

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062818\
 Data File : VF059363.D
 Acq On : 28 Jun 2018 16:28
 Operator : VA/AP
 Sample : J3242-09RE
 Misc : 5.75g/5mL/MSVOA-F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

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

Quant Time: Jun 29 11:30:16 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	228812	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.76	114	362150	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	308191	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.63	152	129135	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.01	65	136199	46.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.14%	
35) Dibromofluoromethane	4.29	113	130074	49.16	ug/l	0.02
Spiked Amount	50.000		Recovery	=	98.32%	
50) Toluene-d8	7.71	98	241278	36.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	73.66%	
62) 4-Bromofluorobenzene	11.51	95	134975	36.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	73.04%	

Target Compounds

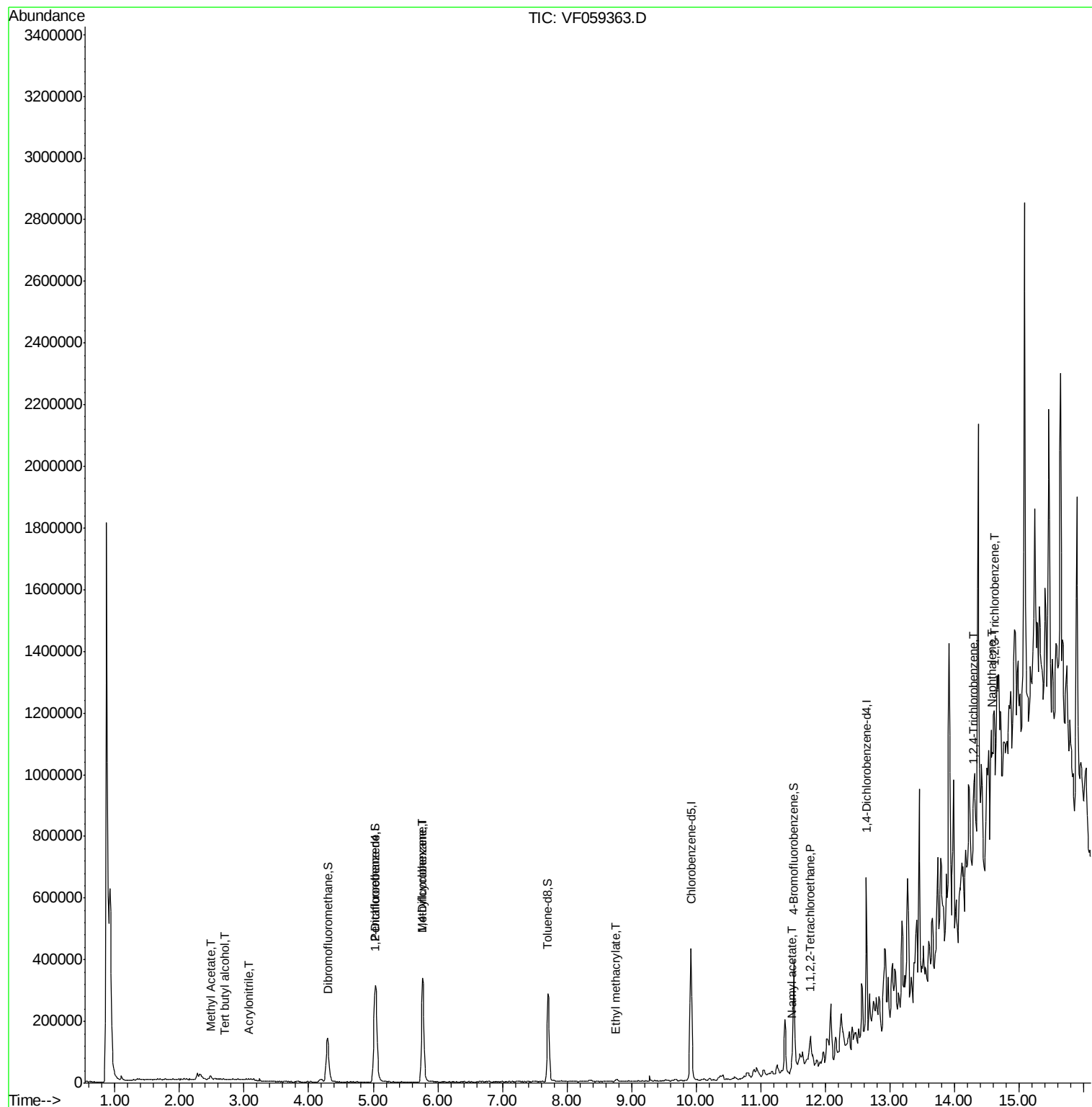
						Qvalue
5) Bromomethane	1.27	94	397	Below Cal		96
11) Tert butyl alcohol	2.70	59	853	4.33 ug/l	#	1
13) Acrolein	2.14	56	303	Below Cal		92
15) Acrylonitrile	3.08	53	386	1.11 ug/l	#	77
18) Methyl Acetate	2.49	43	6667	3.92 ug/l	#	77
20) Methylene Chloride	2.31	84	7658	Below Cal		93
25) 2-Butanone	4.51	43	1195	Below Cal	#	59
28) Bromochloromethane	3.89	49	73	Below Cal	#	6
29) Tetrahydrofuran	4.26	42	820	Below Cal	#	69
37) Ethyl Acetate	4.29	43	593	Below Cal	#	26
39) Methylcyclohexane	5.76	83	3897	1.39 ug/l	#	48
49) 1,4-Dioxane	6.87	88	61	Below Cal	#	21
56) Ethyl methacrylate	8.76	69	3574	1.42 ug/l		87
59) 2-Hexanone	9.66	43	806	Below Cal	#	30
74) N-amyl acetate	11.47	43	2838	1.04 ug/l	#	11
75) 1,1,2,2-Tetrachloroethane	11.77	83	24796	13.05 ug/l	#	35
87) 1,3-Dichlorobenzene	12.57	146	752	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.28	180	2937	1.05 ug/l		91
95) Naphthalene	14.59	128	17580	3.00 ug/l	#	1
96) 1,2,3-Trichlorobenzene	14.61	180	14911	5.62 ug/l	#	32

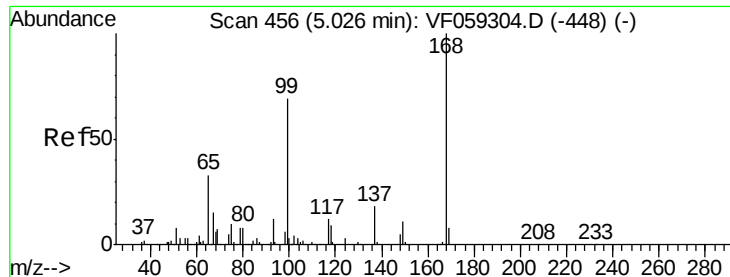
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jun 26 08:45:17 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.04 min Scan# 458

Delta R.T. 0.02 min

Lab File: VF059363.D

Acq: 28 Jun 2018 16:28

Instrument :

MSVOA_F

ClientSampleId :

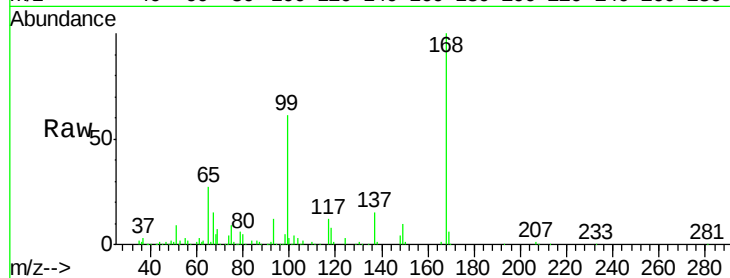
JC-02-062618-ERE

Tot Ion:168 Resp: 228812

Ion Ratio Lower Upper

168 100

99 60.6 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

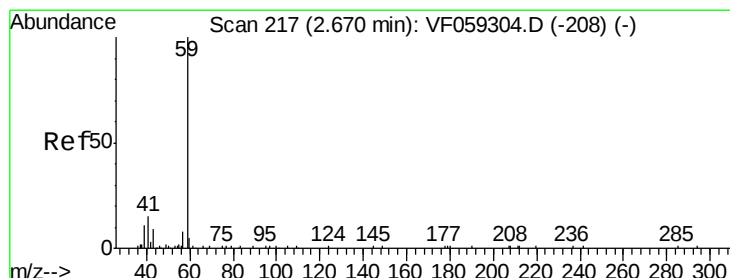
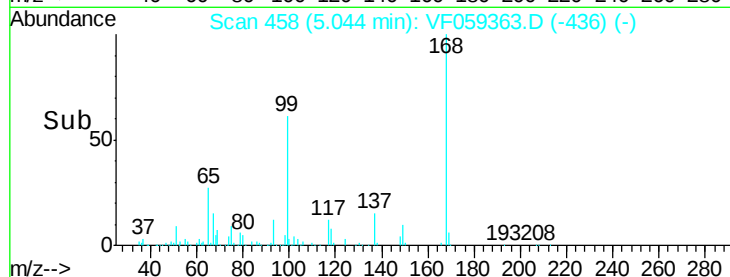
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 4.33 ug/l

