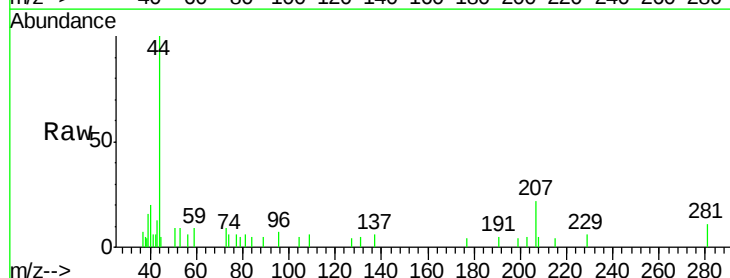
Tgt Ion: 53 Resp: 613

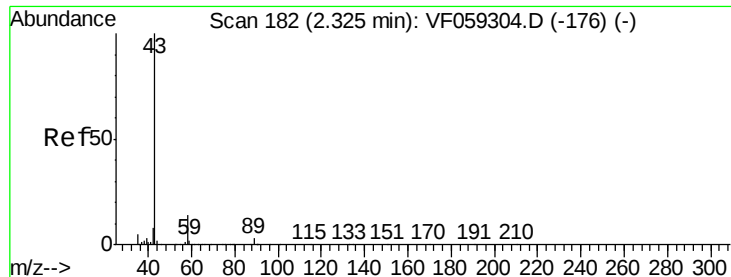
Ion Ratio Lower Upper

53 100

52 0.0 79.2 118.8#

51 96.0 40.9 61.3#





#16

Acetone

Concen: Below Cal

RT: 2.33 min Scan# 183

Delta R.T. 0.01 min

Lab File: VF059374.D

Acq: 28 Jun 2018 21:34

Instrument :

MSVOA_F

ClientSampleId :

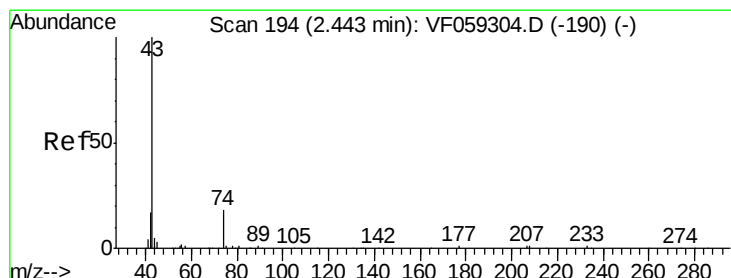
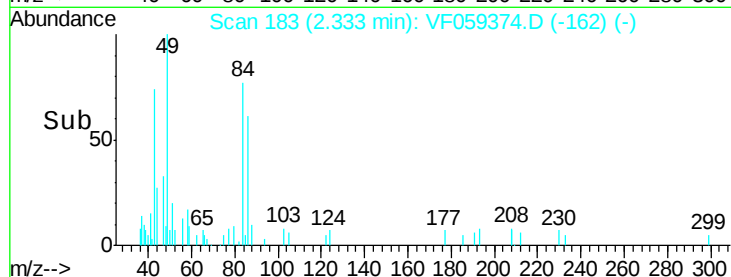
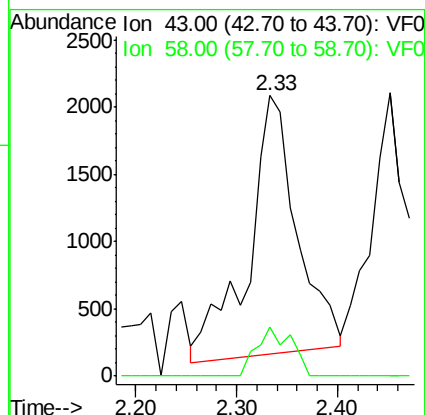
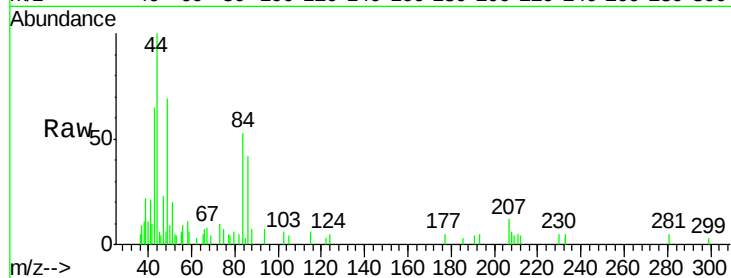
JC-02-062618-D

Tot Ion: 43 Resp: 6448

Ion Ratio Lower Upper

43 100

58 17.7 11.4 17.0#



#18

Methyl Acetate

Concen: 2.70 ug/l

RT: 2.45 min Scan# 195

Delta R.T. 0.01 min

Lab File: VF059374.D

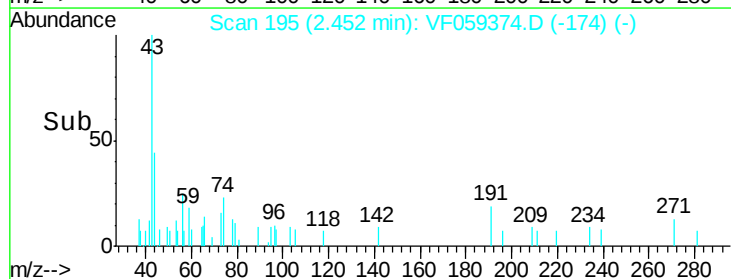
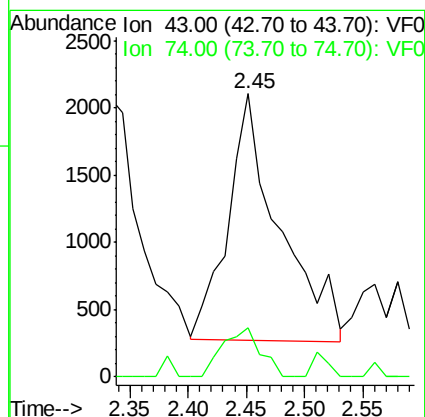
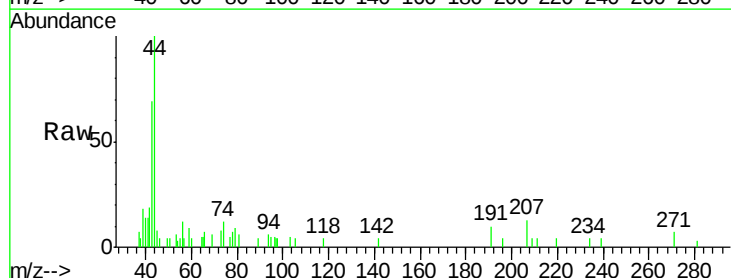
Acq: 28 Jun 2018 21:34

