

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062818\
 Data File : VF059360.D
 Acq On : 28 Jun 2018 15:05
 Operator : VA/AP
 Sample : J3242-01
 Misc : 6.08g/5mL/MSVOA-F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

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

Quant Time: Jun 29 03:10:20 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	213286	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.77	114	339281	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.92	117	314391	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.64	152	174510	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	140135	50.85	ug/l	0.01
Spiked Amount			Recovery	=	101.70%	
35) Dibromofluoromethane	4.29	113	135341	54.59	ug/l	0.01
Spiked Amount			Recovery	=	109.18%	
50) Toluene-d8	7.71	98	273285	44.52	ug/l	0.01
Spiked Amount			Recovery	=	89.04%	
62) 4-Bromofluorobenzene	11.51	95	178582	51.58	ug/l	0.00
Spiked Amount			Recovery	=	103.16%	

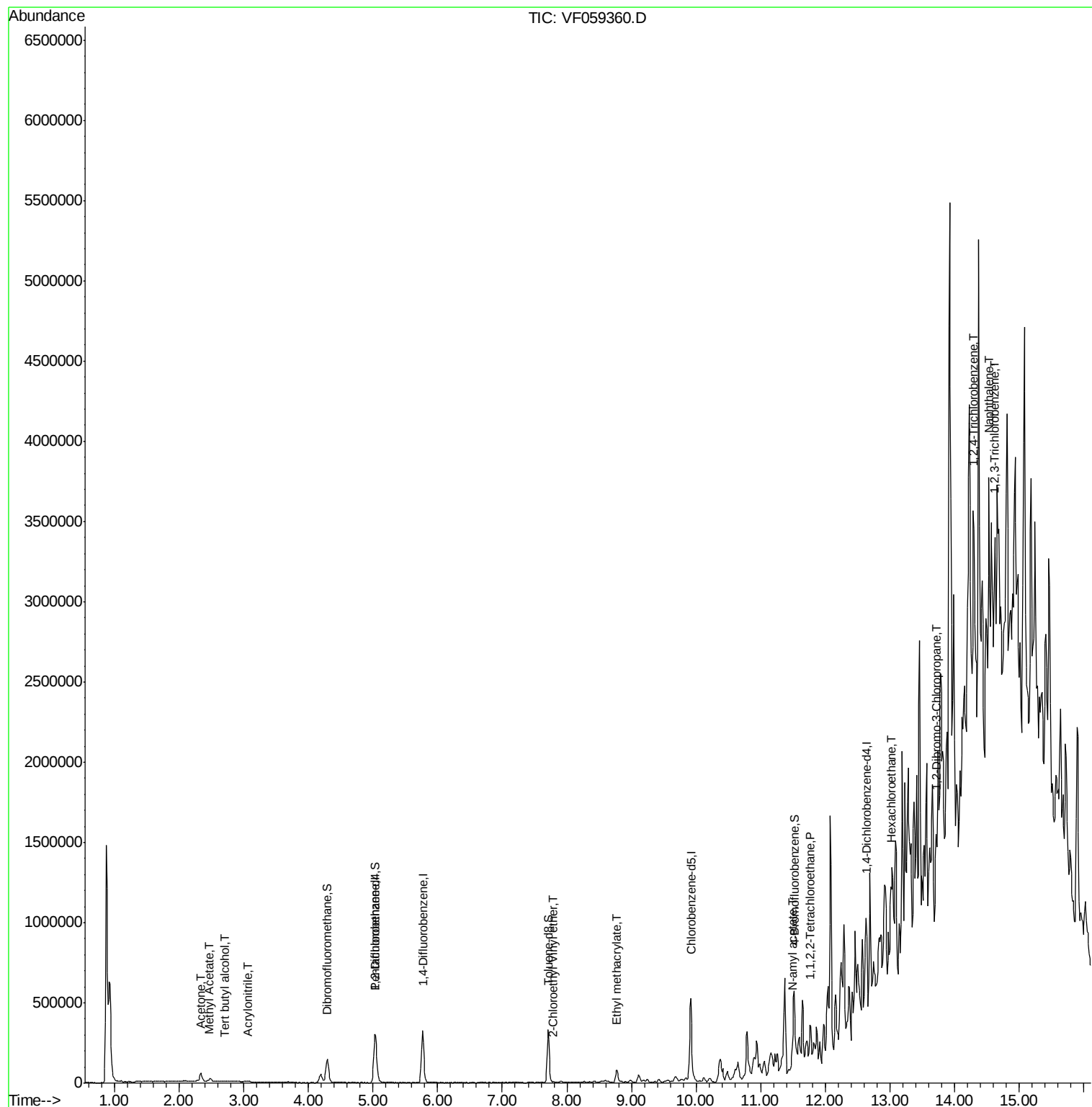
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.33	94	285	Below Cal	#	4
11) Tert butyl alcohol	2.69	59	1547	8.433	ug/l #	58
13) Acrolein	2.20	56	319	Below Cal		99
15) Acrylonitrile	3.06	53	949	2.938	ug/l #	31
16) Acetone	2.34	43	85587	119.018	ug/l	100
18) Methyl Acetate	2.46	43	16982	12.788	ug/l #	80
20) Methylene Chloride	2.27	84	4458	Below Cal	#	89
25) 2-Butanone	4.51	43	1661	Below Cal	#	65
29) Tetrahydrofuran	4.26	42	461	Below Cal	#	56
37) Ethyl Acetate	4.31	43	742	Below Cal	#	97
49) 1,4-Dioxane	6.79	88	82	Below Cal	#	20
56) Ethyl methacrylate	8.77	69	39558	16.726	ug/l #	71
58) 2-Chloroethyl Vinyl ether	7.79	63	187	1.054	ug/l	100
59) 2-Hexanone	9.64	43	1768	Below Cal		86
74) N-amyl acetate	11.49	43	18237	4.943	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	11.76	83	50841	19.801	ug/l #	32
87) 1,3-Dichlorobenzene	12.56	146	658	Below Cal	#	1
90) Hexachloroethane	13.01	117	13629	5.519	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	13.71	75	1834	3.222	ug/l #	10
93) 1,2,4-Trichlorobenzene	14.28	180	6620	1.748	ug/l #	1
95) Naphthalene	14.53	128	50171	6.333	ug/l #	1
96) 1,2,3-Trichlorobenzene	14.61	180	27532	7.676	ug/l #	28

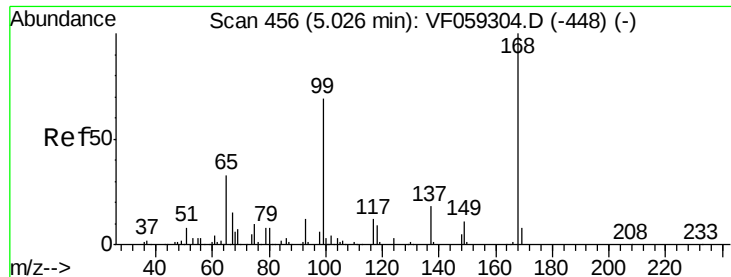
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VF059360.D

Acq: 28 Jun 2018 15:05

Instrument :

MSVOA_F

ClientSampleId :

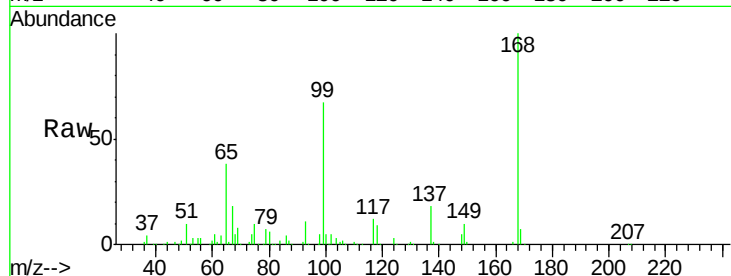
JC-02-062618-A

Tot Ion:168 Resp: 213286

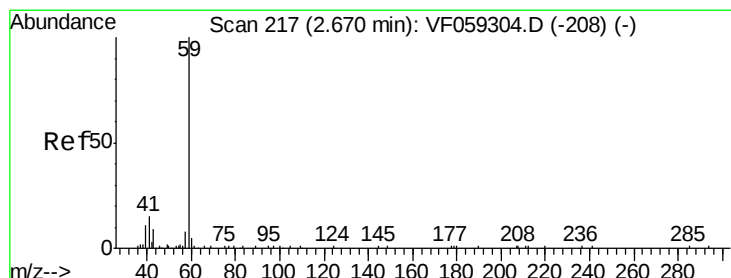
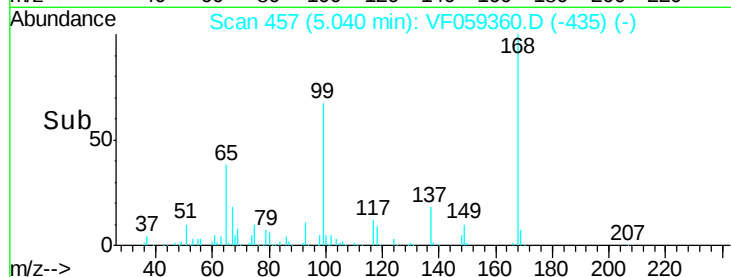
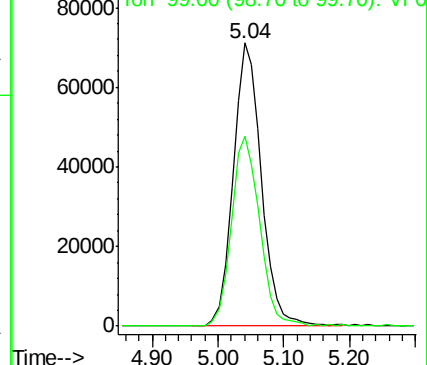
Ion Ratio Lower Upper