RT: 2.70 min Scan# 220

Delta R.T. 0.03 min

Lab File: VF059363.D

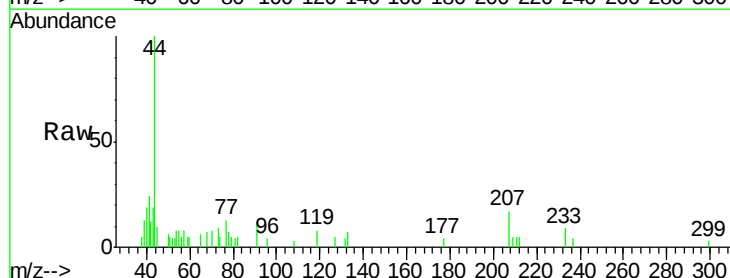
Acq: 28 Jun 2018 16:28

Tgt Ion: 59 Resp: 853

Ion Ratio Lower Upper

59 100

57 75.2 11.0 16.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.70

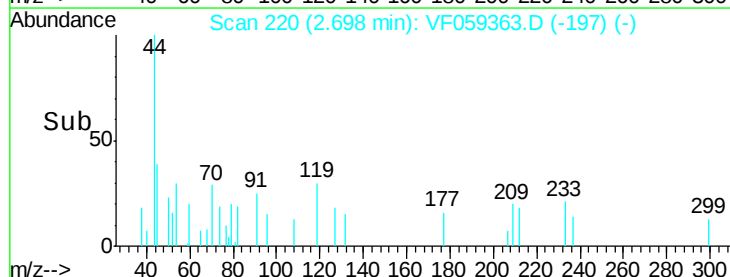
300

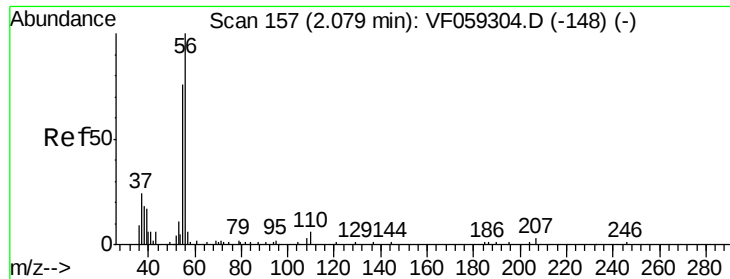
200

100

0

Time-->





#13

Acrolein

Concen: Below Cal

RT: 2.14 min Scan# 163

Delta R.T. 0.06 min

Lab File: VF059363.D

Acq: 28 Jun 2018 16:28

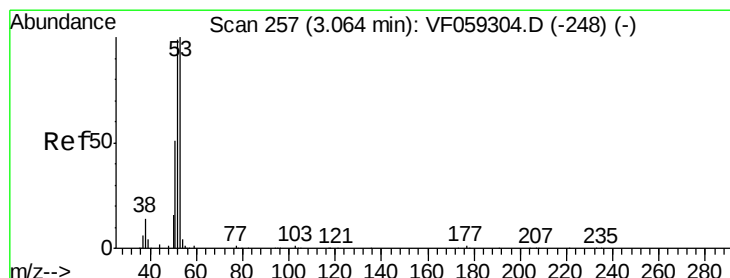
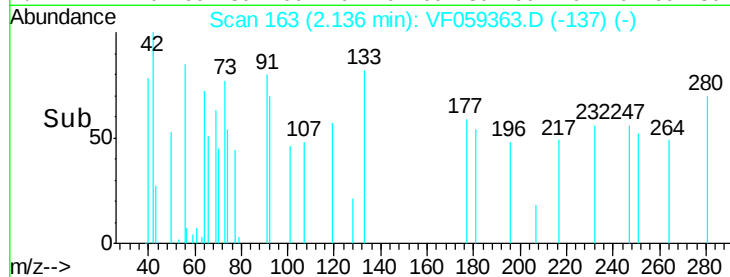
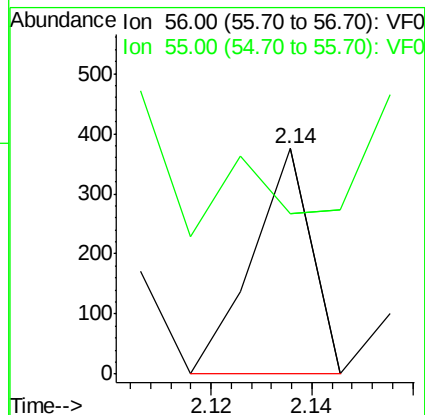
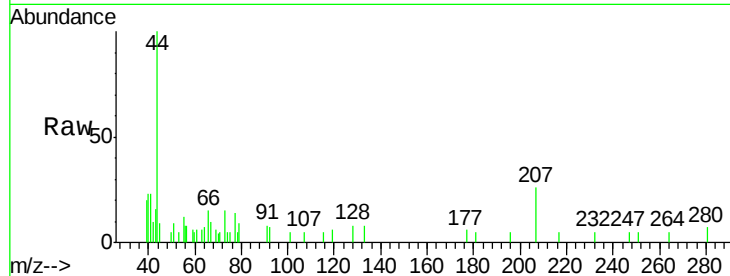
Instrument :
MSVOA_F
ClientSampleId :
JC-02-062618-ERE

Tot Ion: 56 Resp: 303

Ion Ratio Lower Upper

56 100

55 71.5 62.4 93.6



#15

Acrylonitrile

Concen: 1.11 ug/l

RT: 3.08 min Scan# 259

Delta R.T. 0.02 min

Lab File: VF059363.D

Acq: 28 Jun 2018 16:28

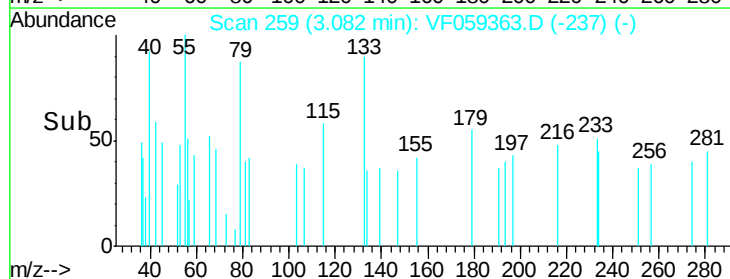
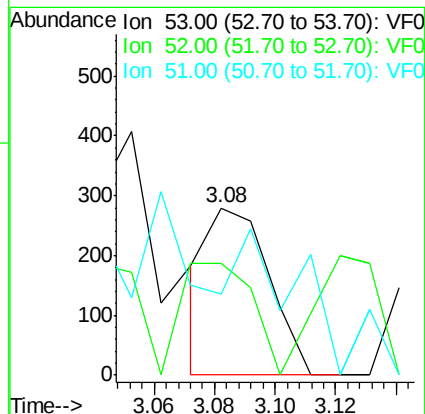
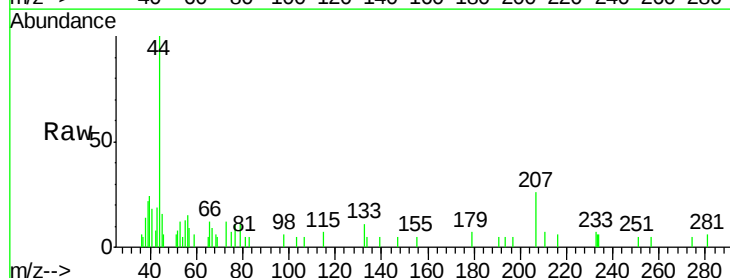
Tgt Ion: 53 Resp: 386

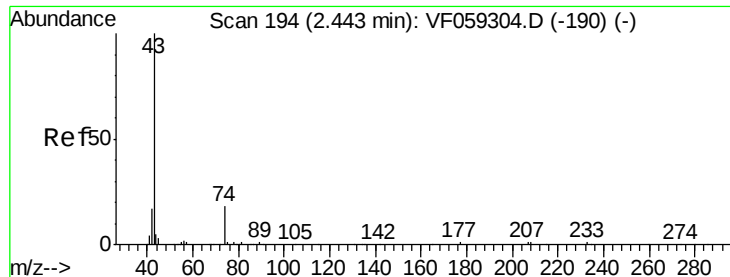
Ion Ratio Lower Upper

53 100

52 66.4 79.2 118.8#

51 48.2 40.9 61.3





#18

Methyl Acetate

Concen: 3.92 ug/l

RT: 2.49 min Scan# 199

Delta R.T. 0.05 min

Lab File: VF059363.D

Acq: 28 Jun 2018 16:28

Instrument :

MSVOA_F

ClientSampleId :

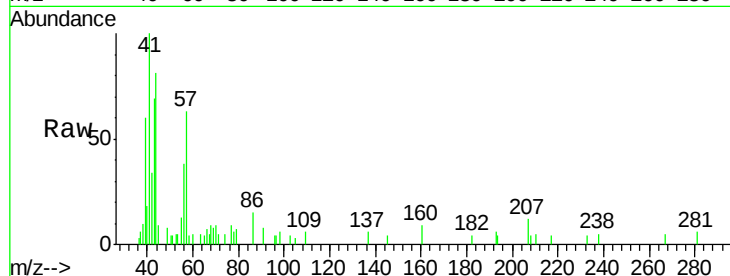
JC-02-062618-ERE

Tot Ion: 43 Resp: 6667

Ion Ratio Lower Upper

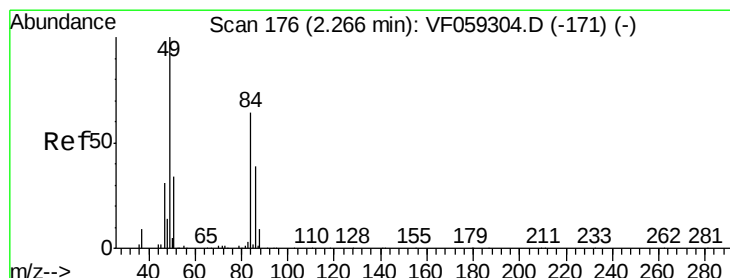
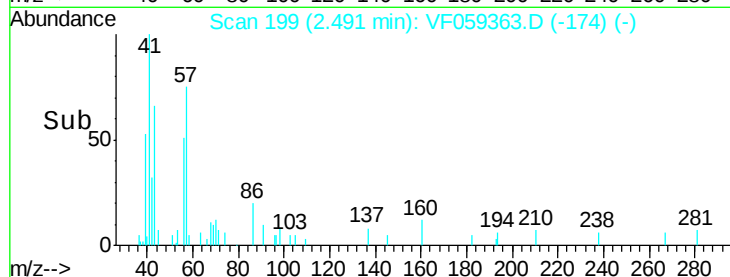
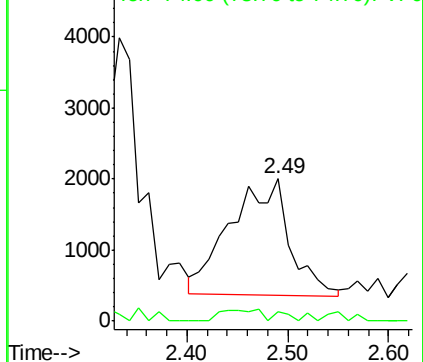
43 100

74 6.6 13.3 19.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.31 min Scan# 181