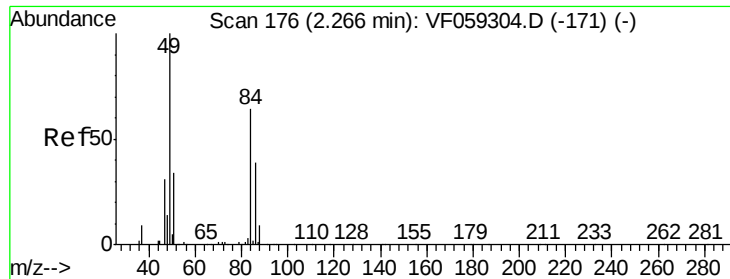
Tgt Ion: 43 Resp: 5580

Ion Ratio Lower Upper

43 100

74 17.3 13.3 19.9

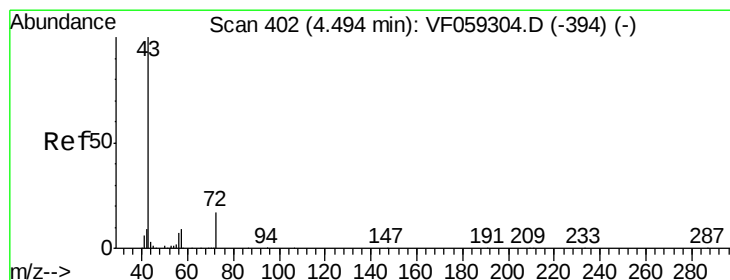
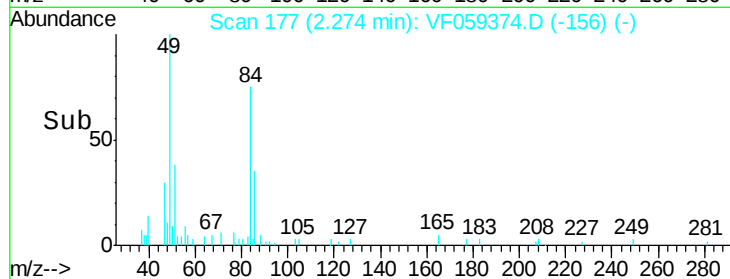
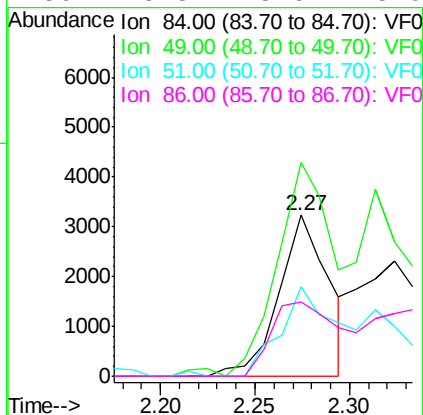
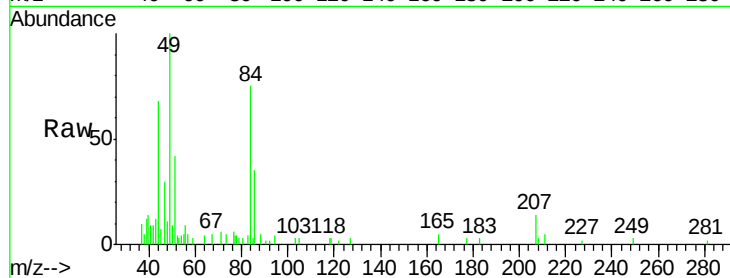




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 177
Delta R.T. 0.01 min
Lab File: VF059374.D
Acq: 28 Jun 2018 21:34

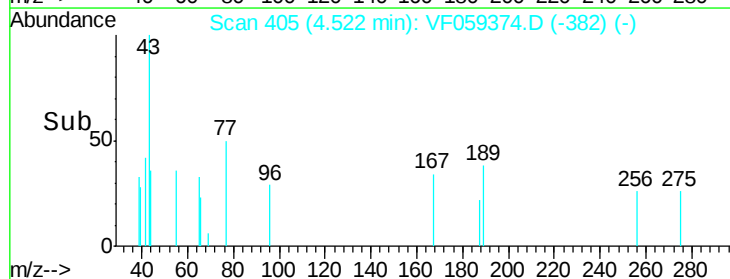
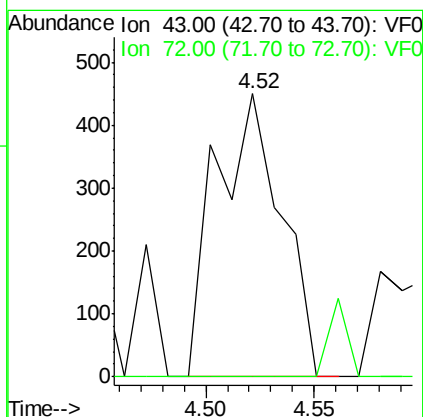
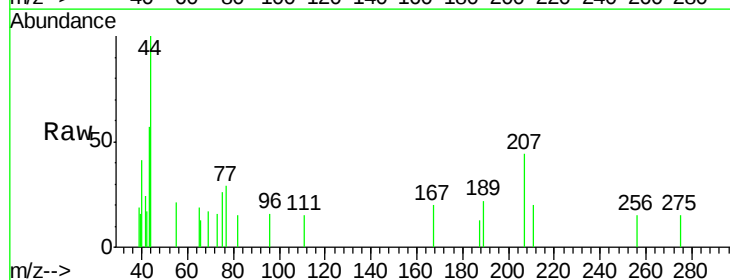
Instrument :
MSVOA_F
ClientSampleId :
JC-02-062618-D

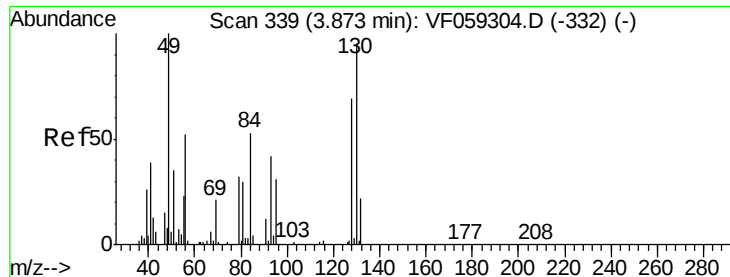
Tot Ion: 84 Resp: 5959
Ion Ratio Lower Upper
84 100
49 132.6 126.5 189.7
51 55.7 42.9 64.3
86 45.8 48.6 73.0#



#25
2-Butanone
Concen: Below Cal
RT: 4.52 min Scan# 405
Delta R.T. 0.03 min
Lab File: VF059374.D
Acq: 28 Jun 2018 21:34

Tgt Ion: 43 Resp: 944
Ion Ratio Lower Upper
43 100
72 0.0 14.4 21.6#





#28

Bromochloromethane

Concen: Below Cal

RT: 3.88 min Scan# 340

Delta R.T. 0.01 min

Lab File: VF059374.D

Acq: 28 Jun 2018 21:34

Instrument :

MSVOA_F

ClientSampleId :

