

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF062218\
 Data File : VF059293.D
 Acq On : 23 Jun 2018 00:15
 Operator : VA/AP
 Sample : J3605-03
 Misc : 6.14g/5mL/MSVOA-F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 S-3(5-5.5)

Quant Time: Jun 23 04:39:15 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062118S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 22 05:22:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	184989	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.76	114	288252	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	291772	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	176274	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	136951	51.57	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.14%	
35) Dibromofluoromethane	4.27	113	76	0.03	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	0.06%	
50) Toluene-d8	7.70	98	284786	46.17	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.34%	
62) 4-Bromofluorobenzene	11.51	95	146737	42.90	ug/l	0.00
Spiked Amount 50.000			Recovery	=	85.80%	

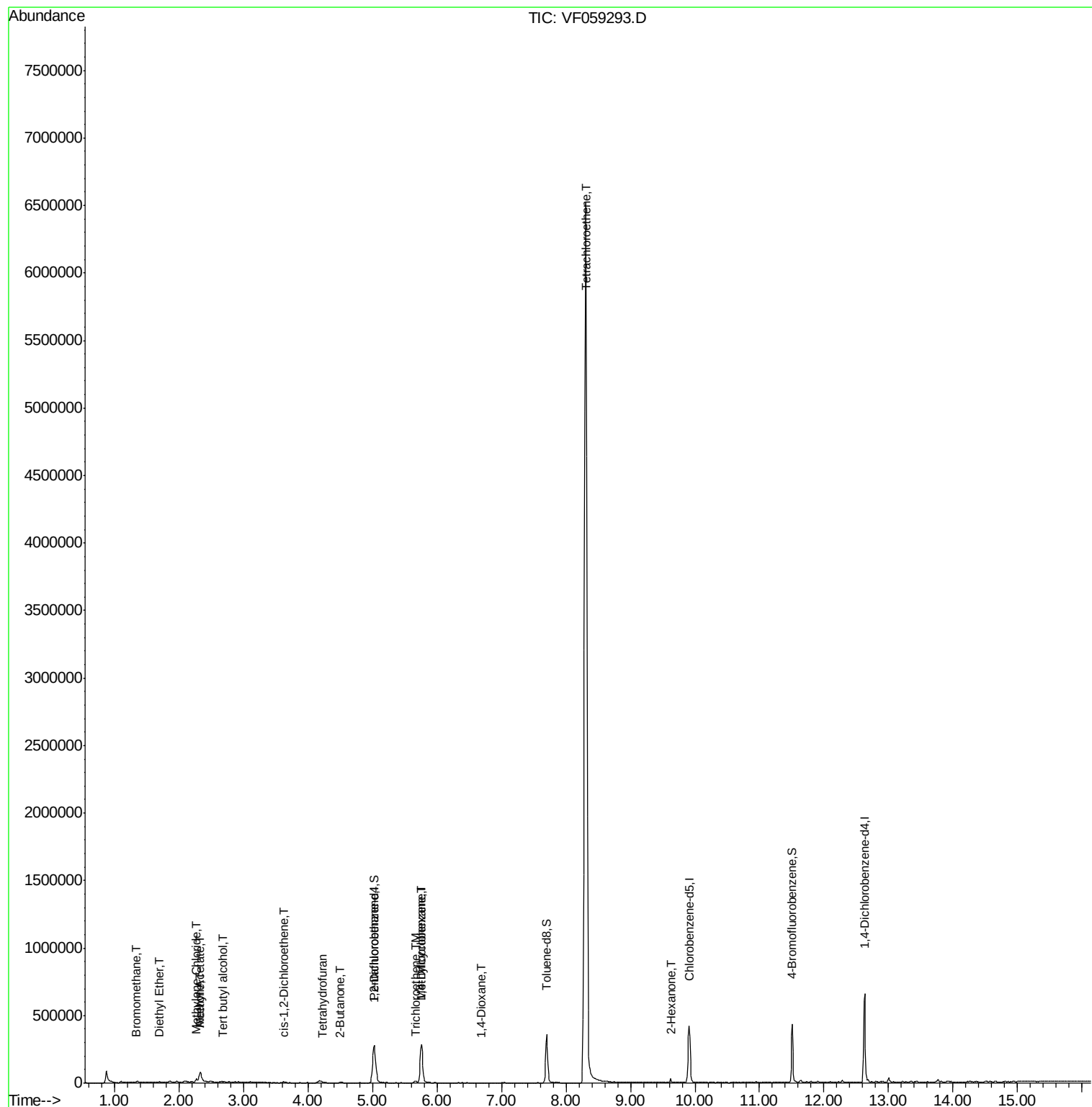
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.34	94	581	2.314	ug/l	81
8) Diethyl Ether	1.70	74	786	1.326	ug/l	78
11) Tert butyl alcohol	2.68	59	1917	12.389	ug/l #	1
13) Acrolein	2.02	56	93	Below Cal		84
15) Acrylonitrile	3.08	53	293	Below Cal	#	10
16) Acetone	2.33	43	110797	176.544	ug/l	99
18) Methyl Acetate	2.33	43	106861	90.311	ug/l #	66
20) Methylene Chloride	2.27	84	8729	5.139	ug/l	95
25) 2-Butanone	4.51	43	5012	5.987	ug/l #	70
27) cis-1,2-Dichloroethene	3.63	96	4354	2.094	ug/l	86
28) Bromochloromethane	3.88	49	69	Below Cal	#	8
29) Tetrahydrofuran	4.24	42	443	1.179	ug/l #	53
39) Methylcyclohexane	5.76	83	5451	2.011	ug/l #	28
44) Trichloroethene	5.67	130	6353	2.852	ug/l	68
49) 1,4-Dioxane	6.68	88	79	9.072	ug/l #	17
59) 2-Hexanone	9.62	43	2725	2.032	ug/l	79
64) Tetrachloroethene	8.31	164	1982874	884.890	ug/l	90

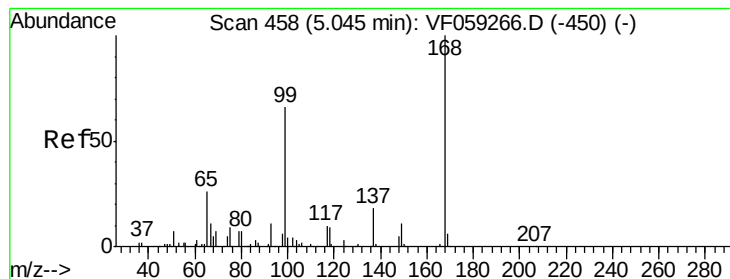
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_F\DATA\VF062218\
Data File : VF059293.D
Acq On : 23 Jun 2018 00:15
Operator : VA/AP
Sample : J3605-03
Misc : 6.14g/5mL/MSVOA-F/SOIL
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
S-3(5-5.5)

Quant Time: Jun 23 04:39:15 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F062118S.M
Quant Title : SW846 8260
QLast Update : Fri Jun 22 05:22:31 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 456

Delta R.T. -0.01 min

Lab File: VF059293.D

Acq: 23 Jun 2018 00:15

Instrument :

MSVOA_F

ClientSampleId :

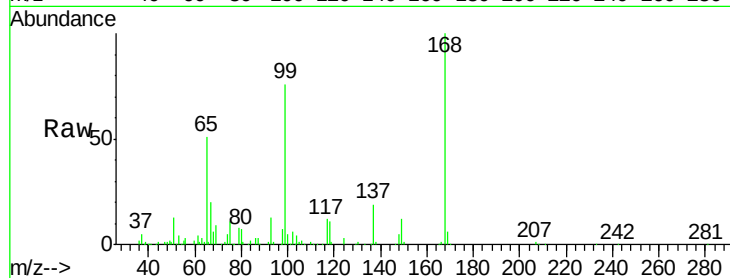
S-3(5-5.5)

Tgt Ion:168 Resp: 184989

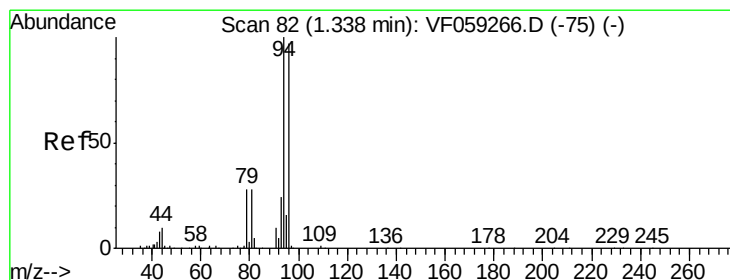
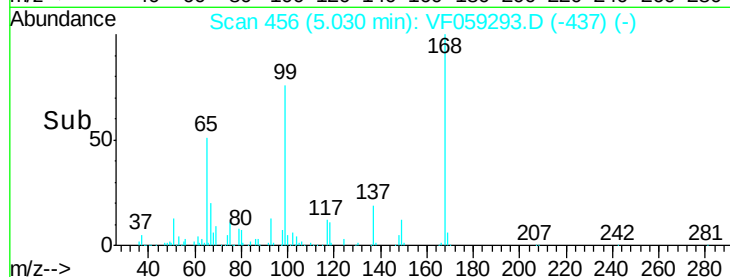
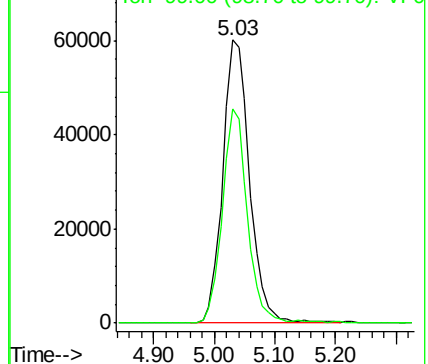
Ion Ratio Lower Upper

