

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF072418\
 Data File : VF059646.D
 Acq On : 24 Jul 2018 22:36
 Operator : VA/AP
 Sample : J4101-03
 Misc : 5.77a/5mL/MSVOA F/SOIL
 ALS Vial : 96 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jul 25 05:11:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F072418S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 25 02:29:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	0.00	168	0	0.00	ug/l	-5.02
34) 1,4-Difluorobenzene	5.74	114	61	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	107	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ug/l	-12.62

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	0.00	65	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
35) Dibromofluoromethane	4.26	113	71	129.33	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	258.66%	
50) Toluene-d8	7.54	98	63	47.08	ug/l	-0.15
Spiked Amount	50.000		Recovery	=	94.16%	
62) 4-Bromofluorobenzene	11.50	95	85	123.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	247.26%	

Target Compounds

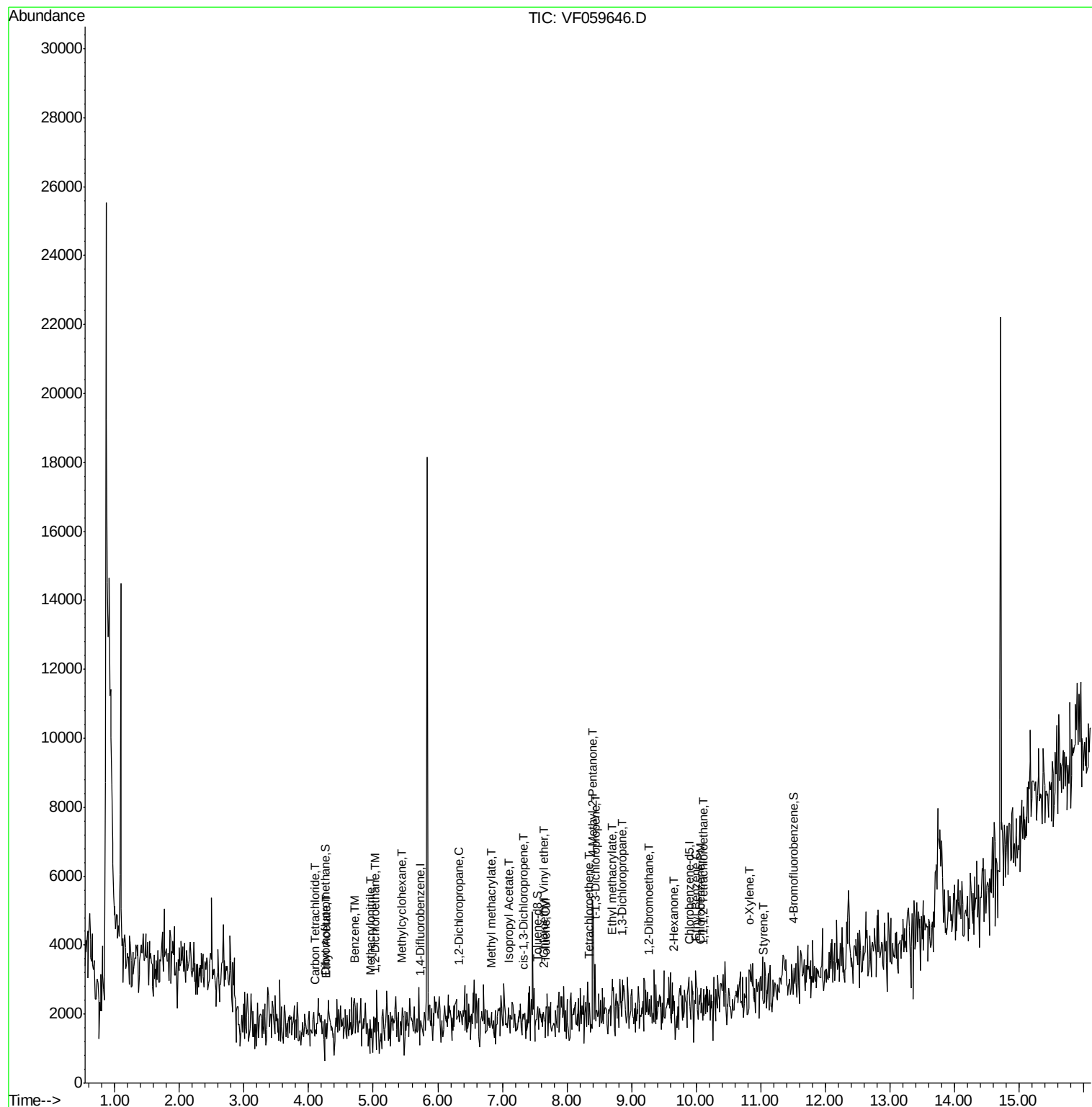
						Qvalue
37) Ethyl Acetate	4.28	43	97	492.669	ug/l #	1
38) Carbon Tetrachloride	4.10	117	76	88.121	ug/l #	9
39) Methylcyclohexane	5.45	83	100	197.284	ug/l #	9
40) Benzene	4.73	78	64	55.359	ug/l #	51
41) Methacrylonitrile	4.96	41	70	598.793	ug/l #	29
42) 1,2-Dichloroethane	5.03	62	60	87.586	ug/l	84
43) Isopropyl Acetate	7.09	43	180	654.870	ug/l #	50
45) 1,2-Dichloropropane	6.32	63	93	317.723	ug/l #	43
48) Methyl methacrylate	6.83	41	97	479.395	ug/l #	13
51) 4-Methyl-2-Pentanone	8.40	43	204	1009.809	ug/l #	47
52) Toluene	7.68	92	70	97.192	ug/l #	1
53) t-1,3-Dichloropropene	8.44	75	269	466.986	ug/l #	43
54) cis-1,3-Dichloropropene	7.33	75	72	118.246	ug/l #	8
56) Ethyl methacrylate	8.69	69	122	442.759	ug/l	89
57) 1,3-Dichloropropane	8.86	76	80	181.277	ug/l #	43
58) 2-Chloroethyl Vinyl ether	7.63	63	65	1837.796	ug/l	100
59) 2-Hexanone	9.65	43	195	1263.989	ug/l #	29
61) 1,2-Dibromoethane	9.26	107	78	247.810	ug/l #	1
64) Tetrachloroethene	8.35	164	63	74.304	ug/l #	1
65) Chlorobenzene	10.06	112	62	31.276	ug/l #	42
66) 1,1,1,2-Tetrachloroethane	10.11	131	71	77.262	ug/l #	9
67) Ethyl Benzene	10.01	91	72	20.212	ug/l #	45
69) o-Xylene	10.81	106	81	59.782	ug/l #	1
70) Styrene	11.05	104	108	55.196	ug/l #	27

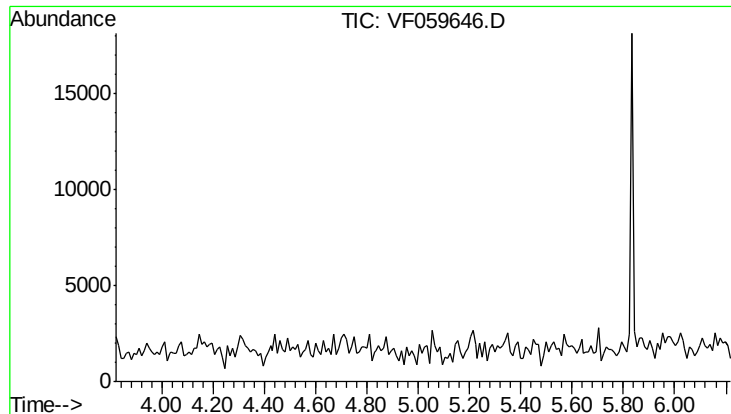
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 25 05:11:49 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F072418S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 25 02:29:31 2018
Response via : Initial Calibration

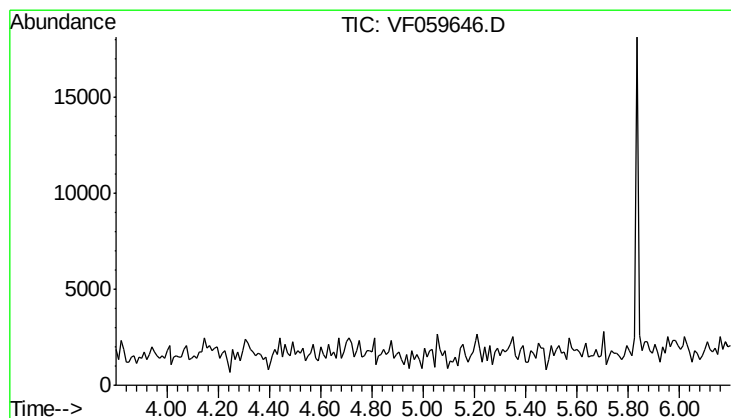
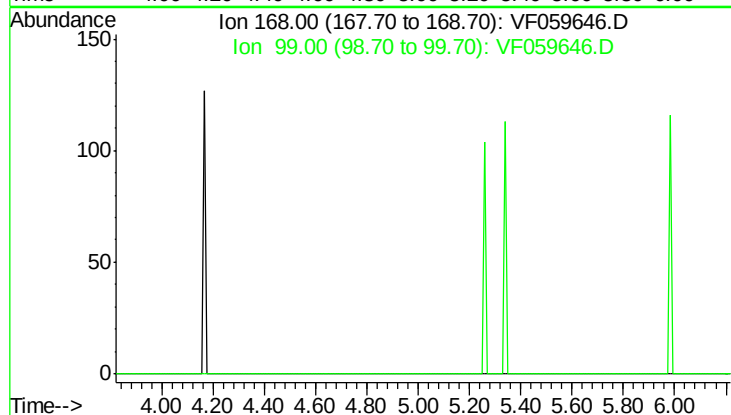




#1
 Pentafluorobenzene
 Concen: 0.000 ug/l
 Expected RT: 5.02 min
 Lab File: VF059646.D
 Acq: 24 Jul 2018 22:36

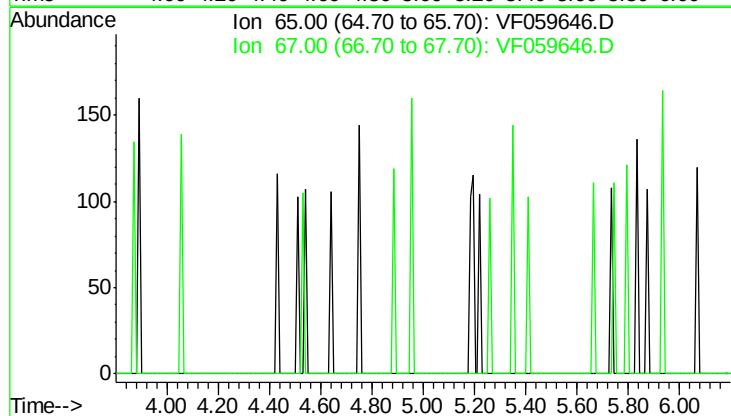
Instrument :
 MSVOA_F
 ClientSampleId :

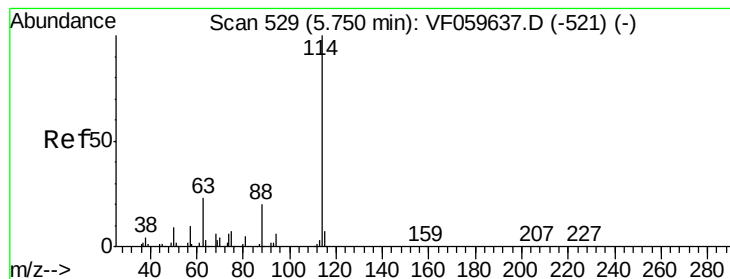
Tot Ion	168
Sig	Exp Ratio
168	100
99	74.4