Delta R.T. 0.05 min

Lab File: VF059363.D

Acq: 28 Jun 2018 16:28

Tgt Ion: 84 Resp: 7658

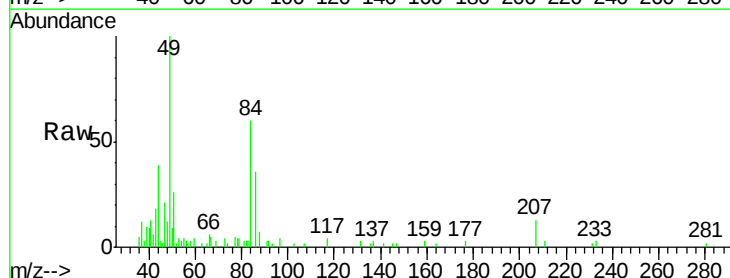
Ion Ratio Lower Upper

84 100

49 166.7 126.5 189.7

51 43.9 42.9 64.3

86 59.5 48.6 73.0

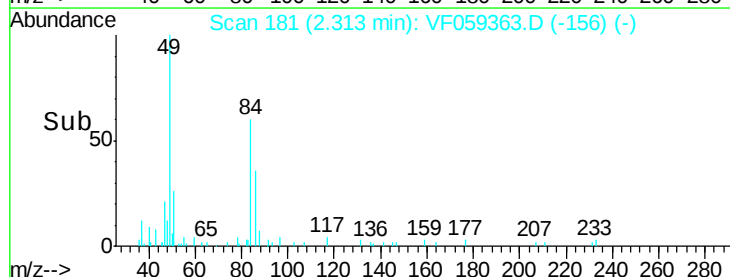
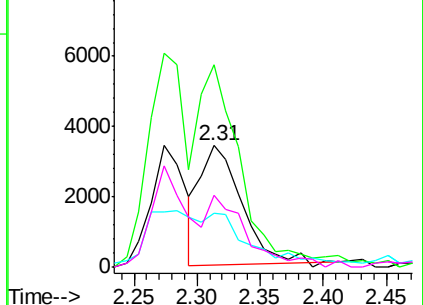


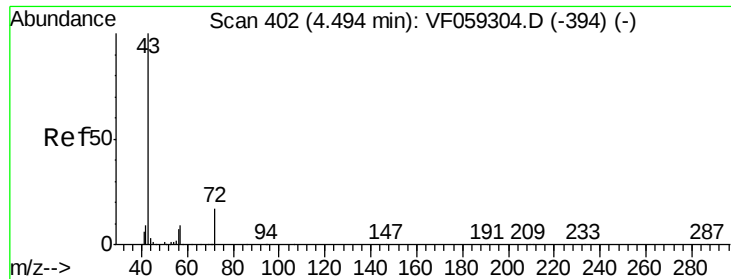
Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0





#25

2-Butanone

Concen: Below Cal

RT: 4.51 min Scan# 404

Delta R.T. 0.02 min

Lab File: VF059363.D

Acq: 28 Jun 2018 16:28

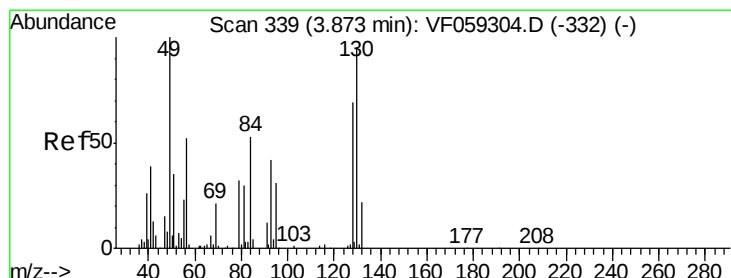
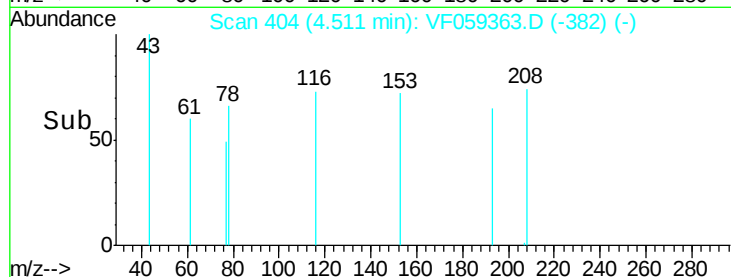
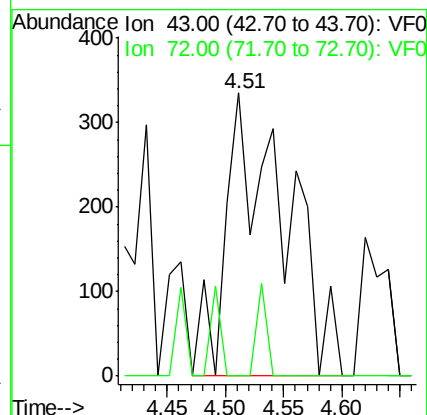
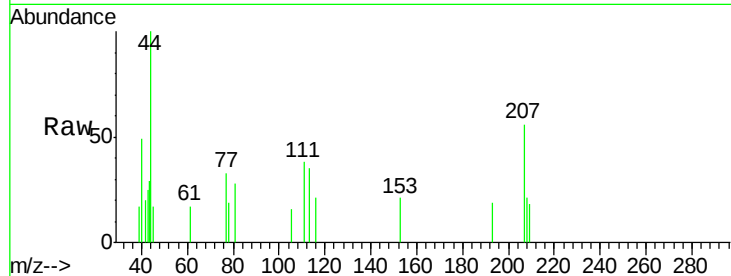
Instrument :
MSVOA_F
ClientSampleId :
JC-02-062618-ERE

Tot Ion: 43 Resp: 1195

Ion Ratio Lower Upper

43 100

72 0.0 14.4 21.6#



#28

Bromochloromethane

Concen: Below Cal

RT: 3.89 min Scan# 341

Delta R.T. 0.02 min

Lab File: VF059363.D

Acq: 28 Jun 2018 16:28

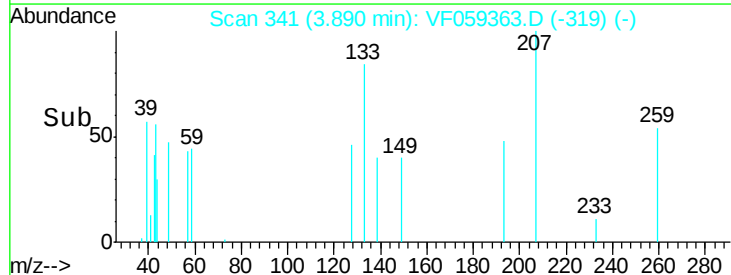
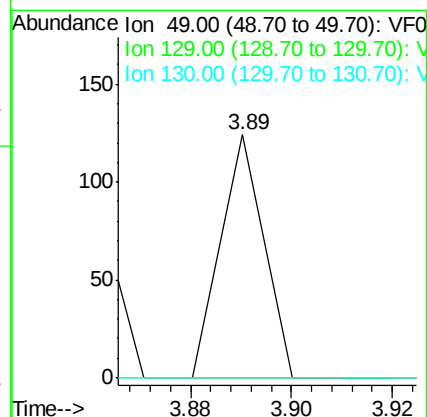
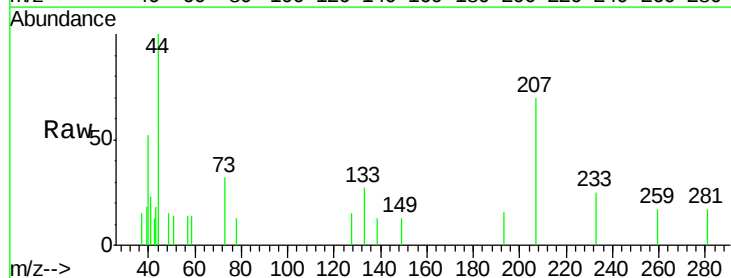
Tgt Ion: 49 Resp: 73

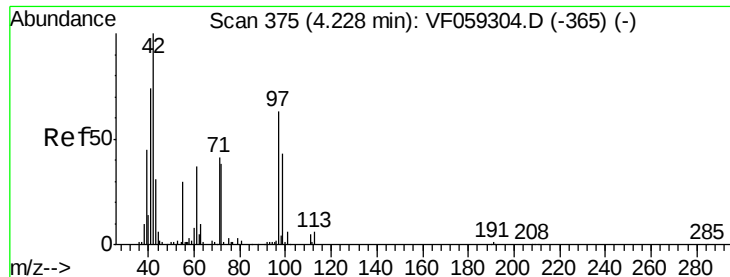
Ion Ratio Lower Upper

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: VF059363.D

Acq: 28 Jun 2018 16:28

Instrument :

MSVOA_F

ClientSampleId :

JC-02-062618-ERE

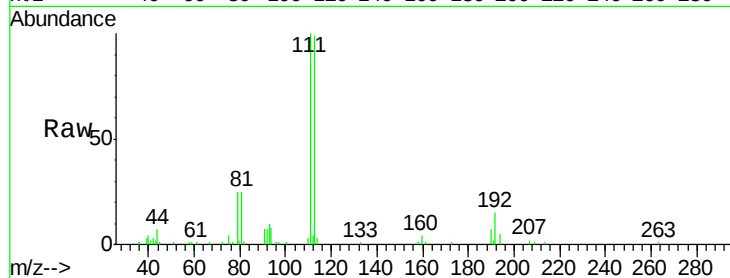
Tot Ion: 42 Resp: 820

Ion Ratio Lower Upper

42 100

72 33.7 30.5 45.7

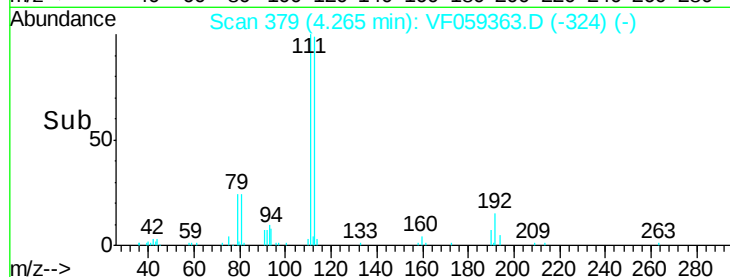
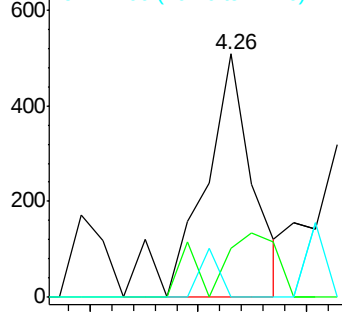
71 7.3 32.5 48.7#