168 100

99 75.9 52.6 78.8



Abundance Ion 168.00 (167.70 to 168.70): VF0



#5

Bromomethane

Concen: 2.314 ug/l

RT: 1.34 min Scan# 82

Delta R.T. 0.01 min

Lab File: VF059293.D

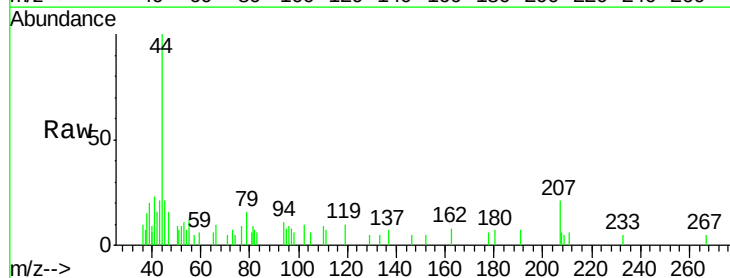
Acq: 23 Jun 2018 00:15

Tgt Ion: 94 Resp: 581

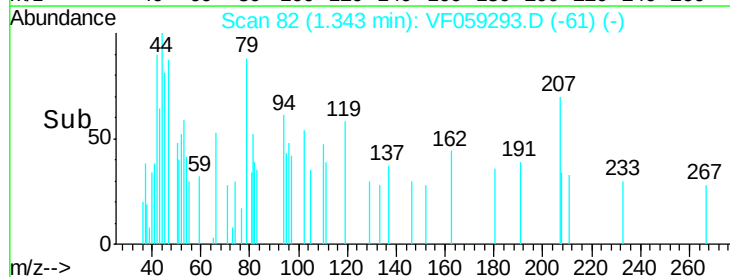
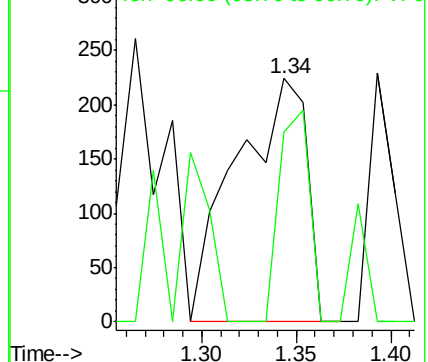
Ion Ratio Lower Upper

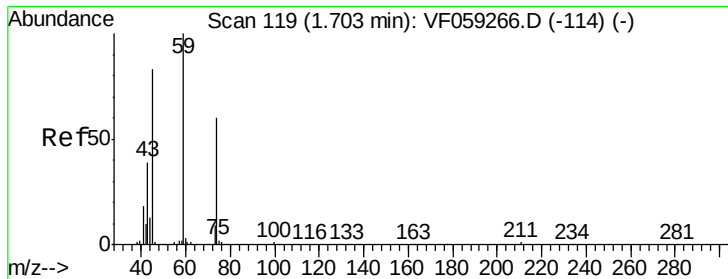
94 100

96 78.1 77.7 116.5



Abundance Ion 94.00 (93.70 to 94.70): VF0





#8

Diethyl Ether

Concen: 1.326 ug/l

RT: 1.70 min Scan# 118

Delta R.T. -0.00 min

Lab File: VF059293.D

Acq: 23 Jun 2018 00:15

Instrument :

MSVOA_F

ClientSampleId :

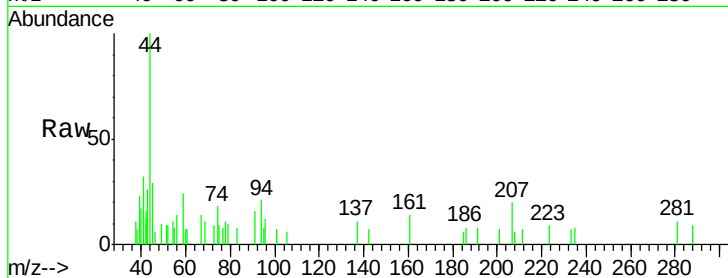
S-3(5-5.5)

Tgt Ion: 74 Resp: 786

Ion Ratio Lower Upper

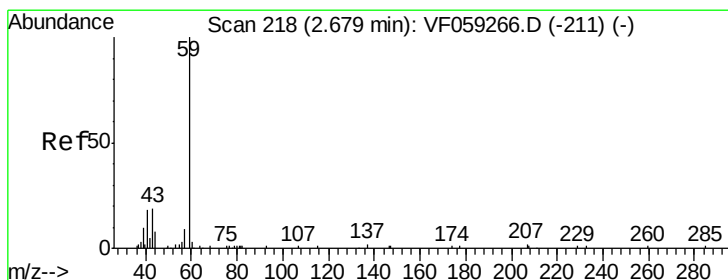
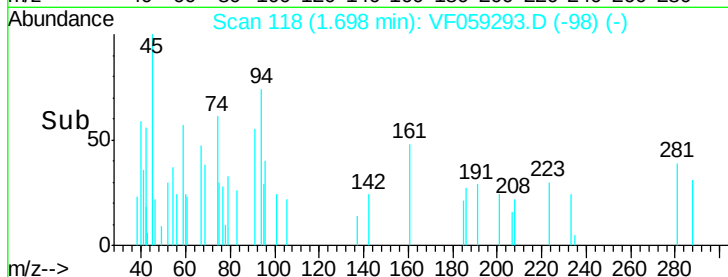
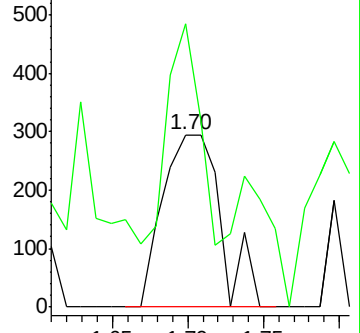
74 100

45 164.6 69.2 207.4



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



#11

Tert butyl alcohol

Concen: 12.389 ug/l

RT: 2.68 min Scan# 218

Delta R.T. 0.01 min

Lab File: VF059293.D

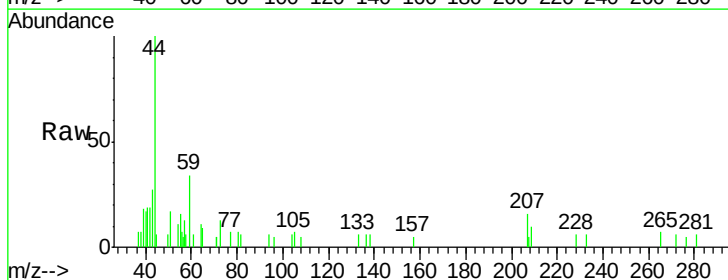
Acq: 23 Jun 2018 00:15

Tgt Ion: 59 Resp: 1917

Ion Ratio Lower Upper

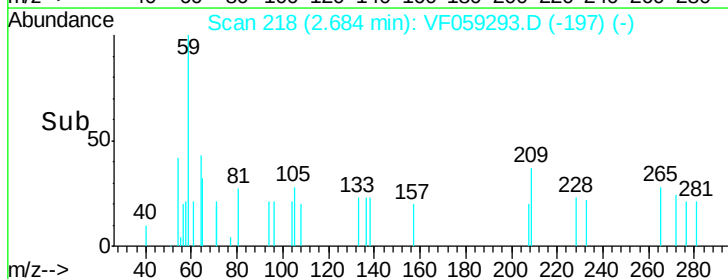
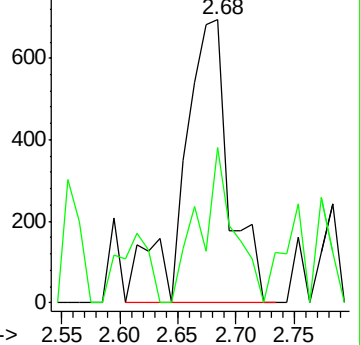
59 100

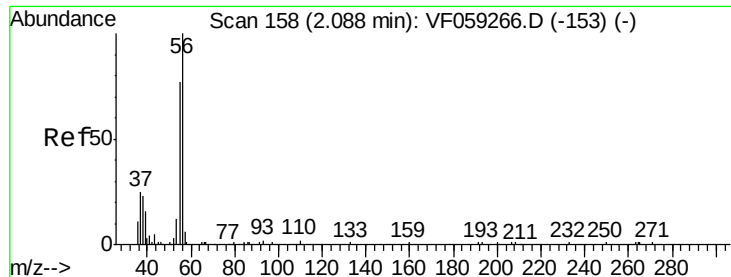
57 54.9 9.2 13.8#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: Below Cal