#33
 1,2-Dichloroethane-d4
 Concen: 0.000 ug/l
 Expected RT: 5.00 min
 Lab File: VF059646.D
 Acq: 24 Jul 2018 22:36

Tgt Ion	65
Sig	Exp Ratio
65	100
67	43.3





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.74 min Scan# 529

Delta R.T. -0.01 min

Lab File: VF059646.D

Acq: 24 Jul 2018 22:36

Instrument :

MSVOA_F

ClientSampled :

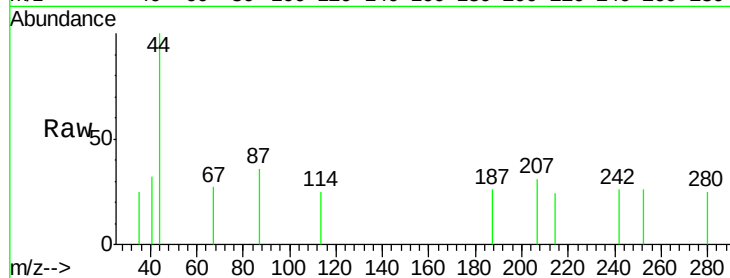
Tot Ion:114 Resp: 61

Ion Ratio Lower Upper

114 100

63 0.0 0.0 45.6

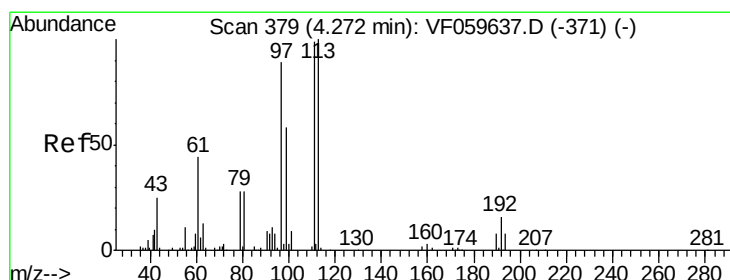
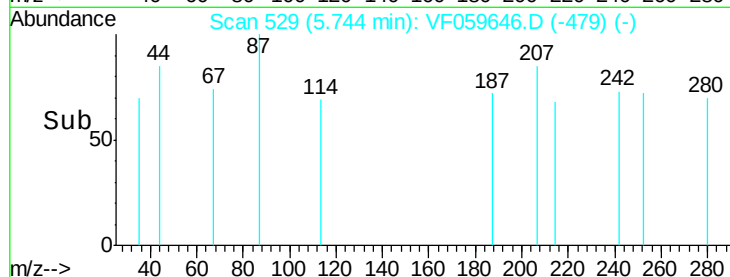
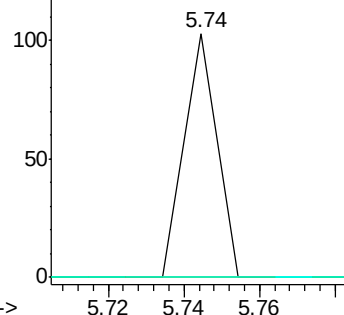
88 0.0 0.0 40.8



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: 129.331 ug/l

RT: 4.26 min Scan# 378

Delta R.T. -0.02 min

Lab File: VF059646.D

Acq: 24 Jul 2018 22:36

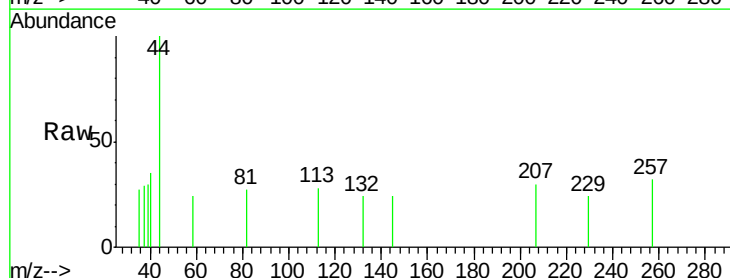
Tgt Ion:113 Resp: 71

Ion Ratio Lower Upper

113 100

111 0.0 79.3 118.9#

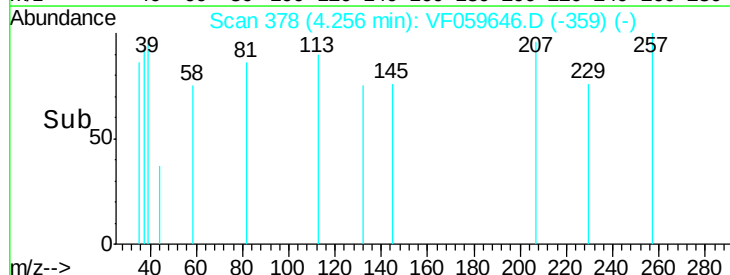
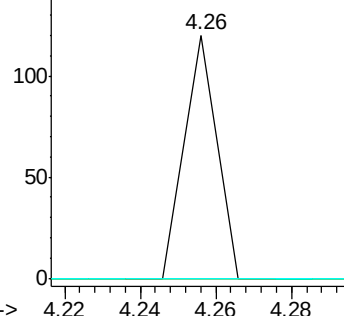
192 0.0 13.4 20.2#

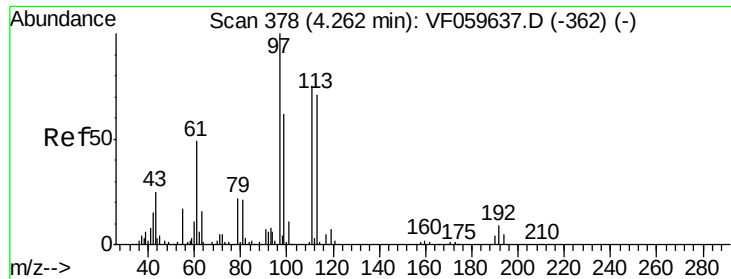


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#37

Ethyl Acetate

Concen: 492.669 ug/l

RT: 4.28 min Scan# 380

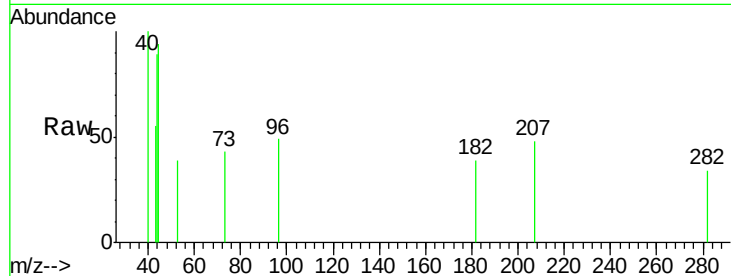
Delta R.T. 0.01 min

Lab File: VF059646.D

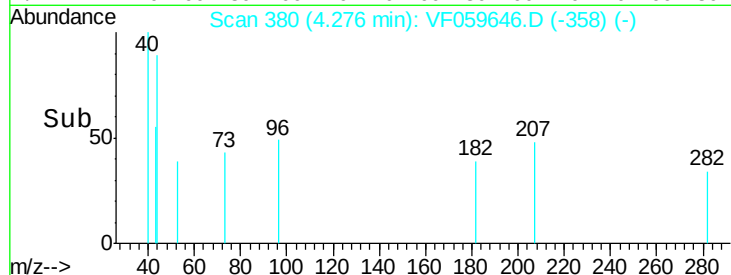
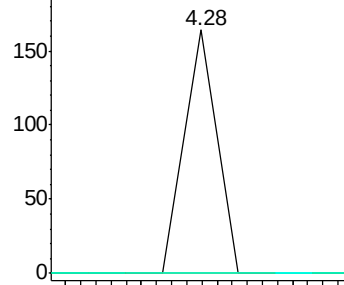
Acq: 24 Jul 2018 22:36

Instrument :
MSVOA_F
ClientSampled :

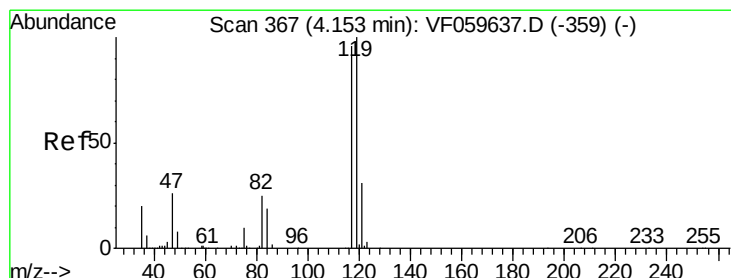
Tot Ion: 43 Resp: 97
Ion Ratio Lower Upper
43 100
61 0.0 156.6 234.8#
70 0.0 7.3 10.9#



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



Time-->



#38

Carbon Tetrachloride

Concen: 88.121 ug/l

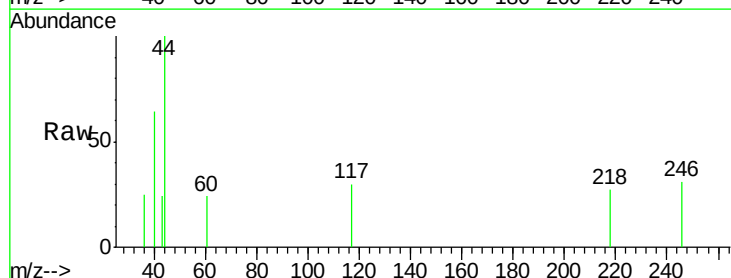
RT: 4.10 min Scan# 362

Delta R.T. -0.06 min

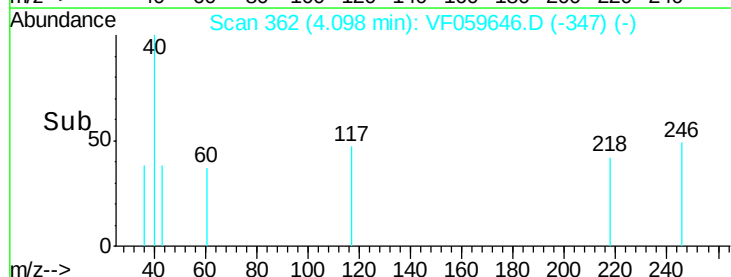
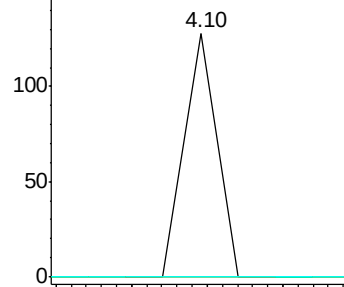
Lab File: VF059646.D

Acq: 24 Jul 2018 22:36

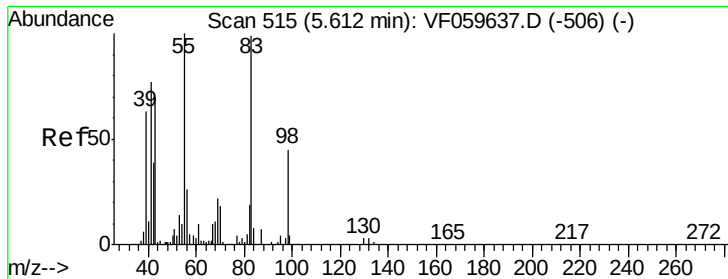
Tgt Ion: 117 Resp: 76
Ion Ratio Lower Upper
117 100
119 0.0 83.0 124.6#
121 0.0 26.2 39.4#