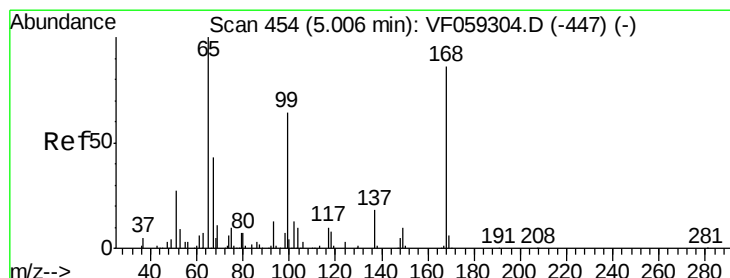
Abundance Ion 42.00 (41.70 to 42.70): VF0

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: 46.07 ug/l

RT: 5.01 min Scan# 455

Delta R.T. 0.01 min

Lab File: VF059363.D

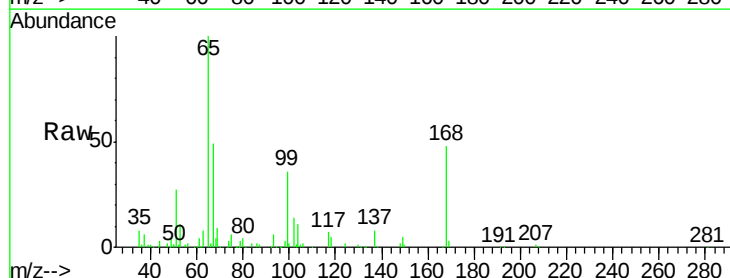
Acq: 28 Jun 2018 16:28

Tgt Ion: 65 Resp: 136199

Ion Ratio Lower Upper

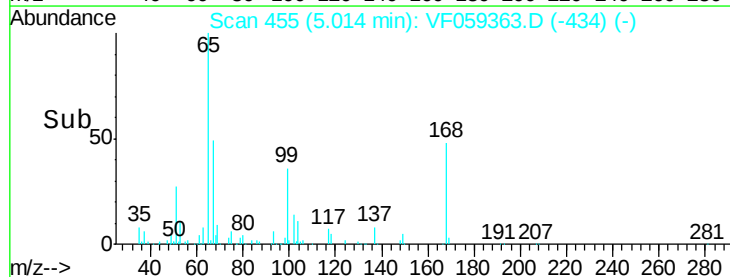
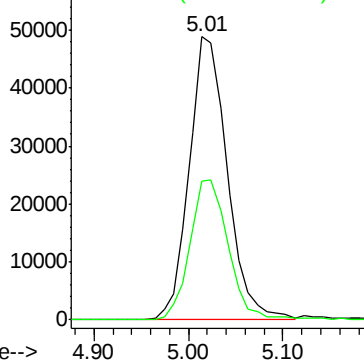
65 100

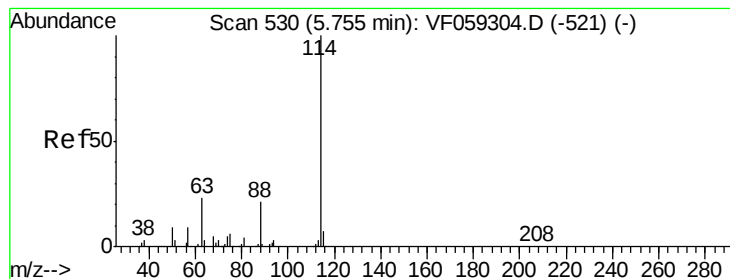
67 48.9 0.0 96.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.76 min Scan# 531

Delta R.T. 0.01 min

Lab File: VF059363.D

Acq: 28 Jun 2018 16:28

Instrument :

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ClientSampleId :

JC-02-062618-ERE

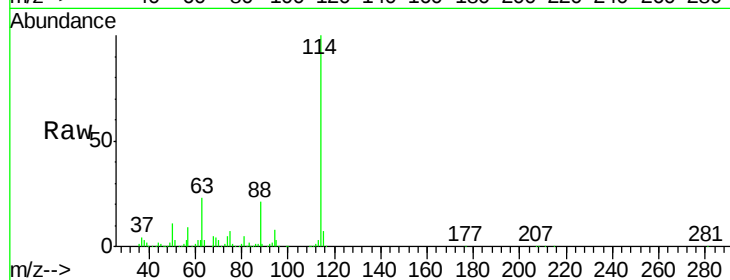
Tot Ion:114 Resp: 362150

Ion Ratio Lower Upper

114 100

63 23.5 0.0 45.8

88 20.9 0.0 41.2

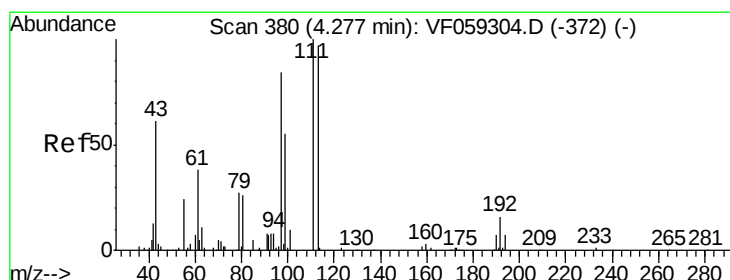
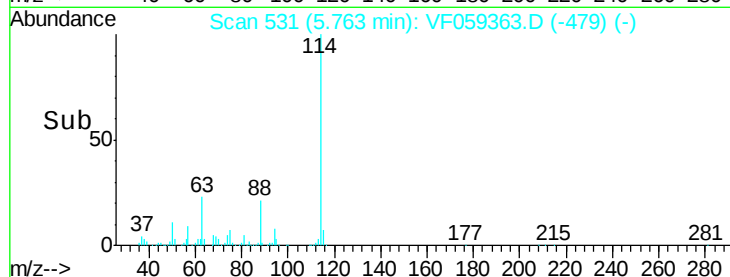
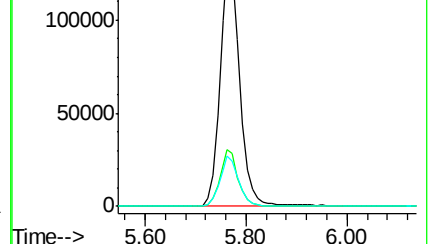


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

5.76



#35

Dibromofluoromethane

Concen: 49.16 ug/l

RT: 4.29 min Scan# 382

Delta R.T. 0.02 min

Lab File: VF059363.D

Acq: 28 Jun 2018 16:28

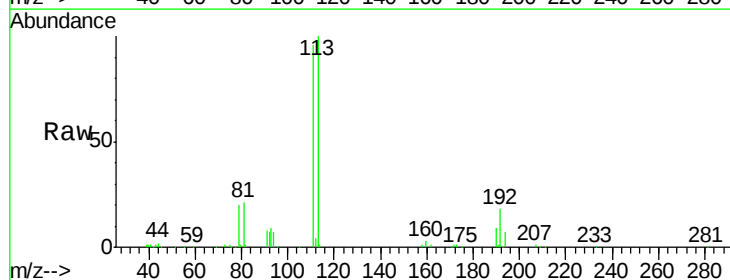
Tgt Ion:113 Resp: 130074

Ion Ratio Lower Upper

113 100

111 95.9 82.1 123.1

192 18.3 13.0 19.6

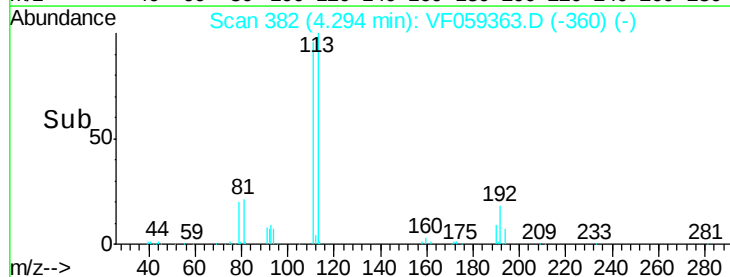
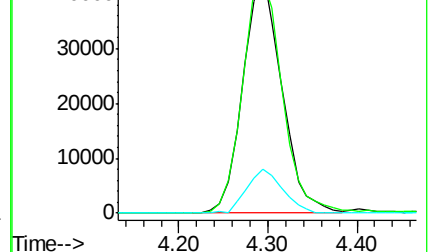


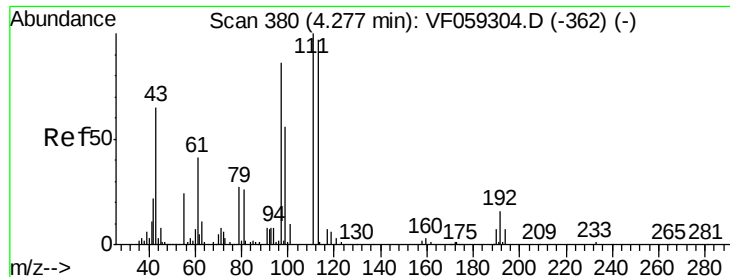
Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

4.29





#37

Ethyl Acetate

Concen: Below Cal

RT: 4.29 min Scan# 382

Delta R.T. 0.02 min

Lab File: VF059363.D

Acq: 28 Jun 2018 16:28

Instrument :

MSVOA_F

ClientSampleId :