168 100

99 67.3 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0



#11

Tert butyl alcohol

Concen: 8.433 ug/l

RT: 2.69 min Scan# 219

Delta R.T. 0.02 min

Lab File: VF059360.D

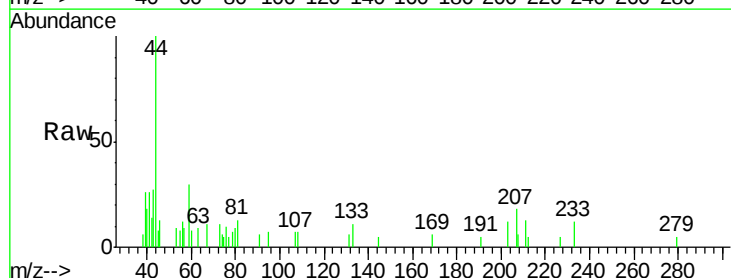
Acq: 28 Jun 2018 15:05

Tgt Ion: 59 Resp: 1547

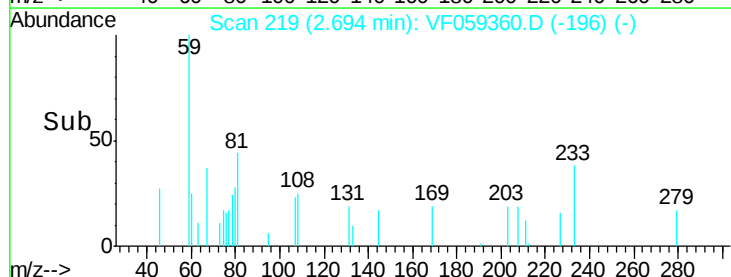
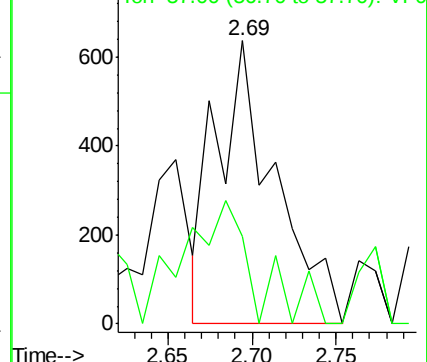
Ion Ratio Lower Upper

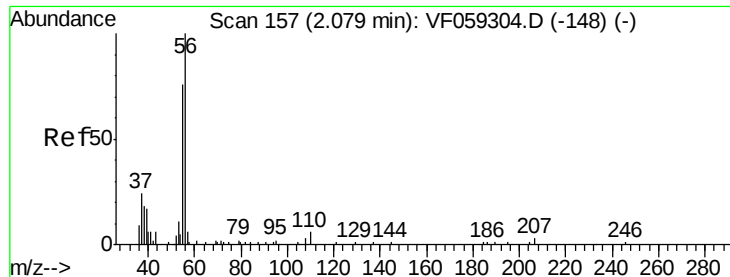
59 100

57 30.8 11.0 16.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0





#13

Acrolein

Concen: Below Cal

RT: 2.20 min Scan# 169

Delta R.T. 0.12 min

Lab File: VF059360.D

Acq: 28 Jun 2018 15:05

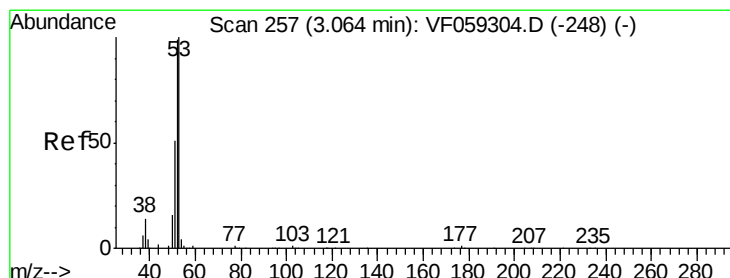
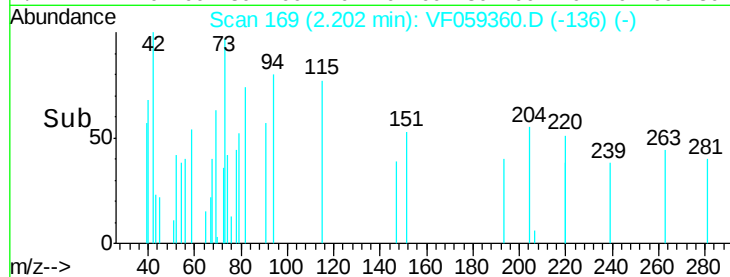
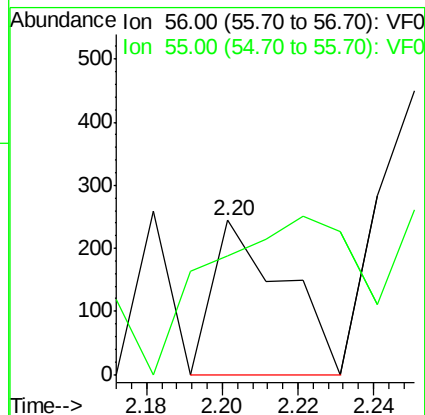
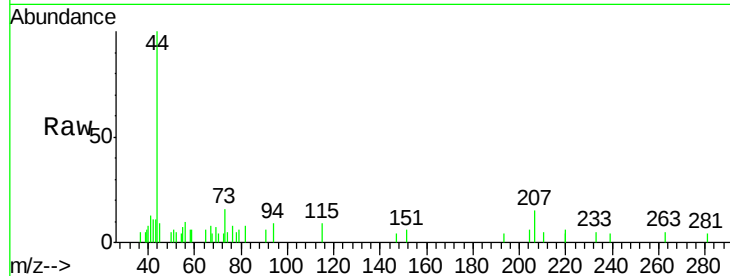
Instrument :
MSVOA_F
ClientSampleId :
JC-02-062618-A

Tot Ion: 56 Resp: 319

Ion Ratio Lower Upper

56 100

55 77.0 62.4 93.6



#15

Acrylonitrile

Concen: 2.938 ug/l

RT: 3.06 min Scan# 256

Delta R.T. -0.01 min

Lab File: VF059360.D

Acq: 28 Jun 2018 15:05

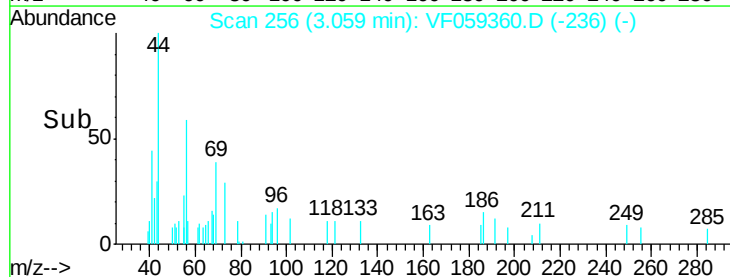
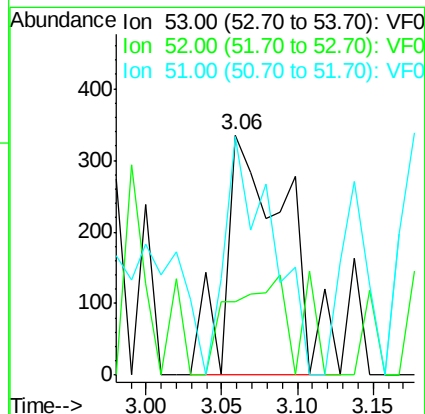
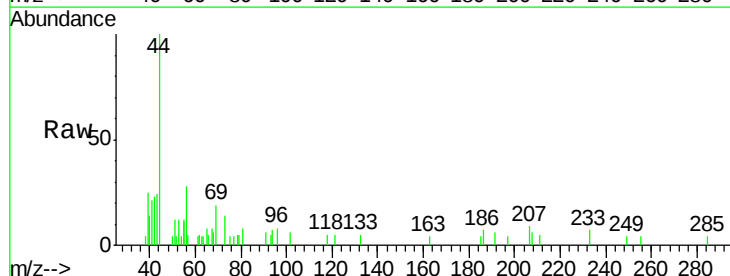
Tgt Ion: 53 Resp: 949

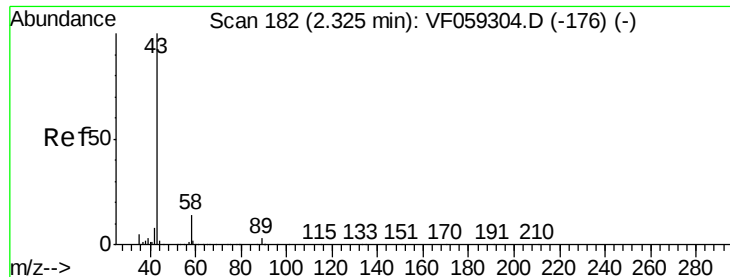
Ion Ratio Lower Upper

53 100

52 30.4 79.2 118.8#

51 99.7 40.9 61.3#

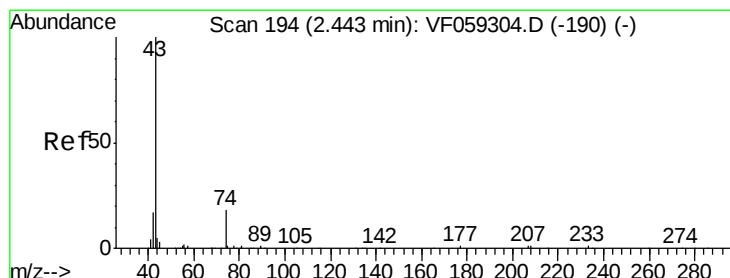
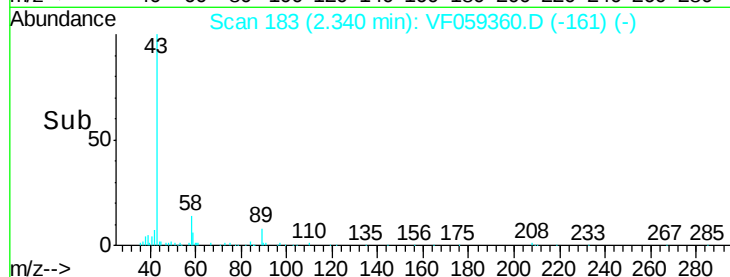
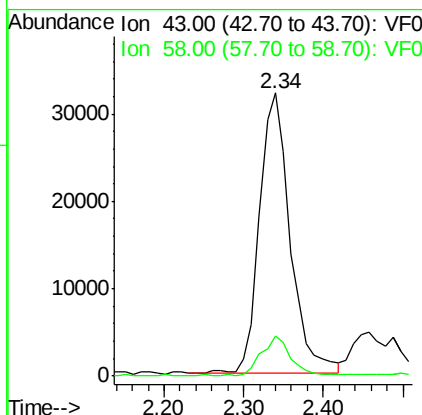
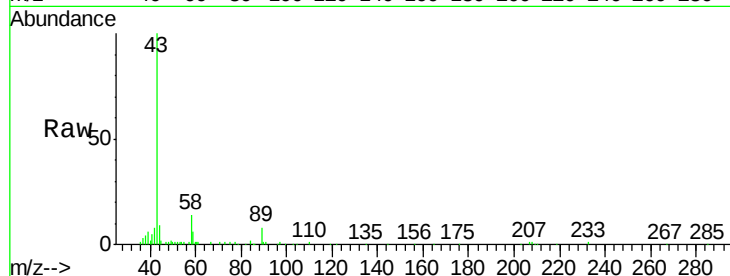




#16
Acetone
Concen: 119.018 ug/l
RT: 2.34 min Scan# 183
Delta R.T. 0.01 min
Lab File: VF059360.D
Acq: 28 Jun 2018 15:05