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



Time-->



#39

Methylvlcyclohexane

Concen: 197.284 ug/l

RT: 5.45 min Scan# 499

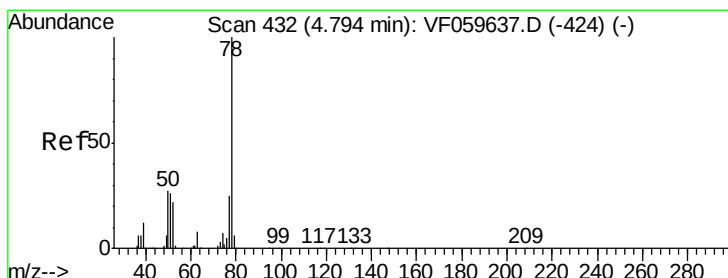
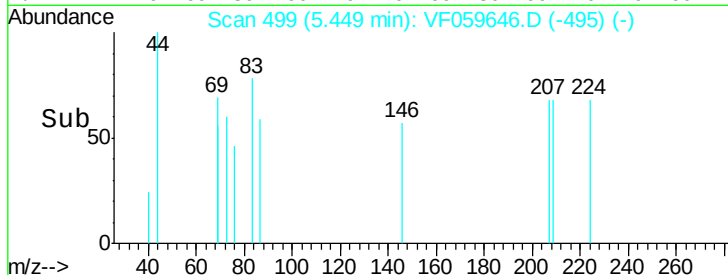
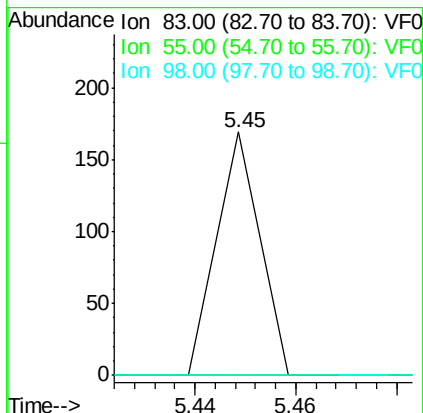
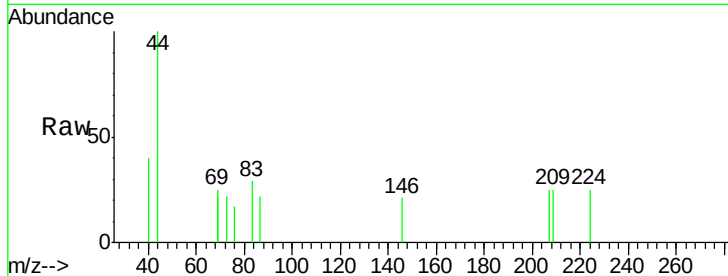
Delta R.T. -0.16 min

Lab File: VF059646.D

Acq: 24 Jul 2018 22:36

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	83	Resp:	100
Ion	Ratio	Lower	Upper
83	100		
55	0.0	81.5	122.3#
98	0.0	36.7	55.1#



#40

Benzene

Concen: 55.359 ug/l

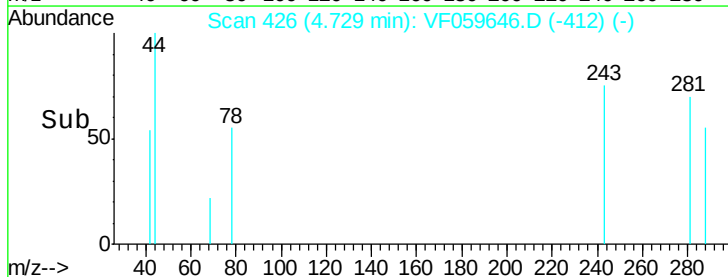
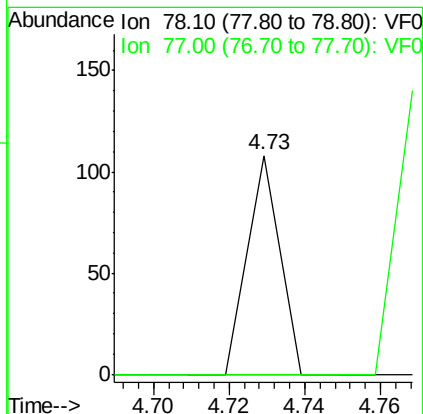
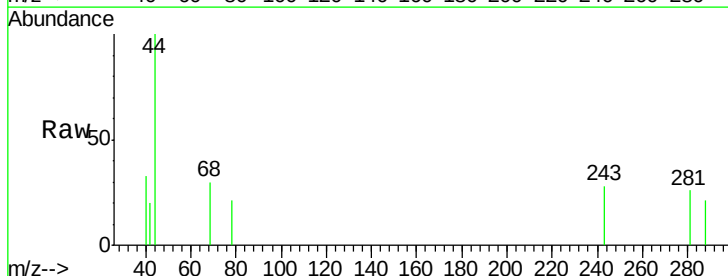
RT: 4.73 min Scan# 426

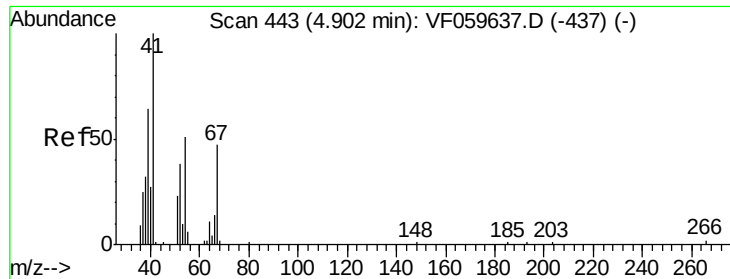
Delta R.T. -0.07 min

Lab File: VF059646.D

Acq: 24 Jul 2018 22:36

Tgt Ion:	78	Resp:	64
Ion	Ratio	Lower	Upper
78	100		
77	0.0	19.8	29.6#

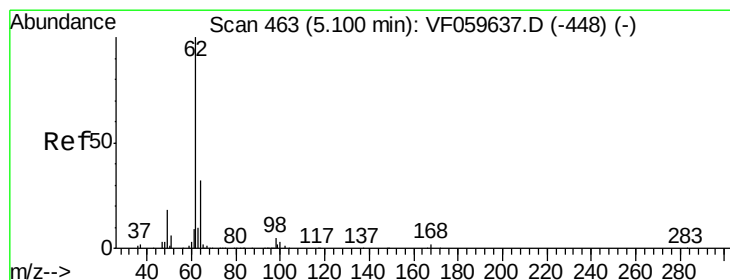
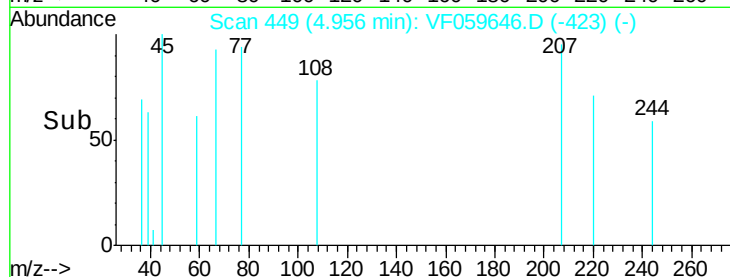
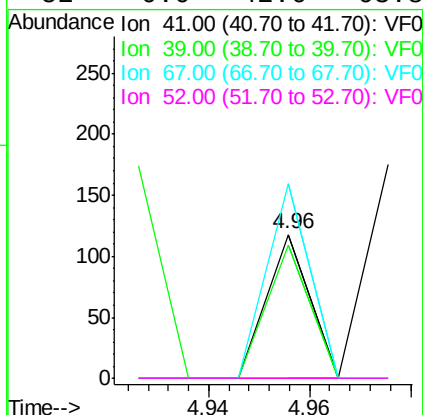
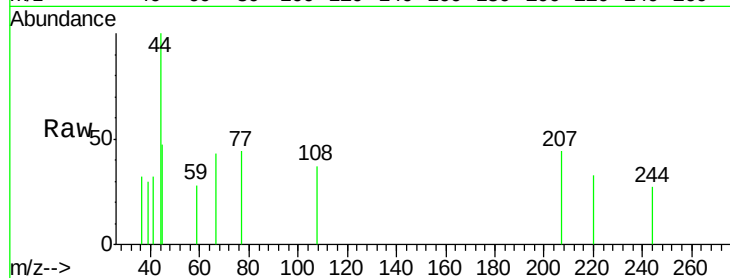




#41
Methacrylonitrile
Concen: 598.793 ug/l
RT: 4.96 min Scan# 449
Delta R.T. 0.05 min
Lab File: VF059646.D
Acq: 24 Jul 2018 22:36

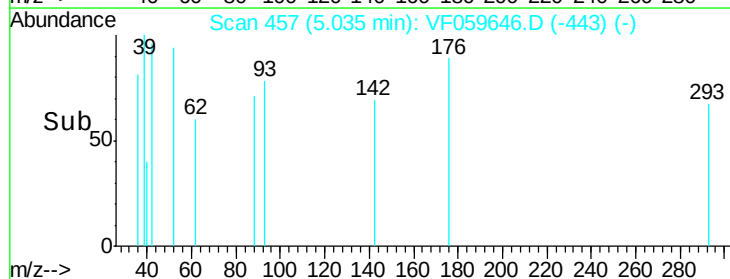
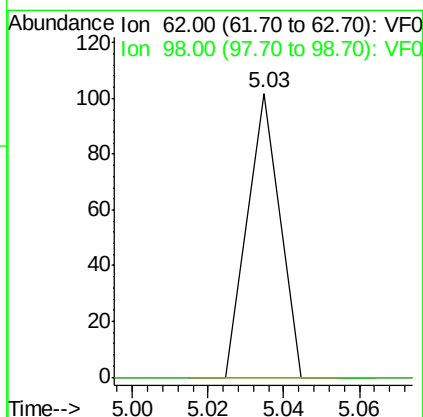
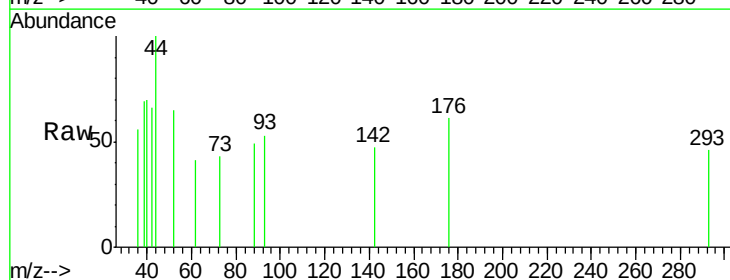
Instrument :
MSVOA_F
ClientSampled :

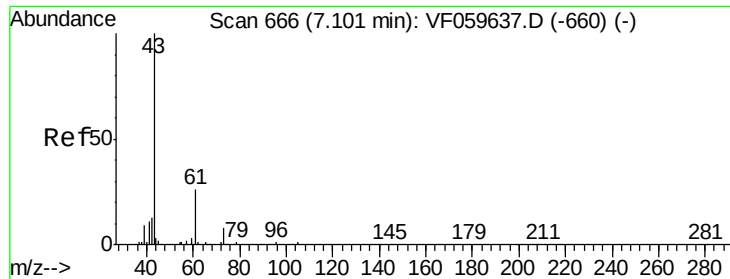
Tot Ion:	41	Resp:	70
Ion	Ratio	Lower	Upper
41	100		
39	92.4	56.9	85.3#
67	135.6	36.6	54.8#
52	0.0	42.6	63.8#