RT: 2.02 min Scan# 151

Delta R.T. -0.06 min

Lab File: VF059293.D

Acq: 23 Jun 2018 00:15

Instrument :

MSVOA_F

ClientSampleId :

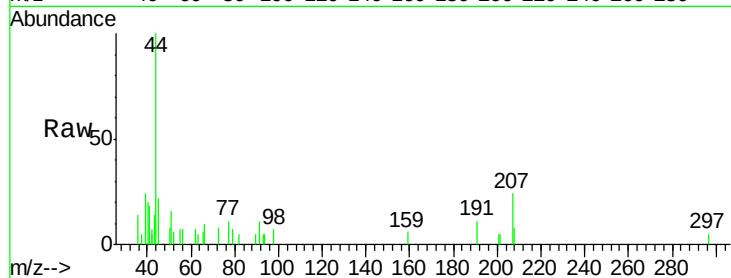
S-3(5-5.5)

Tgt Ion: 56 Resp: 93

Ion Ratio Lower Upper

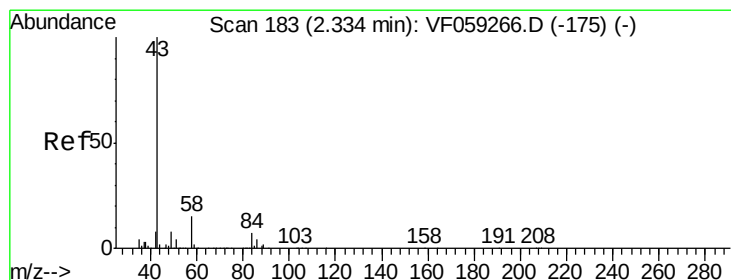
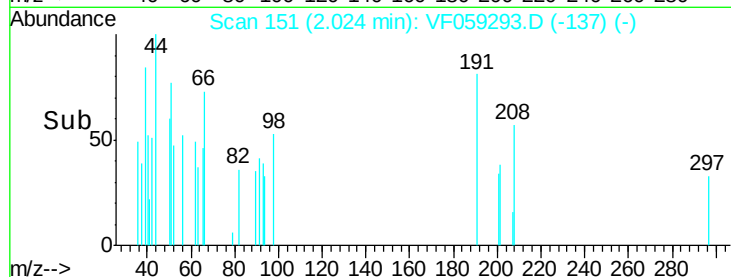
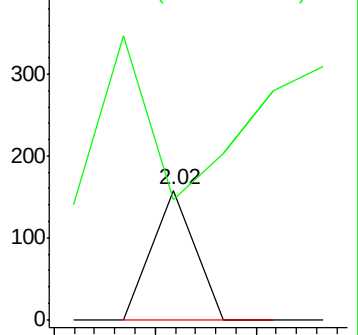
56 100

55 92.4 63.0 94.6



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#16

Acetone

Concen: 176.544 ug/l

RT: 2.33 min Scan# 182

Delta R.T. -0.00 min

Lab File: VF059293.D

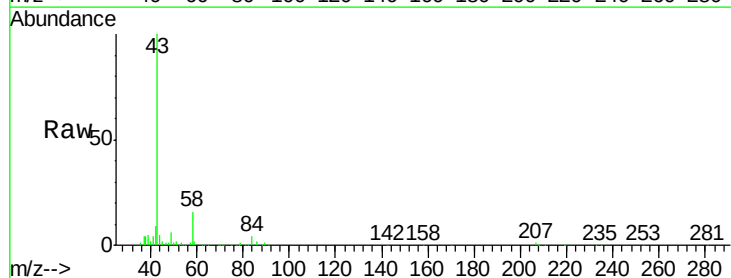
Acq: 23 Jun 2018 00:15

Tgt Ion: 43 Resp: 110797

Ion Ratio Lower Upper

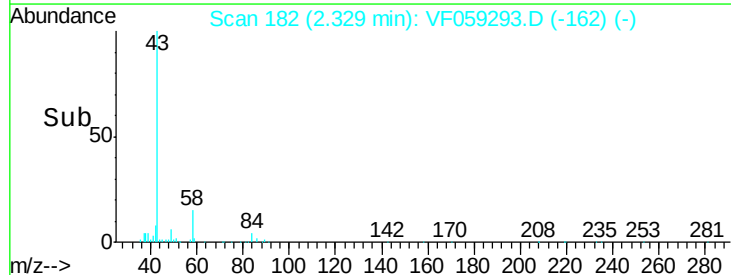
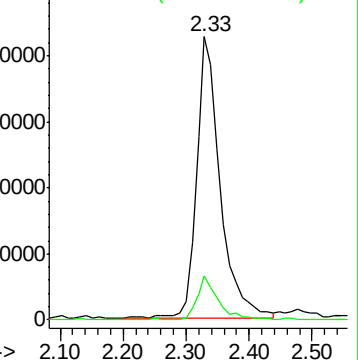
43 100

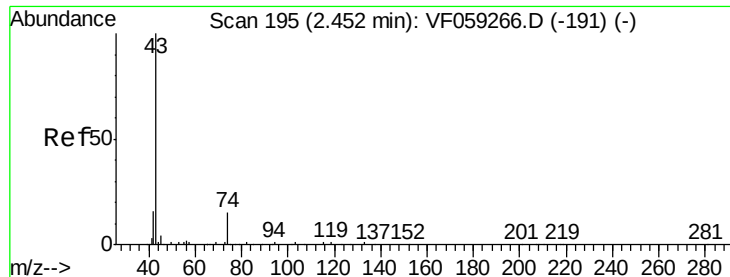
58 15.6 12.1 18.1



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

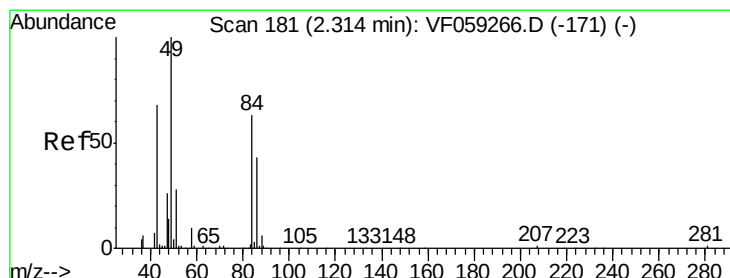
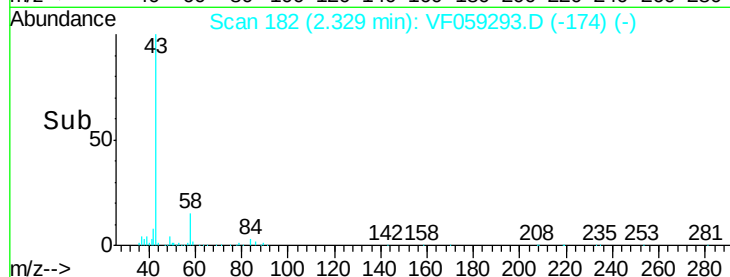
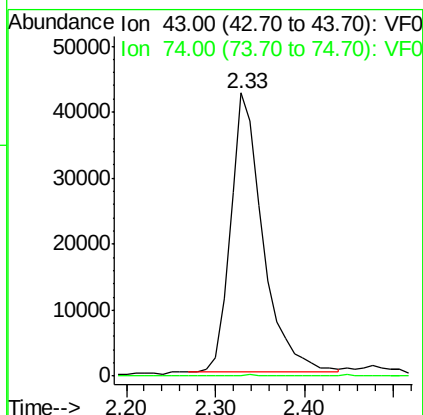
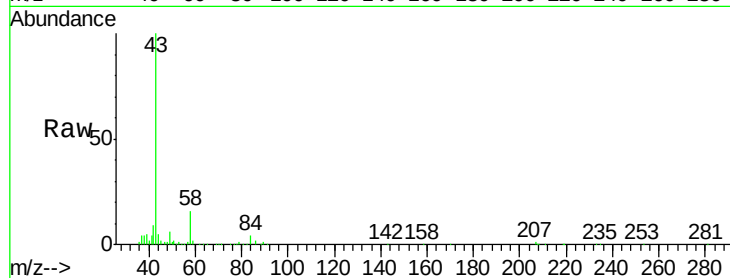




#18
Methyl Acetate
Concen: 90.311 ug/l
RT: 2.33 min Scan# 182
Delta R.T. -0.12 min
Lab File: VF059293.D
Acq: 23 Jun 2018 00:15