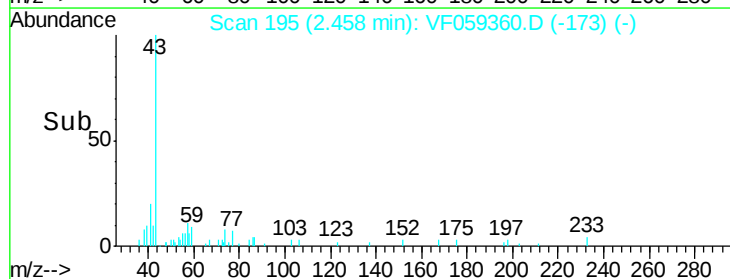
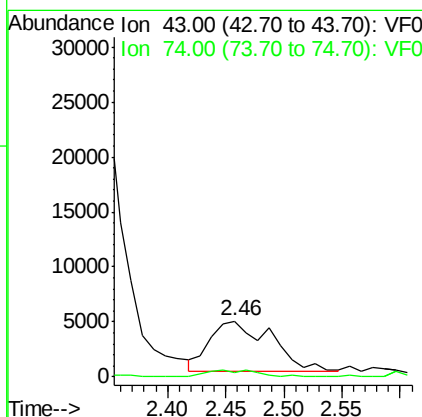
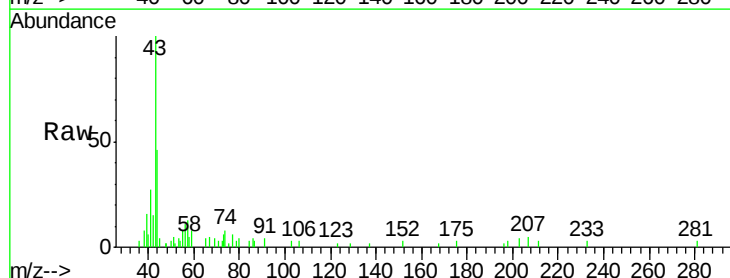
Instrument :
MSVOA_F
ClientSampleId :
JC-02-062618-A

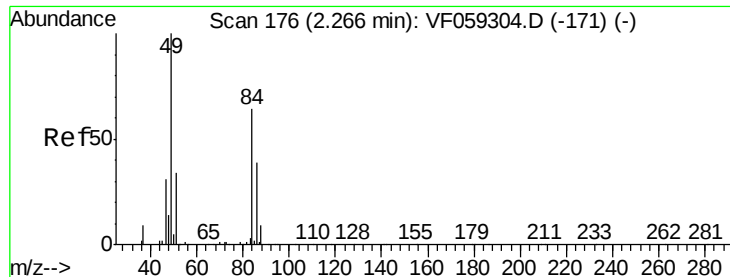
Tot Ion: 43 Resp: 85587
Ion Ratio Lower Upper
43 100
58 14.2 11.4 17.0



#18
Methyl Acetate
Concen: 12.788 ug/l
RT: 2.46 min Scan# 195
Delta R.T. 0.01 min
Lab File: VF059360.D
Acq: 28 Jun 2018 15:05

Tgt Ion: 43 Resp: 16982
Ion Ratio Lower Upper
43 100
74 7.9 13.3 19.9#

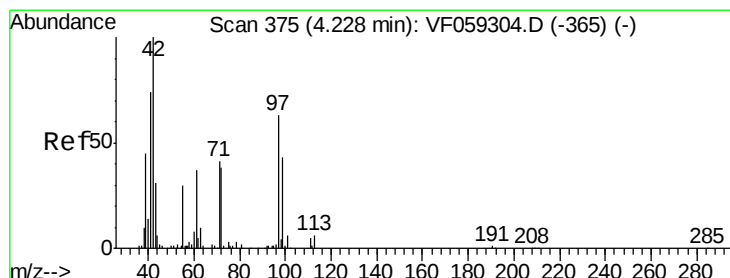
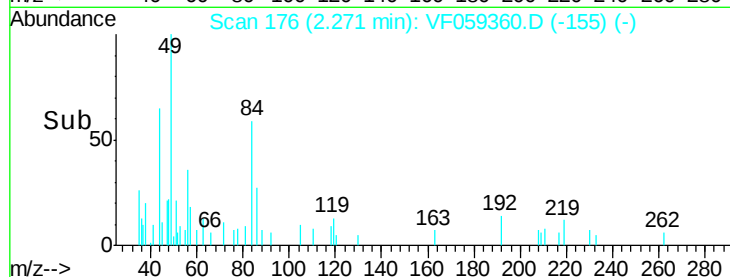
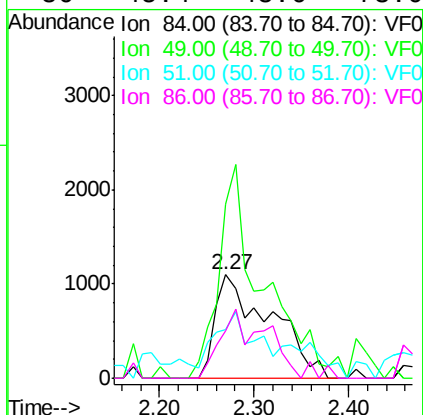
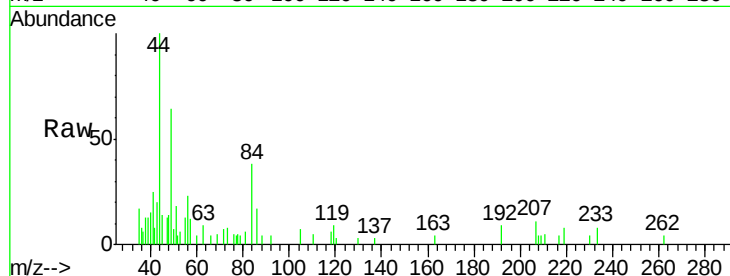




#20
Methylene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 176
Delta R.T. 0.01 min
Lab File: VF059360.D
Acq: 28 Jun 2018 15:05

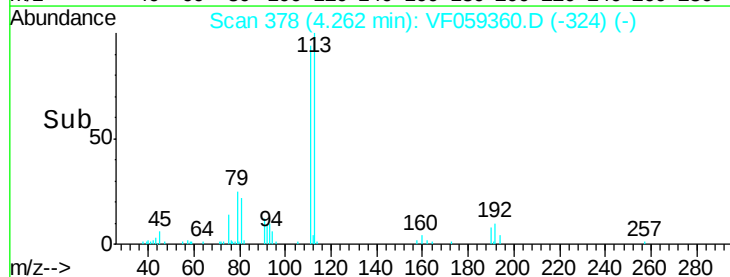
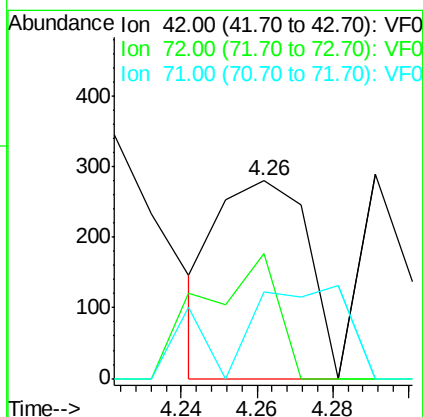
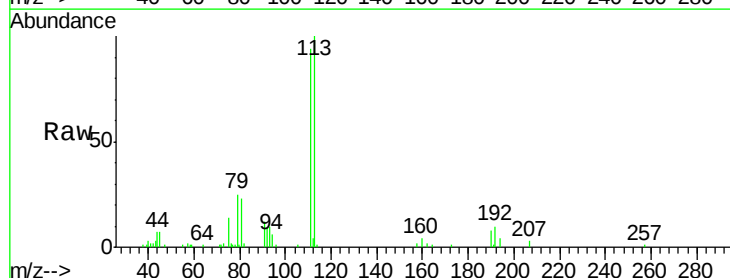
Instrument :
MSVOA_F
ClientSampleId :
JC-02-062618-A

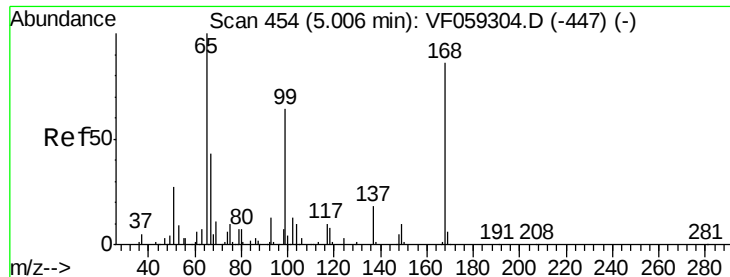
Tot Ion: 84 Resp: 4458
Ion Ratio Lower Upper
84 100
49 169.2 126.5 189.7
51 47.2 42.9 64.3
86 45.4 48.6 73.0#



#29
Tetrahydrofuran
Concen: Below Cal
RT: 4.26 min Scan# 378
Delta R.T. 0.03 min
Lab File: VF059360.D
Acq: 28 Jun 2018 15:05

Tgt Ion: 42 Resp: 461
Ion Ratio Lower Upper
42 100
72 51.4 30.5 45.7#
71 0.0 32.5 48.7#





#33

1,2-Dichloroethane-d4

Concen: 50.854 ug/l

RT: 5.02 min Scan# 455

Delta R.T. 0.01 min

Lab File: VF059360.D

Acq: 28 Jun 2018 15:05

Instrument :

MSVOA_F

ClientSampleId :

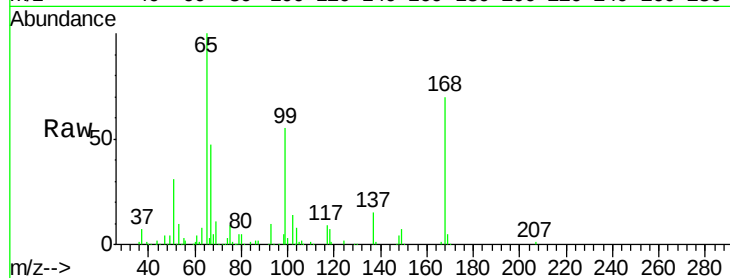
JC-02-062618-A

Tot Ion: 65 Resp: 140135

Ion Ratio Lower Upper

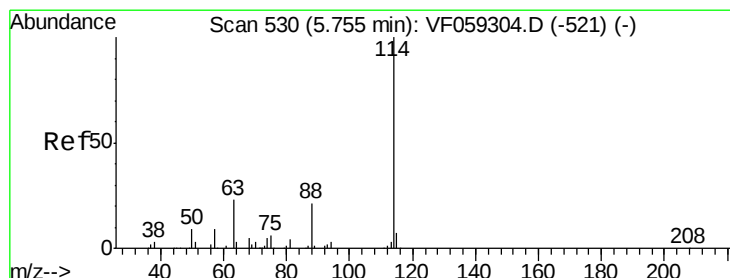
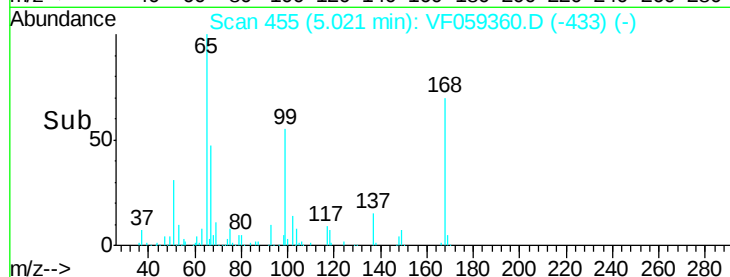
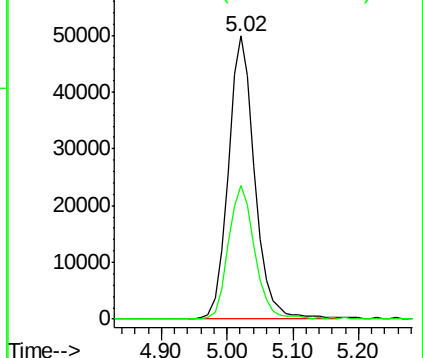
65 100