#42
1,2-Dichloroethane
Concen: 87.586 ug/l
RT: 5.03 min Scan# 457
Delta R.T. -0.07 min
Lab File: VF059646.D
Acq: 24 Jul 2018 22:36

Tgt Ion:	62	Resp:	60
Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	10.6





#43

Isopropyl Acetate

Concen: 654.870 ug/l

RT: 7.09 min Scan# 666

Delta R.T. -0.01 min

Lab File: VF059646.D

Acq: 24 Jul 2018 22:36

Instrument :

MSVOA_F

ClientSampleId :

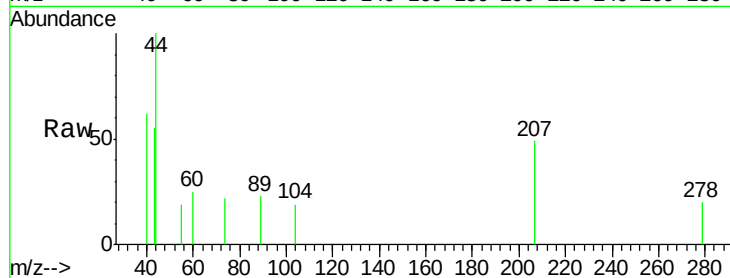
Tot Ion: 43 Resp: 180

Ion Ratio Lower Upper

43 100

61 0.0 20.5 30.7#

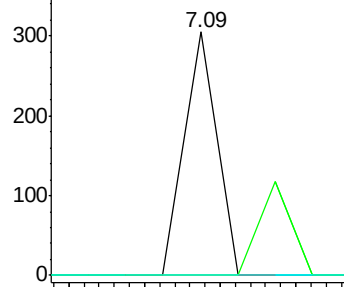
87 0.0 0.4 0.6#



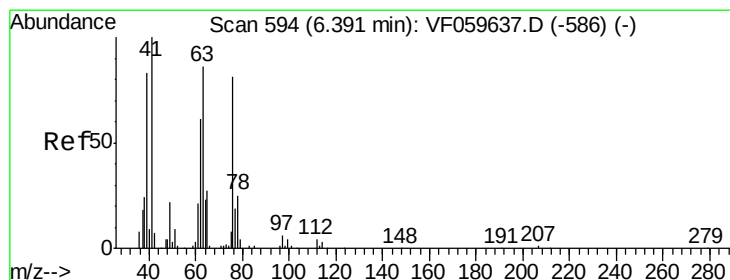
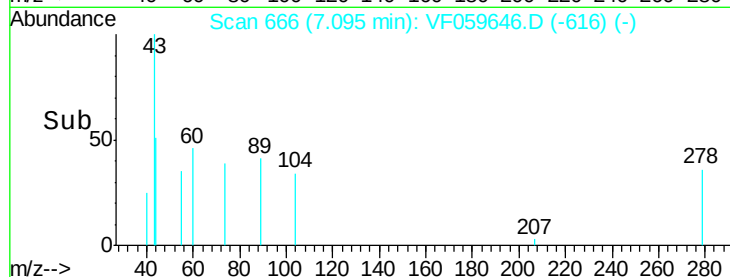
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



Time-->



#45

1,2-Dichloropropane

Concen: 317.723 ug/l

RT: 6.32 min Scan# 587

Delta R.T. -0.07 min

Lab File: VF059646.D

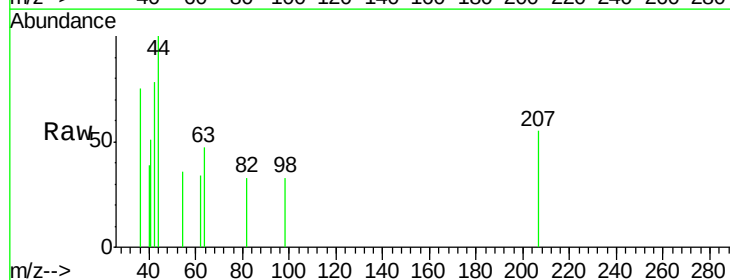
Acq: 24 Jul 2018 22:36

Tgt Ion: 63 Resp: 93

Ion Ratio Lower Upper

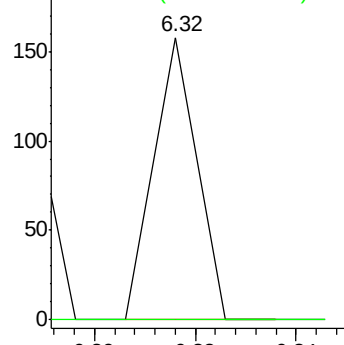
63 100

65 0.0 25.1 37.7#

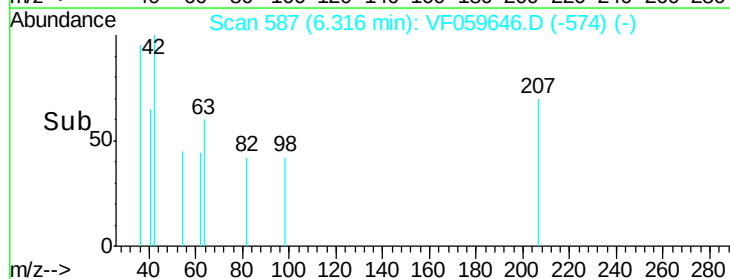


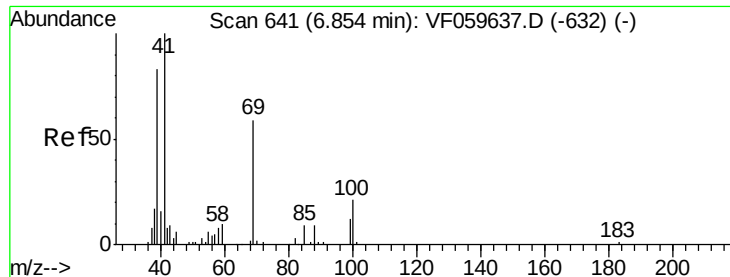
Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



Time-->

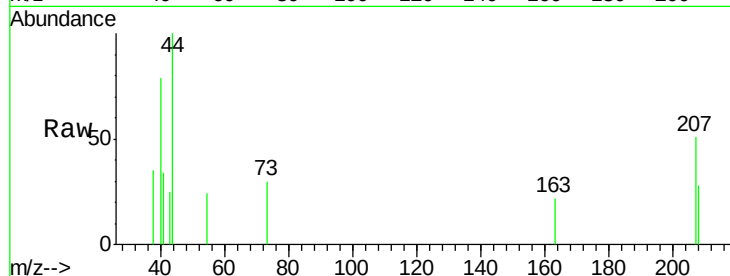




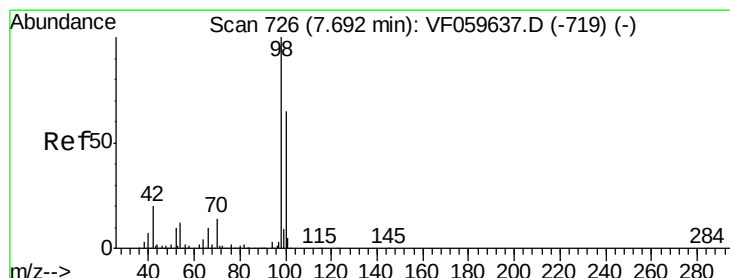
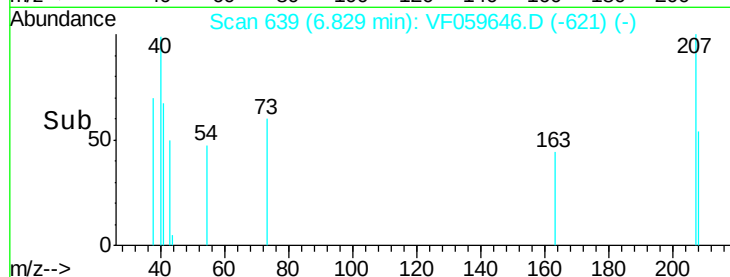
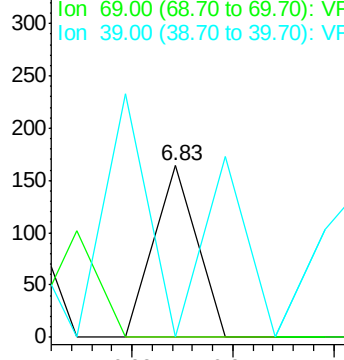
#48
Methvl methacrylate
Concen: 479.395 ug/l
RT: 6.83 min Scan# 639
Delta R.T. -0.03 min
Lab File: VF059646.D
Acq: 24 Jul 2018 22:36

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 41 Resp: 97
Ion Ratio Lower Upper
41 100
69 0.0 47.5 71.3#
39 0.0 67.0 100.6#

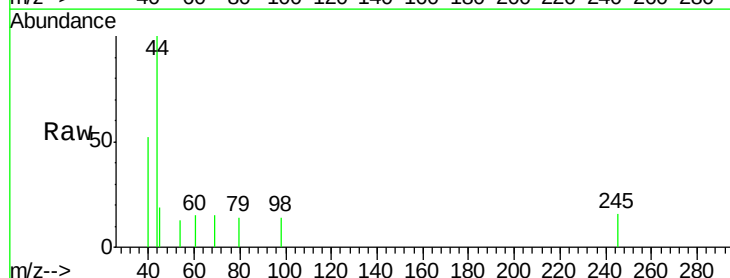


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0

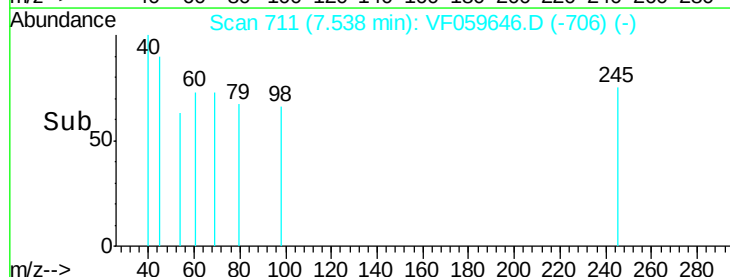
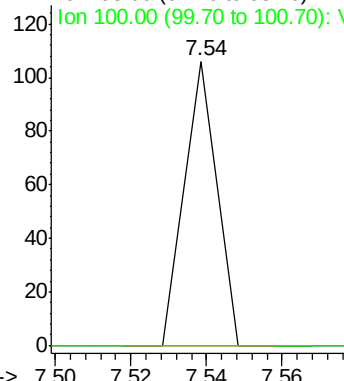


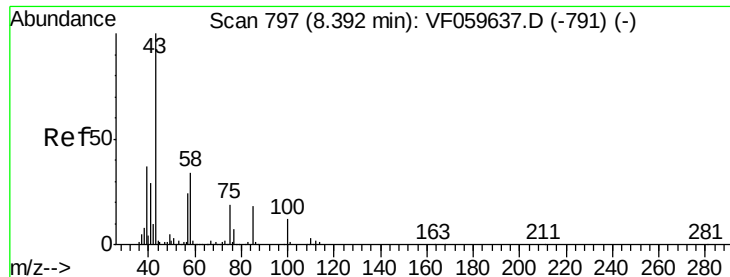
#50
Toluene-d8
Concen: 47.084 ug/l
RT: 7.54 min Scan# 711
Delta R.T. -0.15 min
Lab File: VF059646.D
Acq: 24 Jul 2018 22:36

Tgt Ion: 98 Resp: 63
Ion Ratio Lower Upper
98 100
100 0.0 52.2 78.4#



Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 1009.809 ug/l

RT: 8.40 min Scan# 798

Delta R.T. 0.00 min

Lab File: VF059646.D

Acq: 24 Jul 2018 22:36

Instrument :