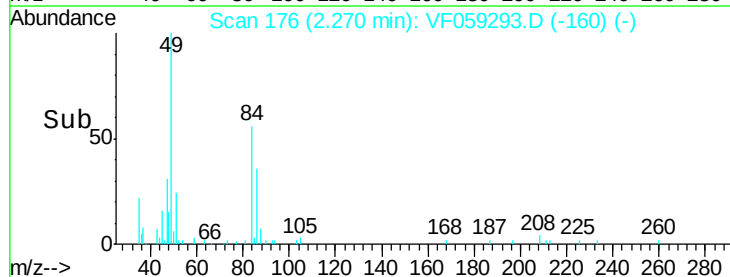
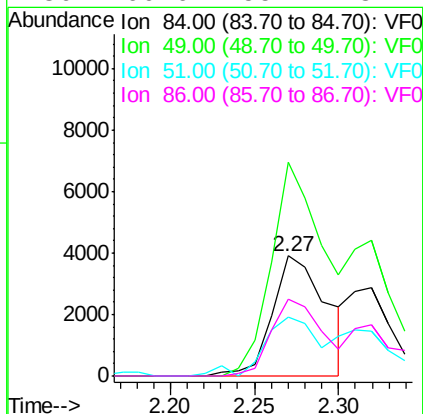
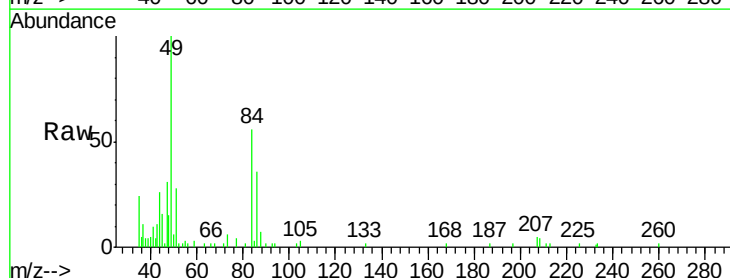
Instrument :
MSVOA_F
ClientSampleId :
S-3(5-5.5)

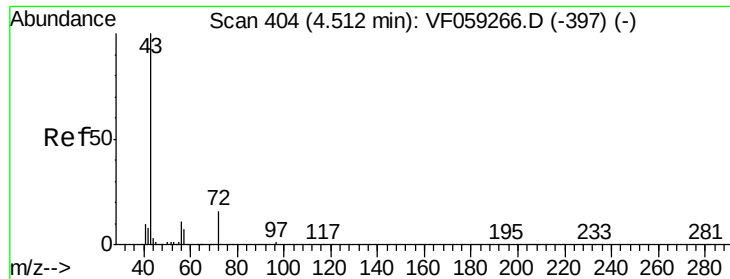
Tgt Ion: 43 Resp: 106861
Ion Ratio Lower Upper
43 100
74 0.0 11.0 16.4#



#20
Methylene Chloride
Concen: 5.139 ug/l
RT: 2.27 min Scan# 176
Delta R.T. -0.04 min
Lab File: VF059293.D
Acq: 23 Jun 2018 00:15

Tgt Ion: 84 Resp: 8729
Ion Ratio Lower Upper
84 100
49 168.7 130.0 195.0
51 46.5 36.6 55.0
86 60.6 55.1 82.7





#25

2-Butanone

Concen: 5.987 ug/l

RT: 4.51 min Scan# 403

Delta R.T. -0.00 min

Lab File: VF059293.D

Acq: 23 Jun 2018 00:15

Instrument :

MSVOA_F

ClientSampled :

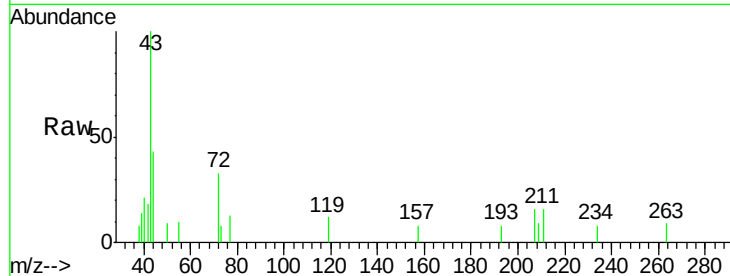
S-3(5-5.5)

Tgt Ion: 43 Resp: 5012

Ion Ratio Lower Upper

43 100

72 32.6 15.2 22.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

1500

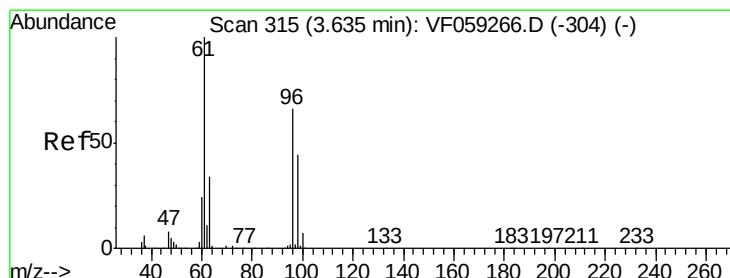
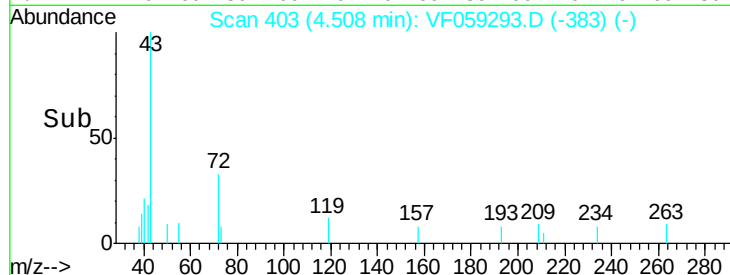
1000

500

0

4.40 4.45 4.50 4.55

Time-->



#27

cis-1,2-Dichloroethene

Concen: 2.094 ug/l

RT: 3.63 min Scan# 314

Delta R.T. -0.00 min

Lab File: VF059293.D

Acq: 23 Jun 2018 00:15

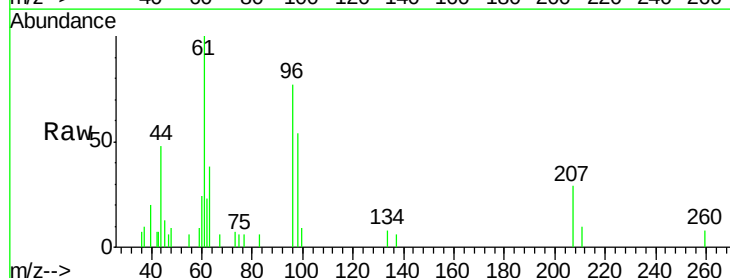
Tgt Ion: 96 Resp: 4354

Ion Ratio Lower Upper

96 100

61 129.4 0.0 305.0

98 70.5 0.0 134.0



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

3000

2500

2000

1500

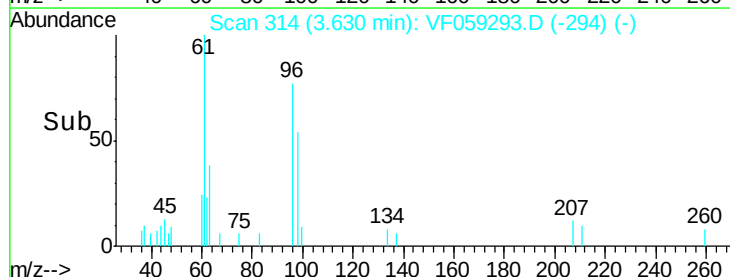
1000

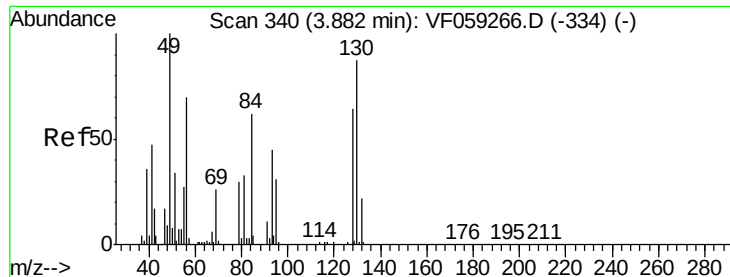
500

0

3.55 3.60 3.65 3.70

Time-->





#28

Bromochloromethane

Concen: Below Cal

RT: 3.88 min Scan# 339

Delta R.T. -0.00 min

Lab File: VF059293.D

Acq: 23 Jun 2018 00:15

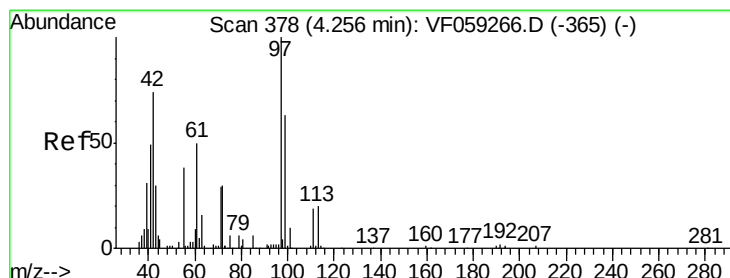
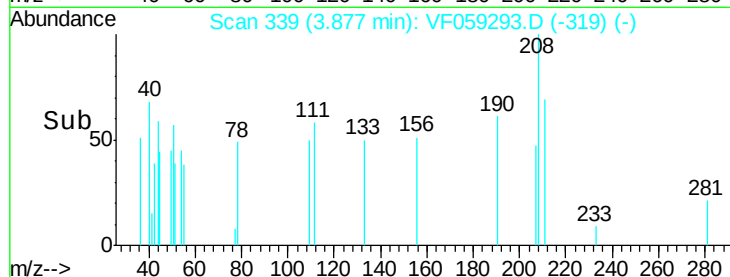
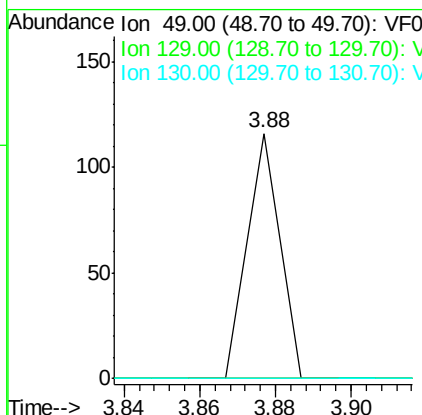
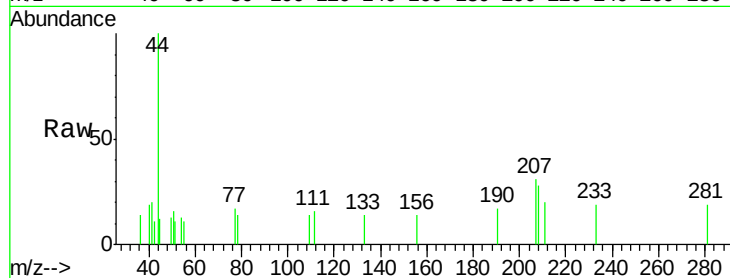
Instrument :