JC-02-062618-D

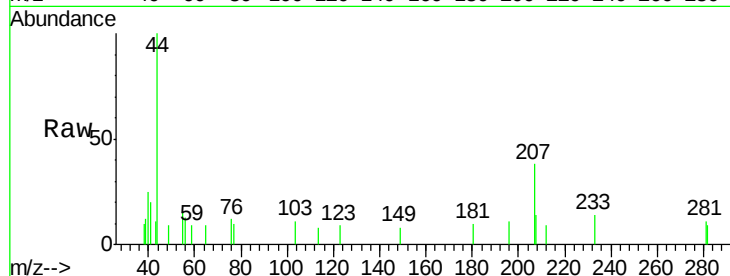
Tot Ion: 49 Resp: 67

Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.4

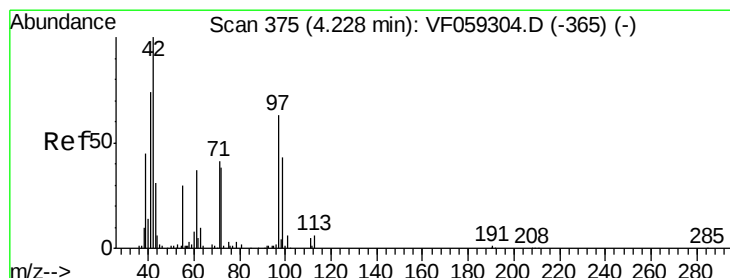
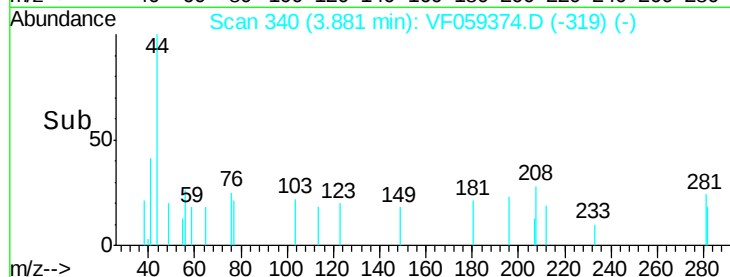
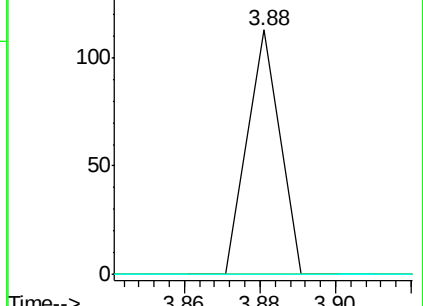
130 0.0 75.1 112.7#



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



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.25 min Scan# 377

Delta R.T. 0.02 min

Lab File: VF059374.D

Acq: 28 Jun 2018 21:34

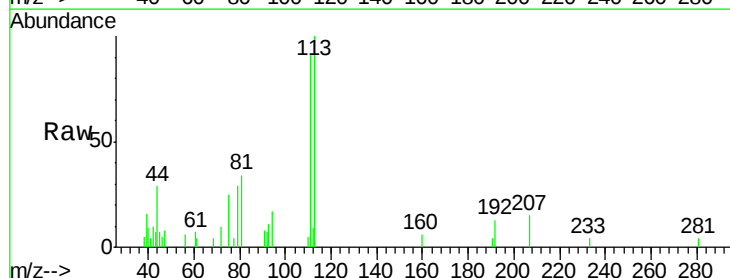
Tgt Ion: 42 Resp: 316

Ion Ratio Lower Upper

42 100

72 136.1 30.5 45.7#

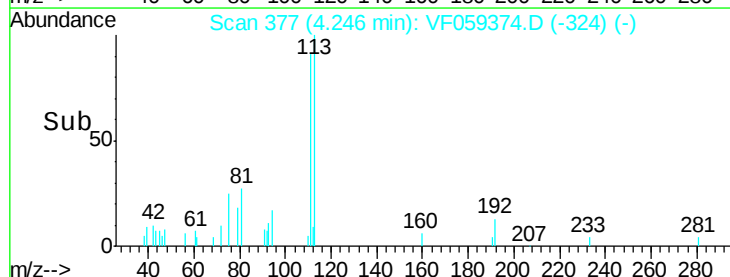
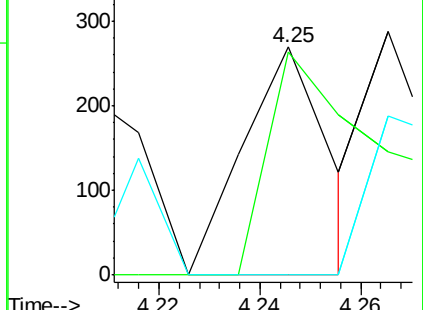
71 66.8 32.5 48.7#

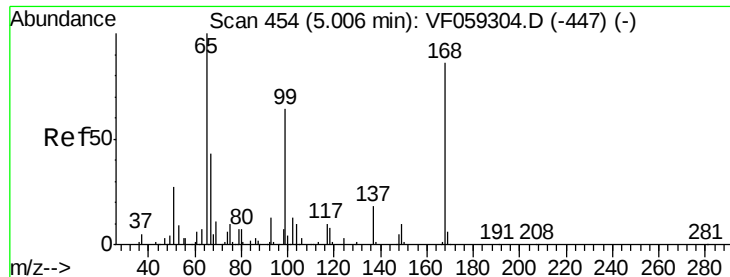


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 43.49 ug/l

RT: 5.01 min Scan# 455

Delta R.T. 0.01 min

Lab File: VF059374.D

Acq: 28 Jun 2018 21:34

Instrument :

MSVOA_F

ClientSampleId :

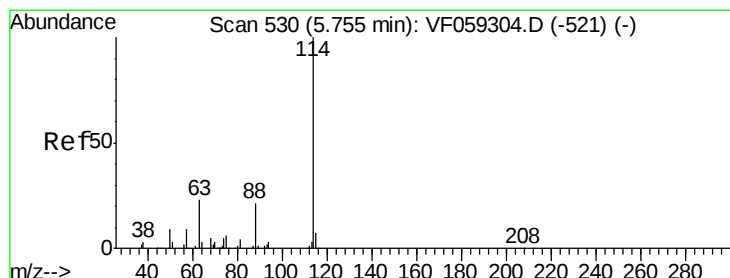
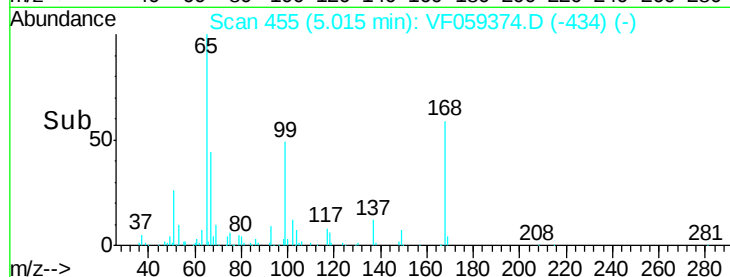
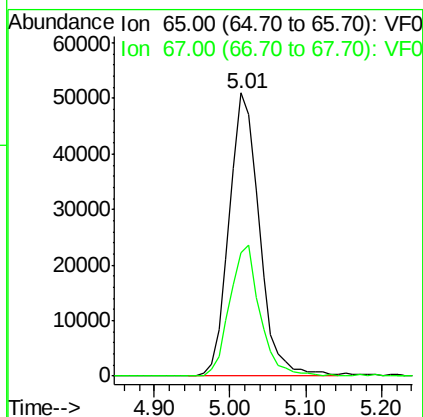
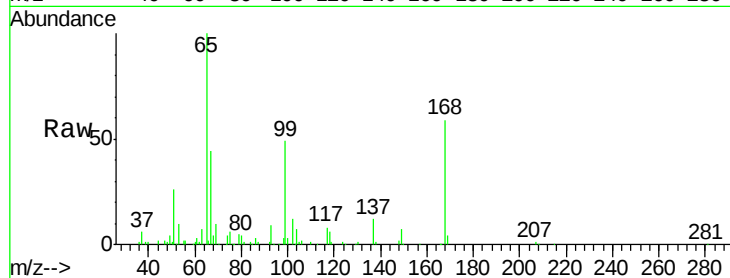
JC-02-062618-D