MSVOA_F

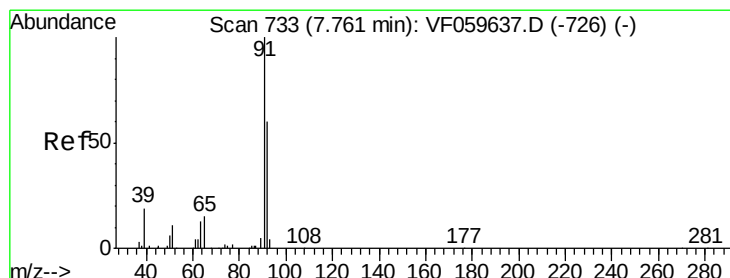
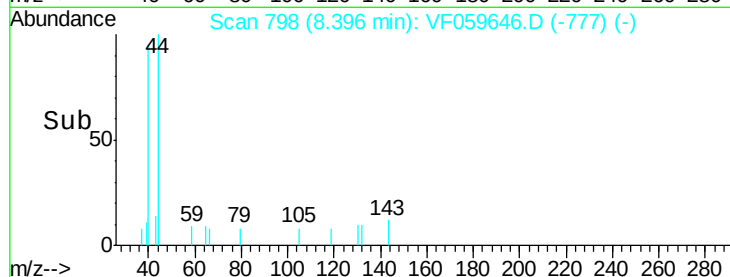
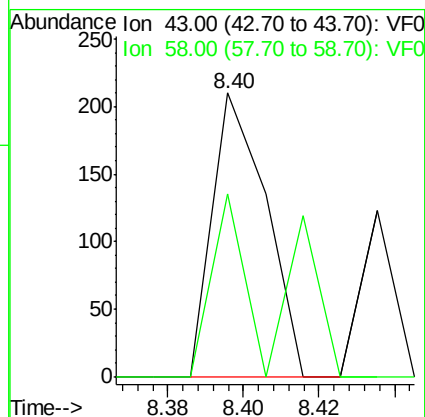
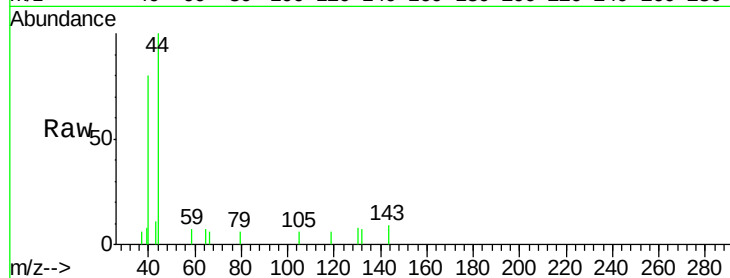
ClientSampled :

Tot Ion: 43 Resp: 204

Ion Ratio Lower Upper

43 100

58 64.3 27.3 40.9#



#52

Toluene

Concen: 97.192 ug/l

RT: 7.68 min Scan# 725

Delta R.T. -0.08 min

Lab File: VF059646.D

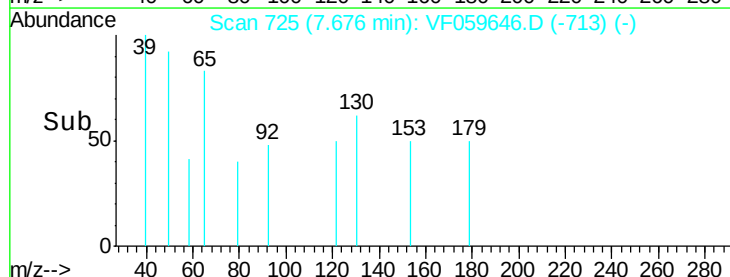
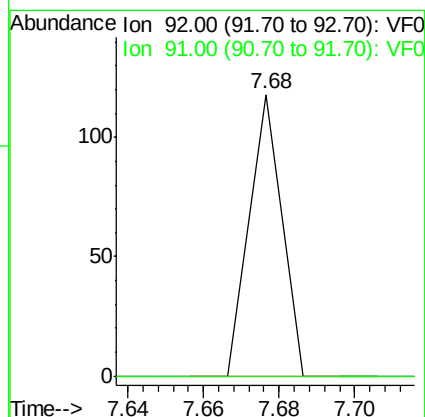
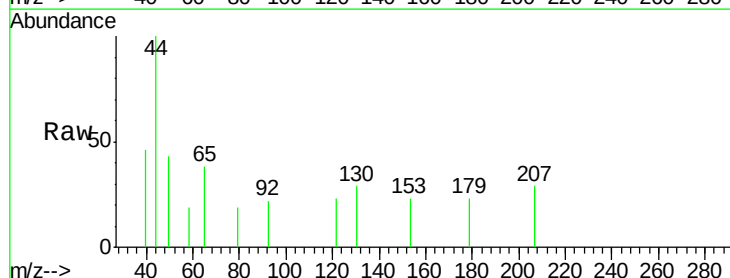
Acq: 24 Jul 2018 22:36

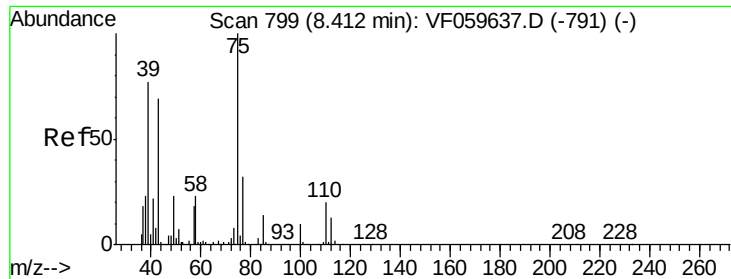
Tgt Ion: 92 Resp: 70

Ion Ratio Lower Upper

92 100

91 0.0 134.2 201.4#





#53

t-1,3-Dichloropropene

Concen: 466.986 ug/l

RT: 8.44 min Scan# 802

Delta R.T. 0.02 min

Lab File: VF059646.D

Acq: 24 Jul 2018 22:36

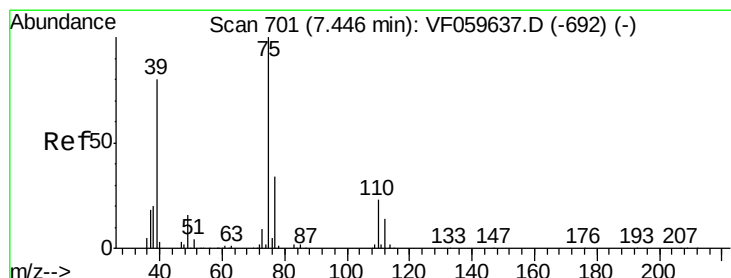
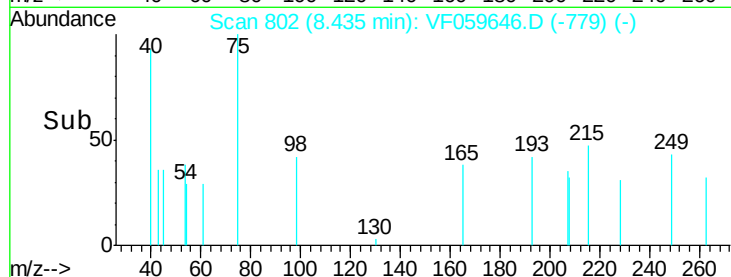
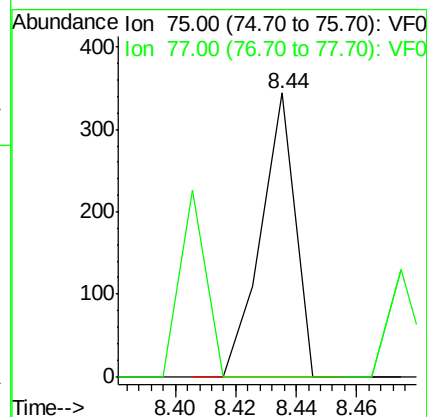
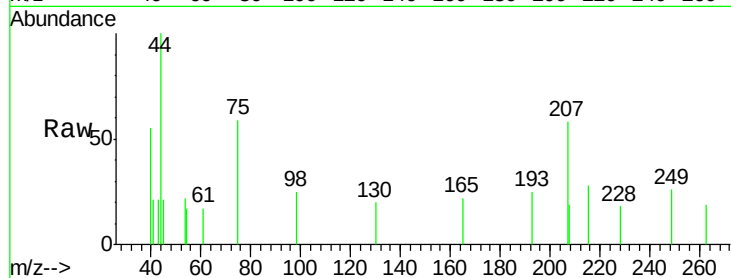
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 75 Resp: 269

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#



#54

cis-1,3-Dichloropropene

Concen: 118.246 ug/l

RT: 7.33 min Scan# 690

Delta R.T. -0.11 min

Lab File: VF059646.D

Acq: 24 Jul 2018 22:36

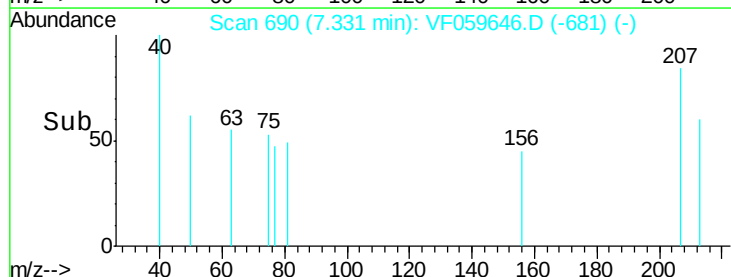
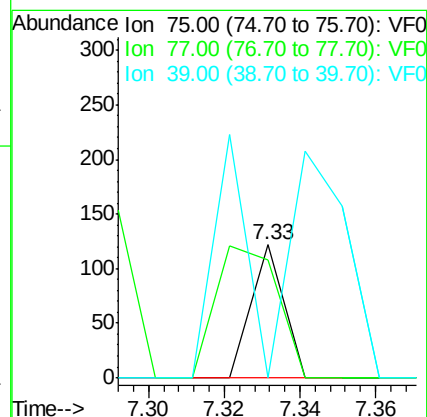
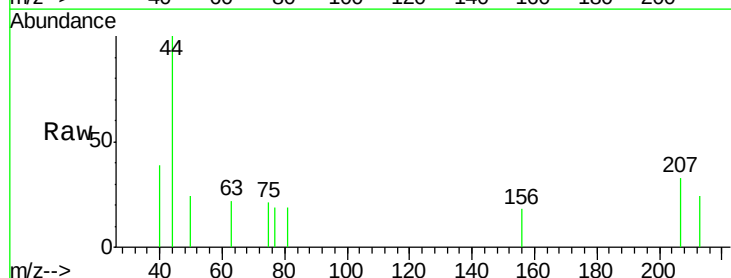
Tgt Ion: 75 Resp: 72