67 47.1 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: 50.000 ug/l

RT: 5.77 min Scan# 531

Delta R.T. 0.01 min

Lab File: VF059360.D

Acq: 28 Jun 2018 15:05

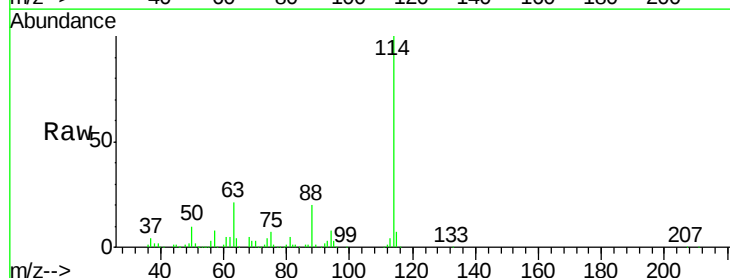
Tgt Ion: 114 Resp: 339281

Ion Ratio Lower Upper

114 100

63 21.0 0.0 45.8

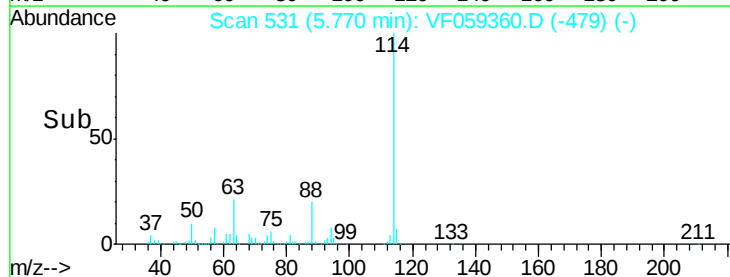
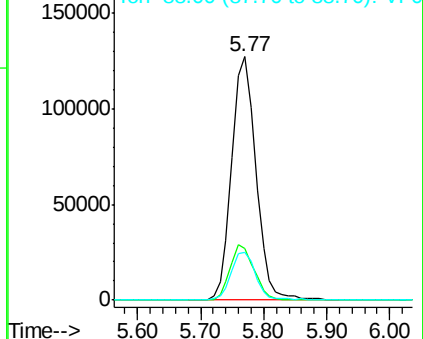
88 19.8 0.0 41.2

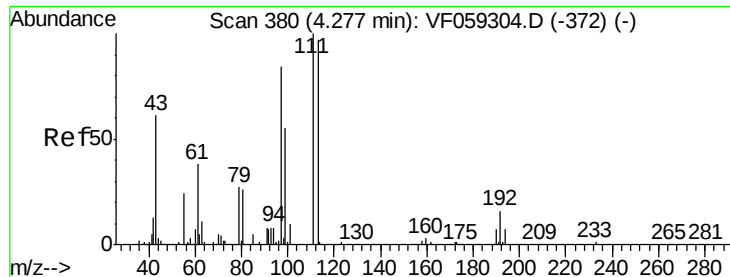


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 54.595 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.01 min

Lab File: VF059360.D

Acq: 28 Jun 2018 15:05

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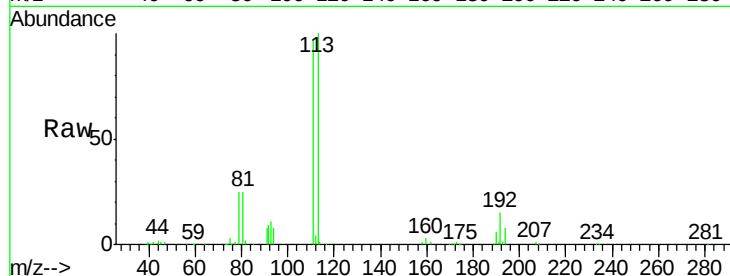
Tot Ion:113 Resp: 135341

Ion Ratio Lower Upper

113 100

111 96.8 82.1 123.1

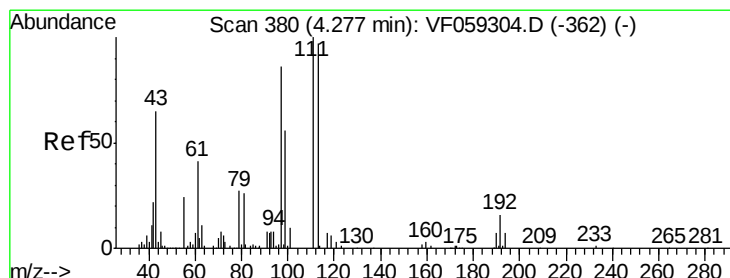
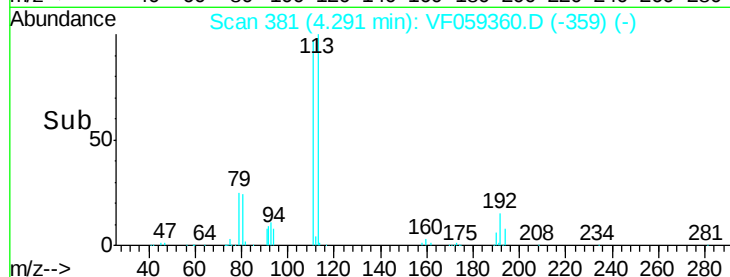
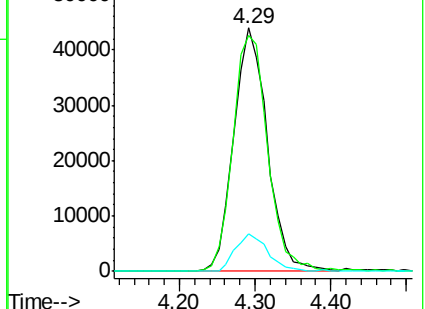
192 15.3 13.0 19.6



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



#37

Ethyl Acetate

Concen: Below Cal

RT: 4.31 min Scan# 383

Delta R.T. 0.03 min

Lab File: VF059360.D

Acq: 28 Jun 2018 15:05

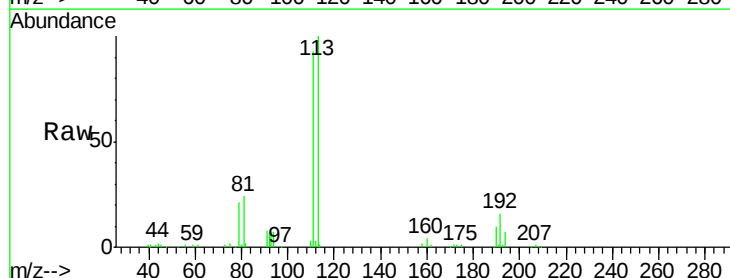
Tgt Ion: 43 Resp: 742

Ion Ratio Lower Upper

43 100

61 63.3 50.1 75.1

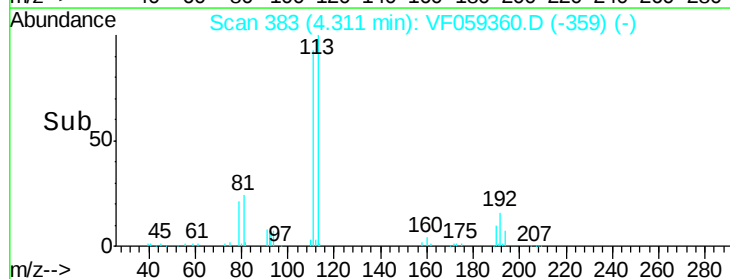
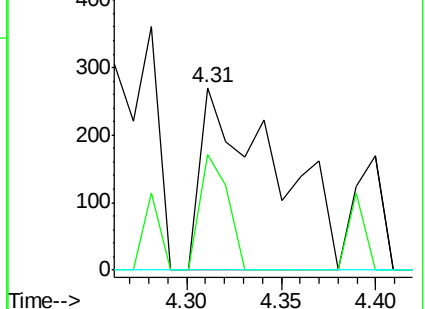
70 0.0 6.2 9.4#

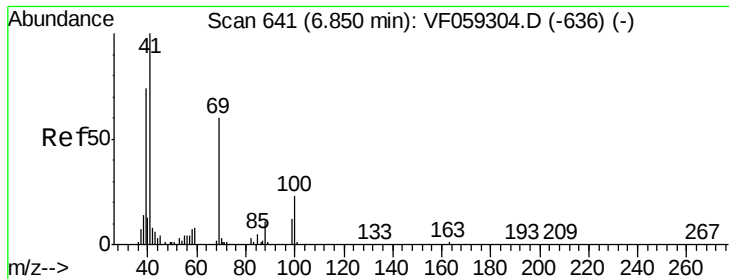


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.79 min Scan# 634

Delta R.T. -0.06 min

Lab File: VF059360.D

Acq: 28 Jun 2018 15:05

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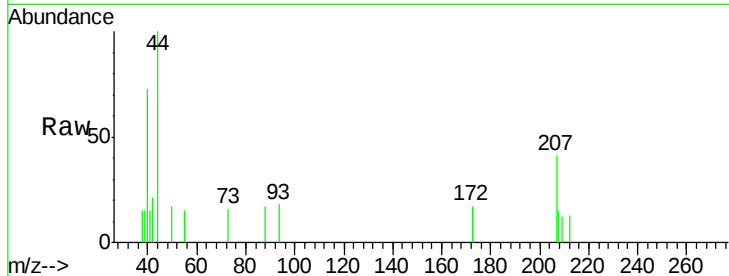
Tot Ion: 88 Resp: 82

