

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062818\
 Data File : VF059362.D
 Acq On : 28 Jun 2018 16:01
 Operator : VA/AP
 Sample : J3242-05
 Misc : 6.49g/5mL/MSVOA-F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

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

Quant Time: Jun 29 03:10:56 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

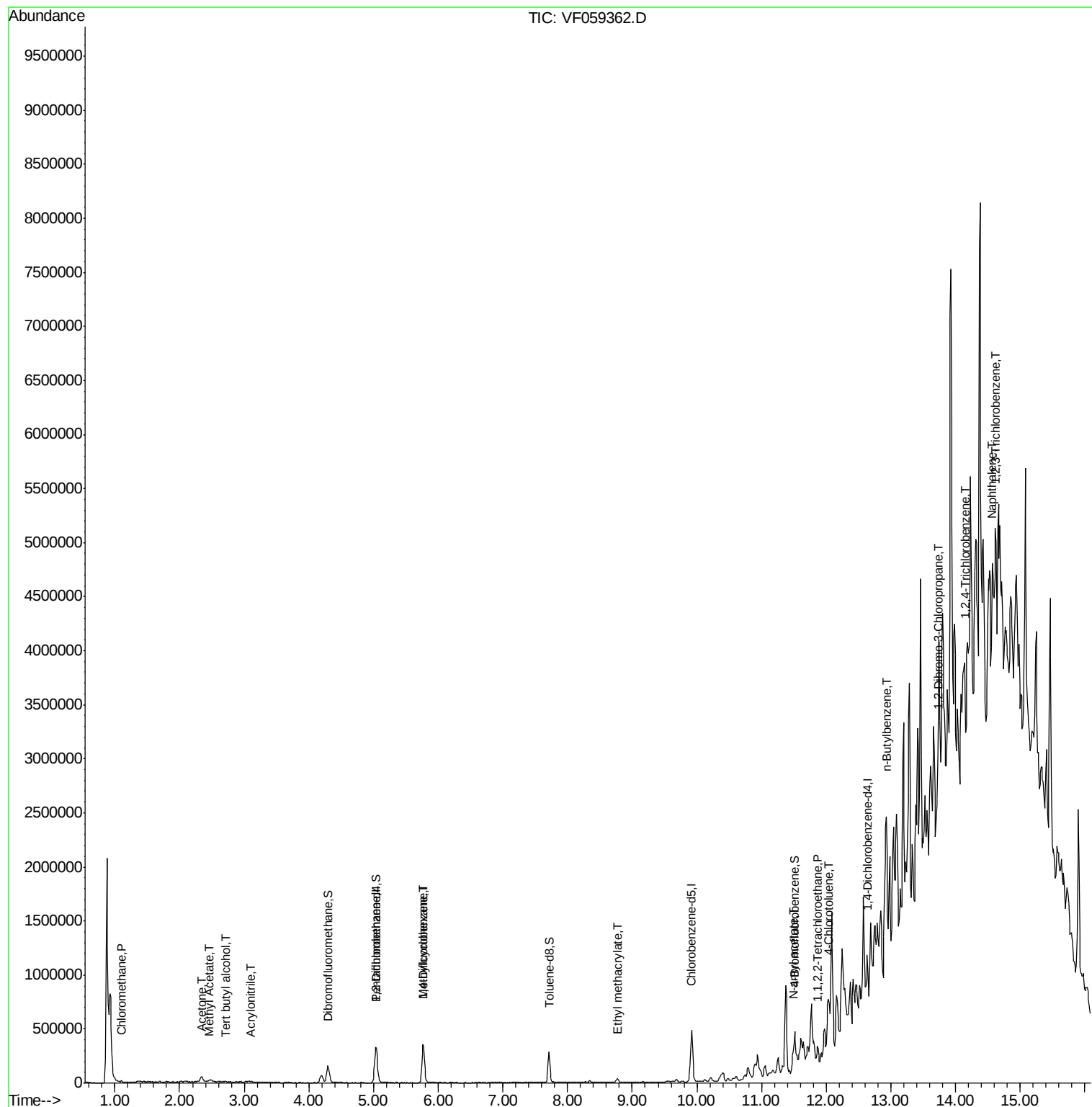
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	243264	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.76	114	391904	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.92	117	313300	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.63	152	135123	50.00	ug/l	0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.02	65	137113	43.63	ug/l	0.02
Spiked Amount	50.000		Recovery	=	87.26%	
35) Dibromofluoromethane	4.29	113	137313	47.95	ug/l	0.02
Spiked Amount	50.000		Recovery	=	95.90%	
50) Toluene-d8	7.71	98	242769	34.24	ug/l	0.02
Spiked Amount	50.000		Recovery	=	68.48%	
62) 4-Bromofluorobenzene	11.51	95	156764	39.20	ug/l	0.02
Spiked Amount	50.000		Recovery	=	78.40%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.10	50	1862	1.247	ug/l #	65
5) Bromomethane	1.30	94	240	Below Cal	#	72
11) Tert butyl alcohol	2.71	59	2435	11.638	ug/l #	66
13) Acrolein	2.17	56	292	Below Cal		96
15) Acrylonitrile	3.09	53	1563	4.242	ug/l #	31
16) Acetone	2.34	43	75182	89.221	ug/l	100
18) Methyl Acetate	2.45	43	22034	14.711	ug/l	98
20) Methylene Chloride	2.28	84	2430	Below Cal	#	84
25) 2-Butanone	4.53	43	1273	Below Cal	#	59
28) Bromochloromethane	3.84	49	67	Below Cal	#	6
29) Tetrahydrofuran	4.26	42	1282	Below Cal	#	47
37) Ethyl Acetate	4.32	43	241	Below Cal	#	26
39) Methylcyclohexane	5.76	83	3763	1.240	ug/l #	41
49) 1,4-Dioxane	6.99	88	71	Below Cal	#	1
56) Ethyl methacrylate	8.76	69	15035	5.503	ug/l #	71
59) 2-Hexanone	9.65	43	1731	Below Cal		78
74) N-amyl acetate	11.49	43	21342	7.471	ug/l #	15
75) 1,1,2,2-Tetrachloroethane	11.87	83	5484	2.758	ug/l	71
82) 4-Chlorotoluene	12.04	91	6445	1.042	ug/l	87
87) 1,3-Dichlorobenzene	12.53	146	525	Below Cal	#	1
89) n-Butylbenzene	12.93	91	16431	2.110	ug/l #	43
92) 1,2-Dibromo-3-Chloropropan	13.72	75	1008	2.287	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.15	180	26710	9.111	ug/l	91
95) Naphthalene	14.57	128	43327	7.064	ug/l #	1
96) 1,2,3-Trichlorobenzene	14.61	180	52299	18.831	ug/l #	32

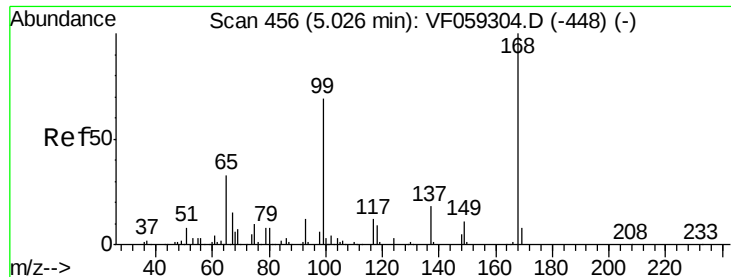
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF062818\
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Sample : J3242-05
Misc : 6.49g/5mL/MSVOA-F/SOIL
ALS Vial : 10 Sample Multiplier: 1

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

Quant Time: Jun 28 16:18:03 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 26 08:45:17 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 458

Delta R.T. 0.02 min

Lab File: VF059362.D

Acq: 28 Jun 2018 16:01

Instrument :

MSVOA_F

ClientSampleId :

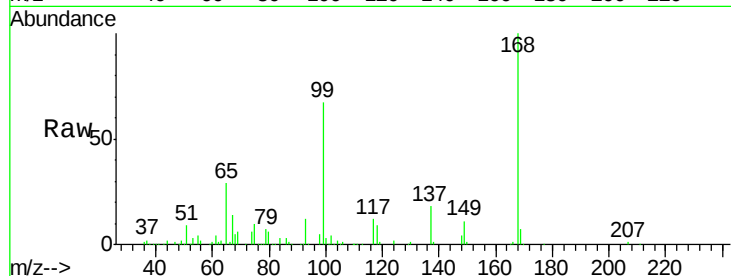
JC-02-062618-C

Tot Ion:168 Resp: 243264

Ion Ratio Lower Upper

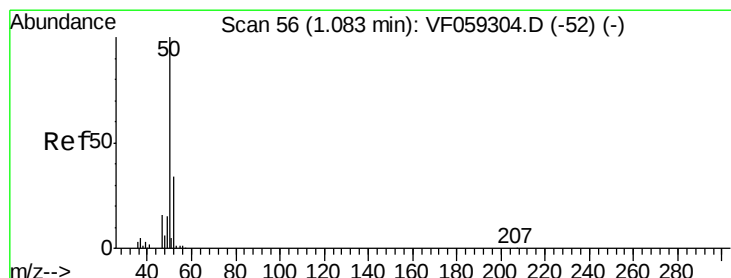
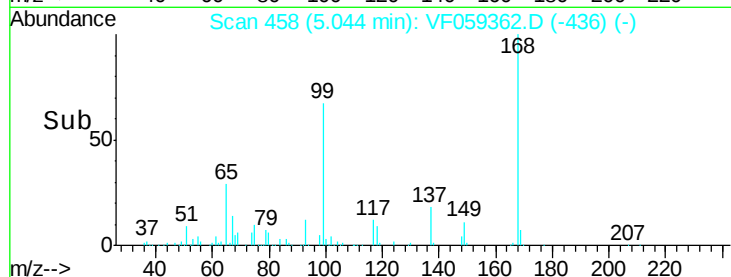
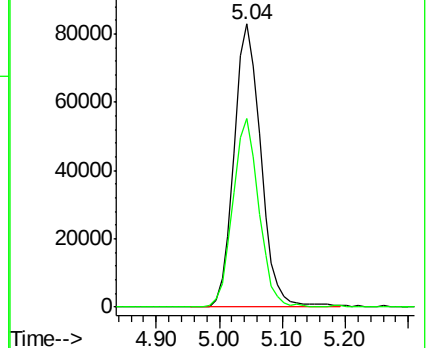
168 100

99 66.8 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#3

Chloromethane

Concen: 1.247 ug/l

RT: 1.10 min Scan# 58

Delta R.T. 0.02 min

Lab File: VF059362.D

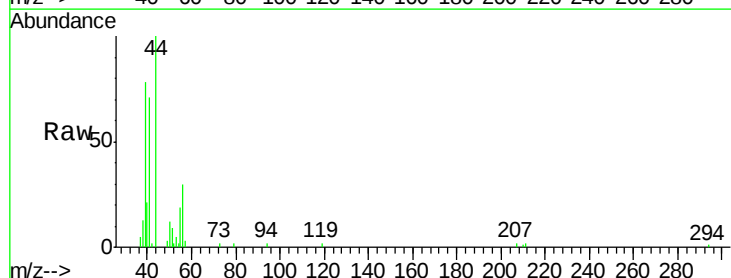
Acq: 28 Jun 2018 16:01

Tgt Ion: 50 Resp: 1862

Ion Ratio Lower Upper

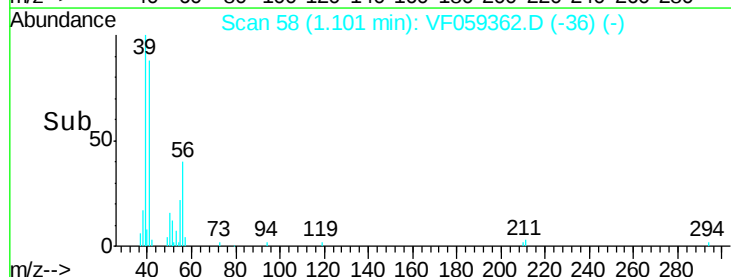
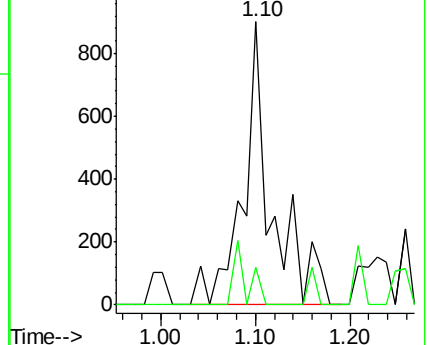
50 100