JC-02-062618-ERE

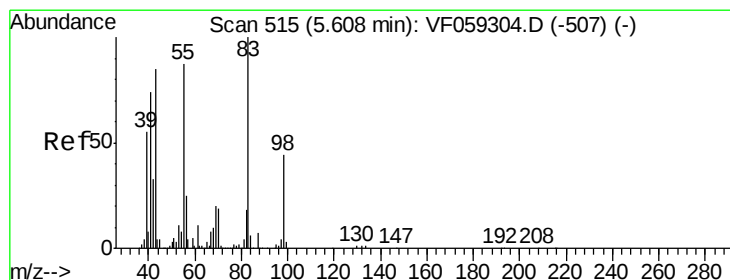
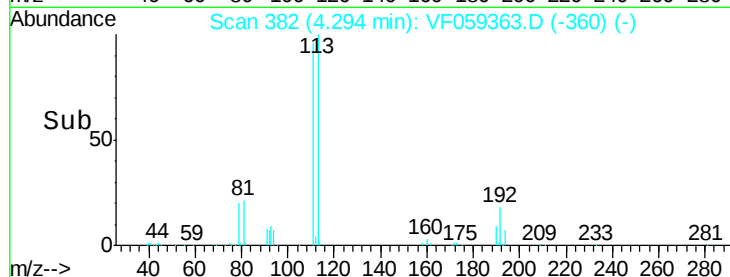
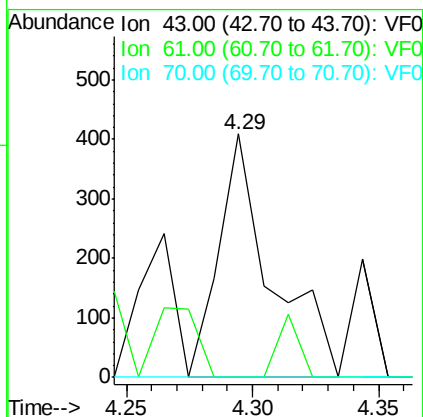
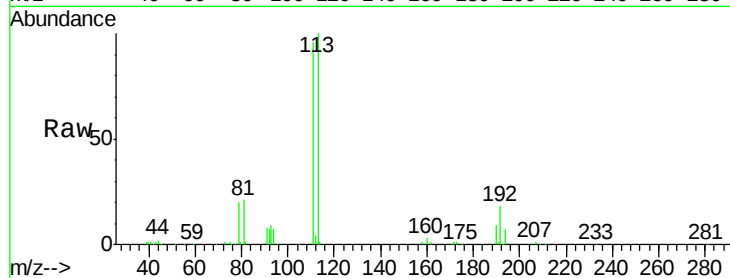
Tot Ion: 43 Resp: 593

Ion Ratio Lower Upper

43 100

61 0.0 50.1 75.1#

70 0.0 6.2 9.4#



#39

Methylcyclohexane

Concen: 1.39 ug/l

RT: 5.76 min Scan# 531

Delta R.T. 0.16 min

Lab File: VF059363.D

Acq: 28 Jun 2018 16:28

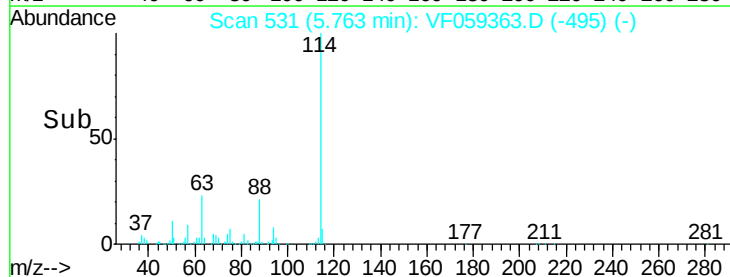
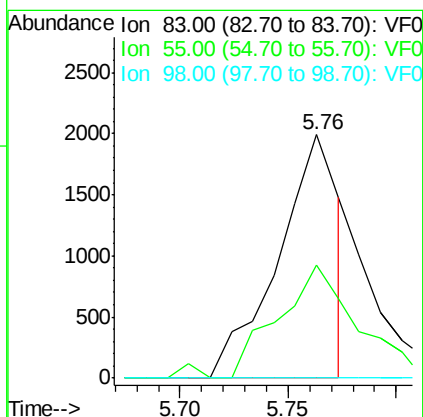
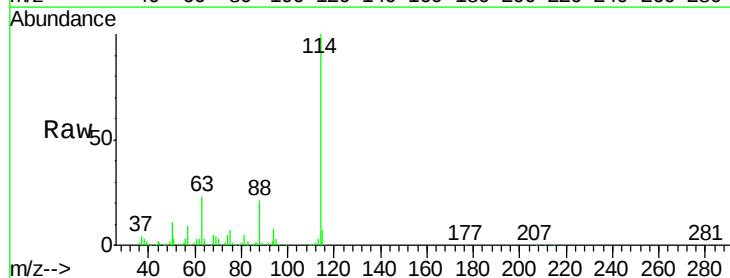
Tgt Ion: 83 Resp: 3897

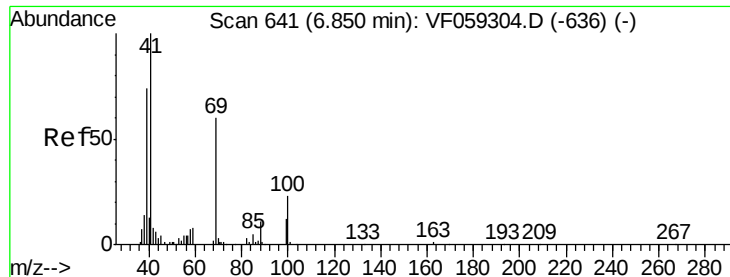
Ion Ratio Lower Upper

83 100

55 46.4 69.2 103.8#

98 0.0 35.0 52.6#

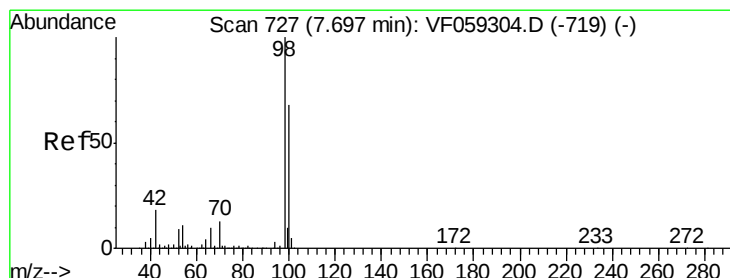
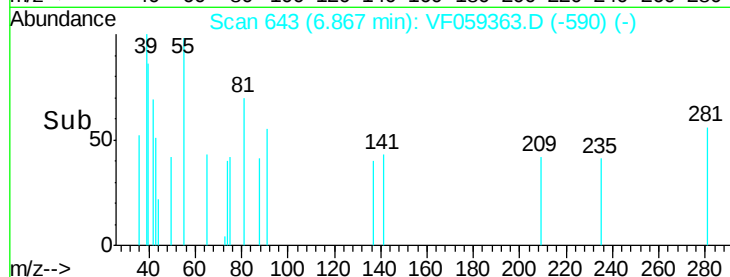
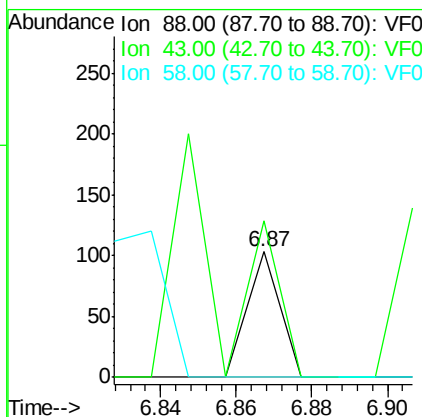
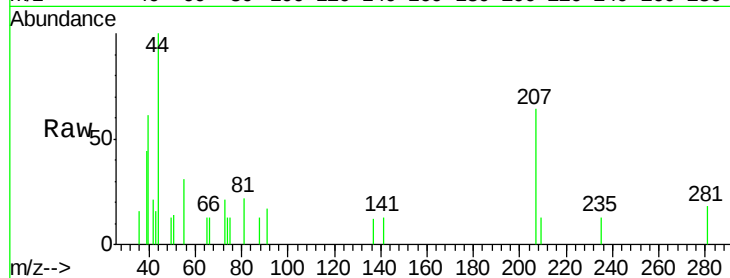




#49
1,4-Dioxane
Concen: Below Cal
RT: 6.87 min Scan# 643
Delta R.T. 0.02 min
Lab File: VF059363.D
Acq: 28 Jun 2018 16:28

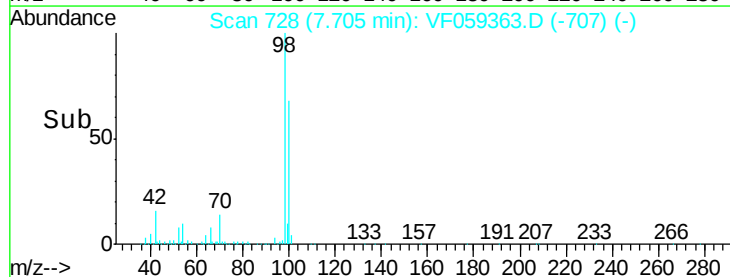
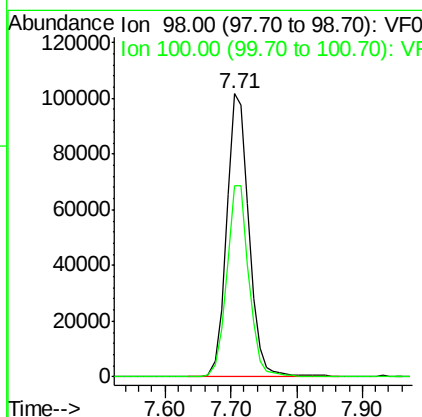
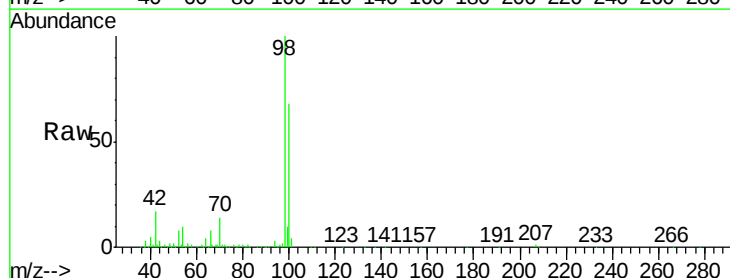
Instrument :
MSVOA_F
ClientSampleId :
JC-02-062618-ERE

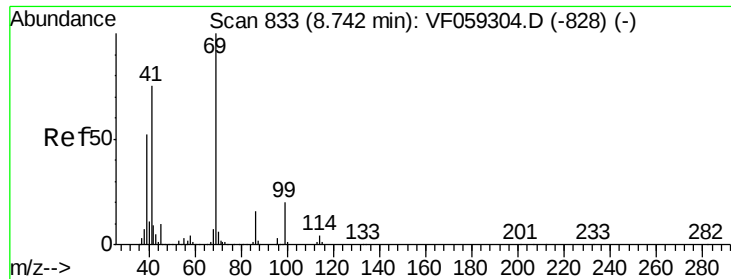
Tot Ion: 88 Resp: 61
Ion Ratio Lower Upper
88 100
43 125.2 50.6 75.8#
58 0.0 46.6 69.8#