MSVOA_F

ClientSampleId :

S-3(5-5.5)

Tgt Ion:	49	Resp:	69
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	0.0	69.4	104.2#



#29

Tetrahydrofuran

Concen: 1.179 ug/l

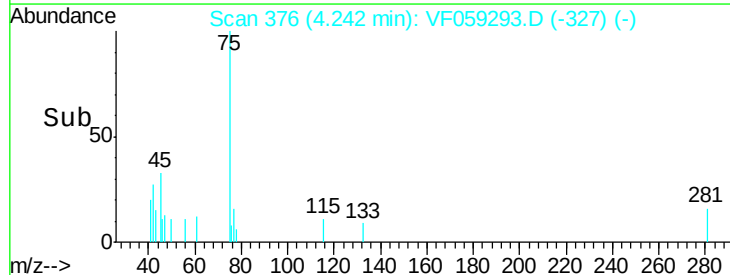
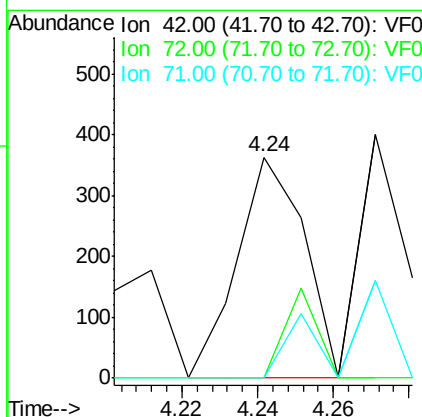
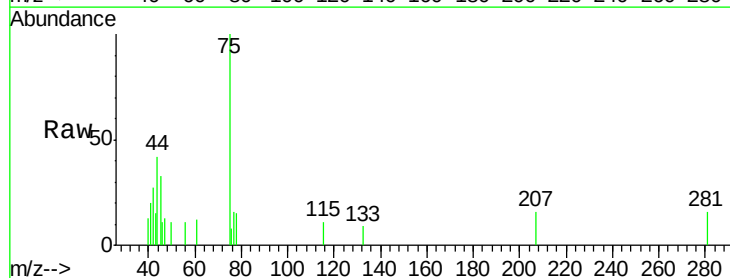
RT: 4.24 min Scan# 376

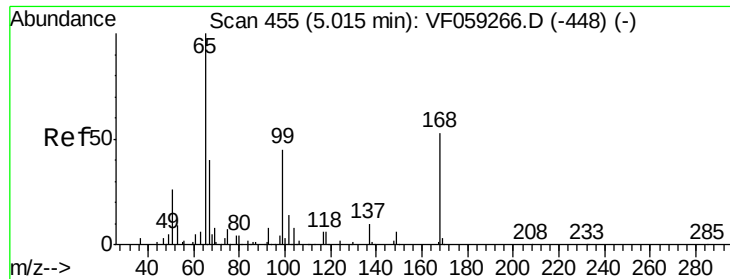
Delta R.T. -0.01 min

Lab File: VF059293.D

Acq: 23 Jun 2018 00:15

Tgt Ion:	42	Resp:	443
Ion	Ratio	Lower	Upper
42	100		
72	19.9	31.2	46.8#
71	0.0	30.2	45.2#

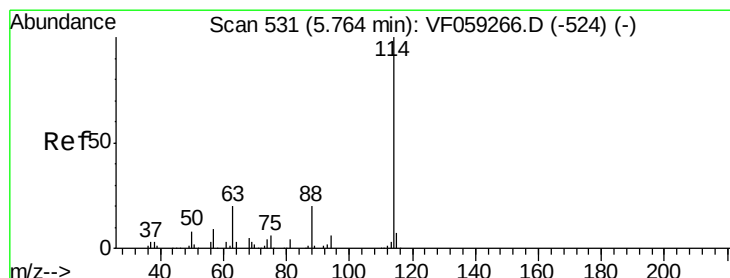
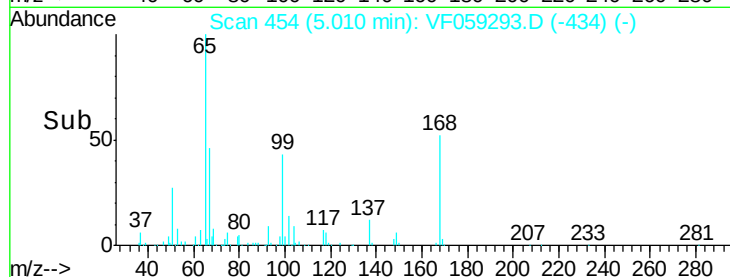
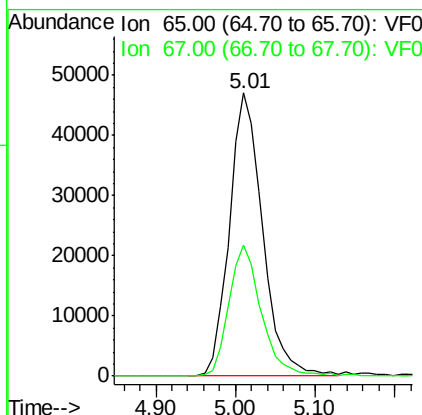
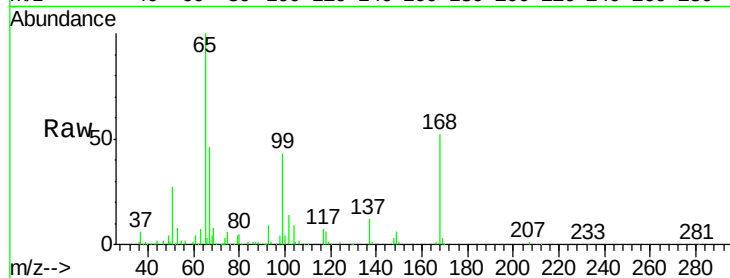




#33
 1,2-Dichloroethane-d4
 Concen: 51.575 ug/l
 RT: 5.01 min Scan# 454
 Delta R.T. -0.00 min
 Lab File: VF059293.D
 Acq: 23 Jun 2018 00:15

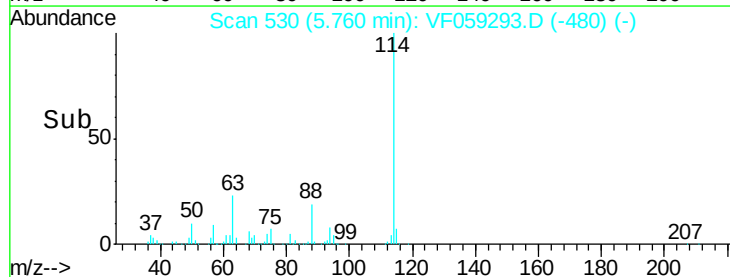
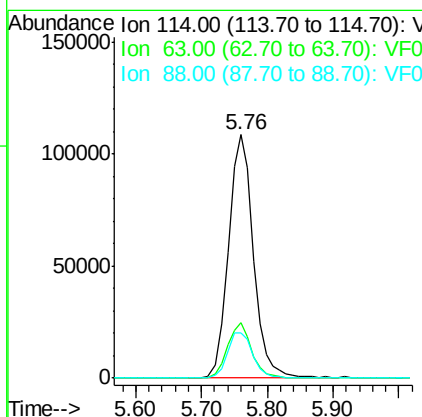
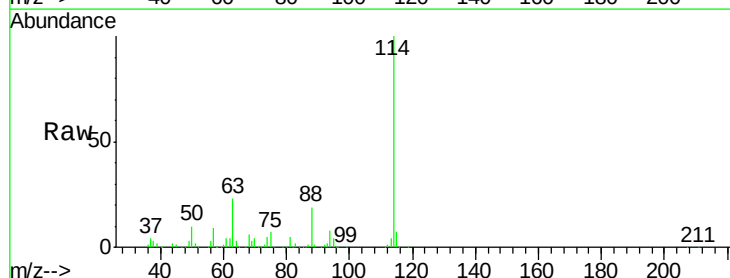
Instrument :
 MSVOA_F
 ClientSampled :
 S-3(5-5.5)