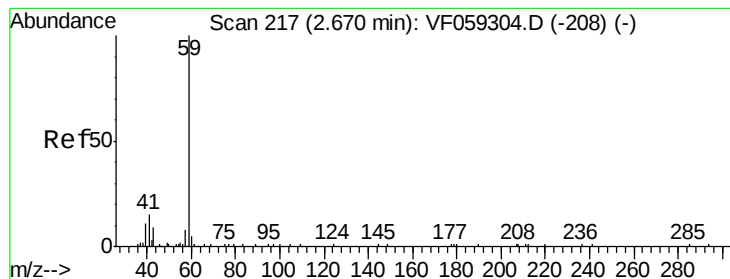
52 13.4 26.7 40.1#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



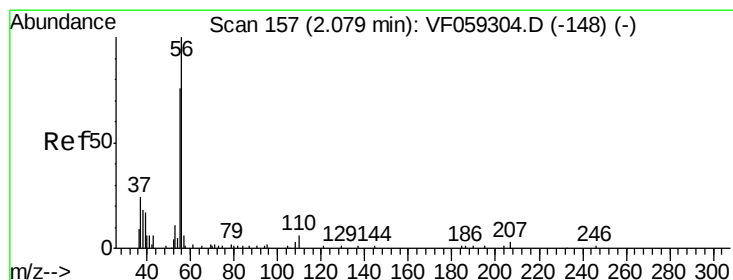
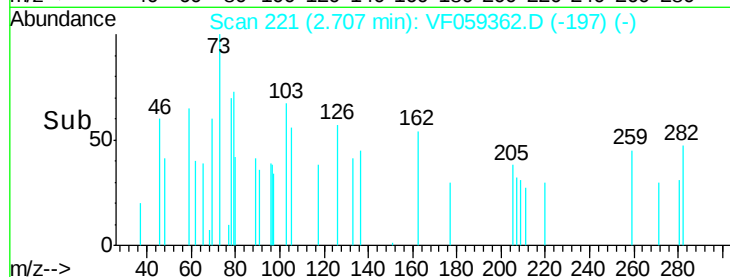
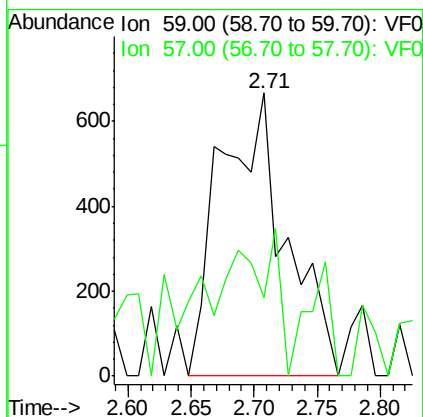
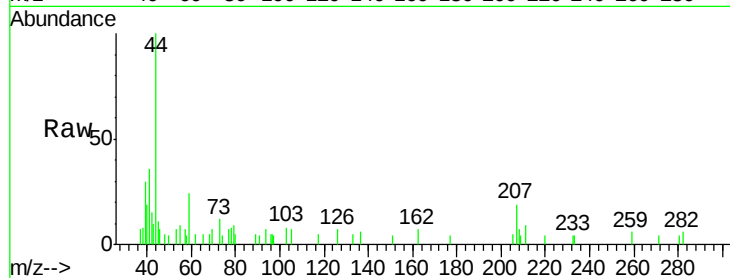


#11

Tert butyl alcohol
Concen: 11.638 ug/l
RT: 2.71 min Scan# 221
Delta R.T. 0.04 min
Lab File: VF059362.D
Acq: 28 Jun 2018 16:01

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

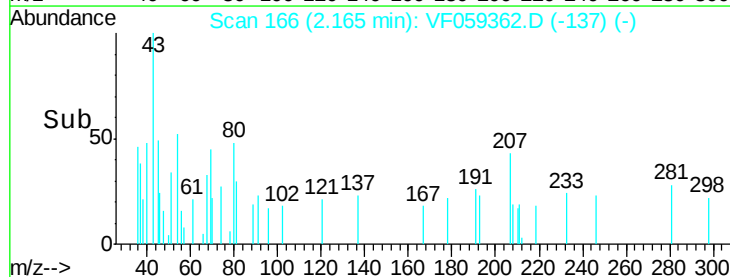
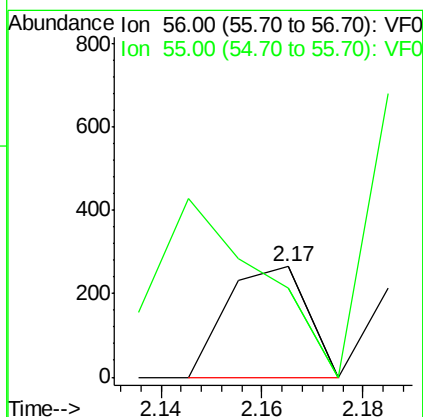
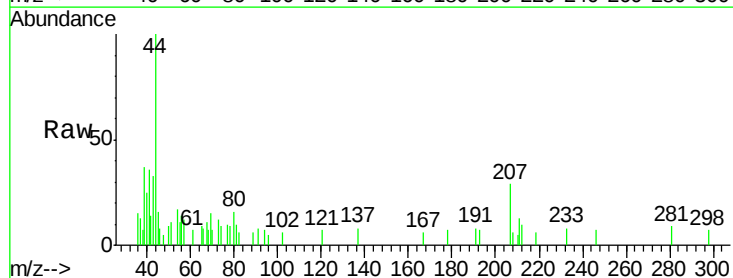
Tot Ion: 59 Resp: 2435
Ion Ratio Lower Upper
59 100
57 27.6 11.0 16.4#

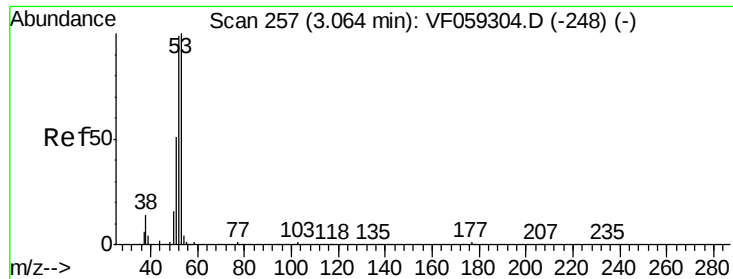


#13

Acrolein
Concen: Below Cal
RT: 2.17 min Scan# 166
Delta R.T. 0.09 min
Lab File: VF059362.D
Acq: 28 Jun 2018 16:01

Tgt Ion: 56 Resp: 292
Ion Ratio Lower Upper
56 100
55 81.1 62.4 93.6





#15

Acrylonitrile

Concen: 4.242 ug/l

RT: 3.09 min Scan# 260

Delta R.T. 0.03 min

Lab File: VF059362.D

Acq: 28 Jun 2018 16:01

Instrument :

MSVOA_F

ClientSampleId :

JC-02-062618-C

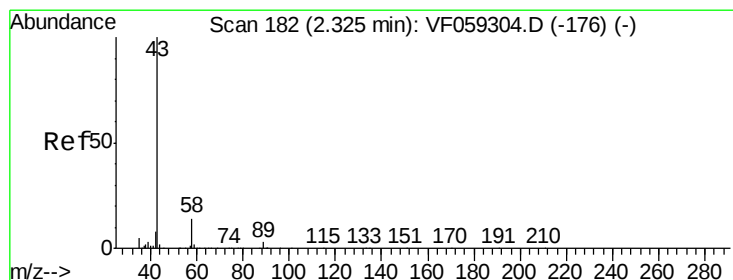
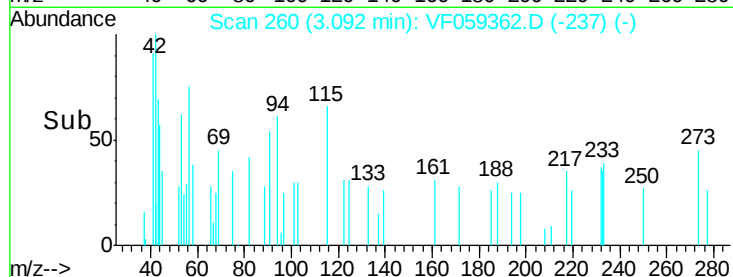
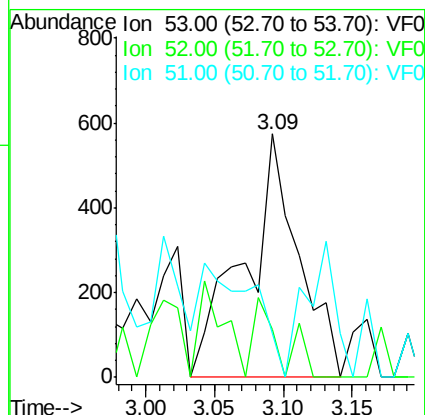
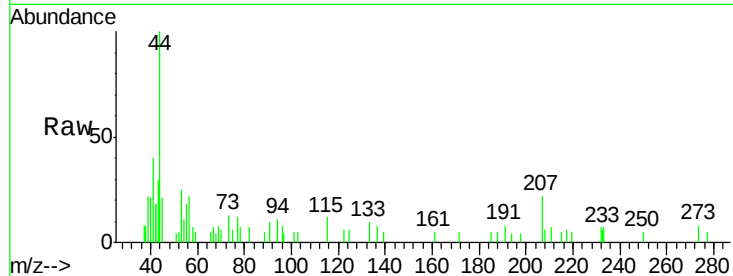
Tot Ion: 53 Resp: 1563

Ion Ratio Lower Upper

53 100

52 19.9 79.2 118.8#

51 18.3 40.9 61.3#



#16

Acetone

Concen: 89.221 ug/l

RT: 2.34 min Scan# 184

Delta R.T. 0.02 min

Lab File: VF059362.D

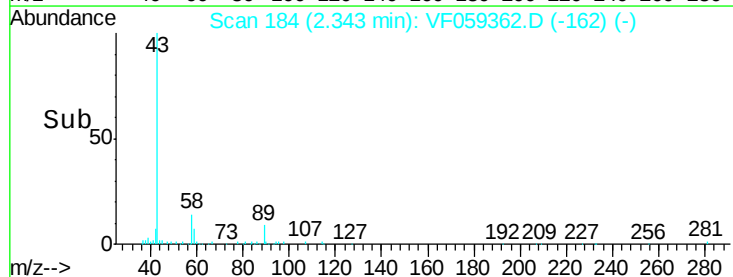
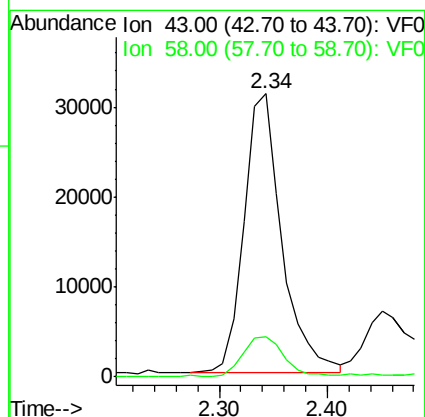
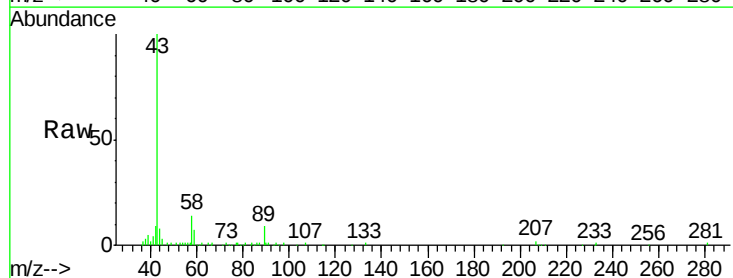
Acq: 28 Jun 2018 16:01