Tot Ion: 65 Resp: 141429

Ion Ratio Lower Upper

65 100

67 43.8 0.0 96.8



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.76 min Scan# 531

Delta R.T. 0.01 min

Lab File: VF059374.D

Acq: 28 Jun 2018 21:34

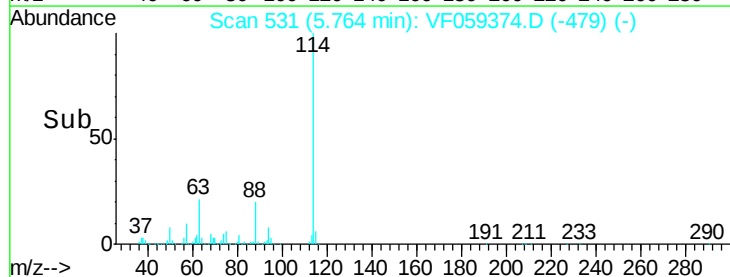
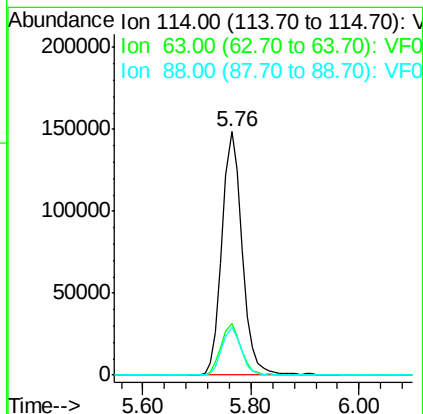
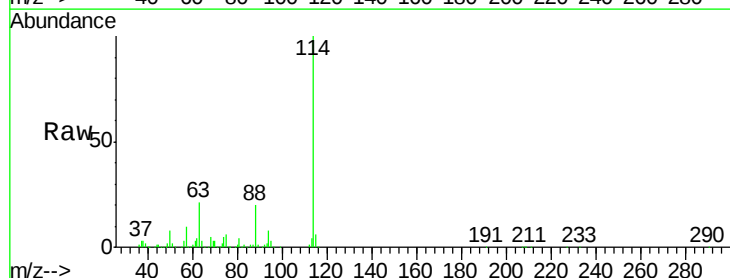
Tgt Ion: 114 Resp: 385817

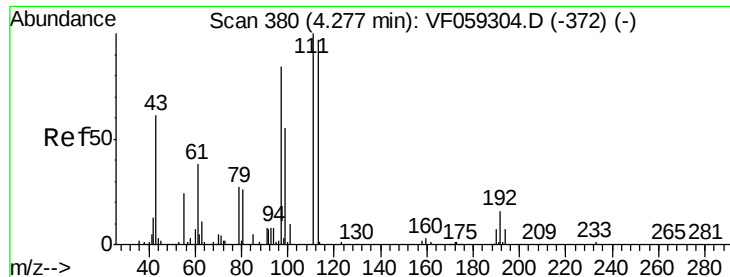
Ion Ratio Lower Upper

114 100

63 21.3 0.0 45.8

88 19.9 0.0 41.2

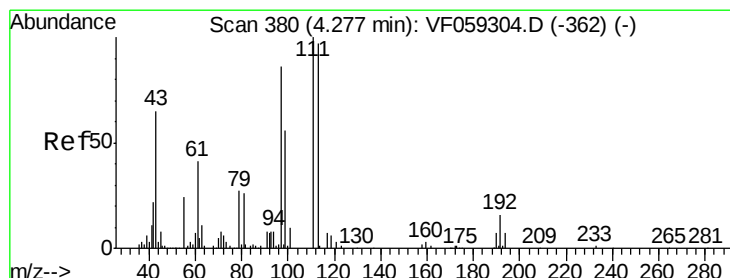
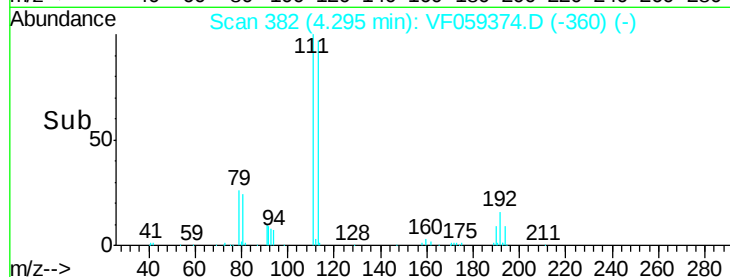
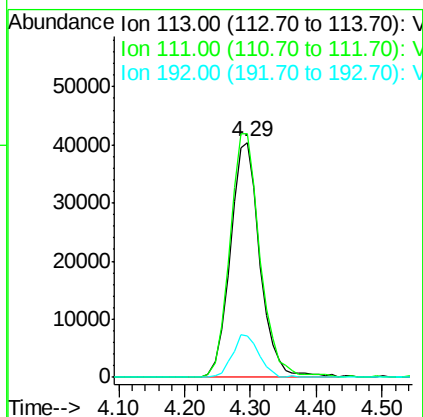
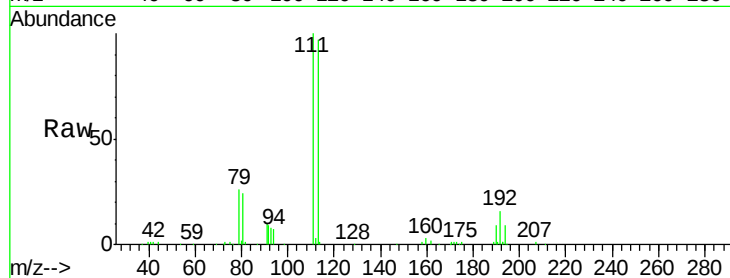




#35
 Dibromofluoromethane
 Concen: 45.13 ug/l
 RT: 4.29 min Scan# 382
 Delta R.T. 0.02 min
 Lab File: VF059374.D
 Acq: 28 Jun 2018 21:34

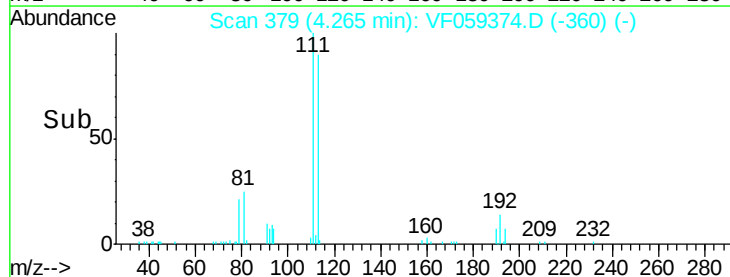
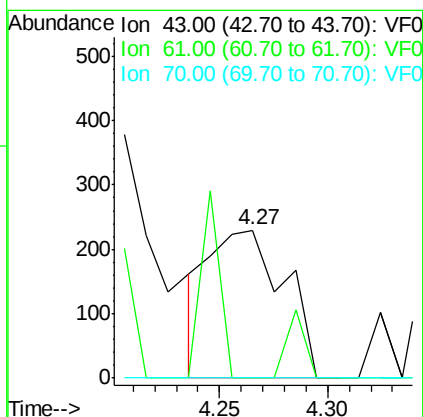
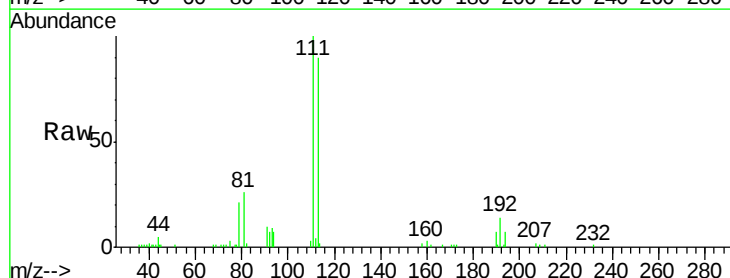
Instrument :
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 JC-02-062618-D