Ion Ratio Lower Upper

88 100

43 0.0 50.6 75.8#

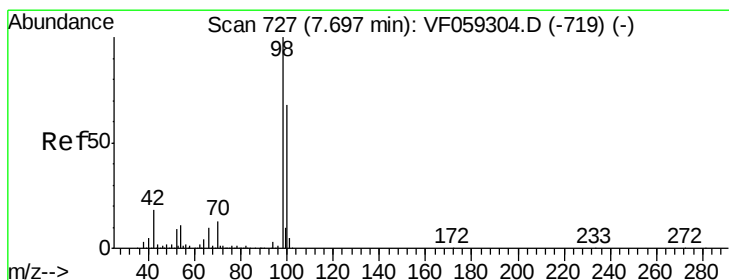
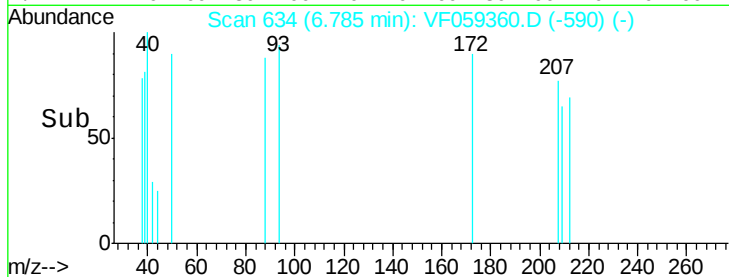
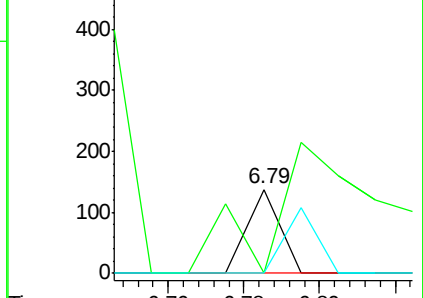
58 0.0 46.6 69.8#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 44.525 ug/l

RT: 7.71 min Scan# 728

Delta R.T. 0.01 min

Lab File: VF059360.D

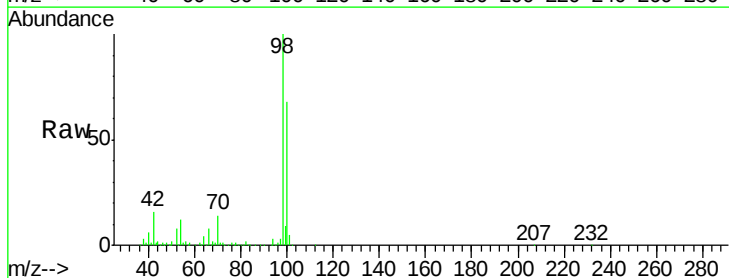
Acq: 28 Jun 2018 15:05

Tgt Ion: 98 Resp: 273285

Ion Ratio Lower Upper

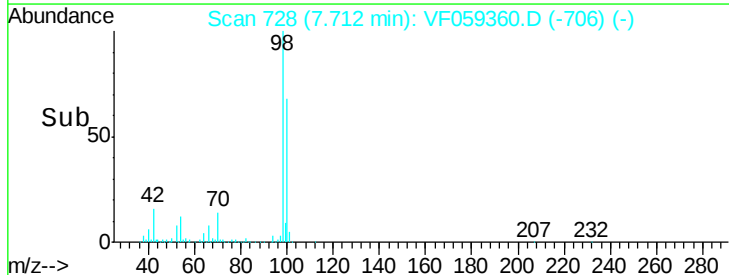
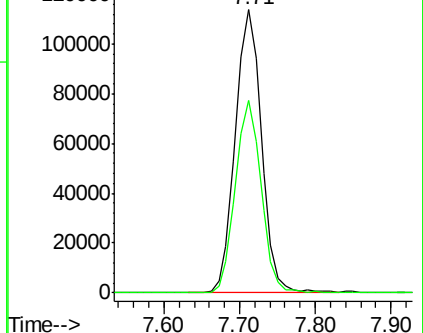
98 100

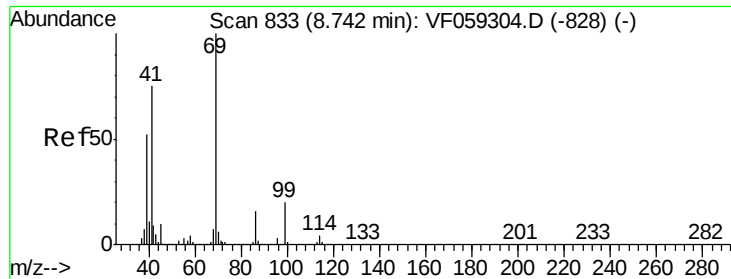
100 67.9 54.6 82.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#56

Ethyl methacrylate

Concen: 16.726 ug/l

RT: 8.77 min Scan# 835

Delta R.T. 0.02 min

Lab File: VF059360.D

Acq: 28 Jun 2018 15:05

Instrument :

MSVOA_F

ClientSampleId :

JC-02-062618-A

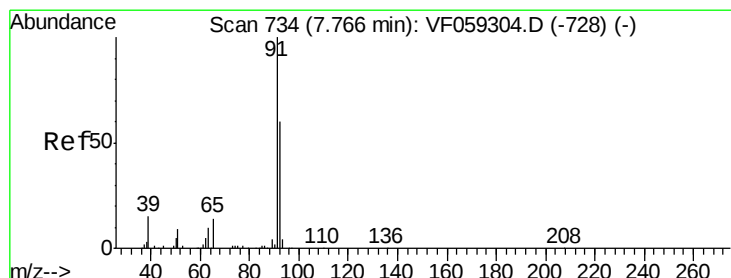
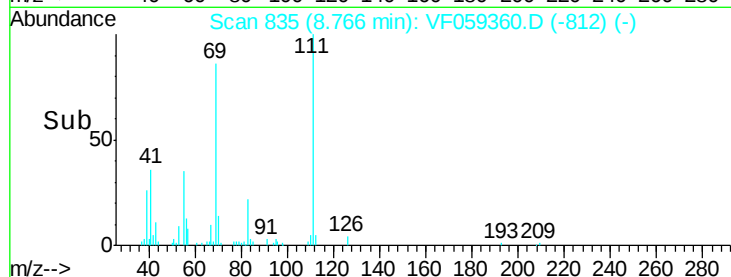
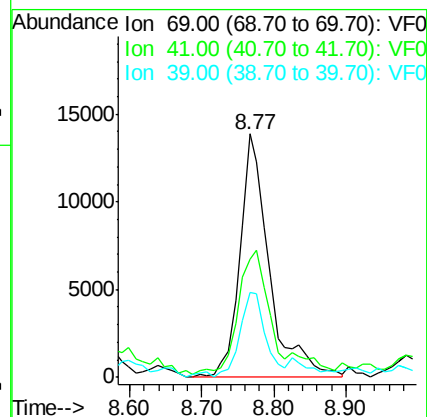
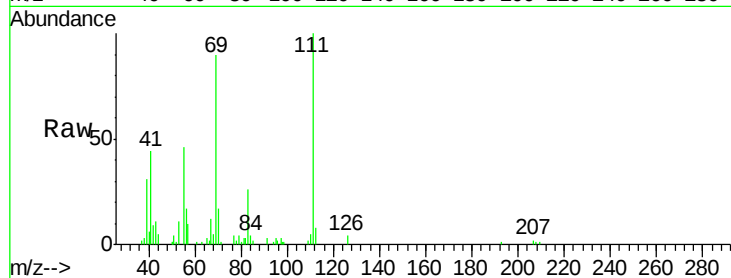
Tot Ion: 69 Resp: 39558

Ion Ratio Lower Upper

69 100

41 48.8 60.3 90.5#

39 34.9 42.2 63.4#



#58

2-Chloroethyl Vinyl ether

Concen: 1.054 ug/l

RT: 7.79 min Scan# 736

Delta R.T. 0.02 min

Lab File: VF059360.D

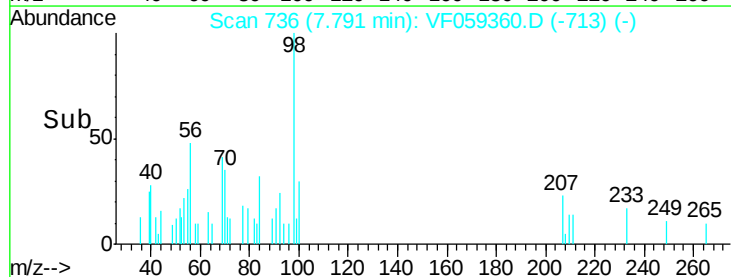
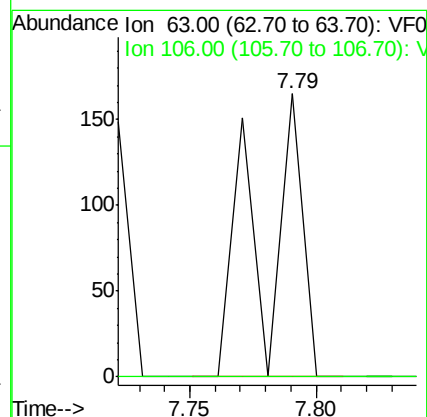
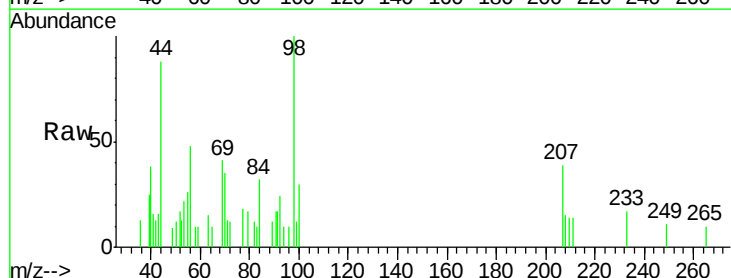
Acq: 28 Jun 2018 15:05