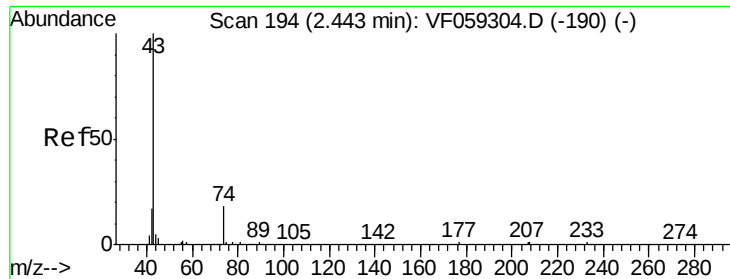
Tgt Ion: 43 Resp: 75182

Ion Ratio Lower Upper

43 100

58 14.2 11.4 17.0

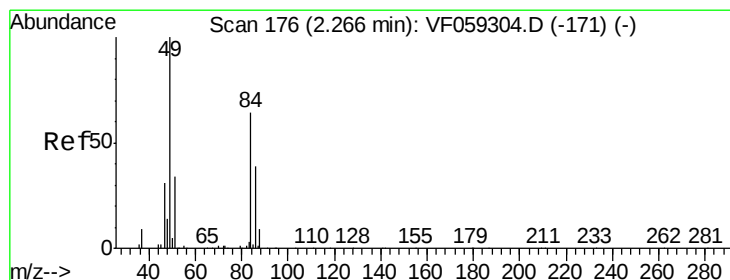
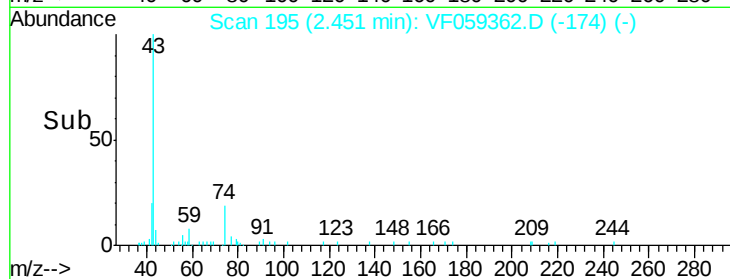
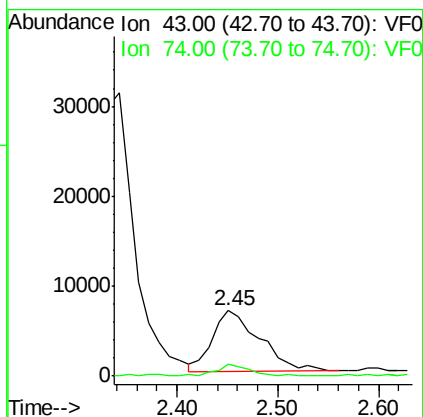
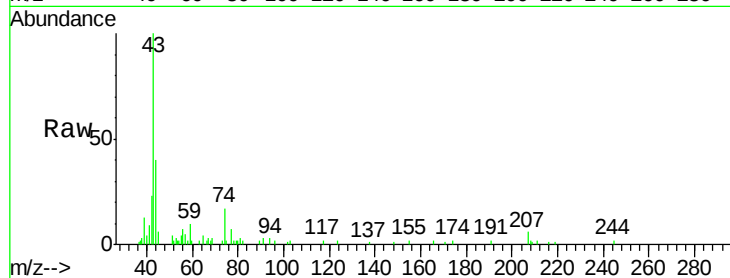




#18
Methyl Acetate
Concen: 14.711 ug/l
RT: 2.45 min Scan# 195
Delta R.T. 0.01 min
Lab File: VF059362.D
Acq: 28 Jun 2018 16:01

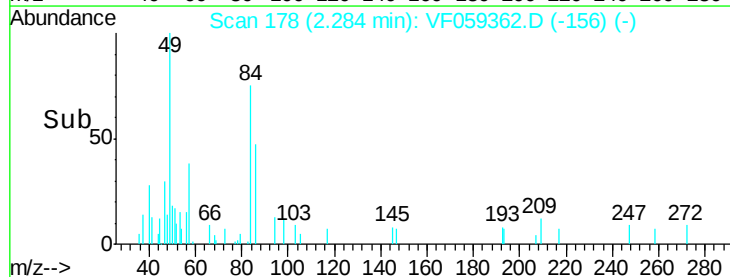
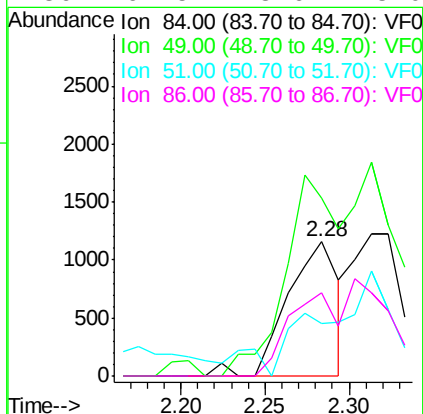
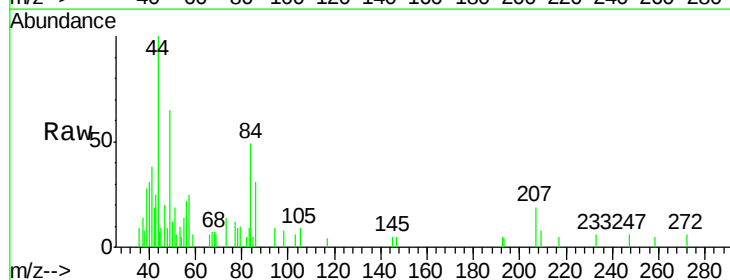
Instrument :
MSVOA_F
ClientSampleId :
JC-02-062618-C

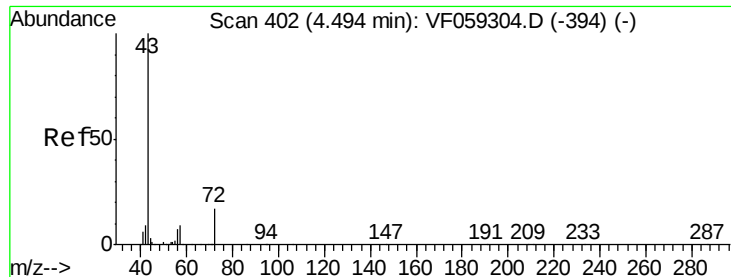
Tot Ion: 43 Resp: 22034
Ion Ratio Lower Upper
43 100
74 17.4 13.3 19.9



#20
Methylene Chloride
Concen: Below Cal
RT: 2.28 min Scan# 178
Delta R.T. 0.02 min
Lab File: VF059362.D
Acq: 28 Jun 2018 16:01

Tgt Ion: 84 Resp: 2430
Ion Ratio Lower Upper
84 100
49 133.2 126.5 189.7
51 38.9 42.9 64.3#
86 62.5 48.6 73.0





#25

2-Butanone

Concen: Below Cal

RT: 4.53 min Scan# 406

Delta R.T. 0.04 min

Lab File: VF059362.D

Acq: 28 Jun 2018 16:01

Instrument :

MSVOA_F

ClientSampleId :

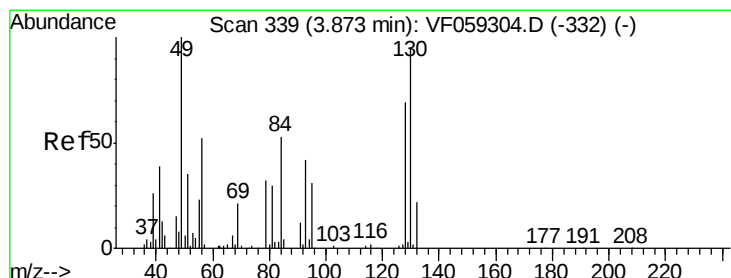
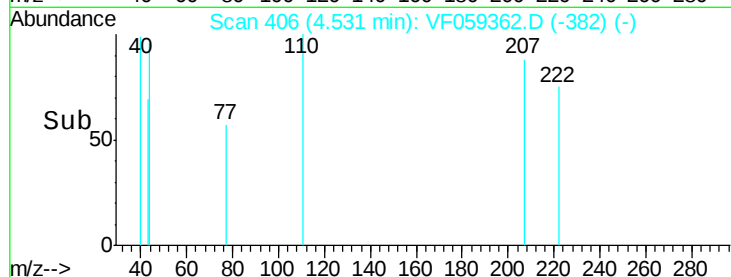
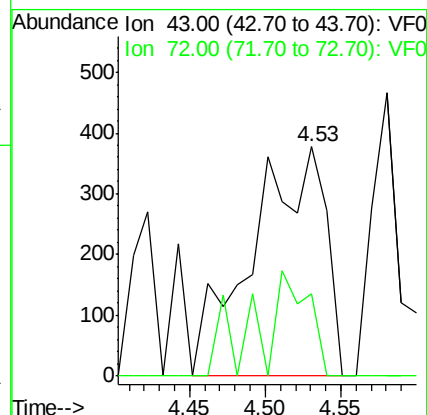
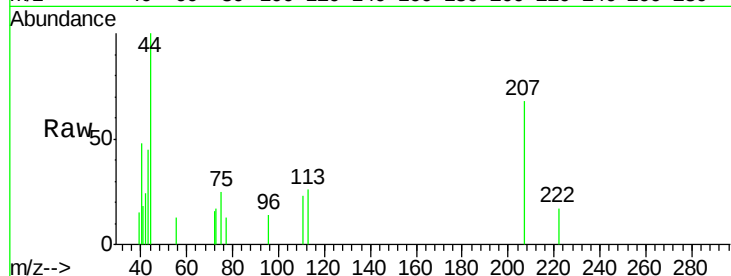
JC-02-062618-C

Tot Ion: 43 Resp: 1273

Ion Ratio Lower Upper

43 100

72 36.1 14.4 21.6#



#28

Bromochloromethane

Concen: Below Cal

RT: 3.84 min Scan# 336

Delta R.T. -0.03 min

Lab File: VF059362.D

Acq: 28 Jun 2018 16:01

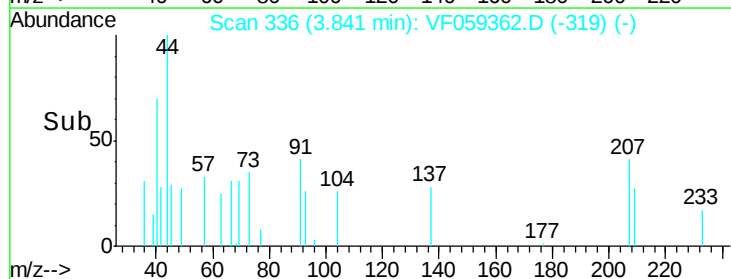
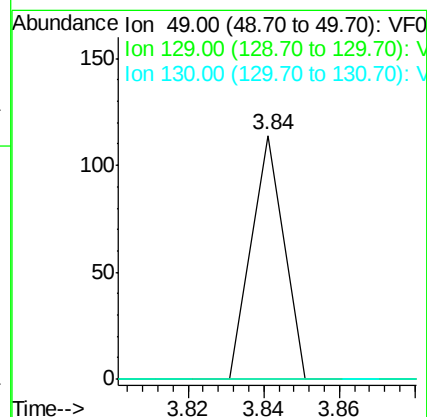
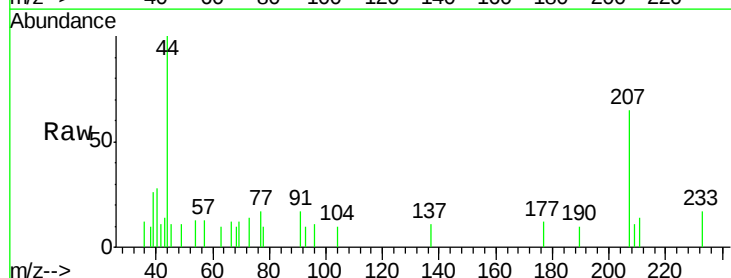
Tgt Ion: 49 Resp: 67

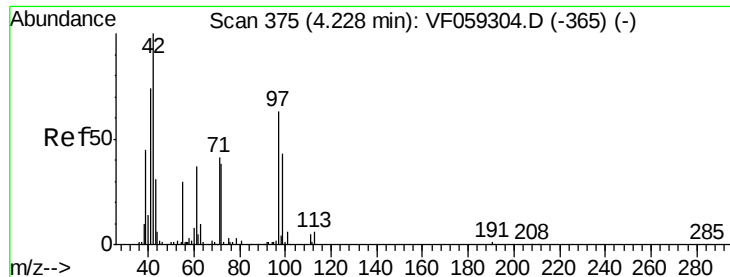
Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.4