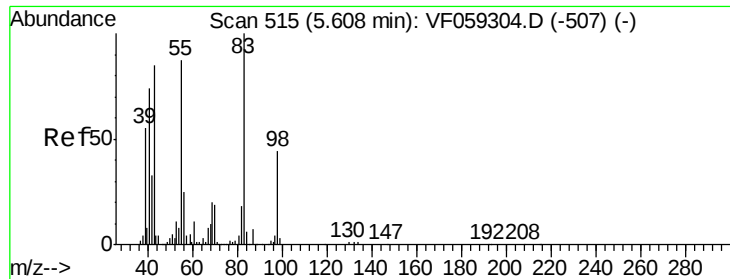
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.5	82.1	123.1
192	17.5	13.0	19.6



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 4.27 min Scan# 379
 Delta R.T. -0.01 min
 Lab File: VF059374.D
 Acq: 28 Jun 2018 21:34

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





#39

Methvlcvclohexane

Concen: 1.35 ug/l

RT: 5.76 min Scan# 531

Delta R.T. 0.16 min

Lab File: VF059374.D

Acq: 28 Jun 2018 21:34

Instrument :

MSVOA_F

ClientSampleId :

JC-02-062618-D

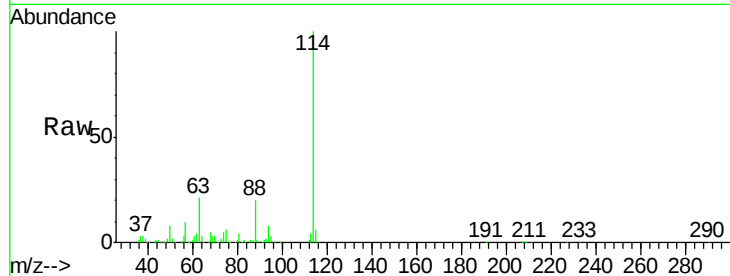
Tot Ion: 83 Resp: 4043

Ion Ratio Lower Upper

83 100

55 33.7 69.2 103.8#

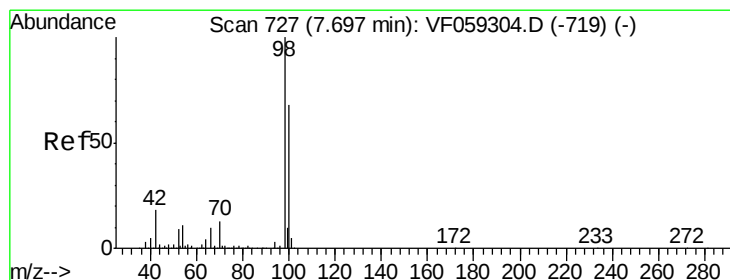
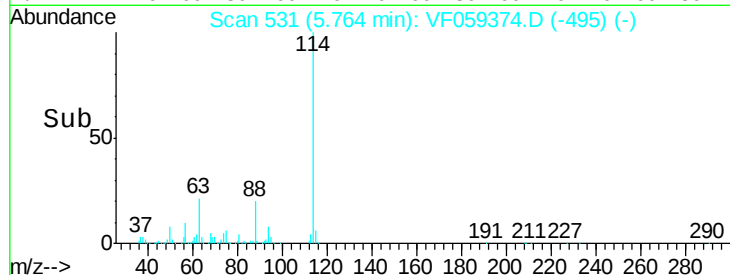
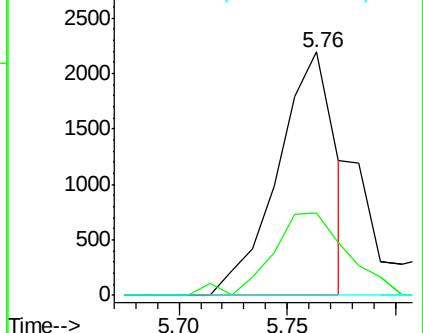
98 0.0 35.0 52.6#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#50

Toluene-d8

Concen: 33.85 ug/l

RT: 7.71 min Scan# 728

Delta R.T. 0.01 min

Lab File: VF059374.D

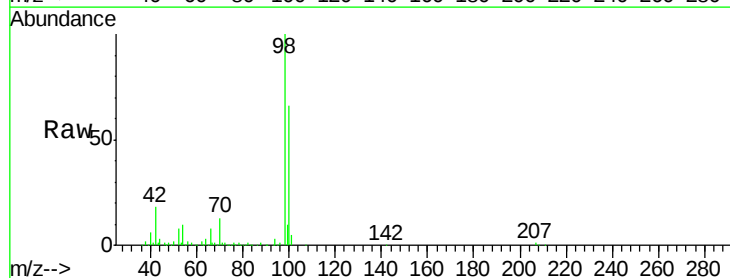
Acq: 28 Jun 2018 21:34

Tgt Ion: 98 Resp: 236274

Ion Ratio Lower Upper

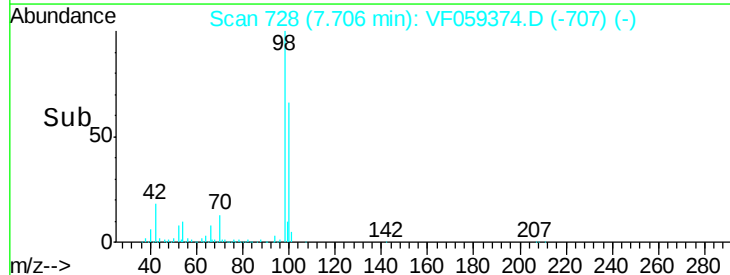
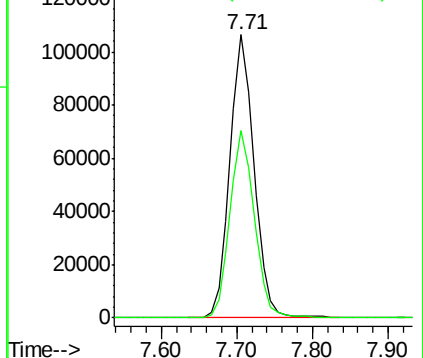
98 100

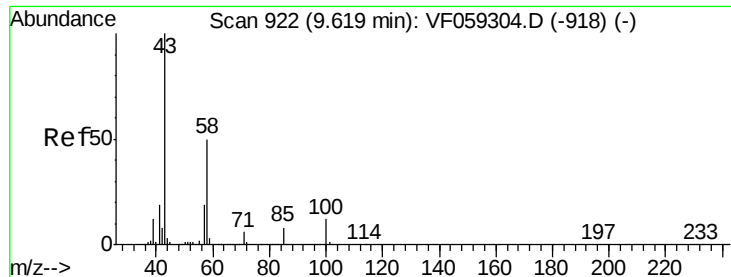
100 66.2 54.6 82.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#59