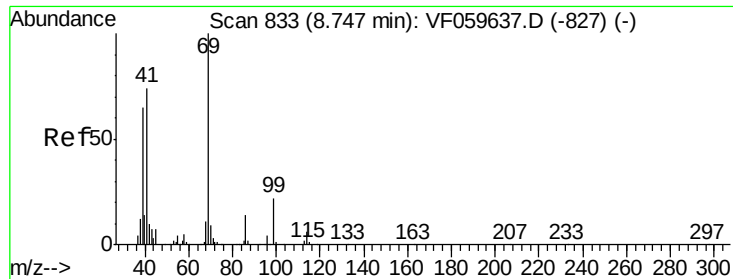
Ion Ratio Lower Upper

75 100

77 88.5 27.5 41.3#

39 0.0 64.4 96.6#





#56

Ethyl methacrylate

Concen: 442.759 ug/l

RT: 8.69 min Scan# 828

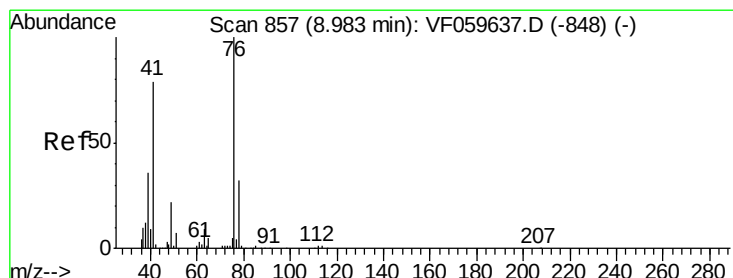
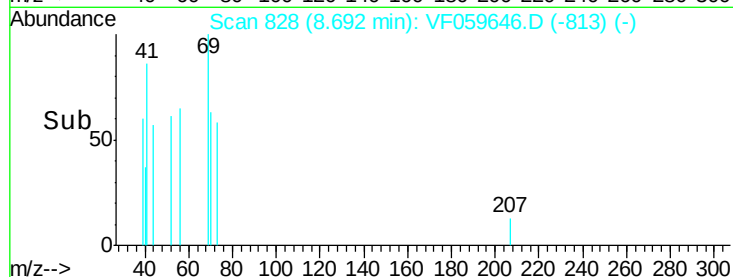
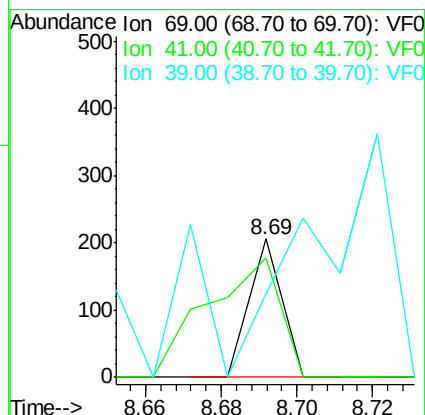
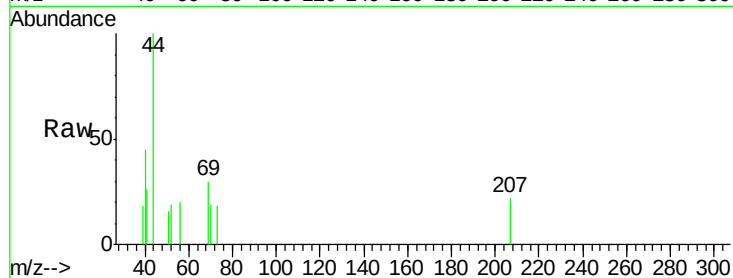
Delta R.T. -0.06 min

Lab File: VF059646.D

Acq: 24 Jul 2018 22:36

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:	69	Resp:	122
Ion	Ratio	Lower	Upper
69	100		
41	86.4	59.1	88.7
39	60.2	52.4	78.6



#57

1,3-Dichloropropane

Concen: 181.277 ug/l

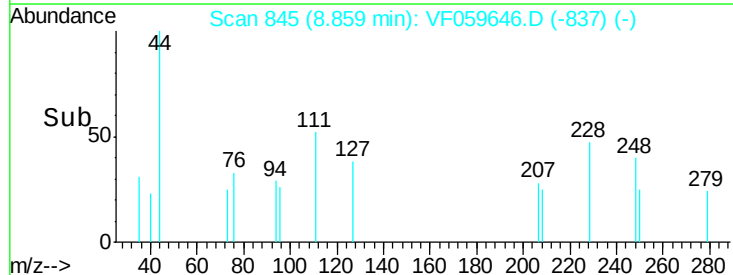
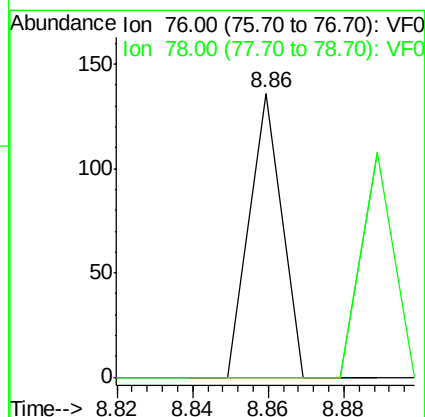
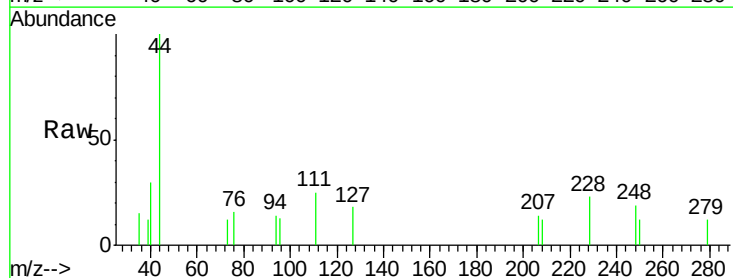
RT: 8.86 min Scan# 845

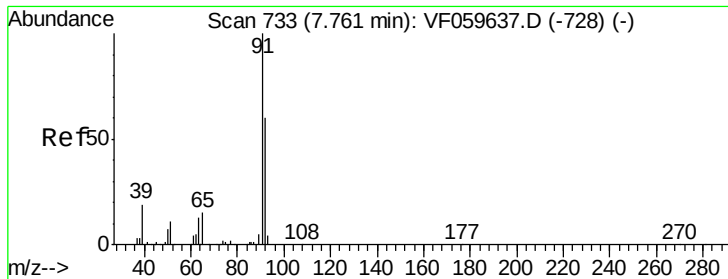
Delta R.T. -0.12 min

Lab File: VF059646.D

Acq: 24 Jul 2018 22:36

Tgt Ion:	76	Resp:	80
Ion	Ratio	Lower	Upper
76	100		
78	0.0	25.5	38.3#





#58

2-Chloroethyl Vinyl ether

Concen: 1837.796 ug/l

RT: 7.63 min Scan# 720

Delta R.T. -0.13 min

Lab File: VF059646.D

Acq: 24 Jul 2018 22:36

Instrument :

MSVOA_F

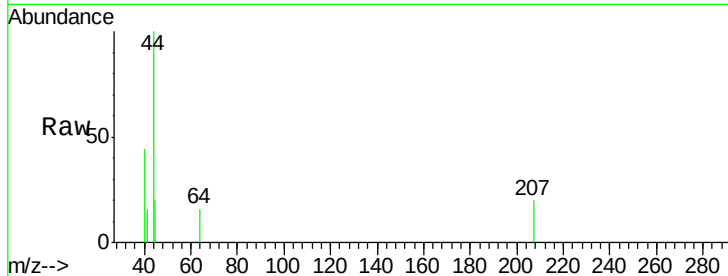
ClientSampleId :

Tot Ion: 63 Resp: 65

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

7.63

120

100

80

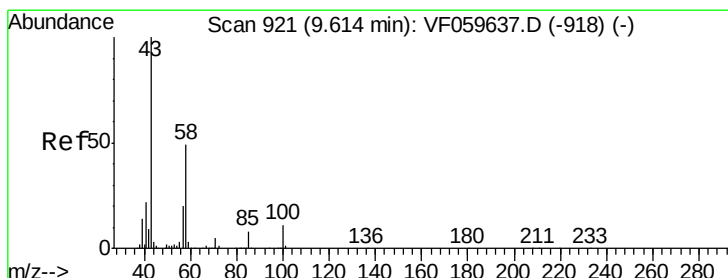
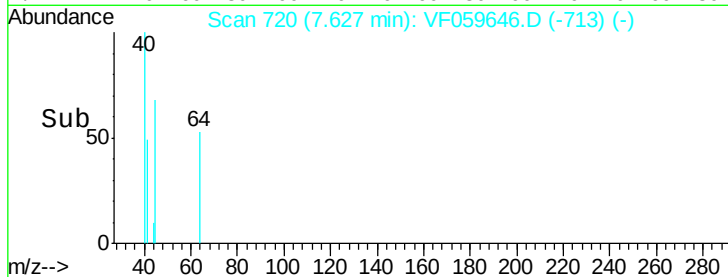
60

40

20

0

Time-->



#59

2-Hexanone

Concen: 1263.989 ug/l

RT: 9.65 min Scan# 925

Delta R.T. 0.03 min

Lab File: VF059646.D

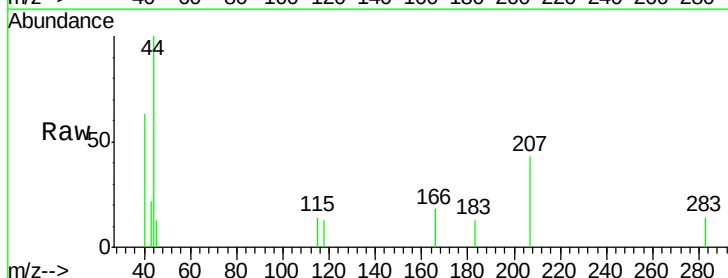
Acq: 24 Jul 2018 22:36

Tgt Ion: 43 Resp: 195

Ion Ratio Lower Upper

43 100

58 0.0 23.6 71.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.65

200

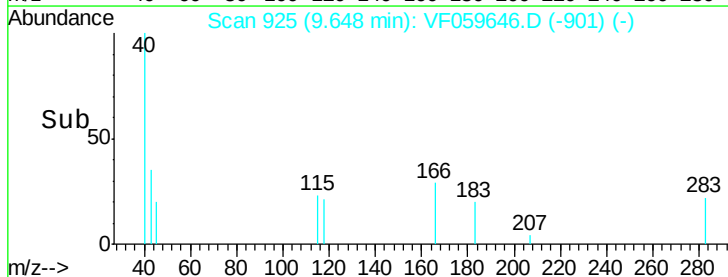
150

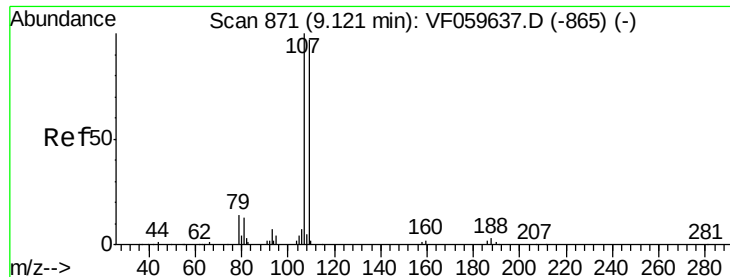
100

50

0

Time-->





#61

1,2-Dibromoethane

Concen: 247.810 ug/l

RT: 9.26 min Scan# 886

Delta R.T. 0.14 min

Lab File: VF059646.D

Acq: 24 Jul 2018 22:36

Instrument :

MSVOA_F

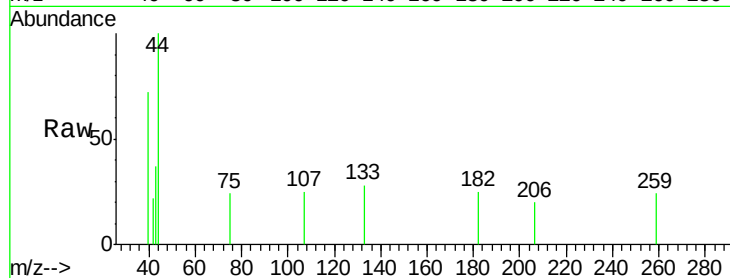
ClientSampled :