#50
Toluene-d8
Concen: 36.83 ug/l
RT: 7.71 min Scan# 728
Delta R.T. 0.01 min
Lab File: VF059363.D
Acq: 28 Jun 2018 16:28

Tgt Ion: 98 Resp: 241278
Ion Ratio Lower Upper
98 100
100 67.7 54.6 82.0





#56

Ethyl methacrylate

Concen: 1.42 ug/l

RT: 8.76 min Scan# 835

Delta R.T. 0.02 min

Lab File: VF059363.D

Acq: 28 Jun 2018 16:28

Instrument :

MSVOA_F

ClientSampleId :

JC-02-062618-ERE

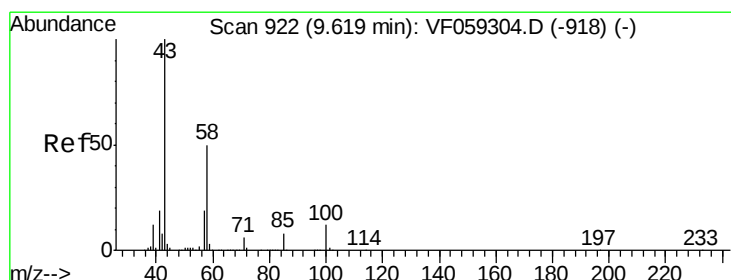
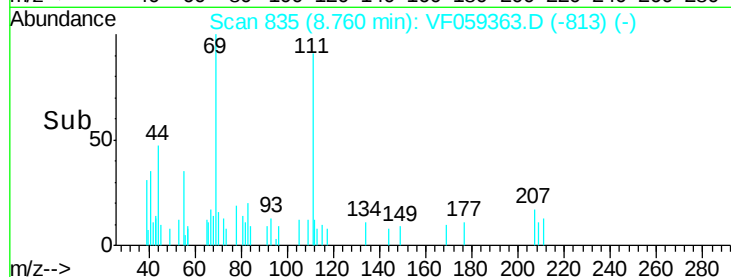
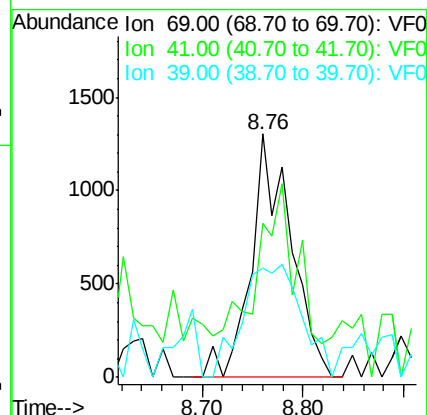
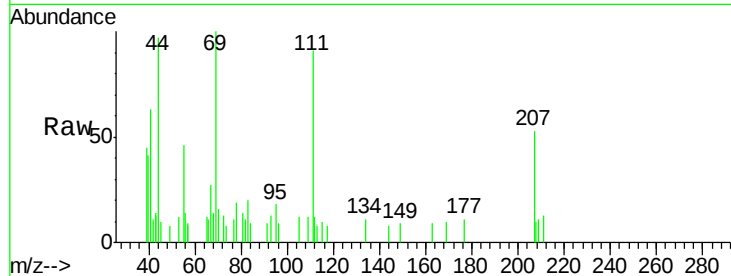
Tot Ion: 69 Resp: 3574

Ion Ratio Lower Upper

69 100

41 63.0 60.3 90.5

39 44.6 42.2 63.4



#59

2-Hexanone

Concen: Below Cal

RT: 9.66 min Scan# 926

Delta R.T. 0.04 min

Lab File: VF059363.D

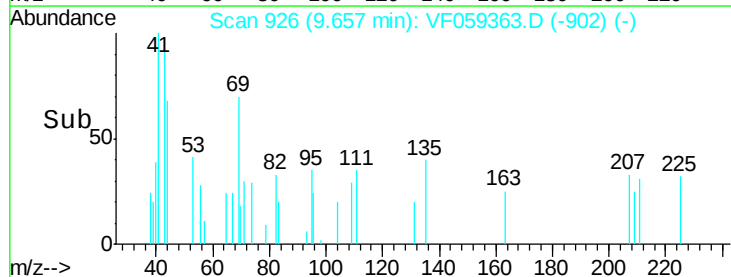
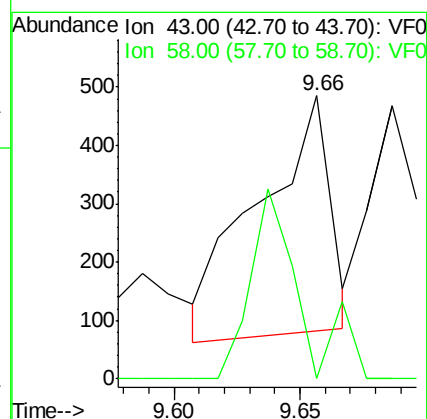
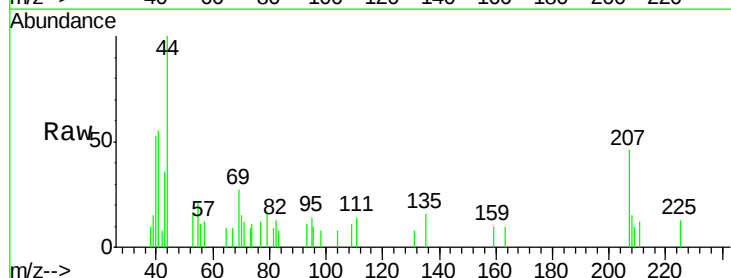
Acq: 28 Jun 2018 16:28

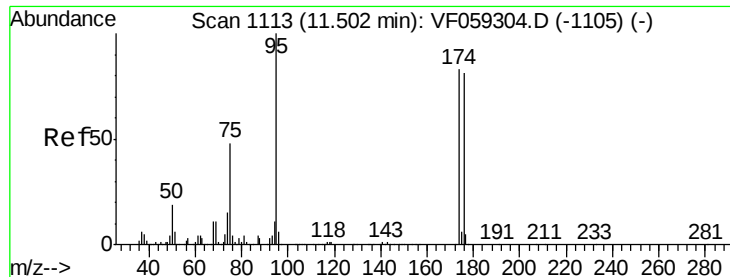
Tgt Ion: 43 Resp: 806

Ion Ratio Lower Upper

43 100

58 0.0 23.3 69.9#





#62

4-Bromofluorobenzene

Concen: 36.52 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. 0.01 min

Lab File: VF059363.D

Acq: 28 Jun 2018 16:28

Instrument :

MSVOA_F

ClientSampleId :

JC-02-062618-ERE

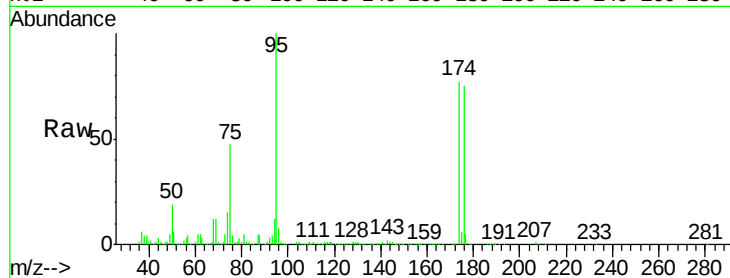
Tot Ion: 95 Resp: 134975

Ion Ratio Lower Upper

95 100

174 76.9 0.0 165.2

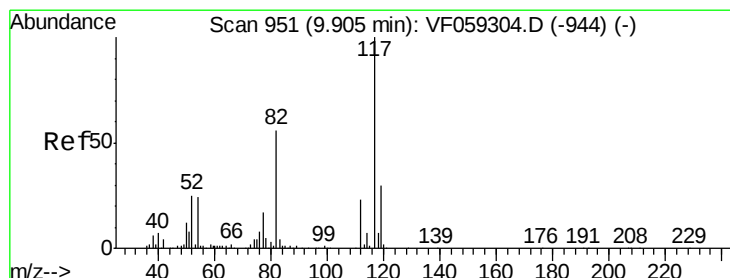
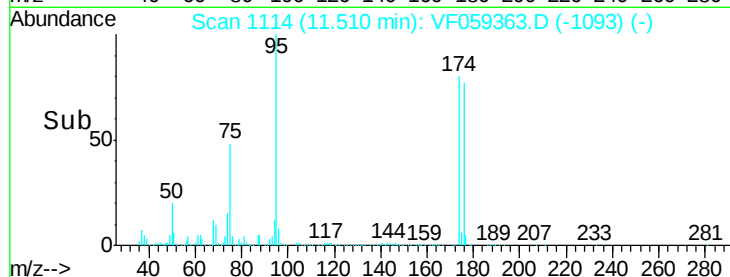
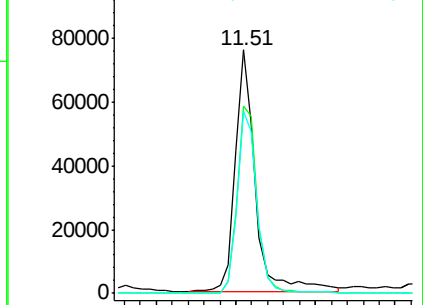
176 74.7 0.0 161.0