2-Hexanone

Concen: Below Cal

RT: 9.65 min Scan# 925

Delta R.T. 0.03 min

Lab File: VF059374.D

Acq: 28 Jun 2018 21:34

Instrument :

MSVOA_F

ClientSampleId :

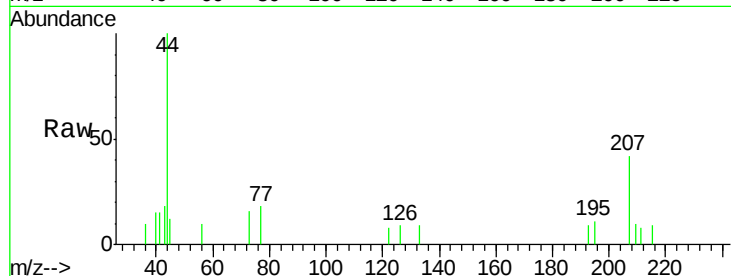
JC-02-062618-D

Tot Ion: 43 Resp: 469

Ion Ratio Lower Upper

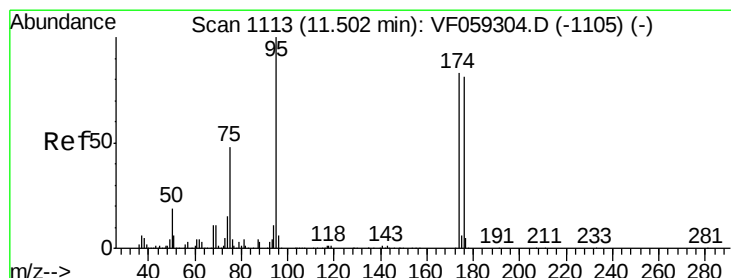
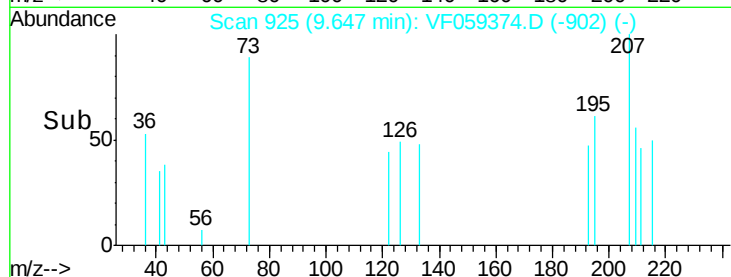
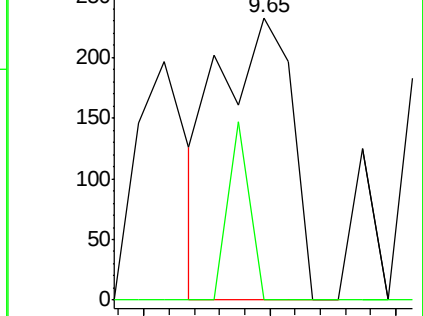
43 100

58 0.0 23.3 69.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#62

4-Bromofluorobenzene

Concen: 37.47 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. 0.01 min

Lab File: VF059374.D

Acq: 28 Jun 2018 21:34

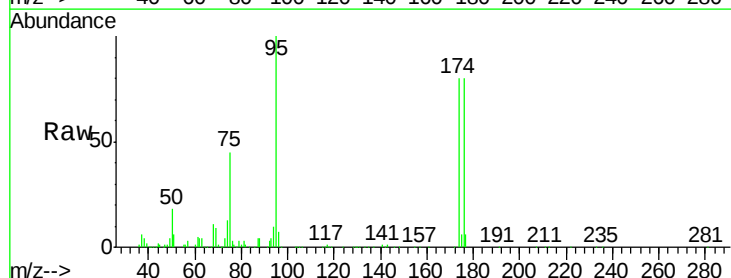
Tgt Ion: 95 Resp: 147522

Ion Ratio Lower Upper

95 100

174 79.9 0.0 165.2

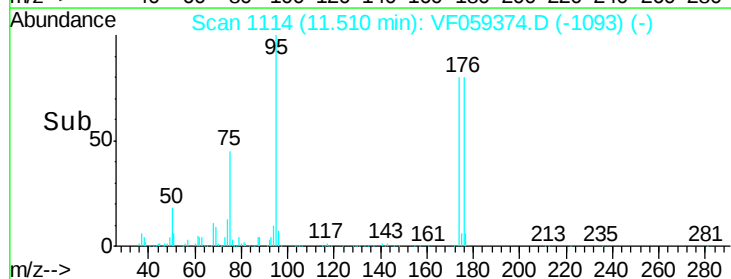
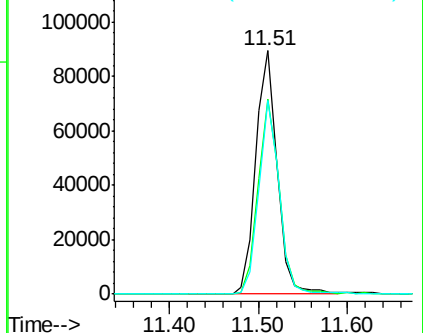
176 79.6 0.0 161.0

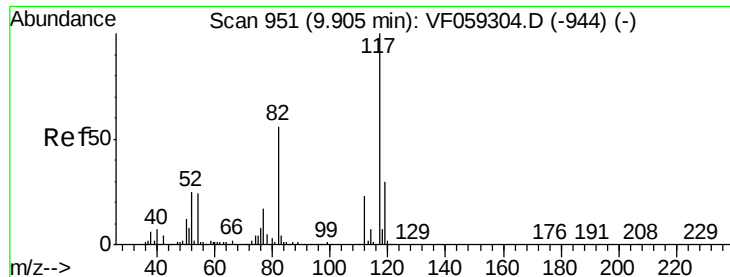


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

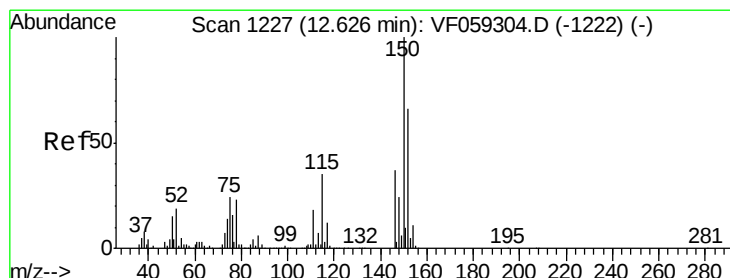
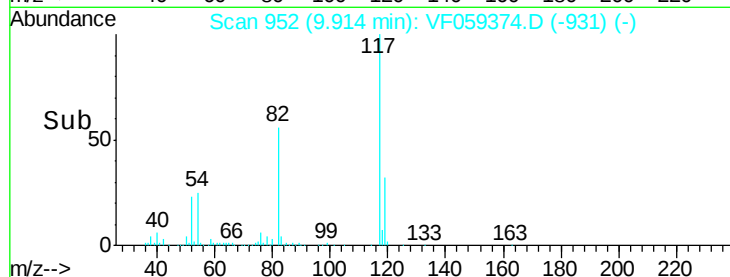
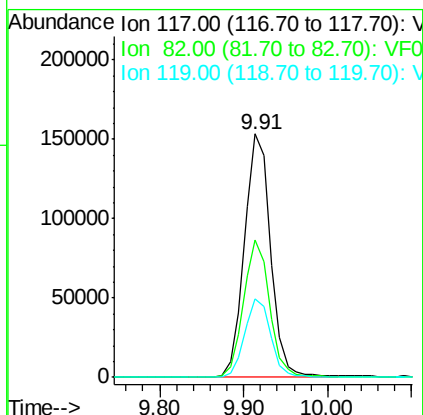
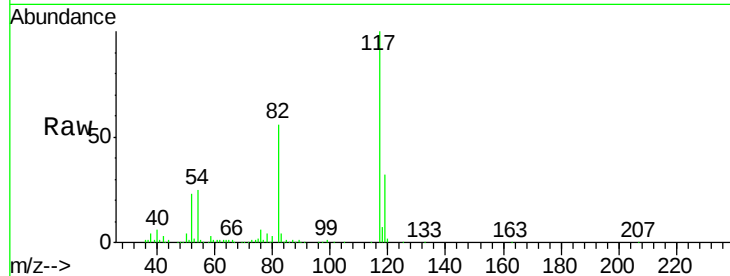