130 0.0 75.1 112.7#

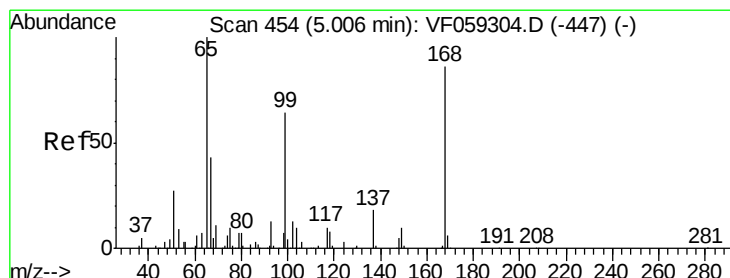
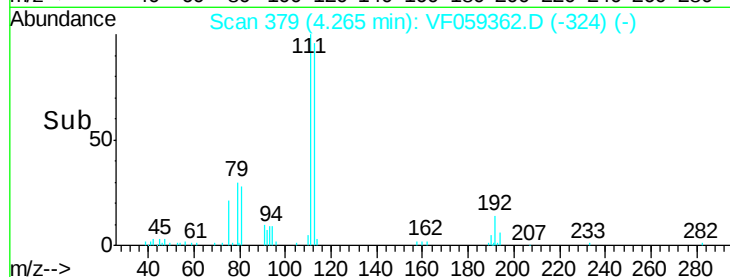
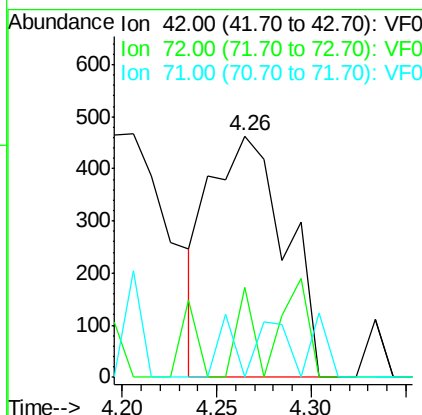
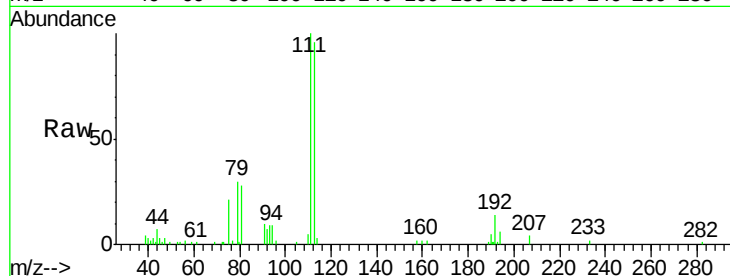




#29
Tetrahydrofuran
Concen: Below Cal
RT: 4.26 min Scan# 379
Delta R.T. 0.04 min
Lab File: VF059362.D
Acq: 28 Jun 2018 16:01

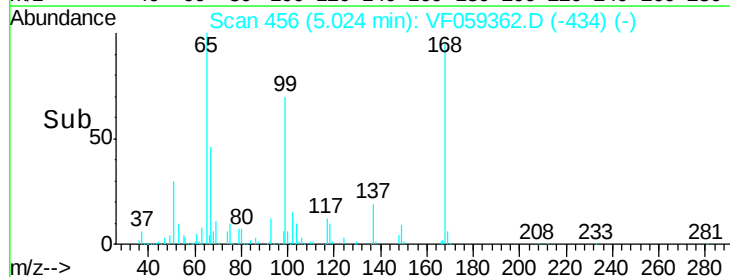
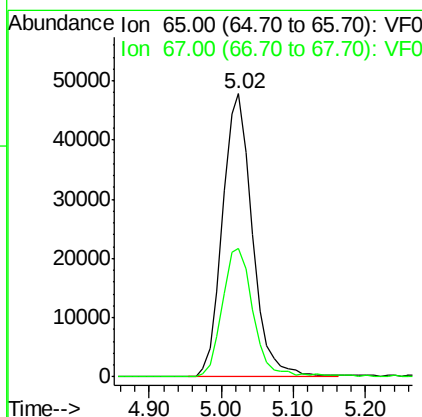
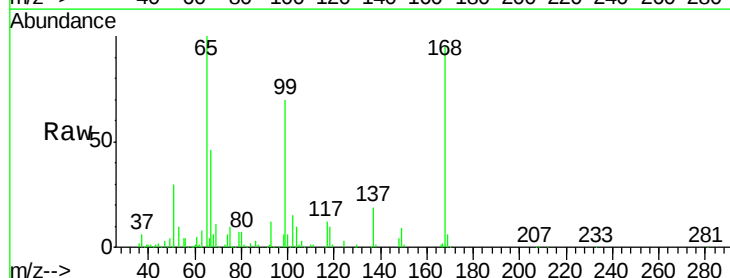
Instrument :
MSVOA_F
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JC-02-062618-C

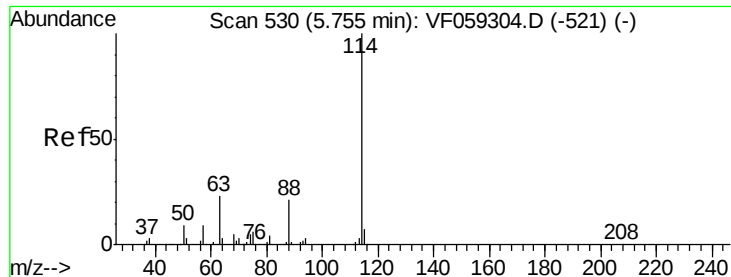
Tot Ion	Ratio	Lower	Upper
42	100		
72	8.0	30.5	45.7#
71	5.6	32.5	48.7#



#33
1,2-Dichloroethane-d4
Concen: 43.626 ug/l
RT: 5.02 min Scan# 456
Delta R.T. 0.02 min
Lab File: VF059362.D
Acq: 28 Jun 2018 16:01

Tgt Ion	Ratio	Lower	Upper
65	100		
67	45.5	0.0	96.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.76 min Scan# 531

Delta R.T. 0.01 min

Lab File: VF059362.D

Acq: 28 Jun 2018 16:01

Instrument :

MSVOA_F

ClientSampleId :

JC-02-062618-C

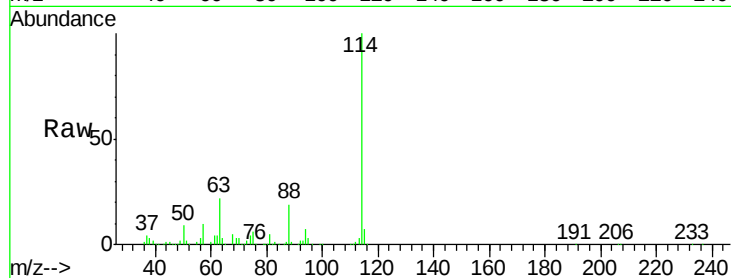
Tot Ion:114 Resp: 391904

Ion Ratio Lower Upper

114 100

63 21.8 0.0 45.8

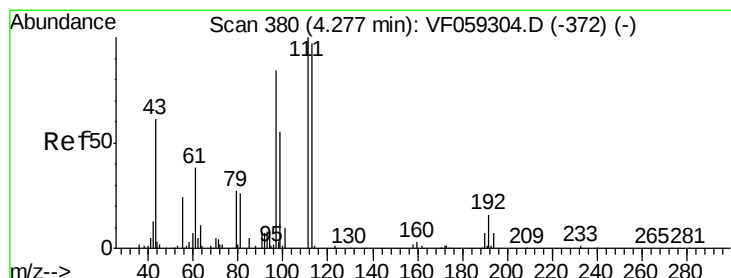
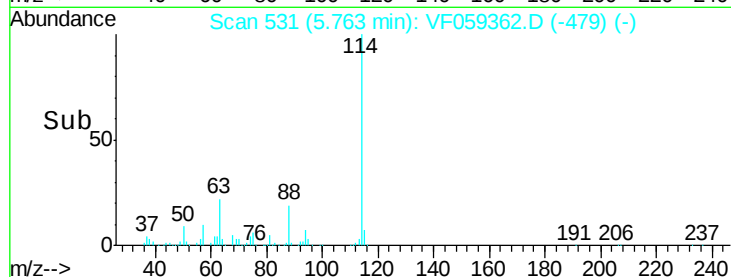
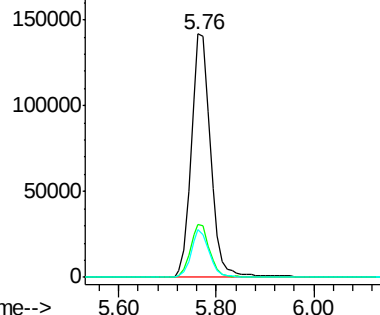
88 19.5 0.0 41.2



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: 47.953 ug/l

RT: 4.29 min Scan# 382

Delta R.T. 0.02 min

Lab File: VF059362.D

Acq: 28 Jun 2018 16:01

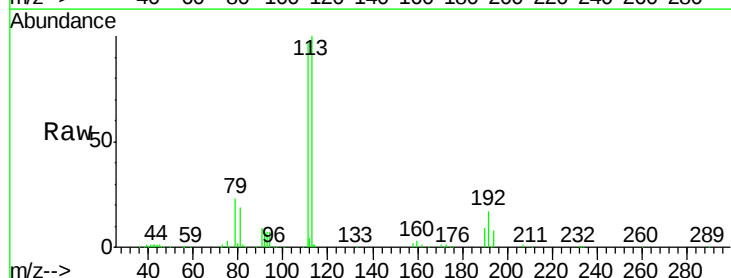
Tgt Ion:113 Resp: 137313

Ion Ratio Lower Upper

113 100

111 96.2 82.1 123.1

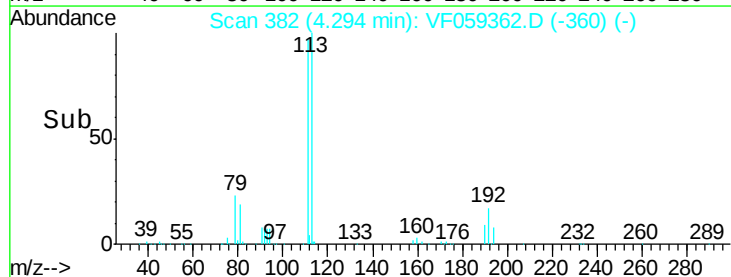
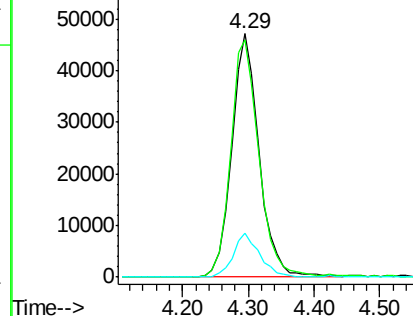
192 17.7 13.0 19.6

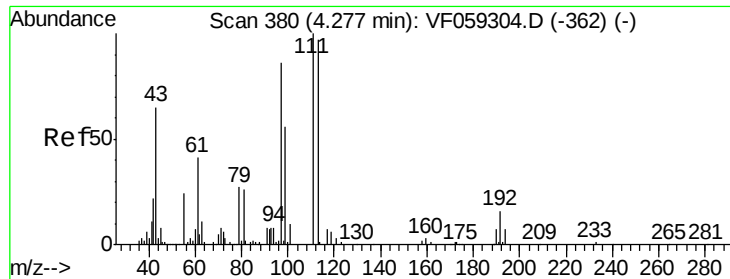


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

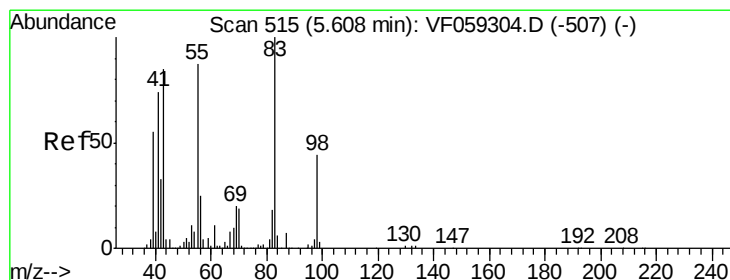
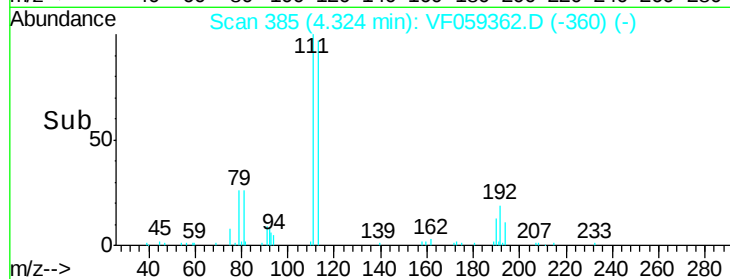
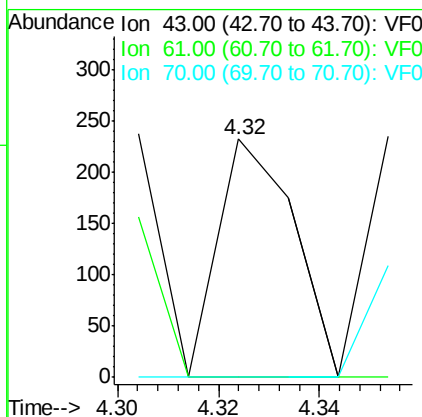
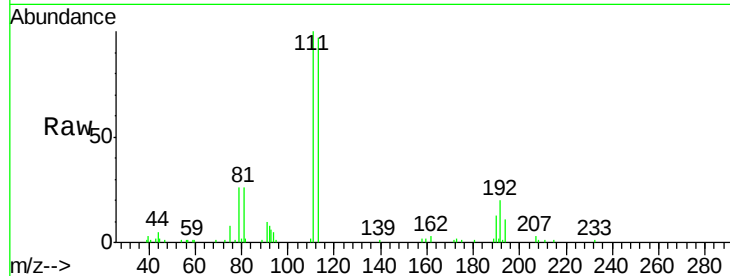