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: 9.92 min Scan# 953

Delta R.T. 0.02 min

Lab File: VF059363.D

Acq: 28 Jun 2018 16:28

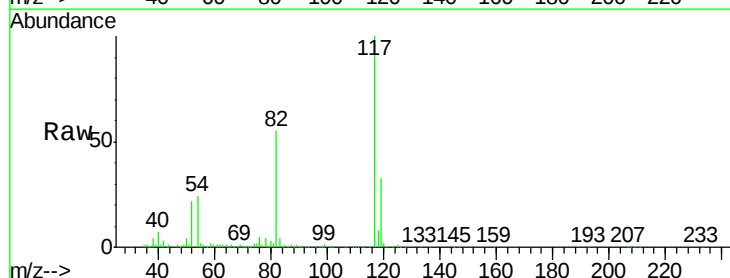
Tgt Ion: 117 Resp: 308191

Ion Ratio Lower Upper

117 100

82 54.7 44.6 66.8

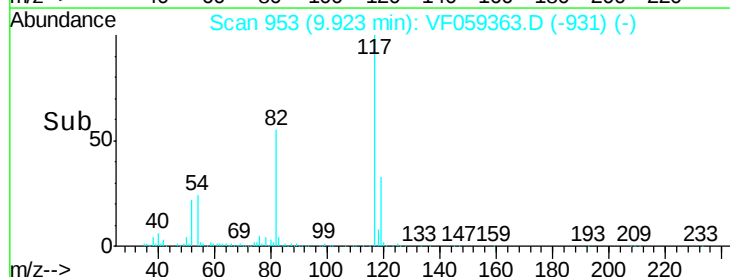
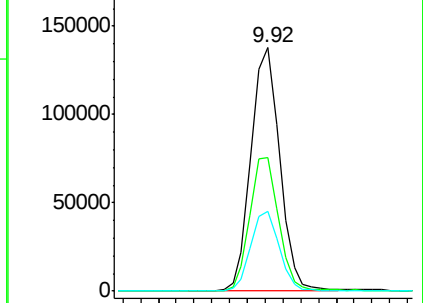
119 32.7 24.1 36.1

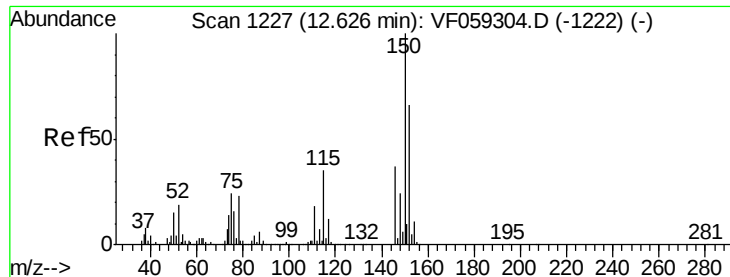


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.63 min Scan# 1228

Delta R.T. 0.01 min

Lab File: VF059363.D

Acq: 28 Jun 2018 16:28

Instrument :

MSVOA_F

ClientSampleId :

JC-02-062618-ERE

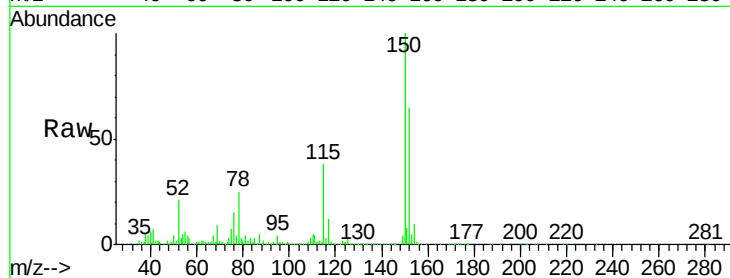
Tot Ion:152 Resp: 129135

Ion Ratio Lower Upper

152 100

115 58.4 27.1 81.3

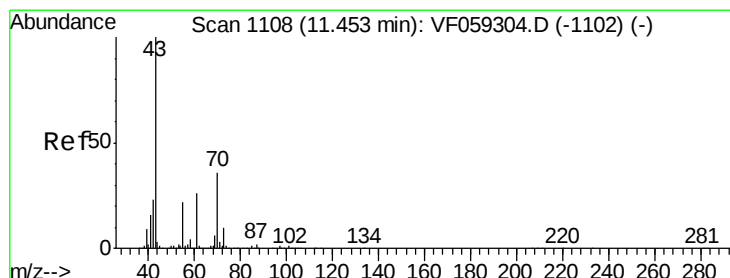
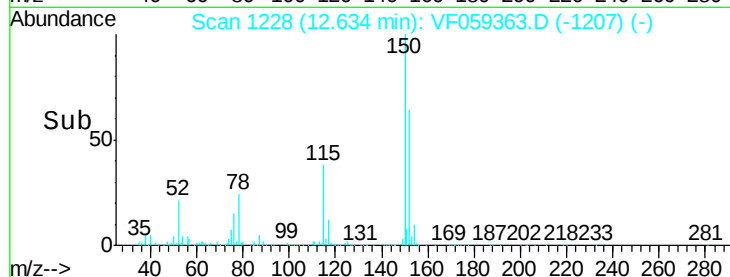
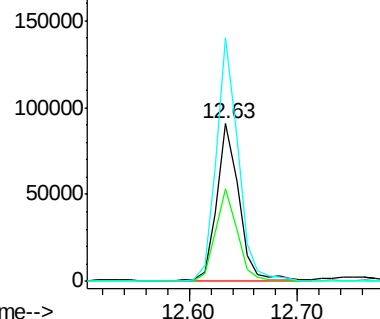
150 154.4 0.0 305.2



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: 1.04 ug/l

RT: 11.47 min Scan# 1110

Delta R.T. 0.02 min

Lab File: VF059363.D

Acq: 28 Jun 2018 16:28

Tgt Ion: 43 Resp: 2838

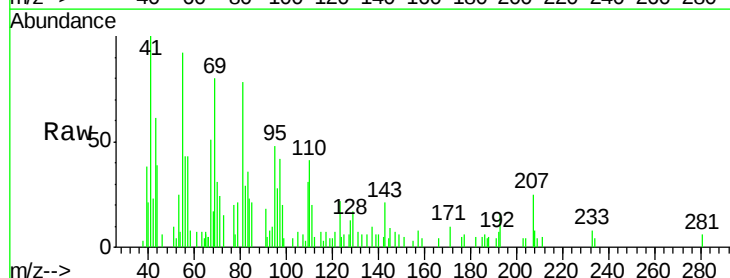
Ion Ratio Lower Upper

43 100

70 50.6 28.8 43.2#

55 149.7 17.4 26.0#

61 12.0 21.1 31.7#

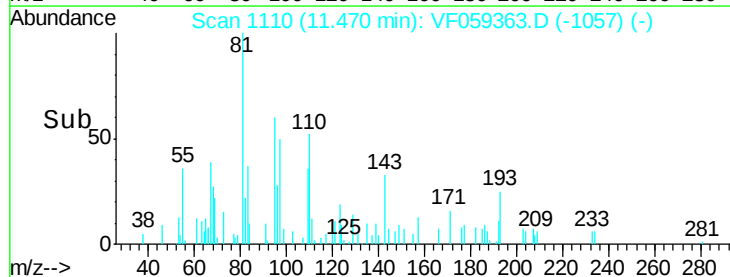
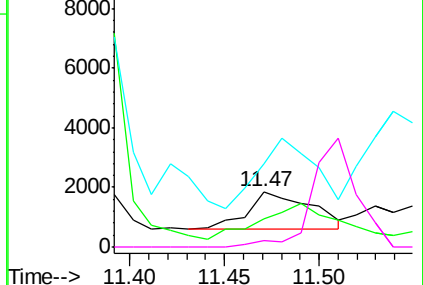


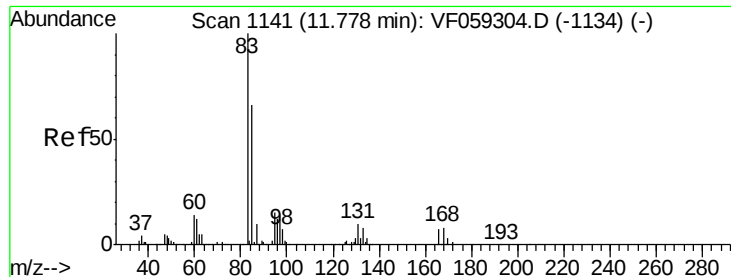
Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 13.05 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. -0.01 min

Lab File: VF059363.D

Acq: 28 Jun 2018 16:28

Instrument :

MSVOA_F

ClientSampleId :

JC-02-062618-ERE

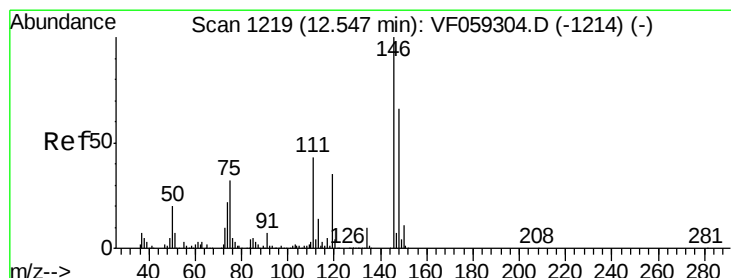
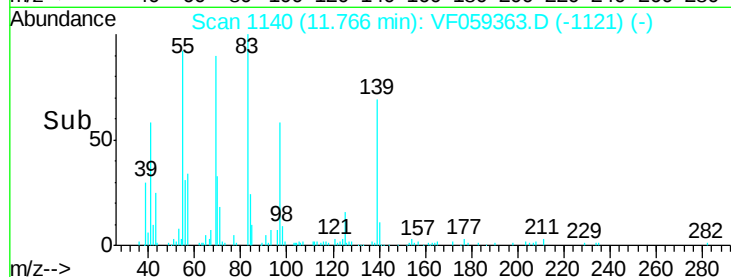
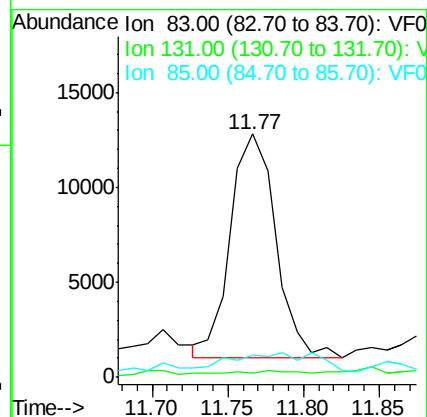
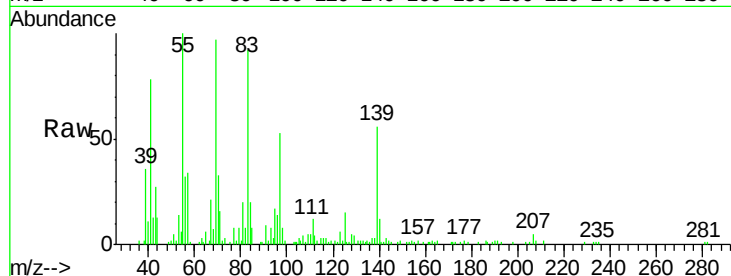
Tot Ion: 83 Resp: 24796