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.91 min Scan# 952
Delta R.T. 0.01 min
Lab File: VF059374.D
Acq: 28 Jun 2018 21:34

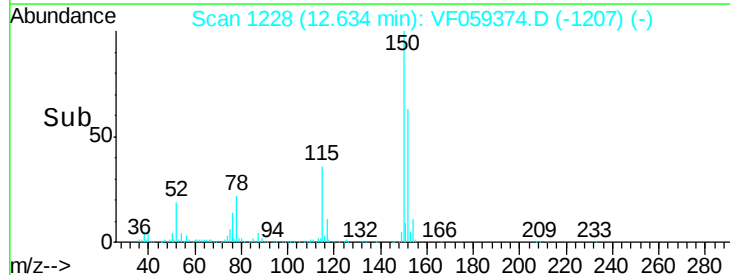
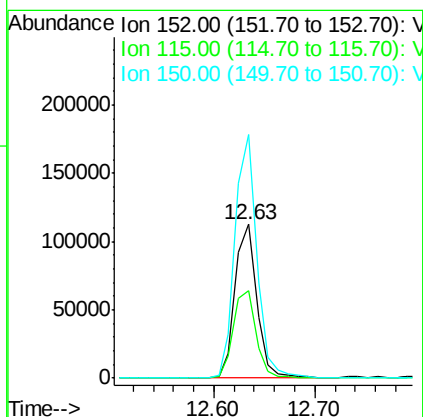
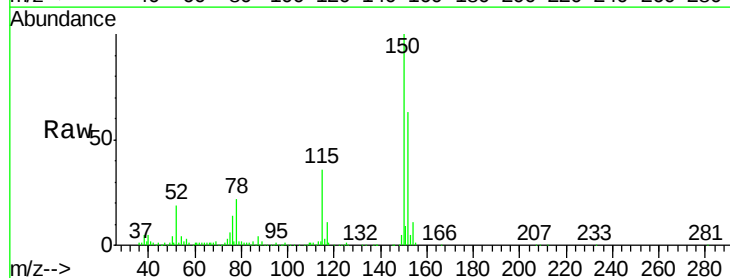
Instrument :
MSVOA_F
ClientSampleId :
JC-02-062618-D

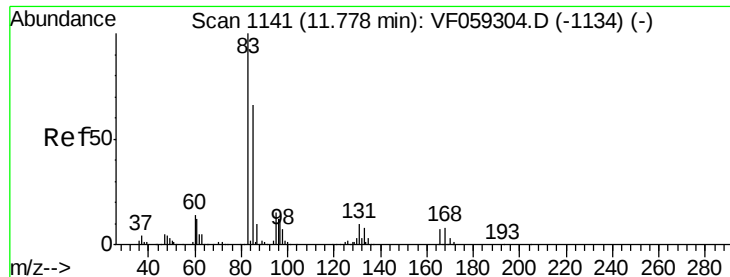
Tot Ion:117 Resp: 333972
Ion Ratio Lower Upper
117 100
82 56.5 44.6 66.8
119 32.3 24.1 36.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.63 min Scan# 1228
Delta R.T. 0.01 min
Lab File: VF059374.D
Acq: 28 Jun 2018 21:34

Tgt Ion:152 Resp: 169948
Ion Ratio Lower Upper
152 100
115 57.2 27.1 81.3
150 158.4 0.0 305.2





#75

1,1,2,2-Tetrachloroethane

Concen: 2.25 ug/l

RT: 11.76 min Scan# 1139

Delta R.T. -0.02 min

Lab File: VF059374.D

Acq: 28 Jun 2018 21:34

Instrument :

MSVOA_F

ClientSampleId :

JC-02-062618-D

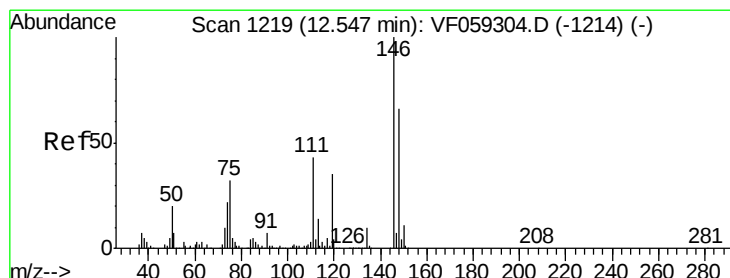
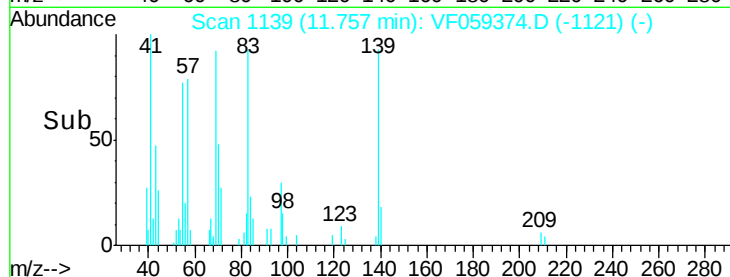
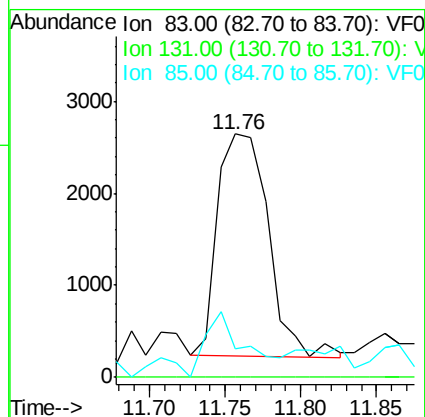
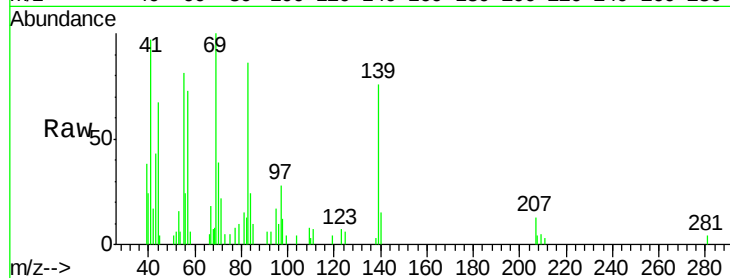
Tot Ion: 83 Resp: 5626