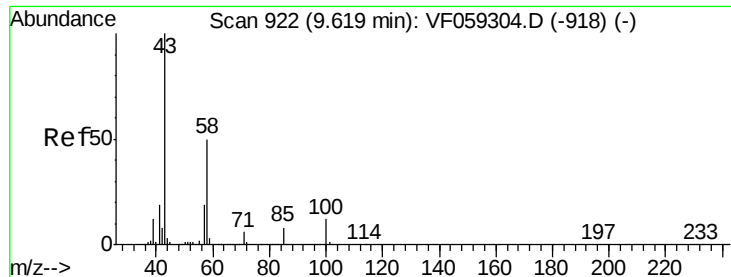
Tgt Ion: 63 Resp: 187

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

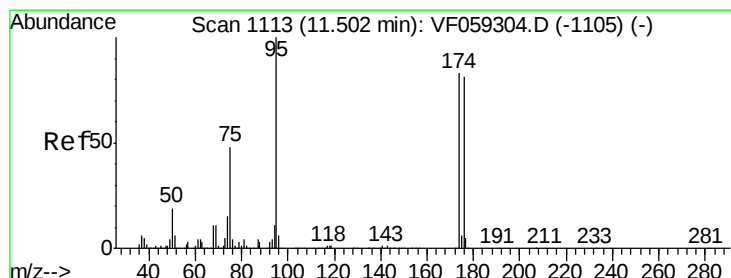
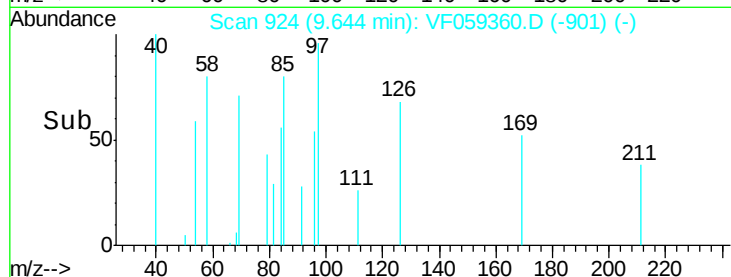
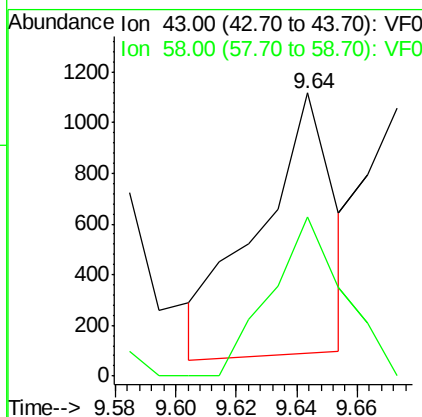
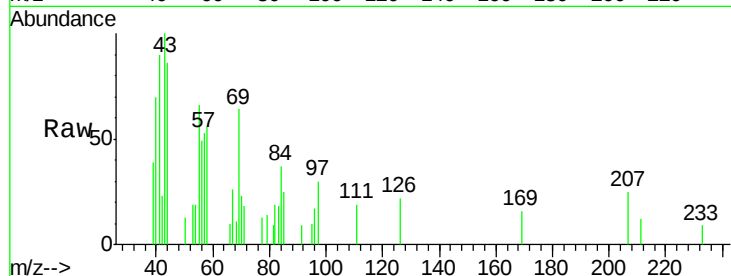




#59
2-Hexanone
Concen: Below Cal
RT: 9.64 min Scan# 924
Delta R.T. 0.02 min
Lab File: VF059360.D
Acq: 28 Jun 2018 15:05

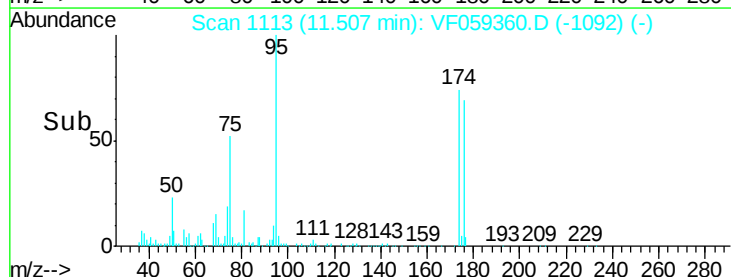
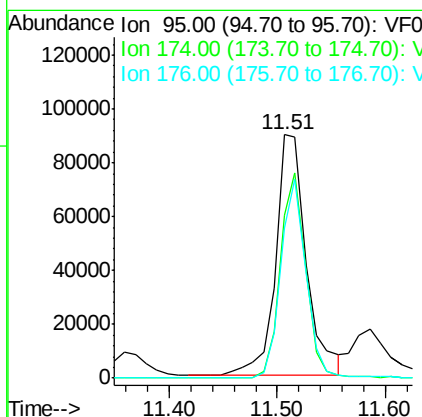
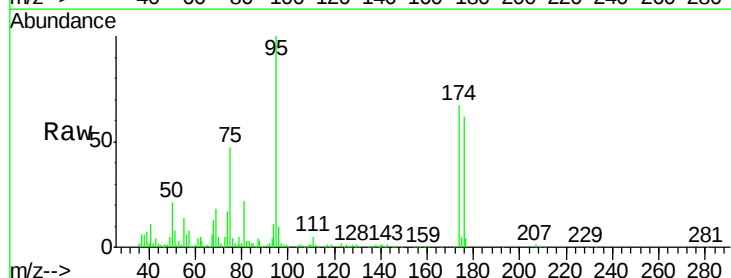
Instrument :
MSVOA_F
ClientSampleId :
JC-02-062618-A

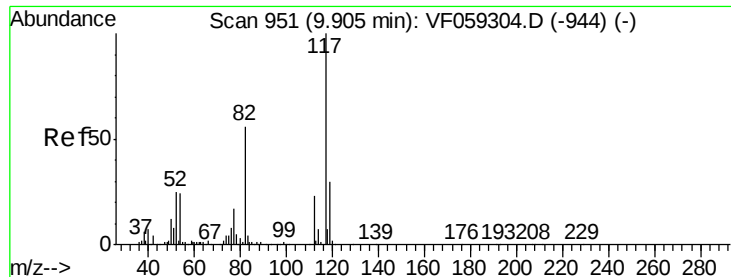
Tot Ion: 43 Resp: 1768
Ion Ratio Lower Upper
43 100
58 56.0 23.3 69.9



#62
4-Bromofluorobenzene
Concen: 51.579 ug/l
RT: 11.51 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VF059360.D
Acq: 28 Jun 2018 15:05

Tgt Ion: 95 Resp: 178582
Ion Ratio Lower Upper
95 100
174 67.0 0.0 165.2
176 61.9 0.0 161.0

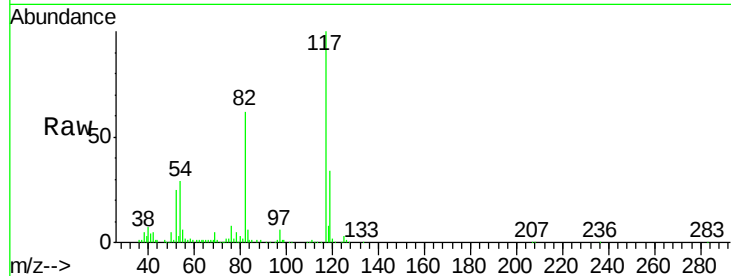




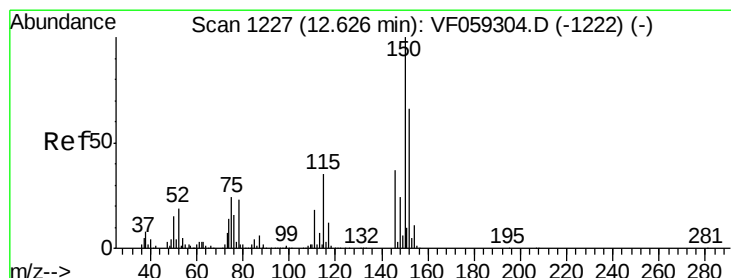
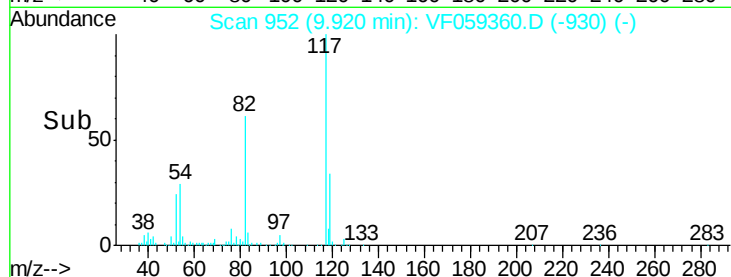
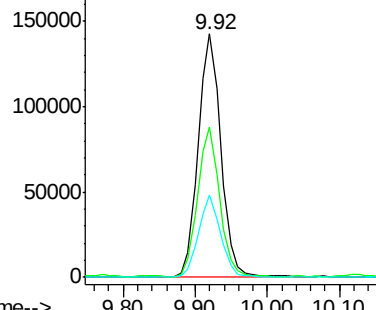
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 952
Delta R.T. 0.01 min
Lab File: VF059360.D
Acq: 28 Jun 2018 15:05

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

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.6	44.6	66.8
119	33.6	24.1	36.1

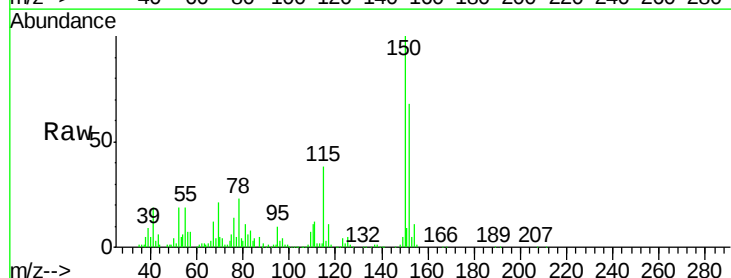


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

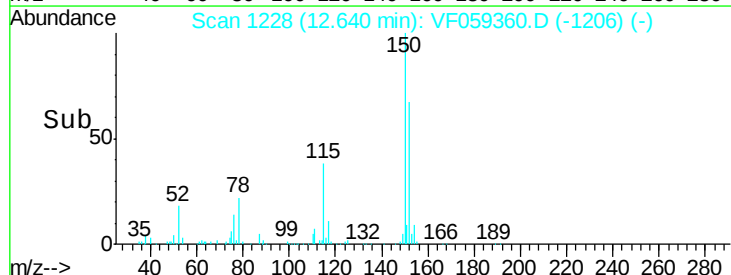
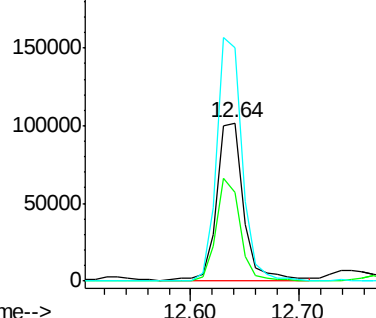


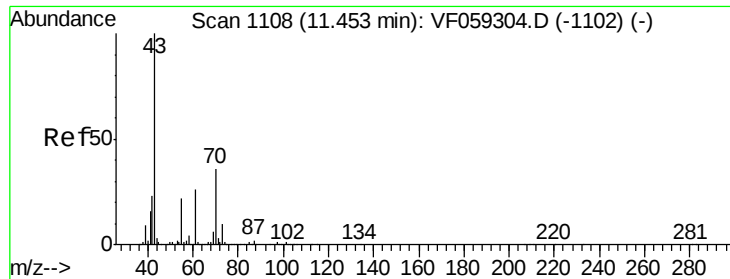
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.64 min Scan# 1228
Delta R.T. 0.01 min
Lab File: VF059360.D
Acq: 28 Jun 2018 15:05

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.3	27.1	81.3
150	147.6	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