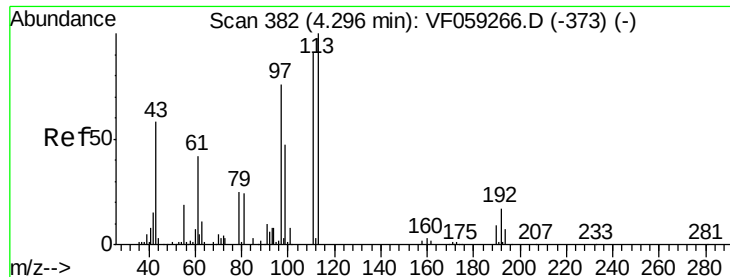
Tgt Ion: 65 Resp: 136951
 Ion Ratio Lower Upper
 65 100
 67 46.4 0.0 95.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.76 min Scan# 530
 Delta R.T. -0.00 min
 Lab File: VF059293.D
 Acq: 23 Jun 2018 00:15

Tgt Ion: 114 Resp: 288252
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 41.0
 88 18.6 0.0 39.6





#35

Dibromofluoromethane

Concen: 0.031 ug/l

RT: 4.27 min Scan# 379

Delta R.T. -0.02 min

Lab File: VF059293.D

Acq: 23 Jun 2018 00:15

Instrument :

MSVOA_F

ClientSampleId :

S-3(5-5.5)

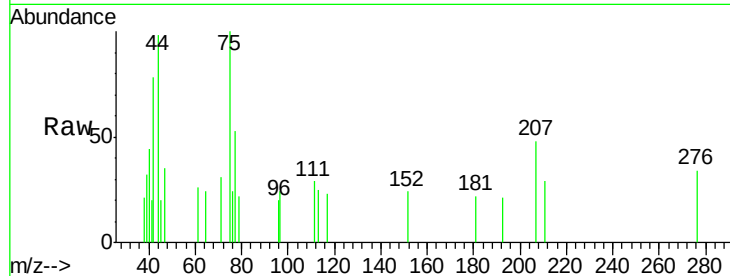
Tgt Ion:113 Resp: 76

Ion Ratio Lower Upper

113 100

111 117.2 73.1 109.7#

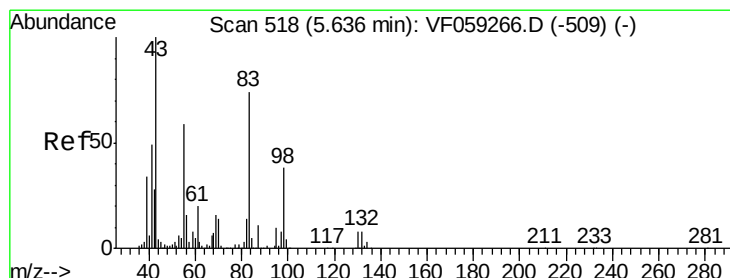
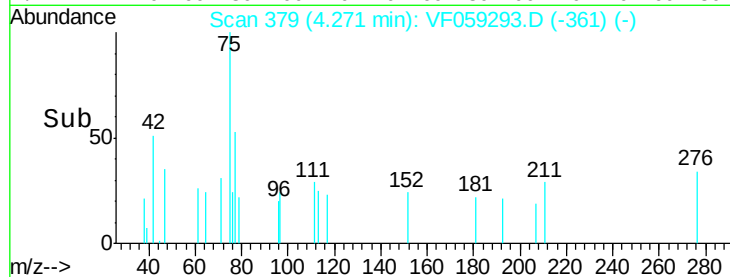
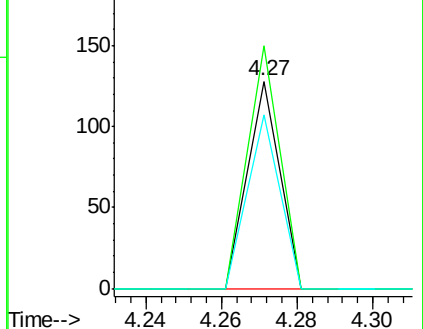
192 83.6 13.9 20.9#



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



#39

Methylcyclohexane

Concen: 2.011 ug/l

RT: 5.76 min Scan# 530

Delta R.T. 0.12 min

Lab File: VF059293.D

Acq: 23 Jun 2018 00:15

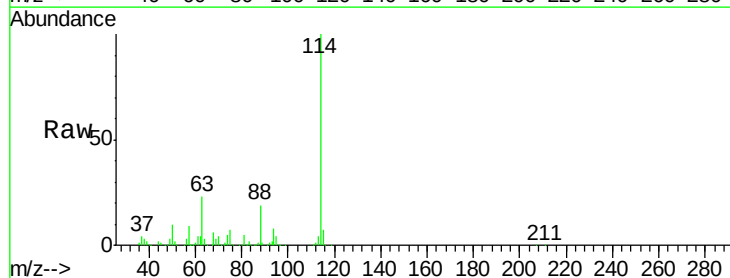
Tgt Ion: 83 Resp: 5451

Ion Ratio Lower Upper

83 100

55 17.9 63.7 95.5#

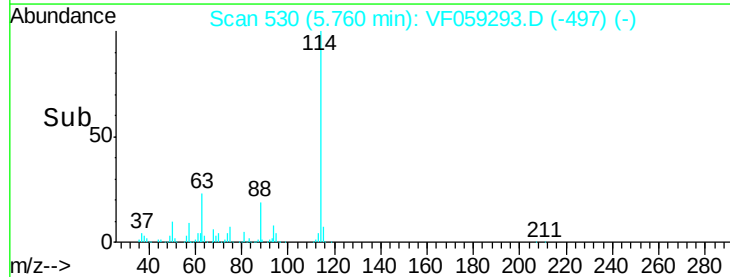
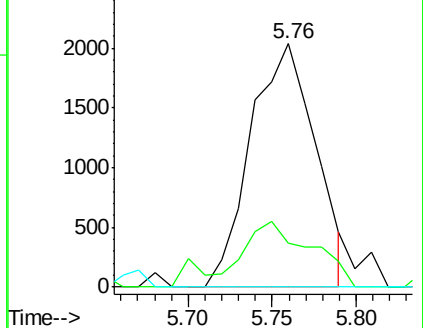
98 0.0 41.6 62.4#

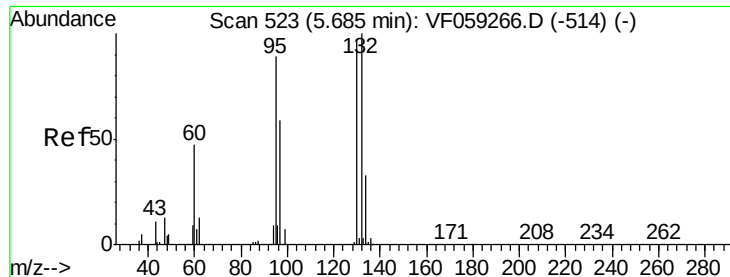


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#44

Trichloroethene

Concen: 2.852 ug/l

RT: 5.67 min Scan# 521

Delta R.T. -0.01 min

Lab File: VF059293.D

Acq: 23 Jun 2018 00:15

Instrument :

MSVOA_F

ClientSampleId :

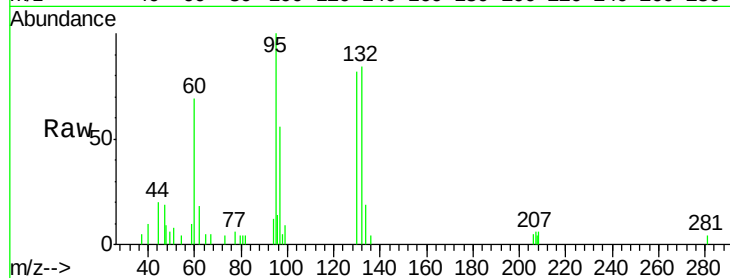
S-3(5-5.5)

Tgt Ion:130 Resp: 6353

Ion Ratio Lower Upper

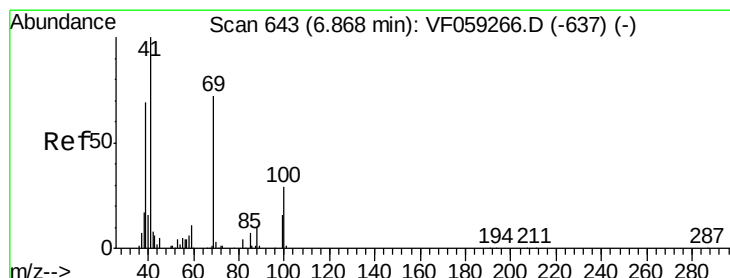
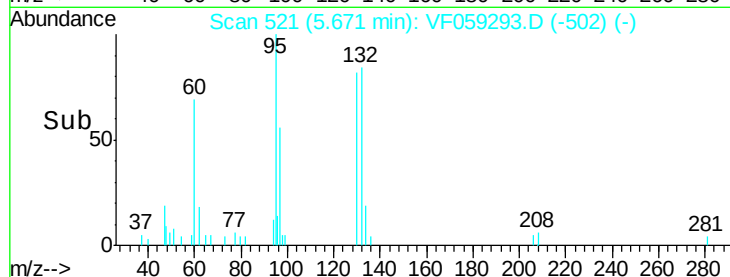
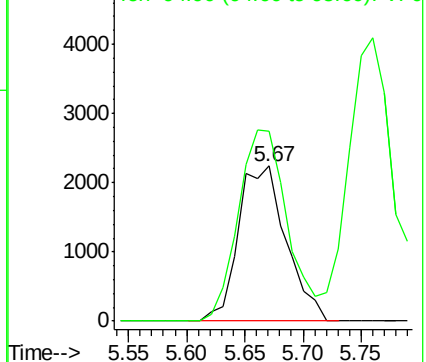
130 100