Ion Ratio Lower Upper

83 100

131 1.9 4.9 14.6#

85 8.9 32.8 98.4#



#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.57 min Scan# 1222

Delta R.T. 0.03 min

Lab File: VF059363.D

Acq: 28 Jun 2018 16:28

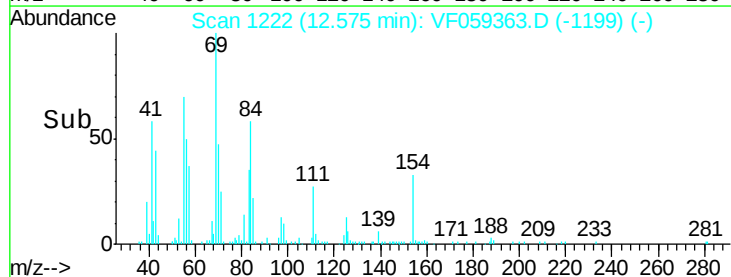
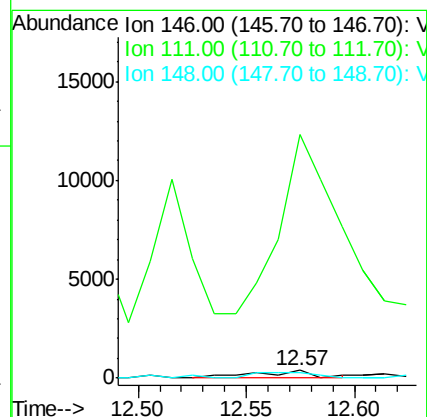
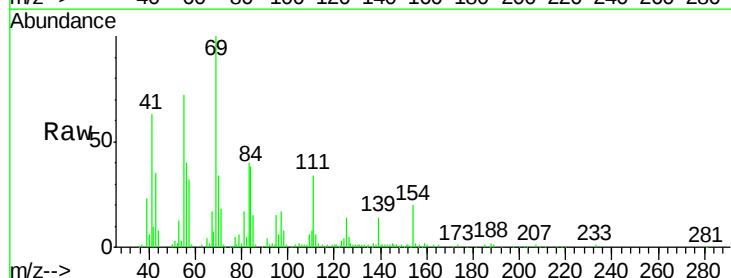
Tgt Ion: 146 Resp: 752

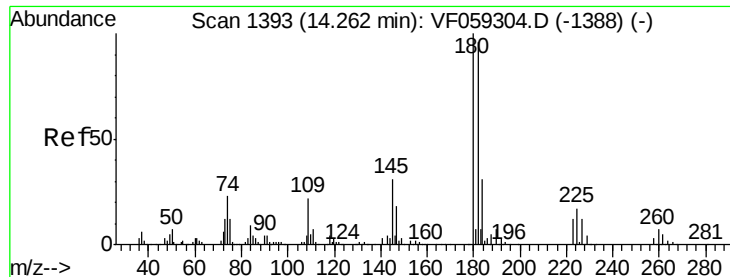
Ion Ratio Lower Upper

146 100

111 3223.6 21.4 64.2#

148 74.6 32.8 98.4

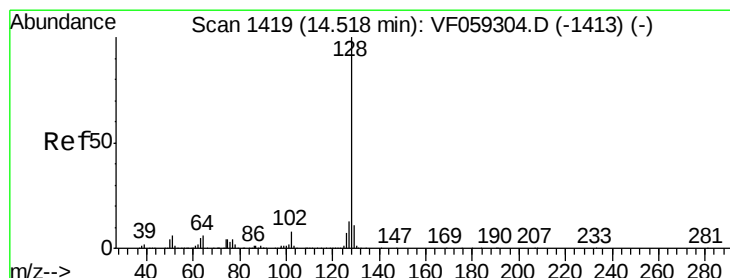
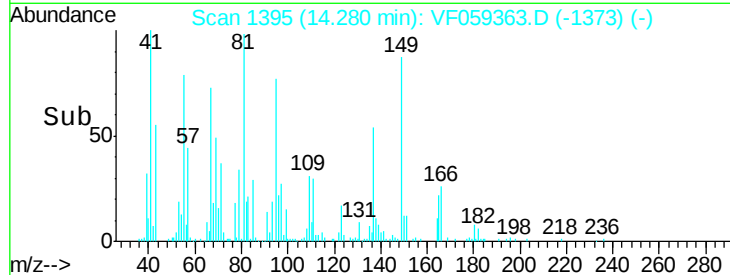
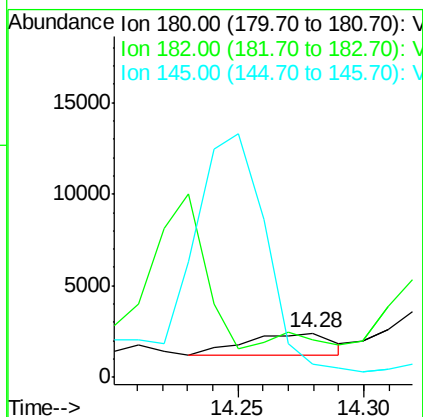
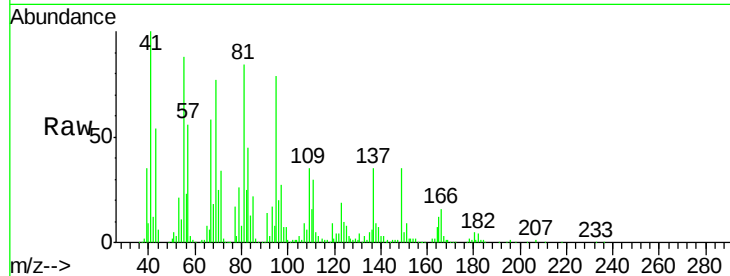




#93
 1,2,4-Trichlorobenzene
 Concen: 1.05 ug/l
 RT: 14.28 min Scan# 1395
 Delta R.T. 0.02 min
 Lab File: VF059363.D
 Acq: 28 Jun 2018 16:28

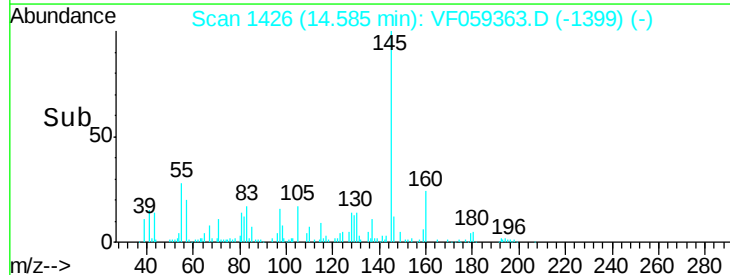
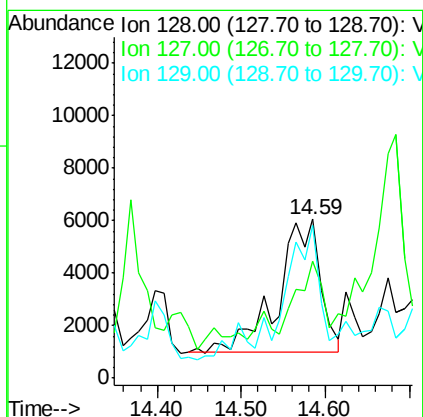
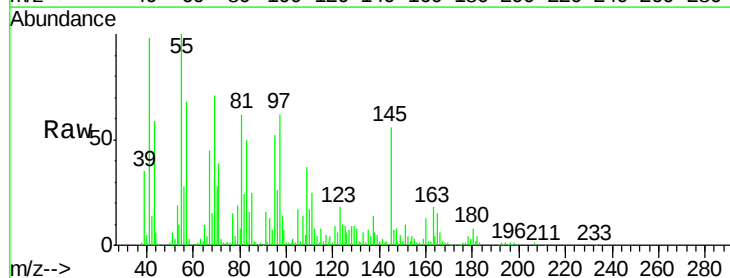
Instrument :
 MSVOA_F
 ClientSampleId :
 JC-02-062618-ERE

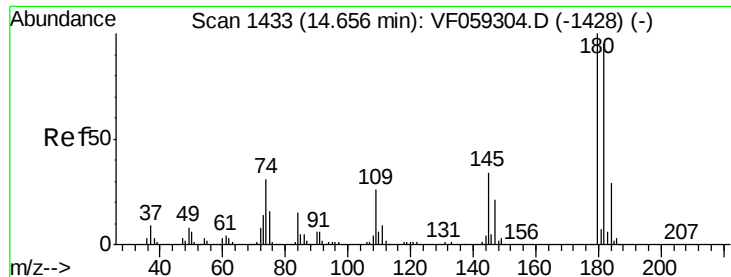
Tot Ion:180 Resp: 2937
 Ion Ratio Lower Upper
 180 100
 182 84.7 48.1 144.3
 145 29.4 15.3 45.8



#95
 Naphthalene
 Concen: 3.00 ug/l
 RT: 14.59 min Scan# 1426
 Delta R.T. 0.07 min
 Lab File: VF059363.D
 Acq: 28 Jun 2018 16:28

Tgt Ion:128 Resp: 17580
 Ion Ratio Lower Upper
 128 100
 127 73.8 10.1 15.1#
 129 96.0 8.8 13.2#

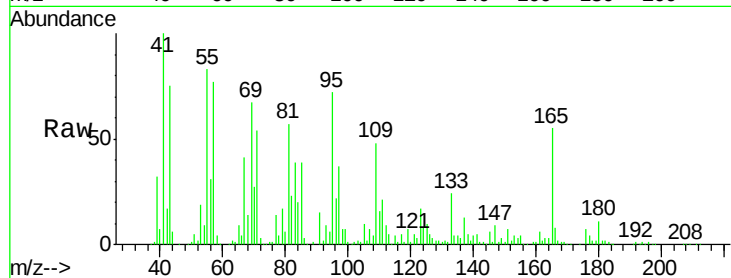




#96
 1,2,3-Trichlorobenzene
 Concen: 5.62 ug/l
 RT: 14.61 min Scan# 1429
 Delta R.T. -0.04 min
 Lab File: VF059363.D
 Acq: 28 Jun 2018 16:28

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

Tot Ion:180 Resp: 14911
 Ion Ratio Lower Upper
 180 100
 182 19.6 47.5 142.5#
 145 56.4 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