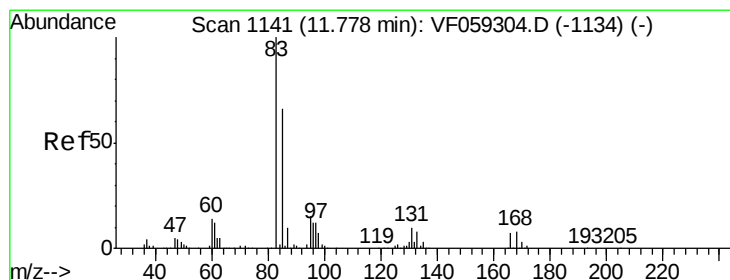
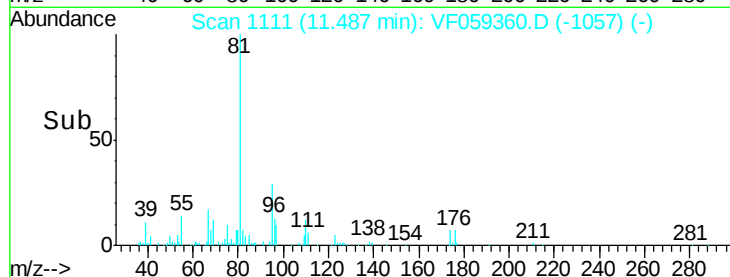
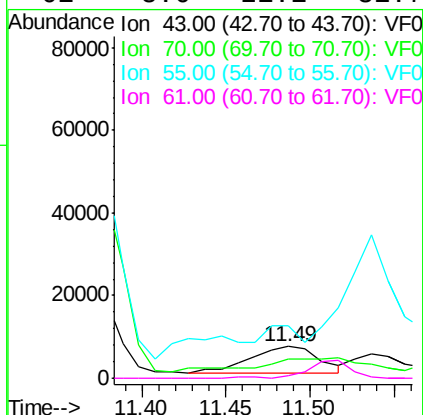
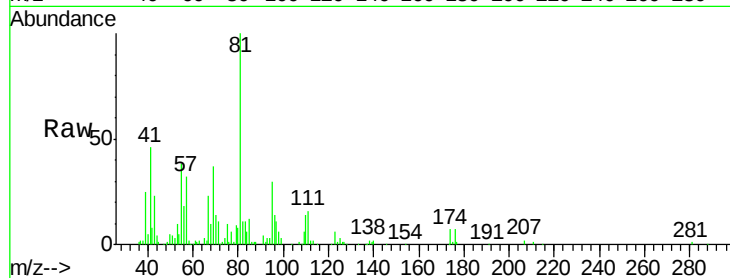




#74
N-amvl acetate
Concen: 4.943 ug/l
RT: 11.49 min Scan# 1111
Delta R.T. 0.03 min
Lab File: VF059360.D
Acq: 28 Jun 2018 15:05

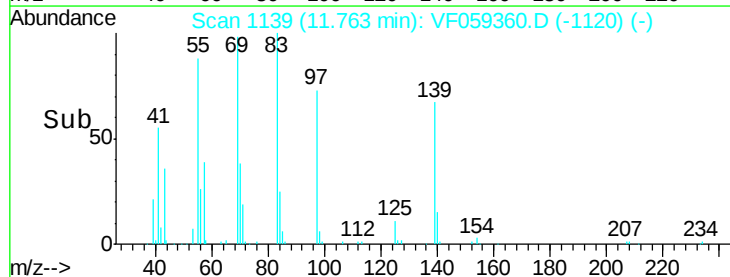
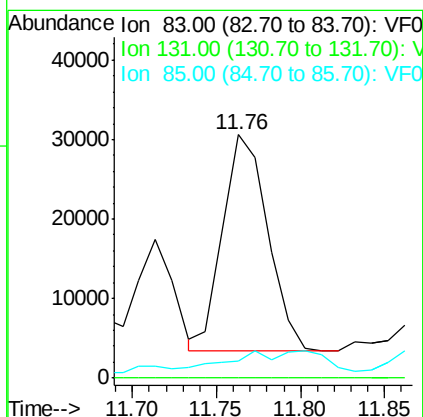
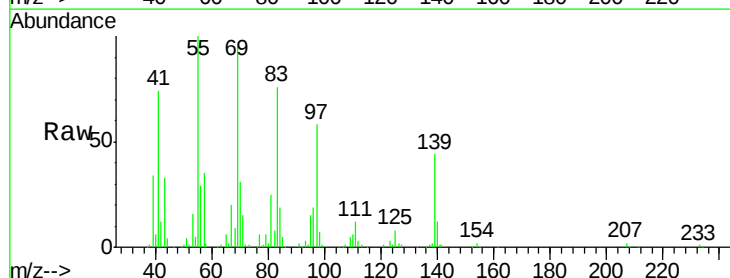
Instrument :
MSVOA_F
ClientSampleId :
JC-02-062618-A

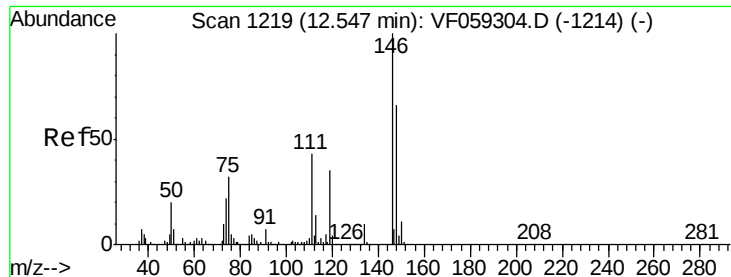
Tot Ion: 43 Resp: 18237
Ion Ratio Lower Upper
43 100
70 59.1 28.8 43.2#
55 165.2 17.4 26.0#
61 8.6 21.1 31.7#



#75
1,1,2,2-Tetrachloroethane
Concen: 19.801 ug/l
RT: 11.76 min Scan# 1139
Delta R.T. -0.02 min
Lab File: VF059360.D
Acq: 28 Jun 2018 15:05

Tgt Ion: 83 Resp: 50841
Ion Ratio Lower Upper
83 100
131 0.0 4.9 14.6#
85 6.8 32.8 98.4#





#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.56 min Scan# 1220

Delta R.T. 0.01 min

Lab File: VF059360.D

Acq: 28 Jun 2018 15:05

Instrument :

MSVOA_F

ClientSampleId :

JC-02-062618-A

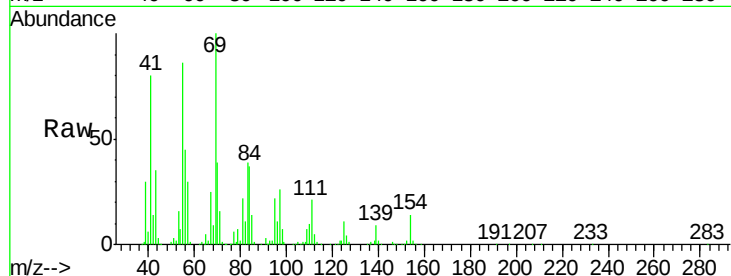
Tot Ion:146 Resp: 658

Ion Ratio Lower Upper

146 100

111 3364.9 21.4 64.2#

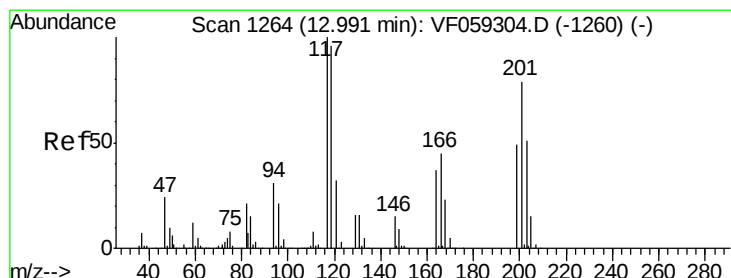
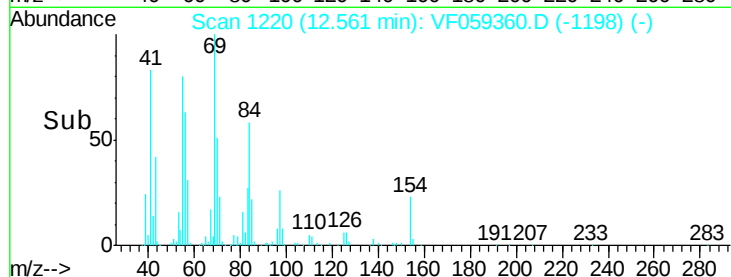
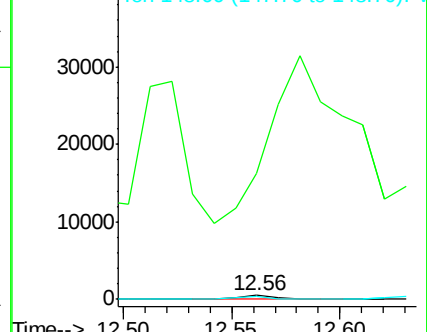
148 72.4 32.8 98.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#90

Hexachloroethane

Concen: 5.519 ug/l

RT: 13.01 min Scan# 1265

Delta R.T. 0.01 min

Lab File: VF059360.D

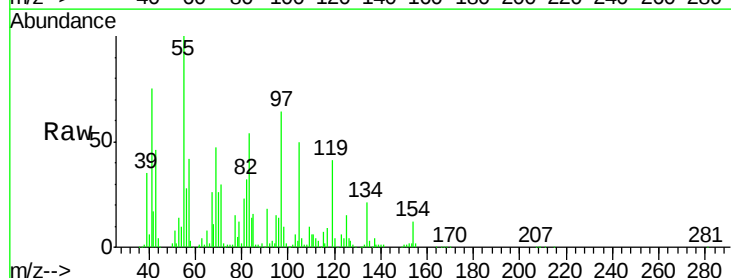
Acq: 28 Jun 2018 15:05

Tgt Ion:117 Resp: 13629

Ion Ratio Lower Upper

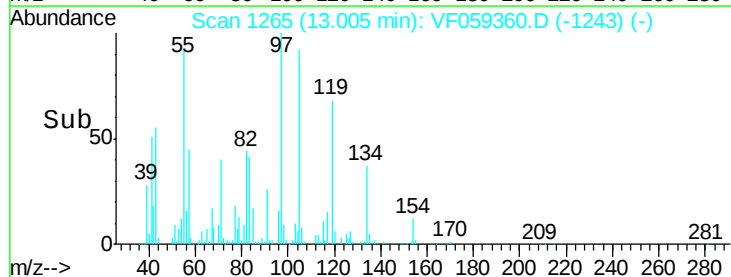
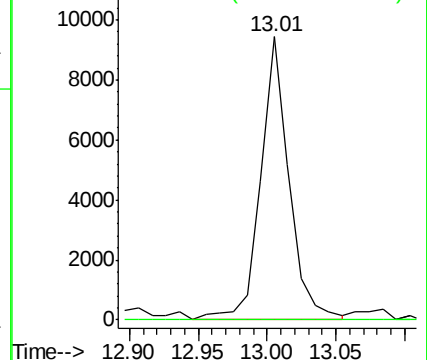
117 100