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.32 min Scan# 385
Delta R.T. 0.05 min
Lab File: VF059362.D
Acq: 28 Jun 2018 16:01

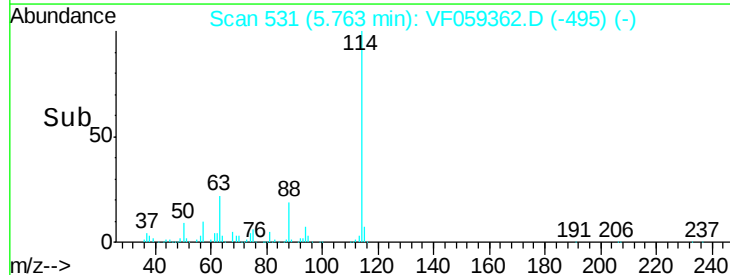
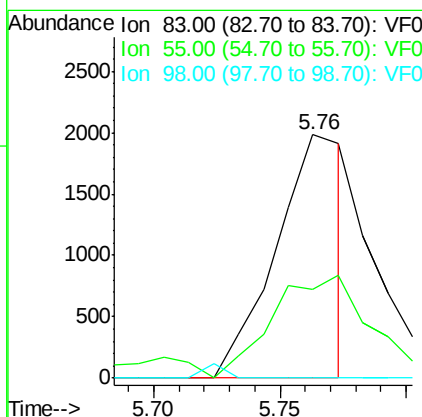
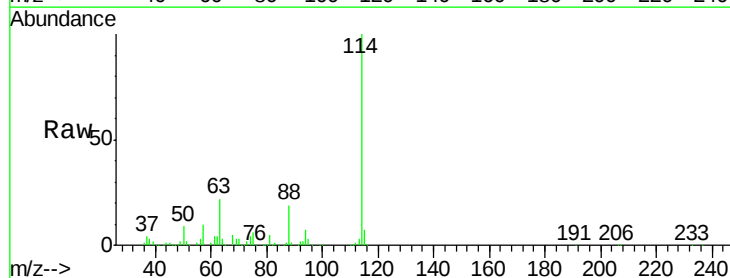
Instrument :
MSVOA_F
ClientSampleId :
JC-02-062618-C

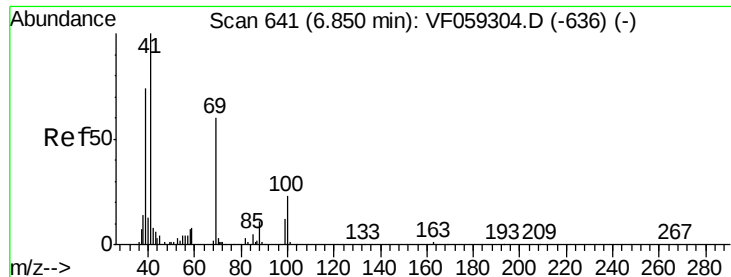
Tot Ion: 43 Resp: 241
Ion Ratio Lower Upper
43 100
61 0.0 50.1 75.1#
70 0.0 6.2 9.4#



#39
Methylcyclohexane
Concen: 1.240 ug/l
RT: 5.76 min Scan# 531
Delta R.T. 0.16 min
Lab File: VF059362.D
Acq: 28 Jun 2018 16:01

Tgt Ion: 83 Resp: 3763
Ion Ratio Lower Upper
83 100
55 36.2 69.2 103.8#
98 0.0 35.0 52.6#

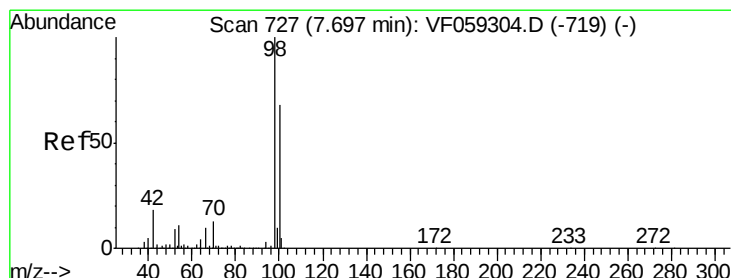
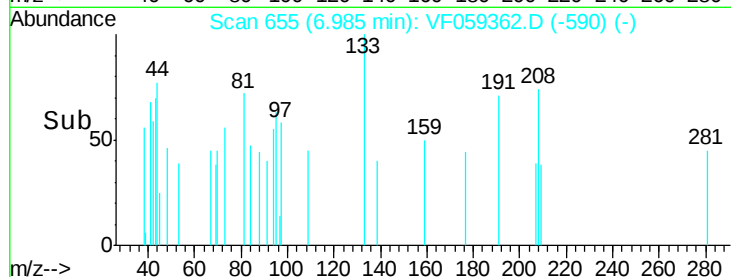
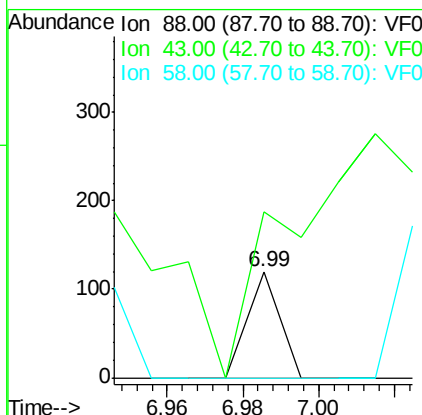
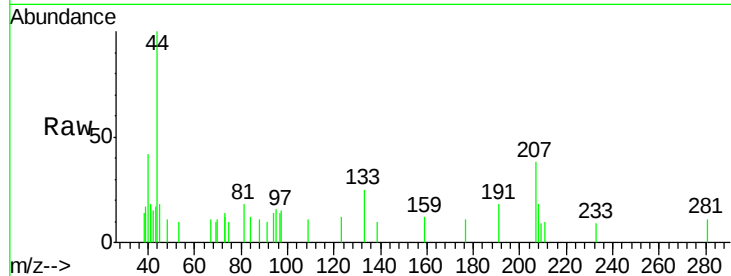




#49
1,4-Dioxane
Concen: Below Cal
RT: 6.99 min Scan# 655
Delta R.T. 0.14 min
Lab File: VF059362.D
Acq: 28 Jun 2018 16:01

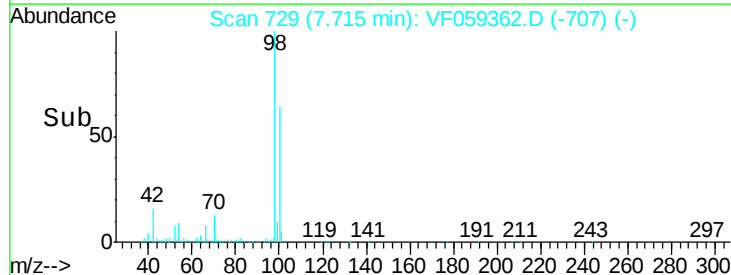
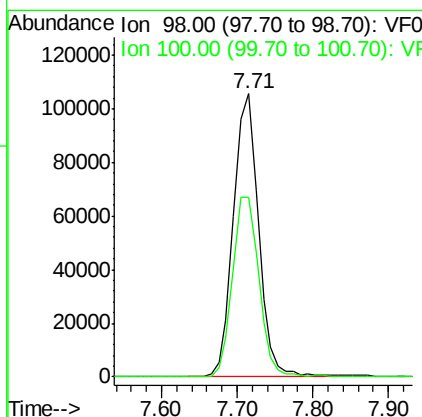
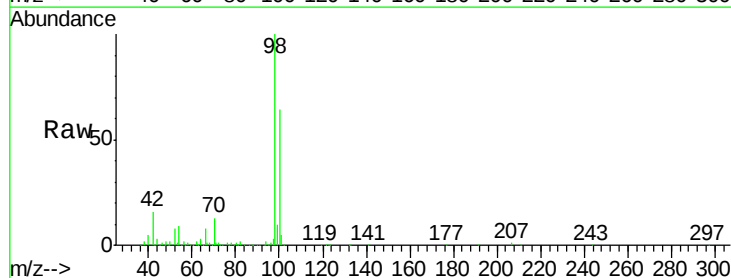
Instrument :
MSVOA_F
ClientSampleId :
JC-02-062618-C

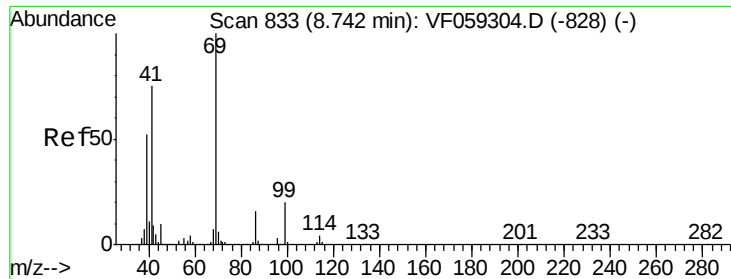
Tot Ion: 88 Resp: 71
Ion Ratio Lower Upper
88 100
43 156.7 50.6 75.8#
58 0.0 46.6 69.8#



#50
Toluene-d8
Concen: 34.242 ug/l
RT: 7.71 min Scan# 729
Delta R.T. 0.02 min
Lab File: VF059362.D
Acq: 28 Jun 2018 16:01

Tgt Ion: 98 Resp: 242769
Ion Ratio Lower Upper
98 100
100 63.6 54.6 82.0

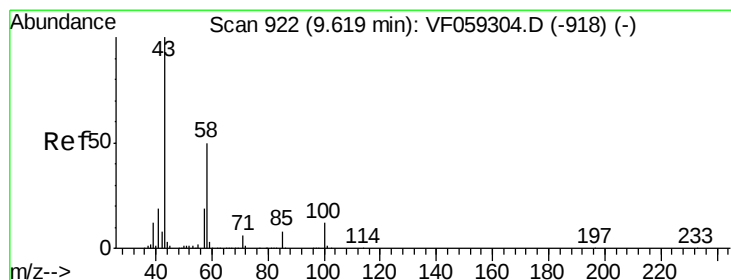
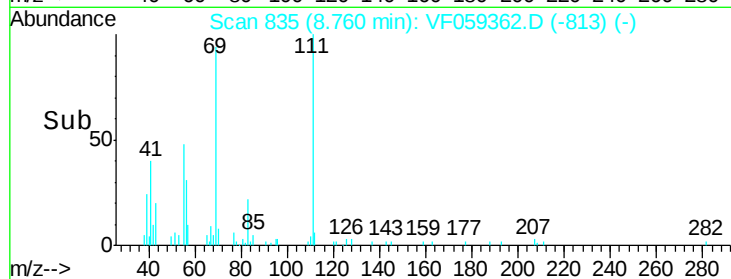
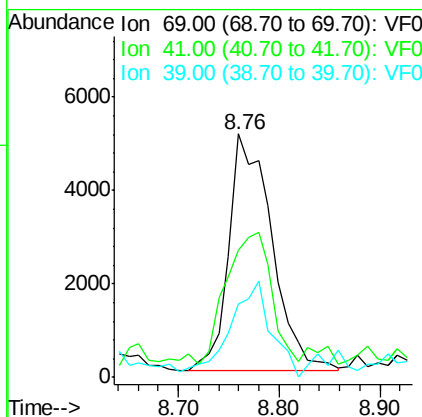
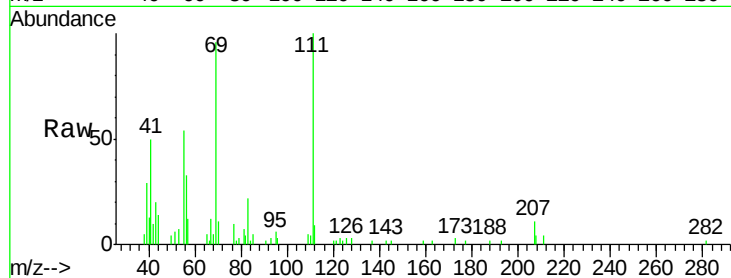