95 122.4 0.0 183.6



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0



#49

1,4-Dioxane

Concen: 9.072 ug/l

RT: 6.68 min Scan# 623

Delta R.T. -0.19 min

Lab File: VF059293.D

Acq: 23 Jun 2018 00:15

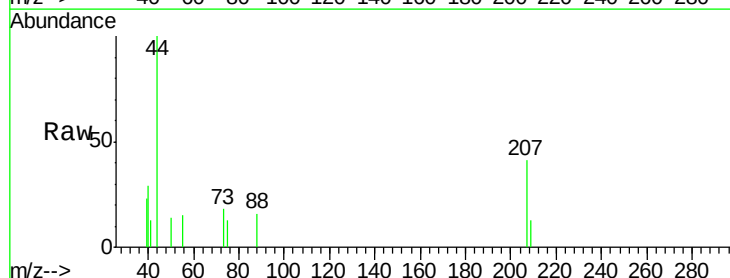
Tgt Ion: 88 Resp: 79

Ion Ratio Lower Upper

88 100

43 0.0 55.5 83.3#

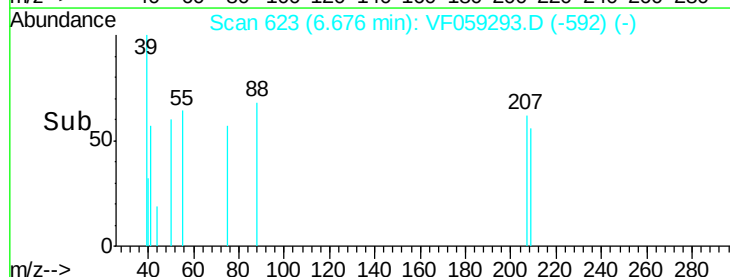
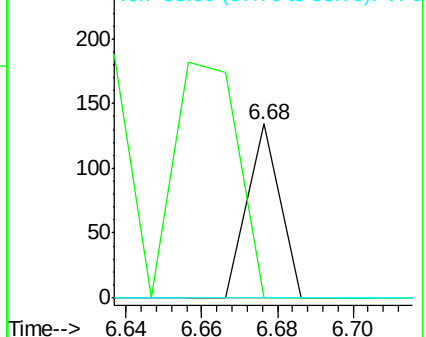
58 0.0 50.1 75.1#

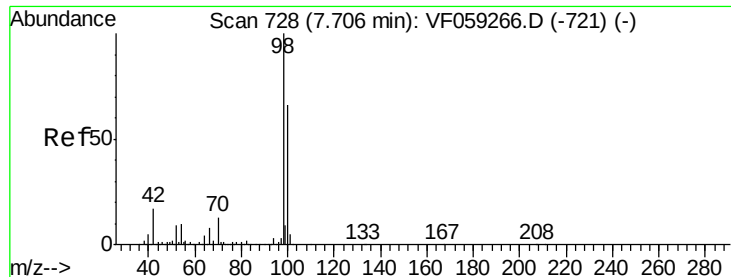


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 46.166 ug/l

RT: 7.70 min Scan# 727

Delta R.T. -0.00 min

Lab File: VF059293.D

Acq: 23 Jun 2018 00:15

Instrument :

MSVOA_F

ClientSampleId :

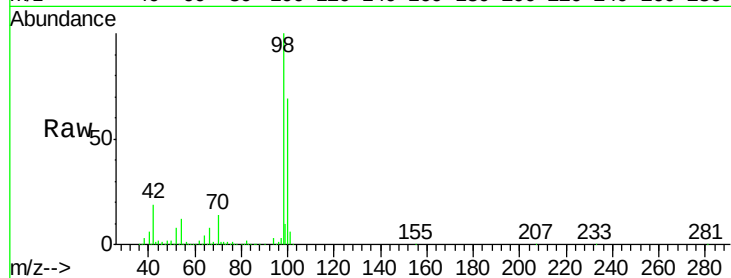
S-3(5-5.5)

Tgt Ion: 98 Resp: 284786

Ion Ratio Lower Upper

98 100

100 69.3 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.70

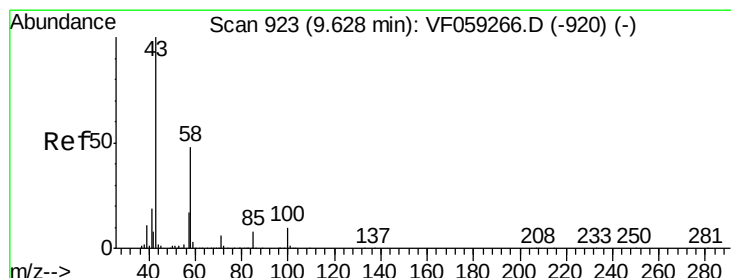
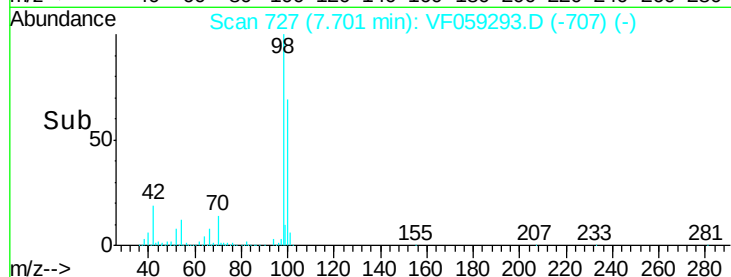
100000