Ion Ratio Lower Upper

83 100

131 0.0 4.9 14.6#

85 11.9 32.8 98.4#



#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.57 min Scan# 1221

Delta R.T. 0.02 min

Lab File: VF059374.D

Acq: 28 Jun 2018 21:34

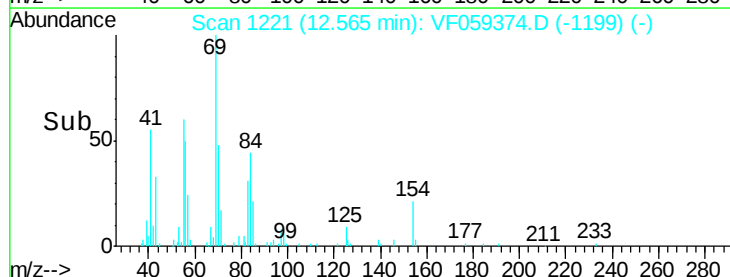
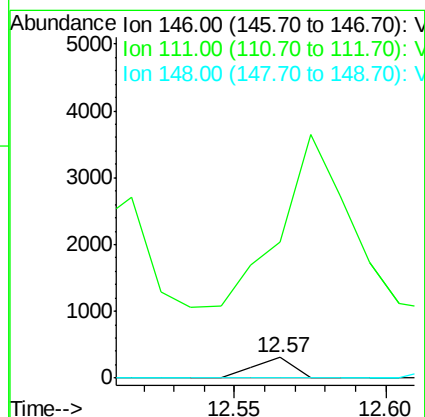
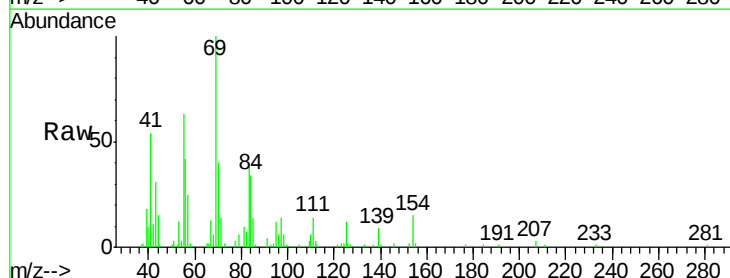
Tgt Ion: 146 Resp: 279

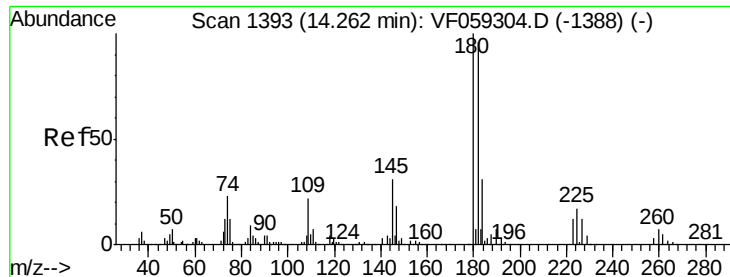
Ion Ratio Lower Upper

146 100

111 669.4 21.4 64.2#

148 0.0 32.8 98.4#





#93

1,2,4-Trichlorobenzene

Concen: 2.63 ug/l

RT: 14.35 min Scan# 1402

Delta R.T. 0.09 min

Lab File: VF059374.D

Acq: 28 Jun 2018 21:34

Instrument :

MSVOA_F

ClientSampleId :

JC-02-062618-D

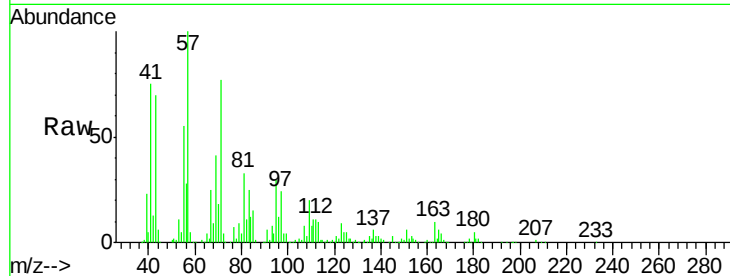
Tot Ion:180 Resp: 9683

Ion Ratio Lower Upper

180 100

182 30.6 48.1 144.3#

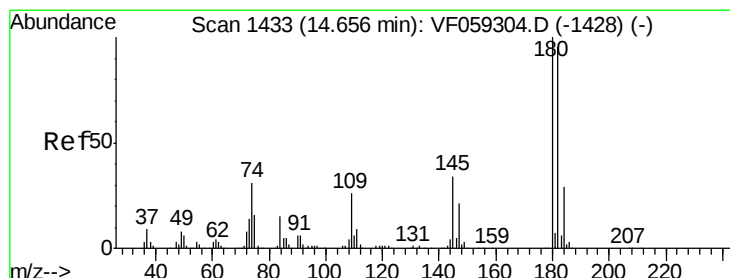
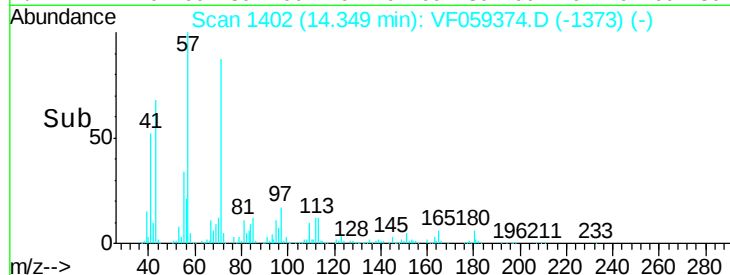
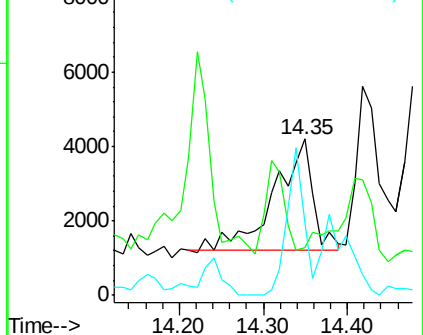
145 46.5 15.3 45.8#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#96

1,2,3-Trichlorobenzene

Concen: 5.17 ug/l

RT: 14.70 min Scan# 1438

Delta R.T. 0.05 min

Lab File: VF059374.D

Acq: 28 Jun 2018 21:34

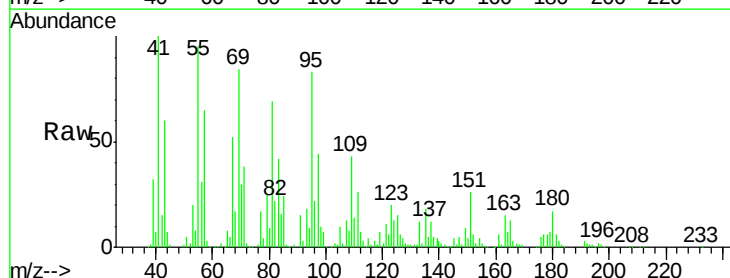
Tgt Ion:180 Resp: 18050

Ion Ratio Lower Upper

180 100

182 18.0 47.5 142.5#

145 25.3 17.0 50.9



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