#56
Ethyl methacrylate
Concen: 5.503 ug/l
RT: 8.76 min Scan# 835
Delta R.T. 0.02 min
Lab File: VF059362.D
Acq: 28 Jun 2018 16:01

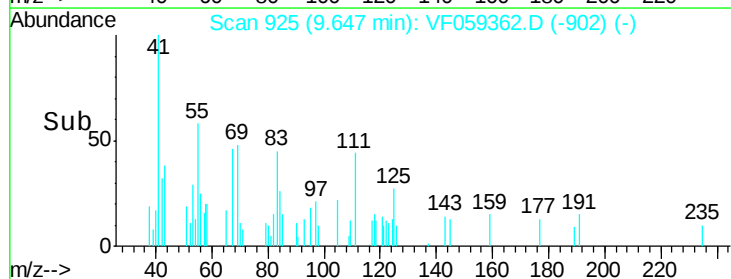
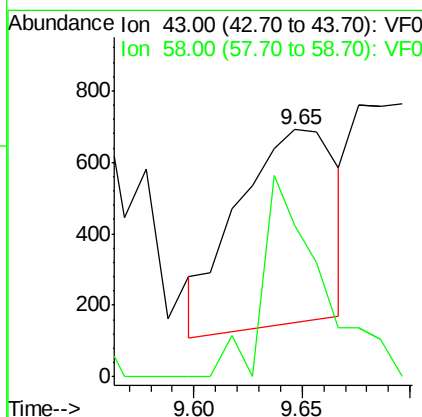
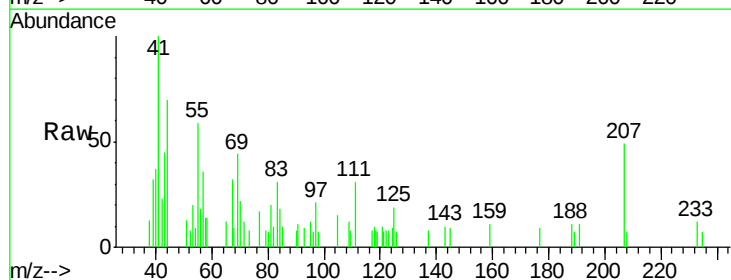
Instrument :
MSVOA_F
ClientSampleId :
JC-02-062618-C

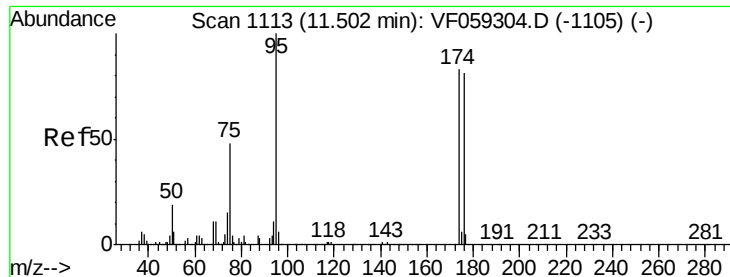
Tot Ion: 69 Resp: 15035
Ion Ratio Lower Upper
69 100
41 52.4 60.3 90.5#
39 29.9 42.2 63.4#



#59
2-Hexanone
Concen: Below Cal
RT: 9.65 min Scan# 925
Delta R.T. 0.03 min
Lab File: VF059362.D
Acq: 28 Jun 2018 16:01

Tgt Ion: 43 Resp: 1731
Ion Ratio Lower Upper
43 100
58 61.1 23.3 69.9





#62

4-Bromofluorobenzene

Concen: 39.198 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. 0.01 min

Lab File: VF059362.D

Acq: 28 Jun 2018 16:01

Instrument :

MSVOA_F

ClientSampleId :

JC-02-062618-C

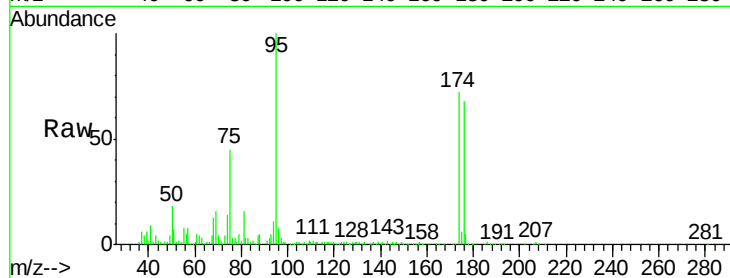
Tot Ion: 95 Resp: 156764

Ion Ratio Lower Upper

95 100

174 71.9 0.0 165.2

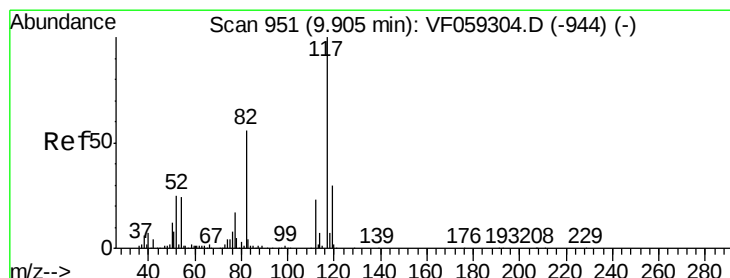
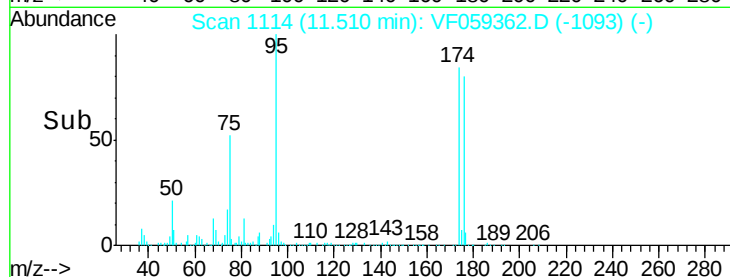
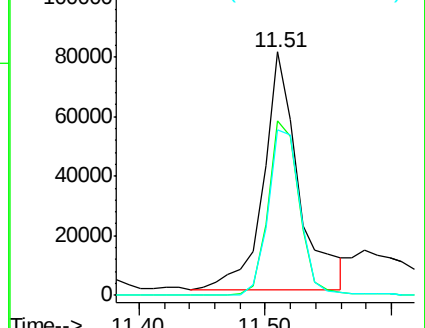
176 68.2 0.0 161.0



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: 50.000 ug/l

RT: 9.92 min Scan# 953

Delta R.T. 0.02 min

Lab File: VF059362.D

Acq: 28 Jun 2018 16:01

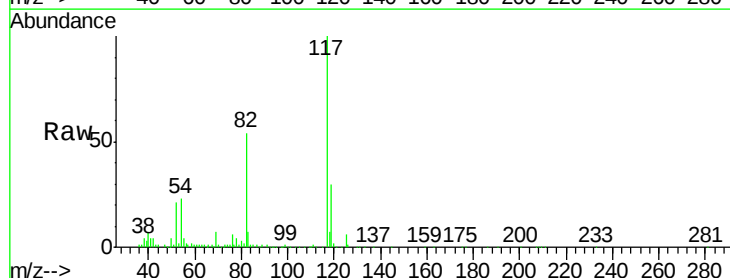
Tgt Ion: 117 Resp: 313300

Ion Ratio Lower Upper

117 100

82 53.8 44.6 66.8

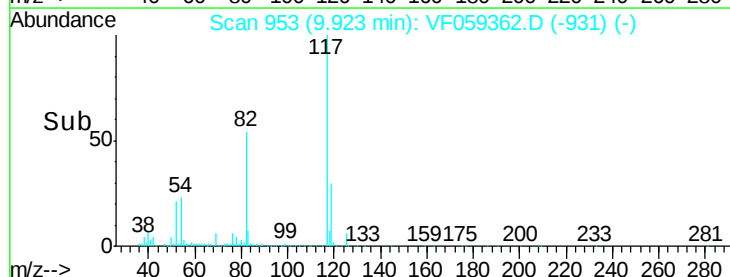
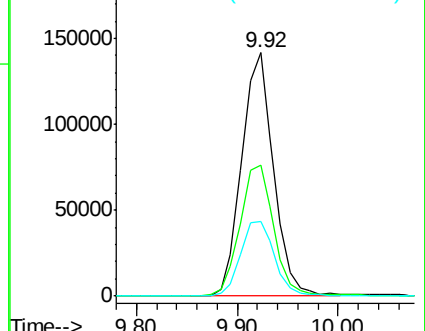
119 30.4 24.1 36.1

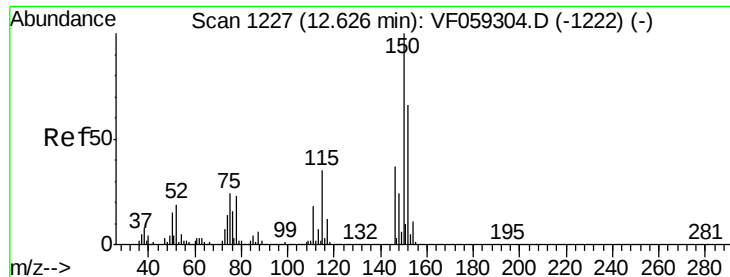


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.63 min Scan# 1228

Delta R.T. 0.01 min

Lab File: VF059362.D

Acq: 28 Jun 2018 16:01

Instrument :

MSVOA_F

ClientSampleId :

JC-02-062618-C

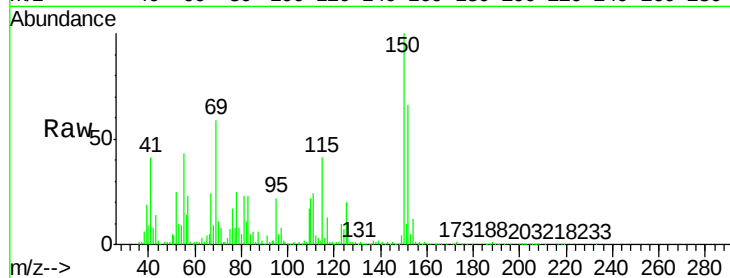
Tot Ion:152 Resp: 135123

Ion Ratio Lower Upper

152 100

115 61.5 27.1 81.3

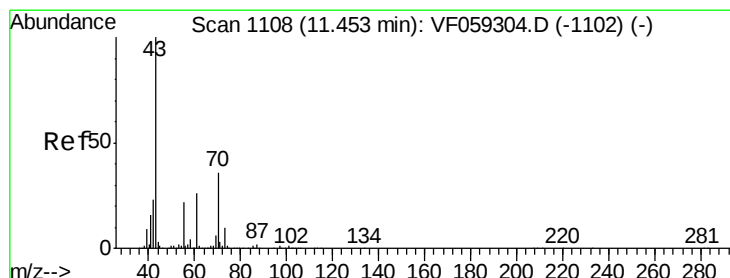
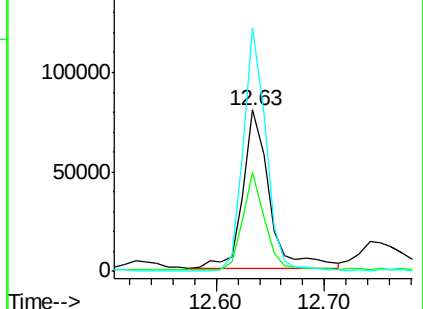
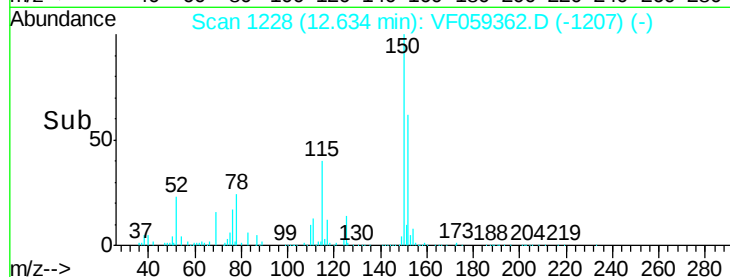
150 151.1 0.0 305.2