50000

0

Time-->

7.60 7.70 7.80 7.90



#59

2-Hexanone

Concen: 2.032 ug/l

RT: 9.62 min Scan# 922

Delta R.T. -0.00 min

Lab File: VF059293.D

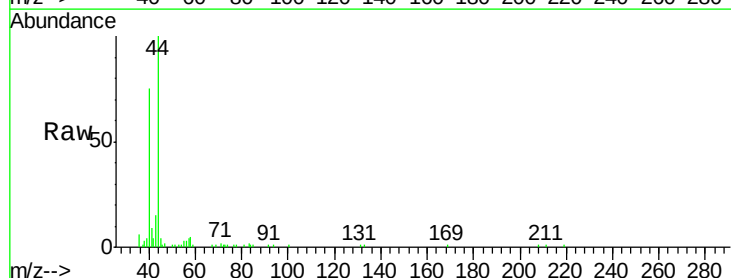
Acq: 23 Jun 2018 00:15

Tgt Ion: 43 Resp: 2725

Ion Ratio Lower Upper

43 100

58 32.9 23.3 69.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.62

2000

1500

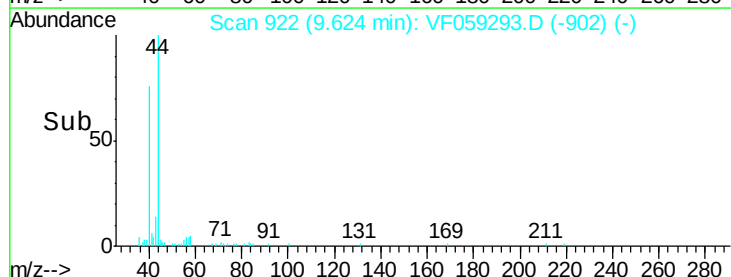
1000

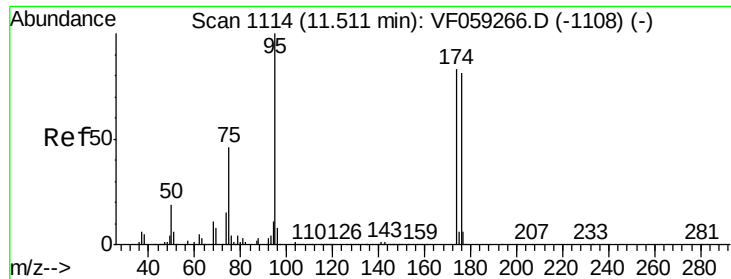
500

0

Time-->

9.55 9.60 9.65 9.70

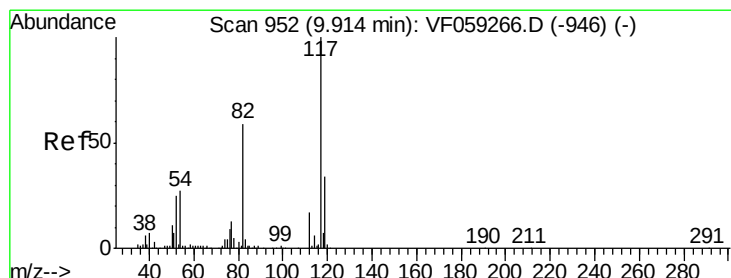
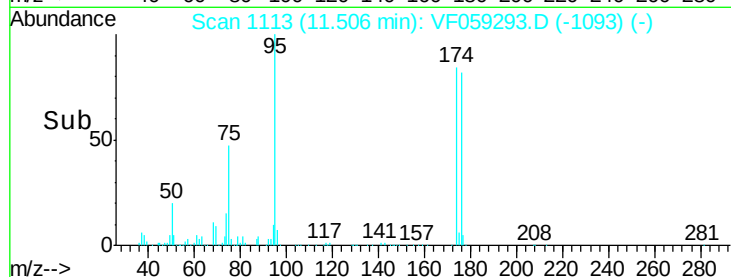
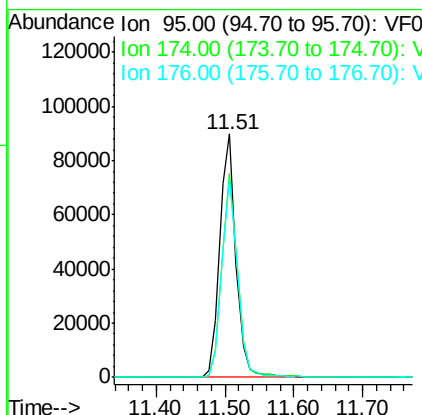
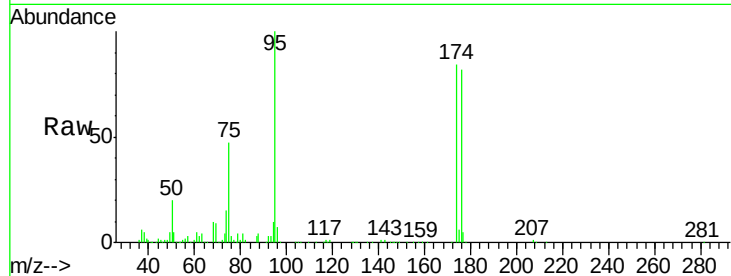




#62
4-Bromofluorobenzene
Concen: 42.896 ug/l
RT: 11.51 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VF059293.D
Acq: 23 Jun 2018 00:15

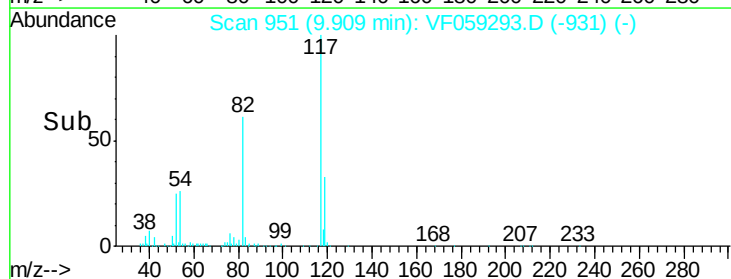
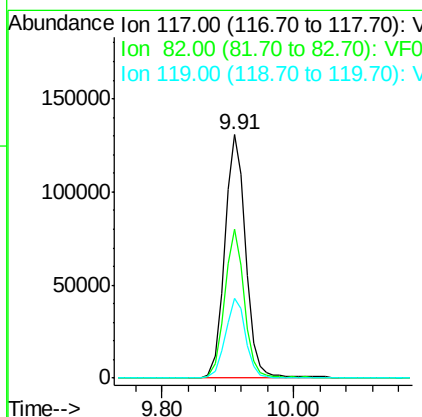
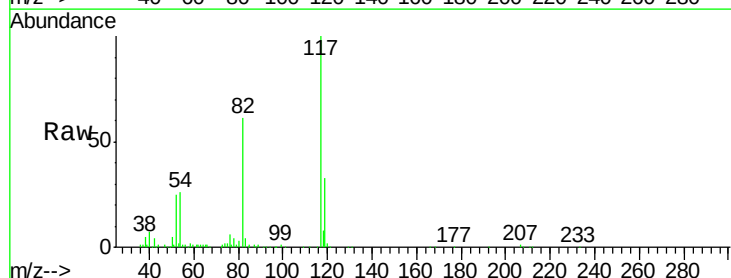
Instrument :
MSVOA_F
ClientSampleId :
S-3(5-5.5)

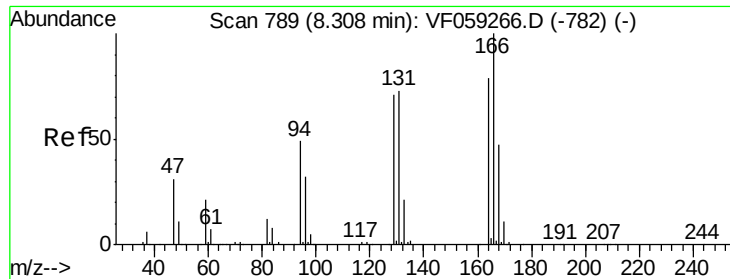
Tgt Ion	Ratio	Lower	Upper
95	100		
174	83.7	0.0	166.2
176	81.6	0.0	162.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 951
Delta R.T. -0.00 min
Lab File: VF059293.D
Acq: 23 Jun 2018 00:15

Tgt Ion	Ratio	Lower	Upper
117	100		
82	61.3	47.1	70.7
119	32.8	26.9	40.3





#64

Tetrachloroethene

Concen: 884.890 ug/l

RT: 8.31 min Scan# 789

Delta R.T. 0.01 min

Lab File: VF059293.D

Acq: 23 Jun 2018 00:15

Instrument :

MSVOA_F

ClientSampleId :

S-3(5-5.5)

Tgt Ion:164 Resp: 1982874

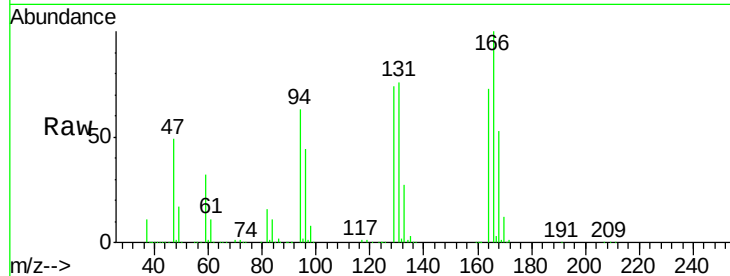
Ion Ratio Lower Upper

164 100

166 136.5 101.4 152.2

129 100.7 72.2 108.4

131 103.8 73.8 110.6

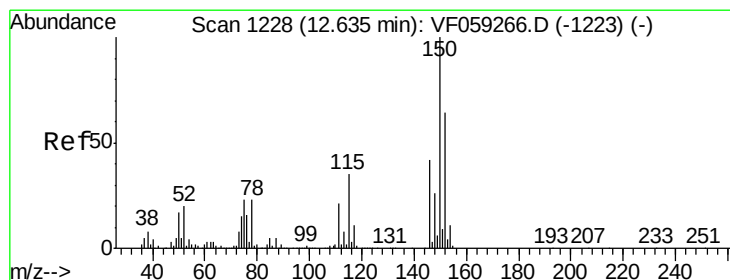
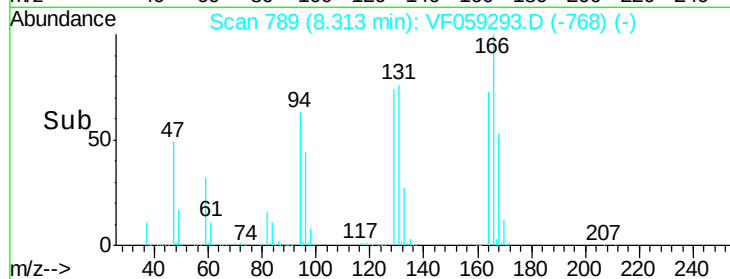
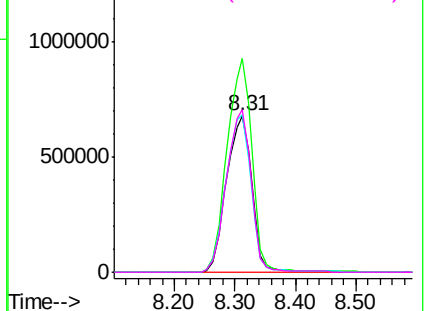


Abundance Ion 163.85 (163.55 to 164.55): V

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.63 min Scan# 1227

Delta R.T. -0.00 min

Lab File: VF059293.D

Acq: 23 Jun 2018 00:15

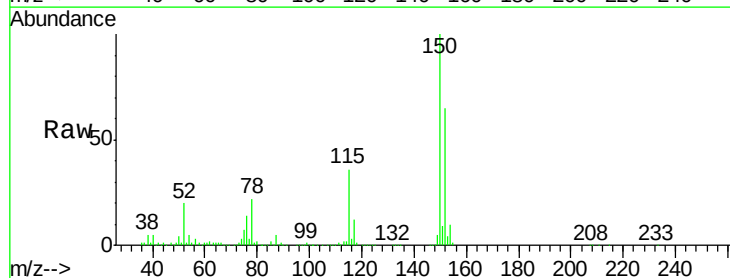
Tgt Ion:152 Resp: 176274

Ion Ratio Lower Upper

152 100

115 55.9 27.8 83.3

150 153.1 0.0 313.8



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