Tot Ion:107 Resp: 78

Ion Ratio Lower Upper

107 100

109 0.0 77.3 115.9#



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

9.26

150

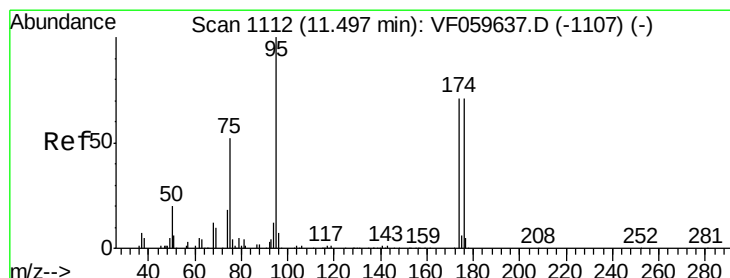
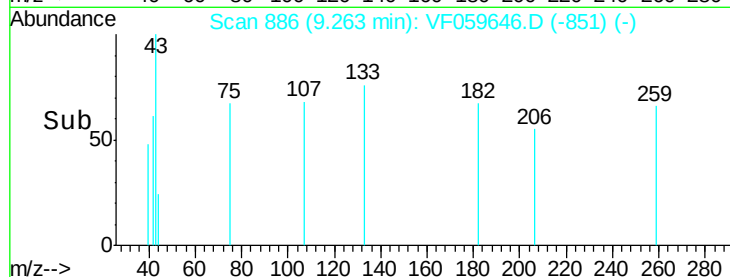
100

50

0

9.24 9.26 9.28

Time-->



#62

4-Bromofluorobenzene

Concen: 123.628 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VF059646.D

Acq: 24 Jul 2018 22:36

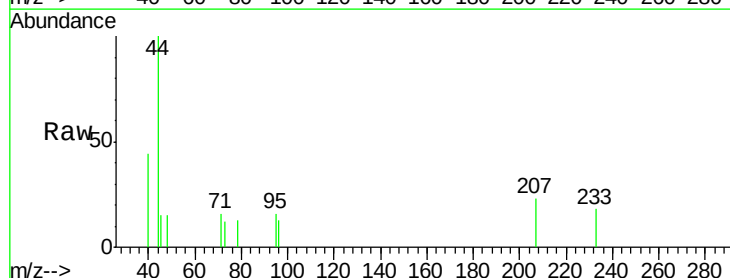
Tgt Ion: 95 Resp: 85

Ion Ratio Lower Upper

95 100

174 0.0 0.0 141.8

176 0.0 0.0 142.0



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

200

150

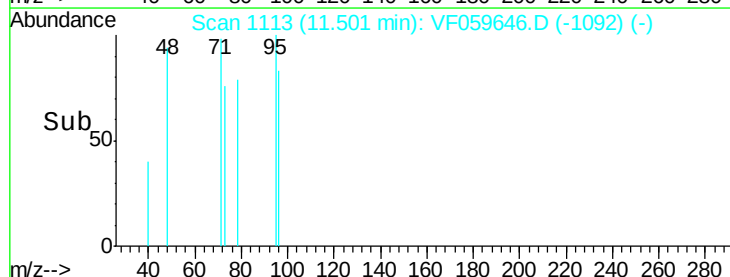
100

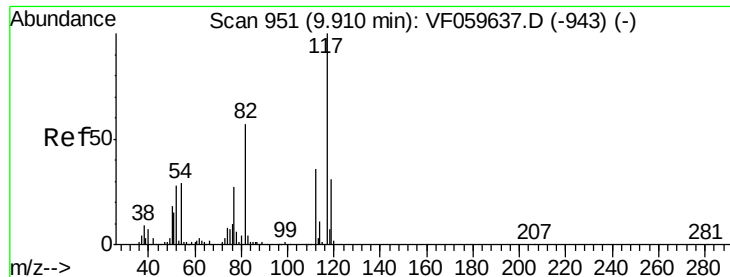
50

0

11.48 11.50 11.52

Time-->

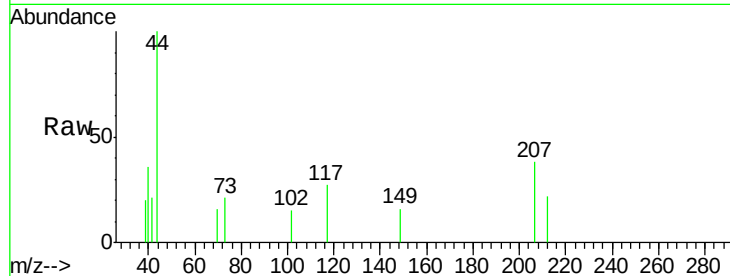




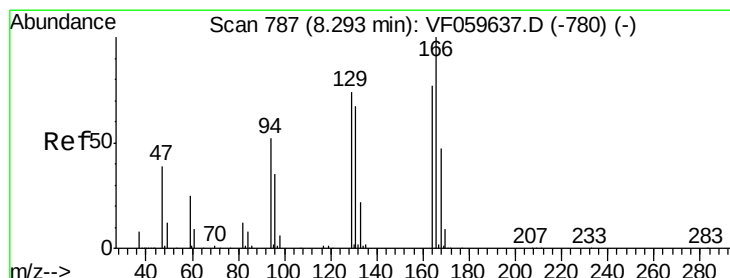
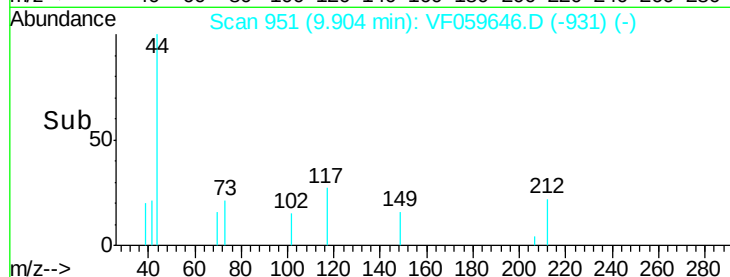
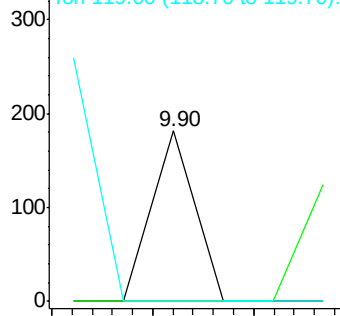
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.90 min Scan# 951
Delta R.T. -0.01 min
Lab File: VF059646.D
Acq: 24 Jul 2018 22:36

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	0.0	45.9	68.9#
119	0.0	25.1	37.7#

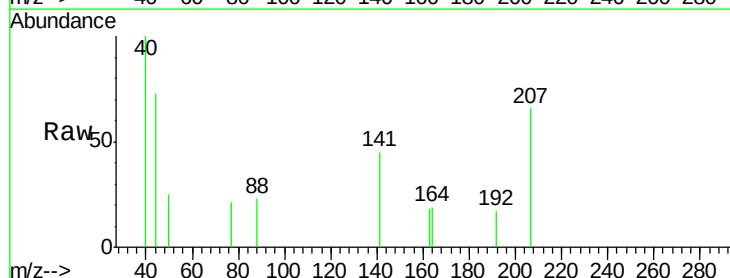


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

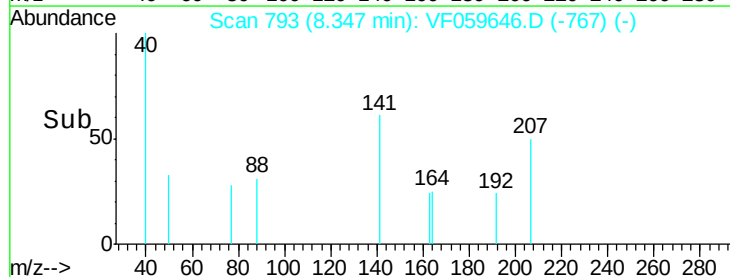
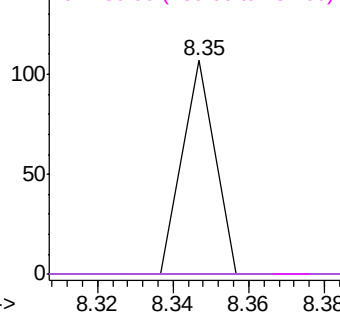


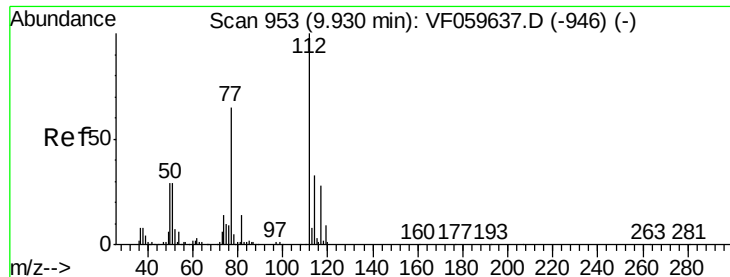
#64
Tetrachloroethene
Concen: 74.304 ug/l
RT: 8.35 min Scan# 793
Delta R.T. 0.05 min
Lab File: VF059646.D
Acq: 24 Jul 2018 22:36

Tgt Ion	Ratio	Lower	Upper
164	100		
166	0.0	103.3	154.9#
129	0.0	76.2	114.2#
131	0.0	69.1	103.7#



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V





#65

Chlorobenzene

Concen: 31.276 ug/l

RT: 10.06 min Scan# 967

Delta R.T. 0.13 min

Lab File: VF059646.D

Acq: 24 Jul 2018 22:36

Instrument :

MSVOA_F

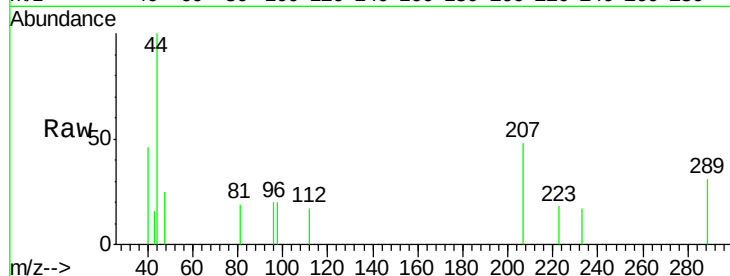
ClientSampleId :

Tot Ion:112 Resp: 62

Ion Ratio Lower Upper

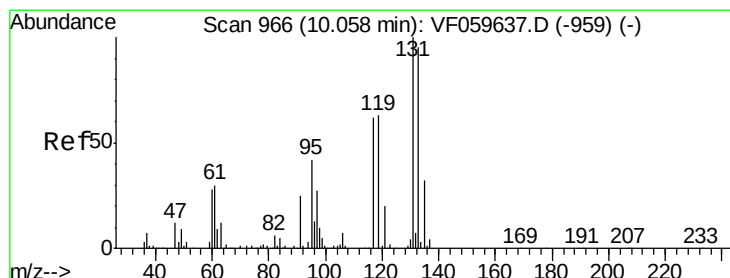
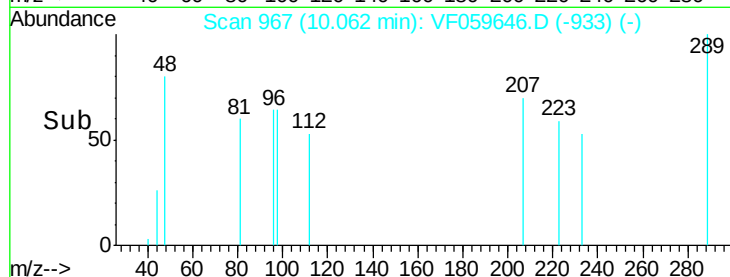
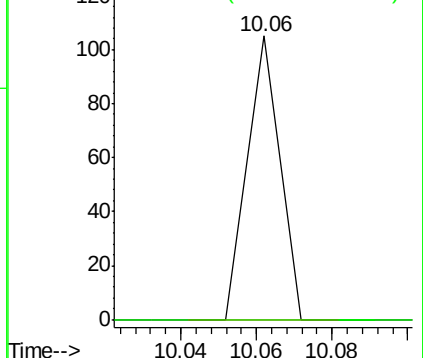
112 100