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



#74

N-ethyl acetate

Concen: 7.471 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. 0.04 min

Lab File: VF059362.D

Acq: 28 Jun 2018 16:01

Tgt Ion: 43 Resp: 21342

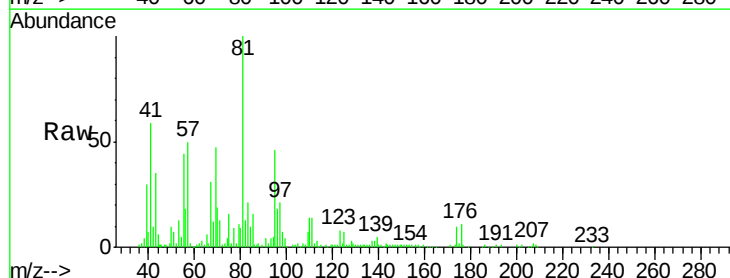
Ion Ratio Lower Upper

43 100

70 55.6 28.8 43.2#

55 125.0 17.4 26.0#

61 2.9 21.1 31.7#

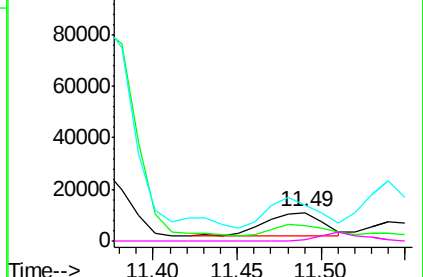
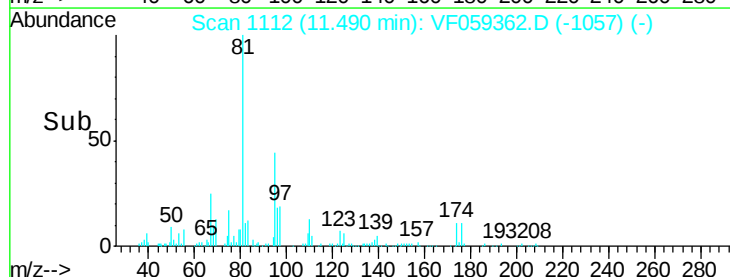


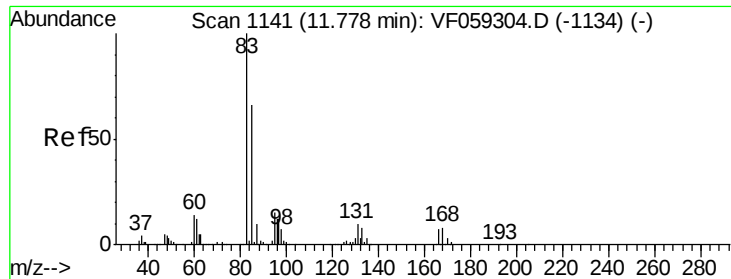
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 2.758 ug/l

RT: 11.87 min Scan# 1151

Delta R.T. 0.10 min

Lab File: VF059362.D

Acq: 28 Jun 2018 16:01

Instrument :

MSVOA_F

ClientSampleId :

JC-02-062618-C

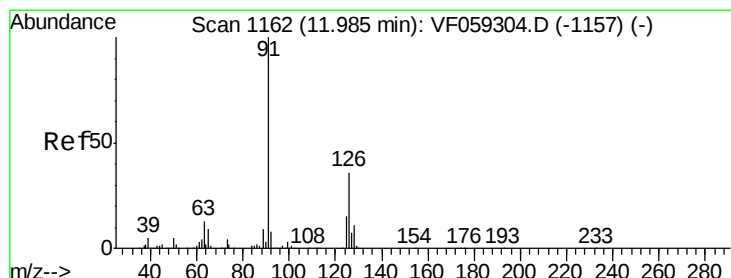
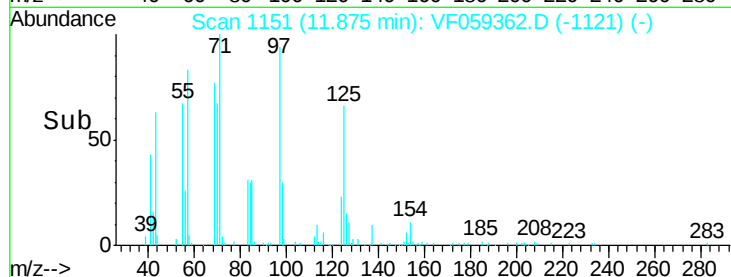
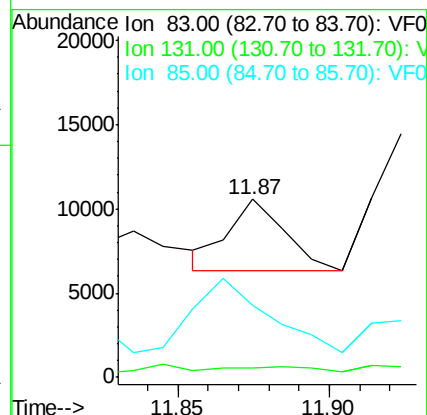
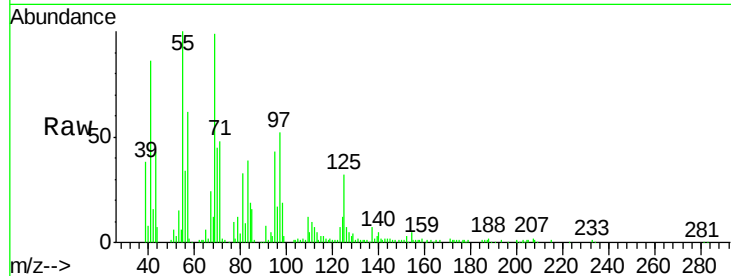
Tot Ion: 83 Resp: 5484

Ion Ratio Lower Upper

83 100

131 5.5 4.9 14.6

85 40.4 32.8 98.4



#82

4-Chlorotoluene

Concen: 1.042 ug/l

RT: 12.04 min Scan# 1168

Delta R.T. 0.06 min

Lab File: VF059362.D

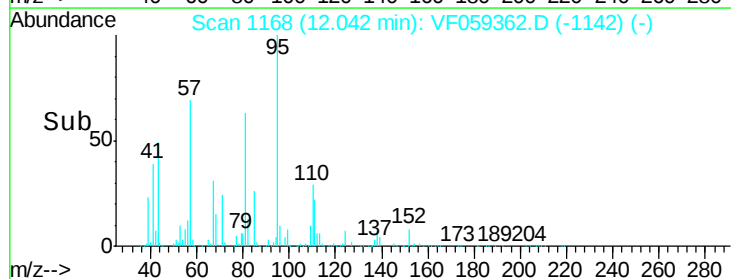
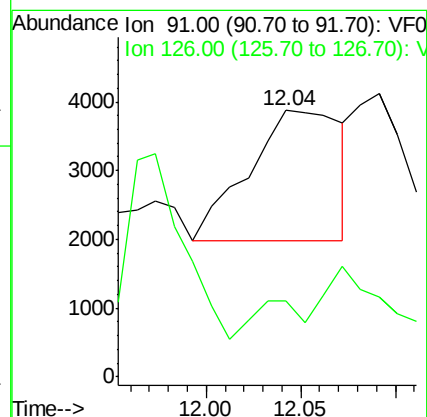
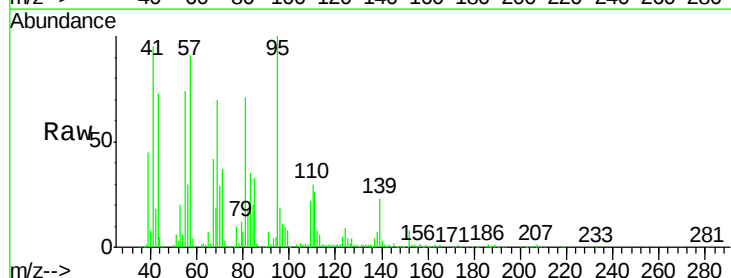
Acq: 28 Jun 2018 16:01

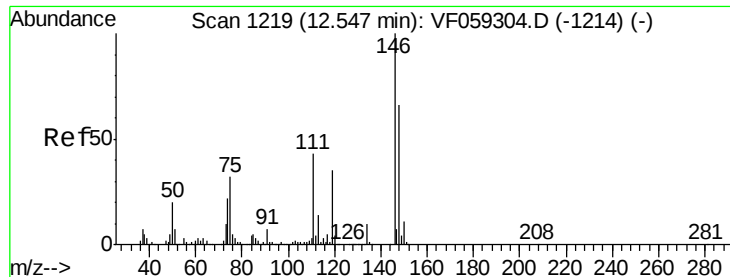
Tgt Ion: 91 Resp: 6445

Ion Ratio Lower Upper

91 100

126 28.6 18.2 54.6

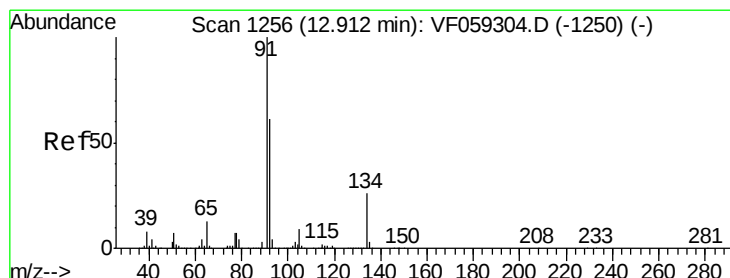
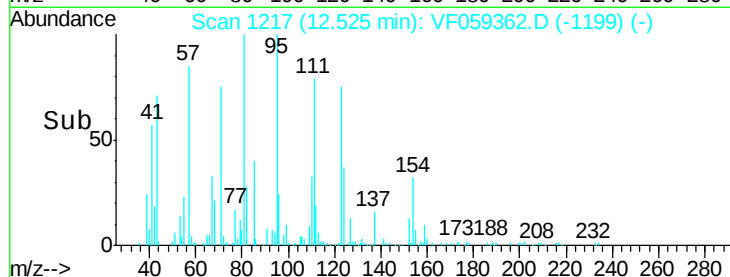
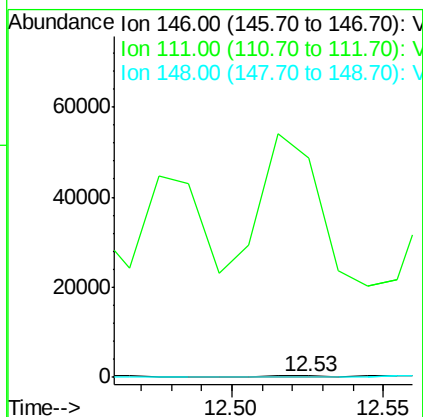
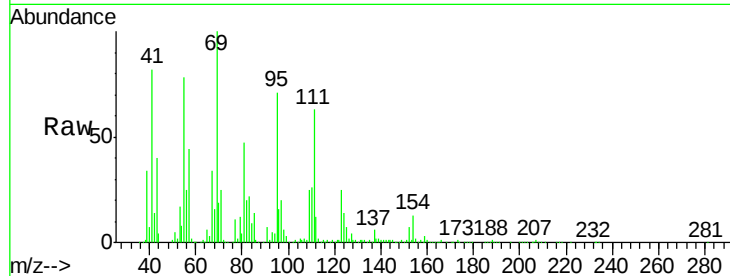




#87
 1,3-Dichlorobenzene
 Concen: Below Cal
 RT: 12.53 min Scan# 1217
 Delta R.T. -0.02 min
 Lab File: VF059362.D
 Acq: 28 Jun 2018 16:01