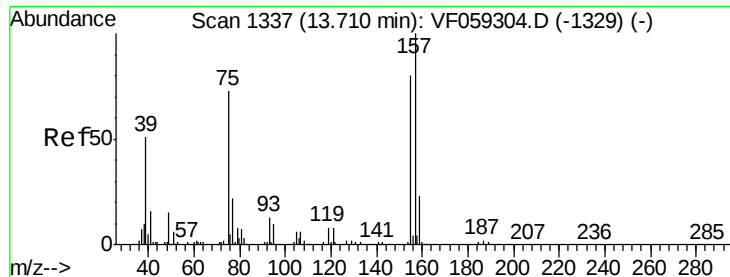
201 0.0 39.5 118.5#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

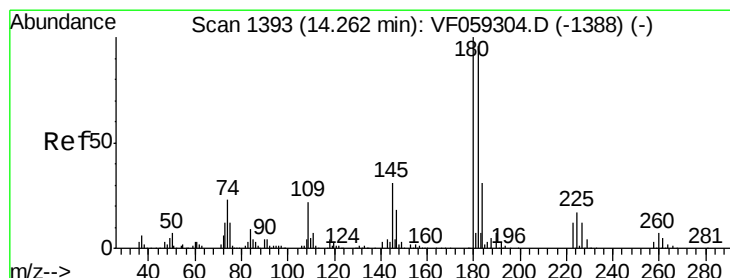
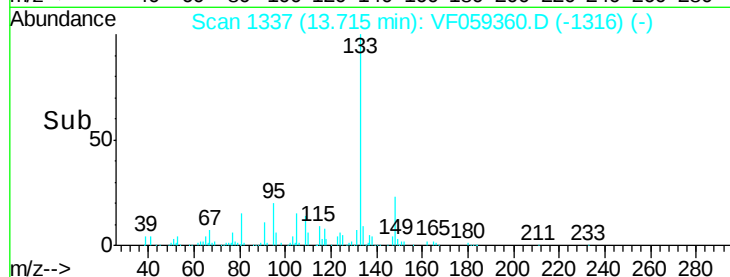
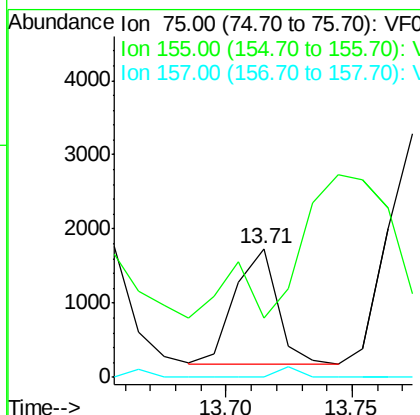
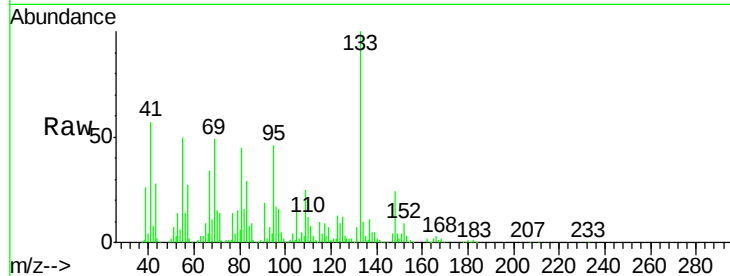




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.222 ug/l
 RT: 13.71 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VF059360.D
 Acq: 28 Jun 2018 15:05

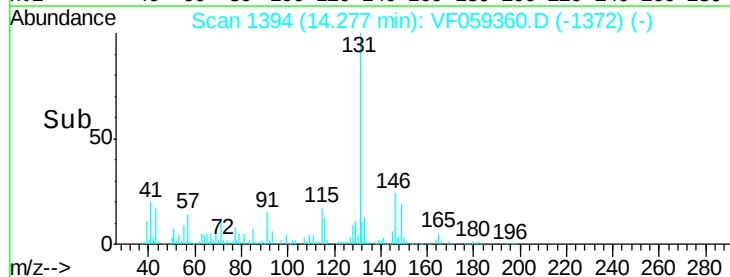
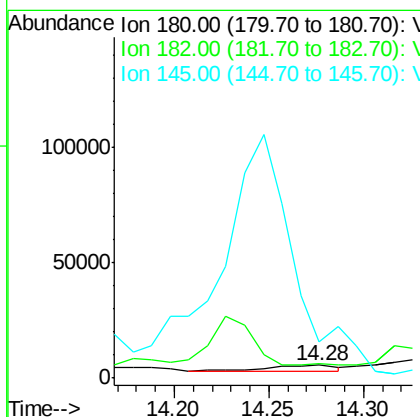
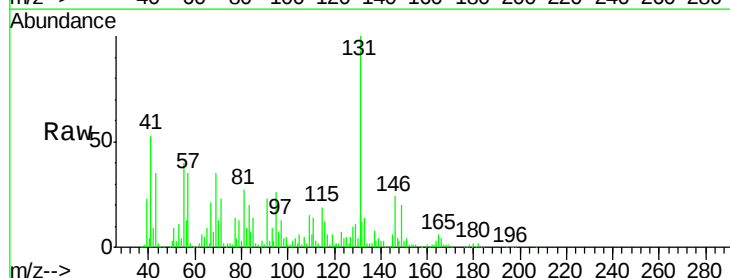
Instrument :
 MSVOA_F
 ClientSampleId :
 JC-02-062618-A

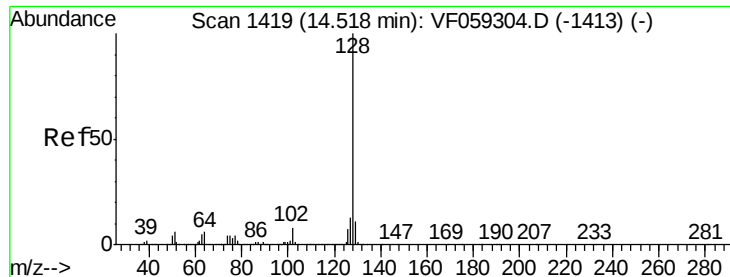
Tot Ion: 75 Resp: 1834
 Ion Ratio Lower Upper
 75 100
 155 46.1 54.6 163.8#
 157 0.0 68.7 205.9#



#93
 1,2,4-Trichlorobenzene
 Concen: 1.748 ug/l
 RT: 14.28 min Scan# 1394
 Delta R.T. 0.01 min
 Lab File: VF059360.D
 Acq: 28 Jun 2018 15:05

Tgt Ion:180 Resp: 6620
 Ion Ratio Lower Upper
 180 100
 182 108.4 48.1 144.3
 145 279.1 15.3 45.8#





#95

Naphthalene

Concen: 6.333 ug/l

RT: 14.53 min Scan# 1420

Delta R.T. 0.01 min

Lab File: VF059360.D

Acq: 28 Jun 2018 15:05

Instrument :

MSVOA_F

ClientSampleId :

JC-02-062618-A

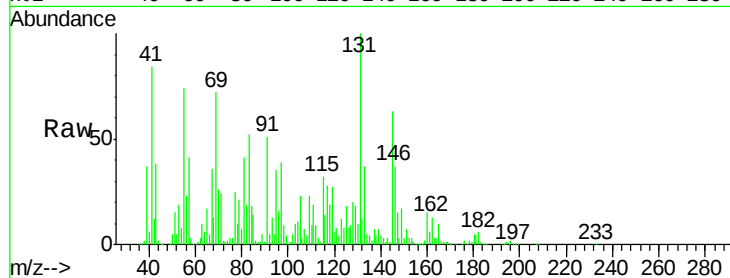
Tot Ion:128 Resp: 50171

Ion Ratio Lower Upper

128 100

127 43.8 10.1 15.1#

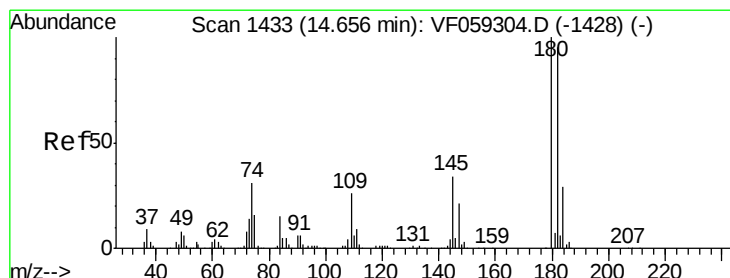
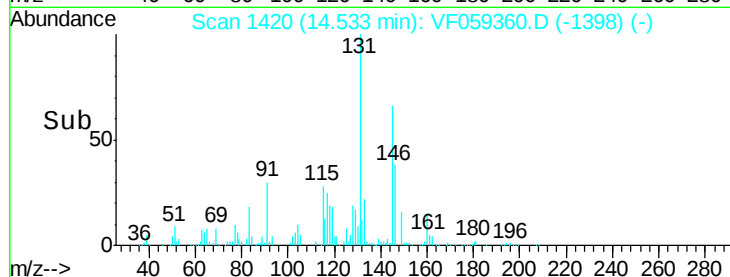
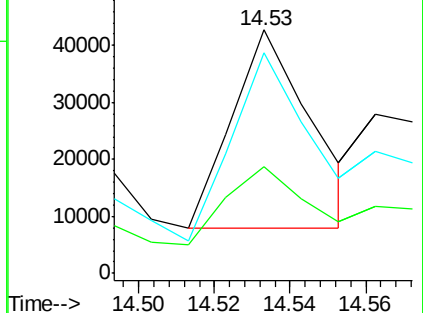
129 90.5 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 7.676 ug/l

RT: 14.61 min Scan# 1428

Delta R.T. -0.04 min

Lab File: VF059360.D

Acq: 28 Jun 2018 15:05

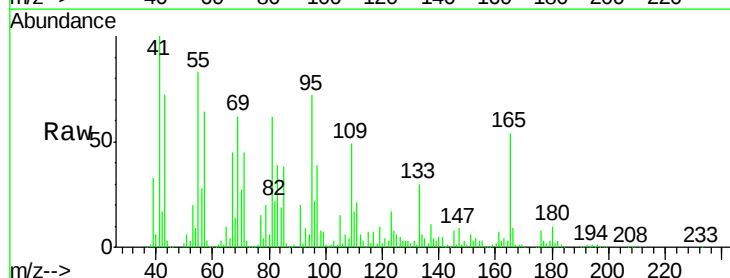
Tgt Ion:180 Resp: 27532

Ion Ratio Lower Upper

180 100

182 32.4 47.5 142.5#

145 87.1 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