114 0.0 26.4 39.6#



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 77.262 ug/l

RT: 10.11 min Scan# 972

Delta R.T. 0.05 min

Lab File: VF059646.D

Acq: 24 Jul 2018 22:36

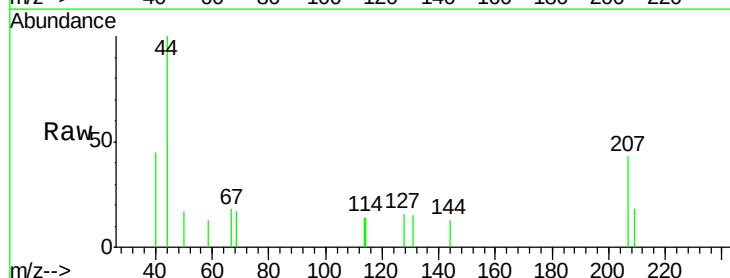
Tgt Ion:131 Resp: 71

Ion Ratio Lower Upper

131 100

133 0.0 47.5 142.6#

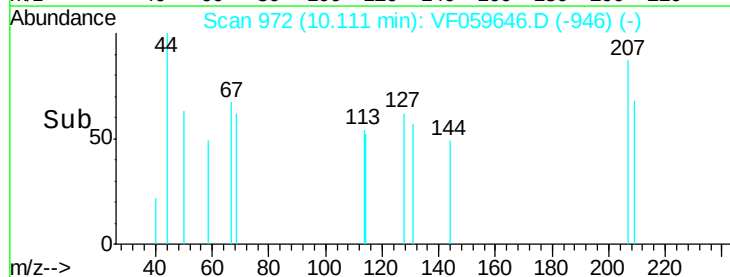
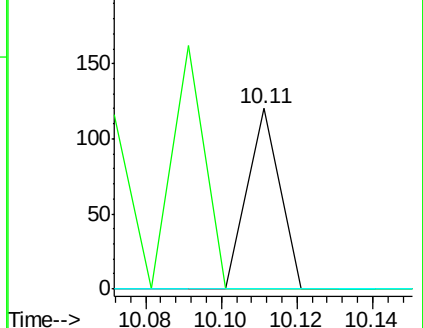
119 0.0 31.8 95.4#

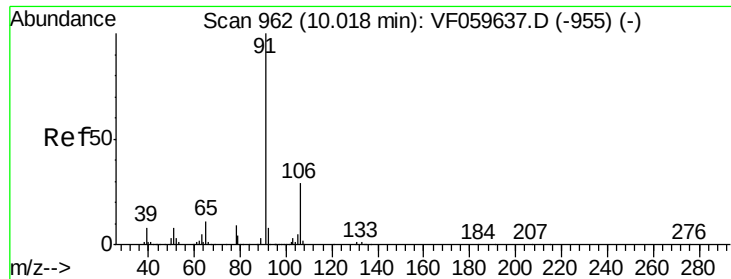


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#67

Ethyl Benzene

Concen: 20.212 ug/l

RT: 10.01 min Scan# 962

Delta R.T. -0.01 min

Lab File: VF059646.D

Acq: 24 Jul 2018 22:36

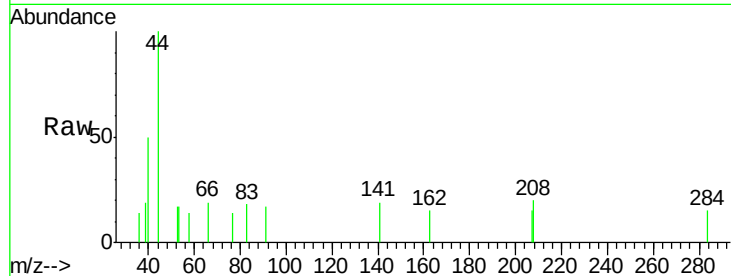
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 91 Resp: 72

Ion Ratio Lower Upper

91 100

106 0.0 23.4 35.0#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

10.01

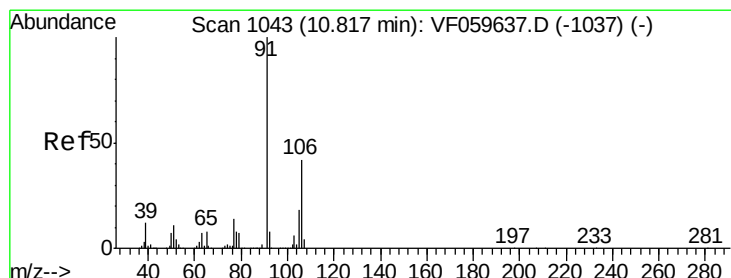
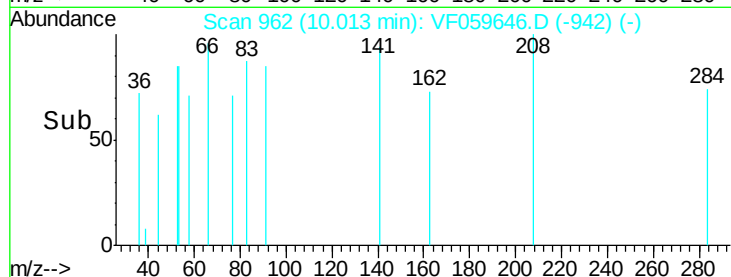
100

50

0

9.98 10.00 10.02 10.04

Time-->



#69

o-Xylene

Concen: 59.782 ug/l

RT: 10.81 min Scan# 1043

Delta R.T. -0.01 min

Lab File: VF059646.D

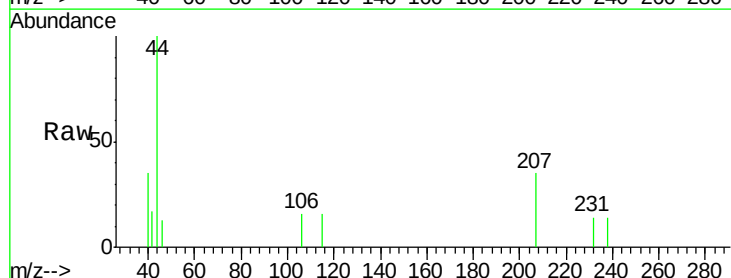
Acq: 24 Jul 2018 22:36

Tgt Ion: 106 Resp: 81

Ion Ratio Lower Upper

106 100

91 0.0 119.3 357.9#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

10.81

150

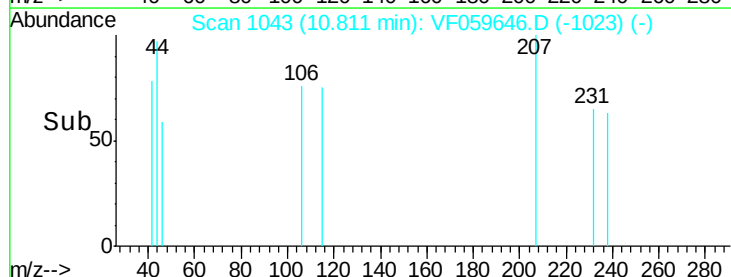
100

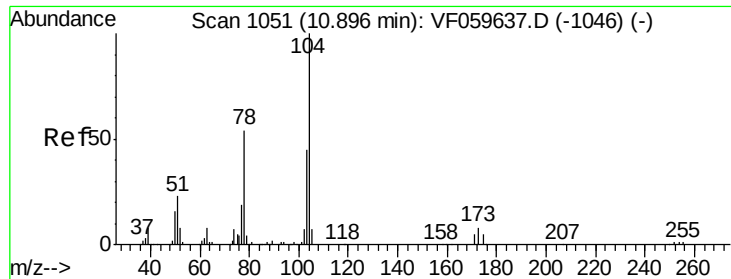
50

0

10.78 10.80 10.82 10.84

Time-->





#70

Stvrene

Concen: 55.196 ug/l

RT: 11.05 min Scan# 1067

Delta R.T. 0.15 min

Lab File: VF059646.D

Acq: 24 Jul 2018 22:36

Instrument :

MSVOA_F

ClientSampled :

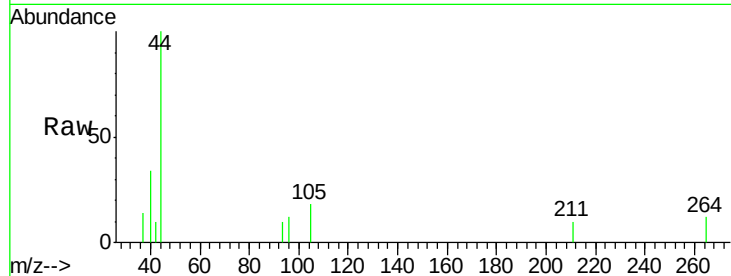
Tot Ion:104 Resp: 108

Ion Ratio Lower Upper

104 100

78 0.0 43.4 65.2#

103 0.0 36.7 55.1#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VF0

Ion 103.00 (102.70 to 103.70): V

11.05

250

200

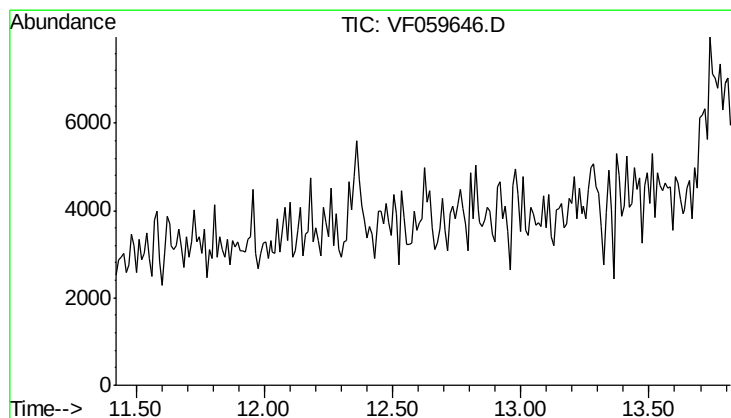
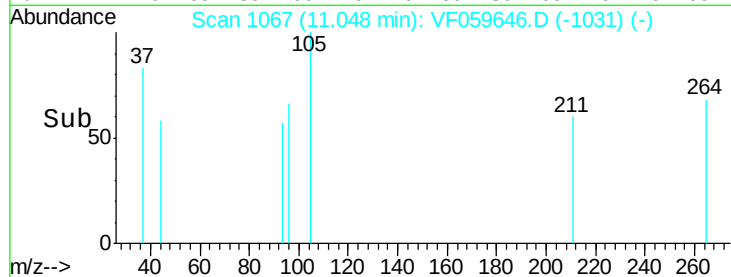
150

100

50

0

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 0.000 ug/l

Expected RT: 12.62 min

Lab File: VF059646.D

Acq: 24 Jul 2018 22:36

Tgt Ion: 152

Sig Exp Ratio

152 100

115 64.1

150 156.6