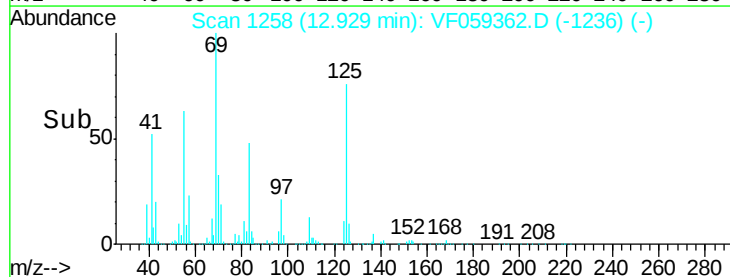
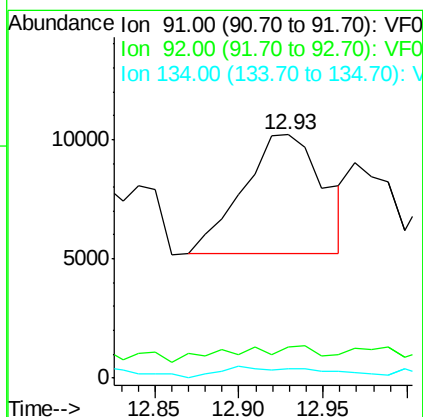
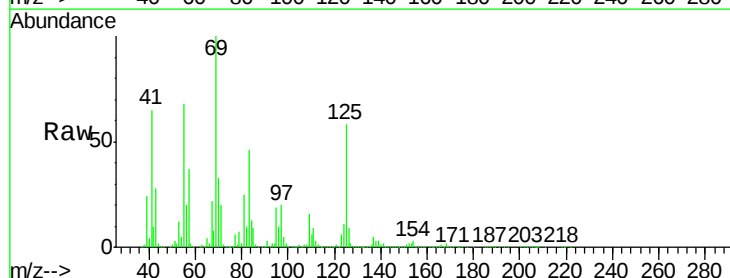
Instrument :
 MSVOA_F
 ClientSampleId :
 JC-02-062618-C

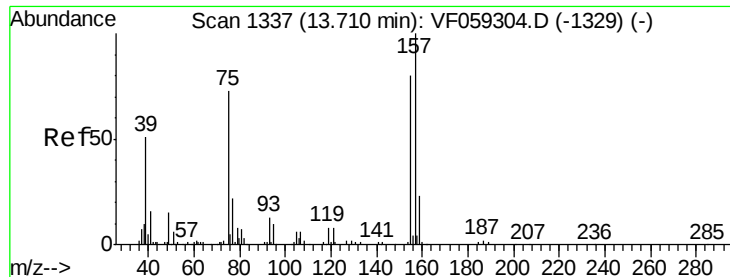
Tot Ion:146 Resp: 525
 Ion Ratio Lower Upper
 146 100
 111 16780.7 21.4 64.2#
 148 52.4 32.8 98.4



#89
 n-Butylbenzene
 Concen: 2.110 ug/l
 RT: 12.93 min Scan# 1258
 Delta R.T. 0.02 min
 Lab File: VF059362.D
 Acq: 28 Jun 2018 16:01

Tgt Ion: 91 Resp: 16431
 Ion Ratio Lower Upper
 91 100
 92 12.8 30.3 91.0#
 134 3.8 12.9 38.7#





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.287 ug/l

RT: 13.72 min Scan# 1338

Delta R.T. 0.01 min

Lab File: VF059362.D

Acq: 28 Jun 2018 16:01

Instrument :

MSVOA_F

ClientSampleId :

JC-02-062618-C

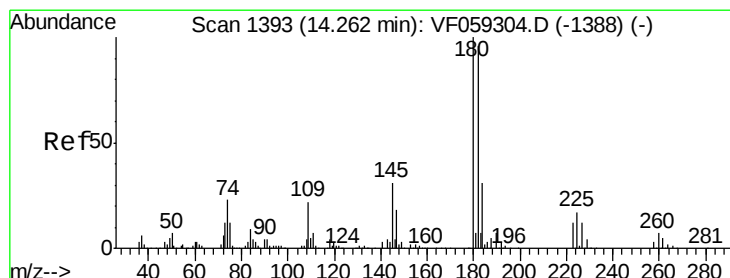
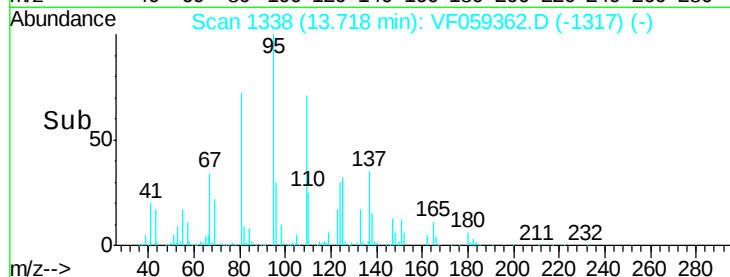
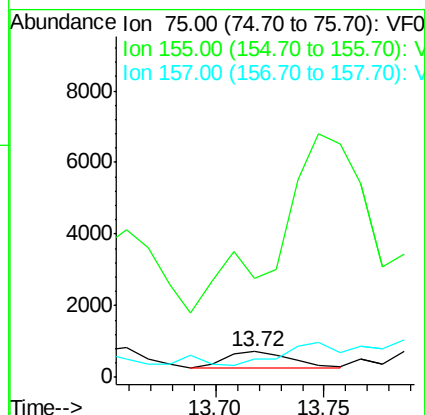
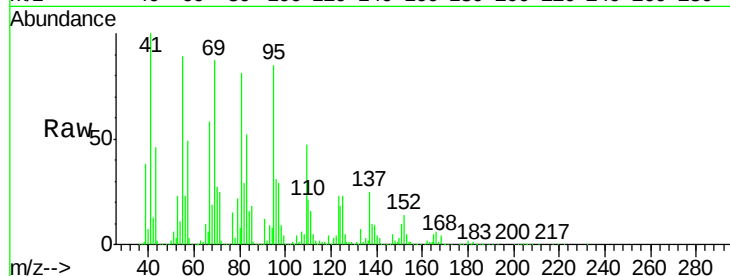
Tot Ion: 75 Resp: 1008

Ion Ratio Lower Upper

75 100

155 385.3 54.6 163.8#

157 70.9 68.7 205.9



#93

1,2,4-Trichlorobenzene

Concen: 9.111 ug/l

RT: 14.15 min Scan# 1382

Delta R.T. -0.11 min

Lab File: VF059362.D

Acq: 28 Jun 2018 16:01

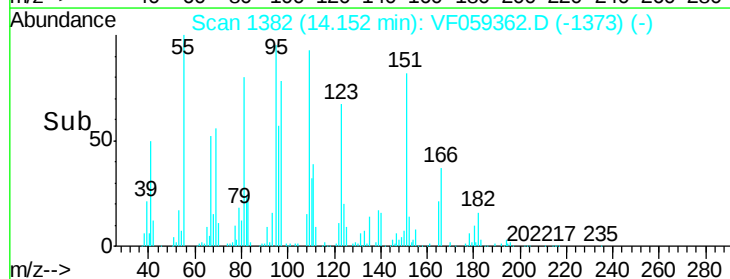
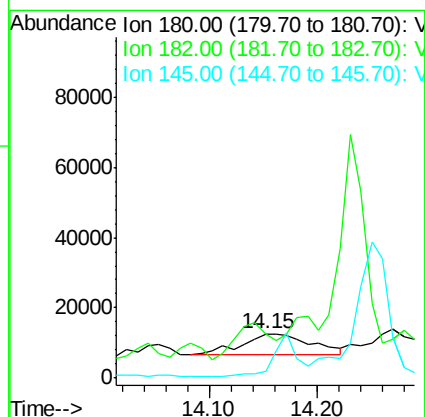
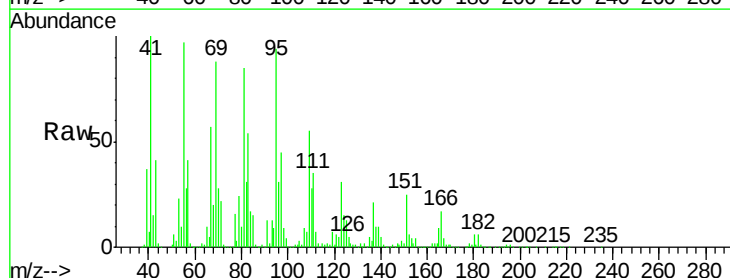
Tgt Ion:180 Resp: 26710

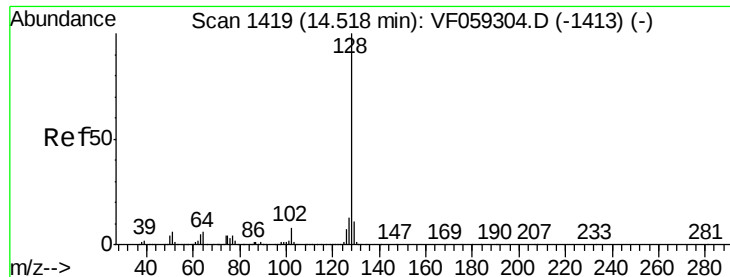
Ion Ratio Lower Upper

180 100

182 98.9 48.1 144.3

145 15.9 15.3 45.8





#95

Naphthalene

Concen: 7.064 ug/l

RT: 14.57 min Scan# 1424

Delta R.T. 0.05 min

Lab File: VF059362.D

Acq: 28 Jun 2018 16:01

Instrument :

MSVOA_F

ClientSampleId :

JC-02-062618-C

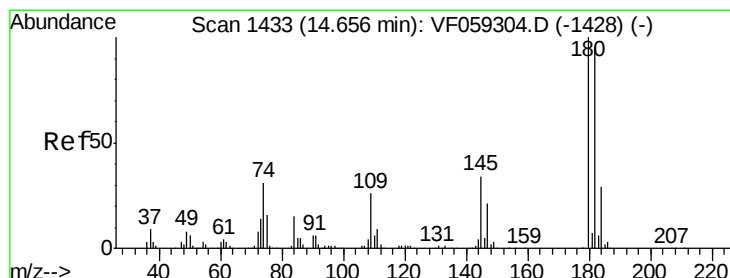
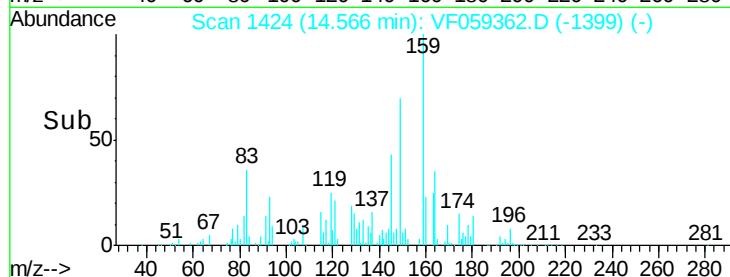
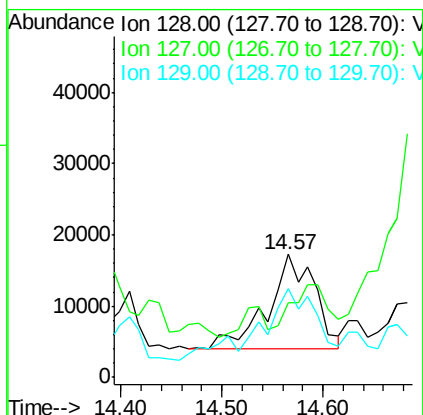
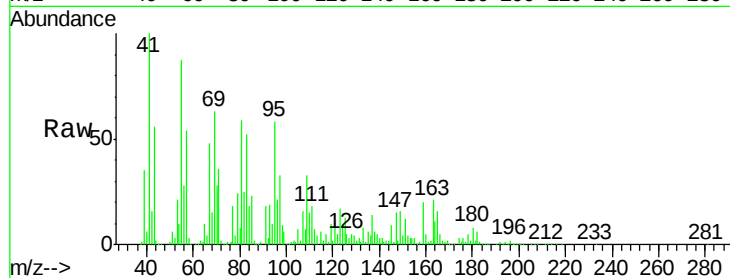
Tot Ion:128 Resp: 43327

Ion Ratio Lower Upper

128 100

127 60.3 10.1 15.1#

129 71.8 8.8 13.2#



#96

1,2,3-Trichlorobenzene

Concen: 18.831 ug/l

RT: 14.61 min Scan# 1429

Delta R.T. -0.04 min

Lab File: VF059362.D

Acq: 28 Jun 2018 16:01

Tgt Ion:180 Resp: 52299

Ion Ratio Lower Upper

180 100

182 16.0 47.5 142.5#

145 16.4 17.0 50.9#

