

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF071918\
 Data File : VF059562.D
 Acq On : 19 Jul 2018 17:24
 Operator : VA/AP
 Sample : J4016-01
 Misc : 6.19g/5mL/MSVOA F/SOIL
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jul 20 04:51:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F071718S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 18 04:09:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	196869	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.77	114	277470	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.92	117	275977	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.63	152	164523	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	175349	57.27	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	114.54%	
35) Dibromofluoromethane	4.29	113	137578	57.25	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	114.50%	
50) Toluene-d8	7.71	98	267348	44.17	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	88.34%	
62) 4-Bromofluorobenzene	11.50	95	155880	49.09	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	98.18%	

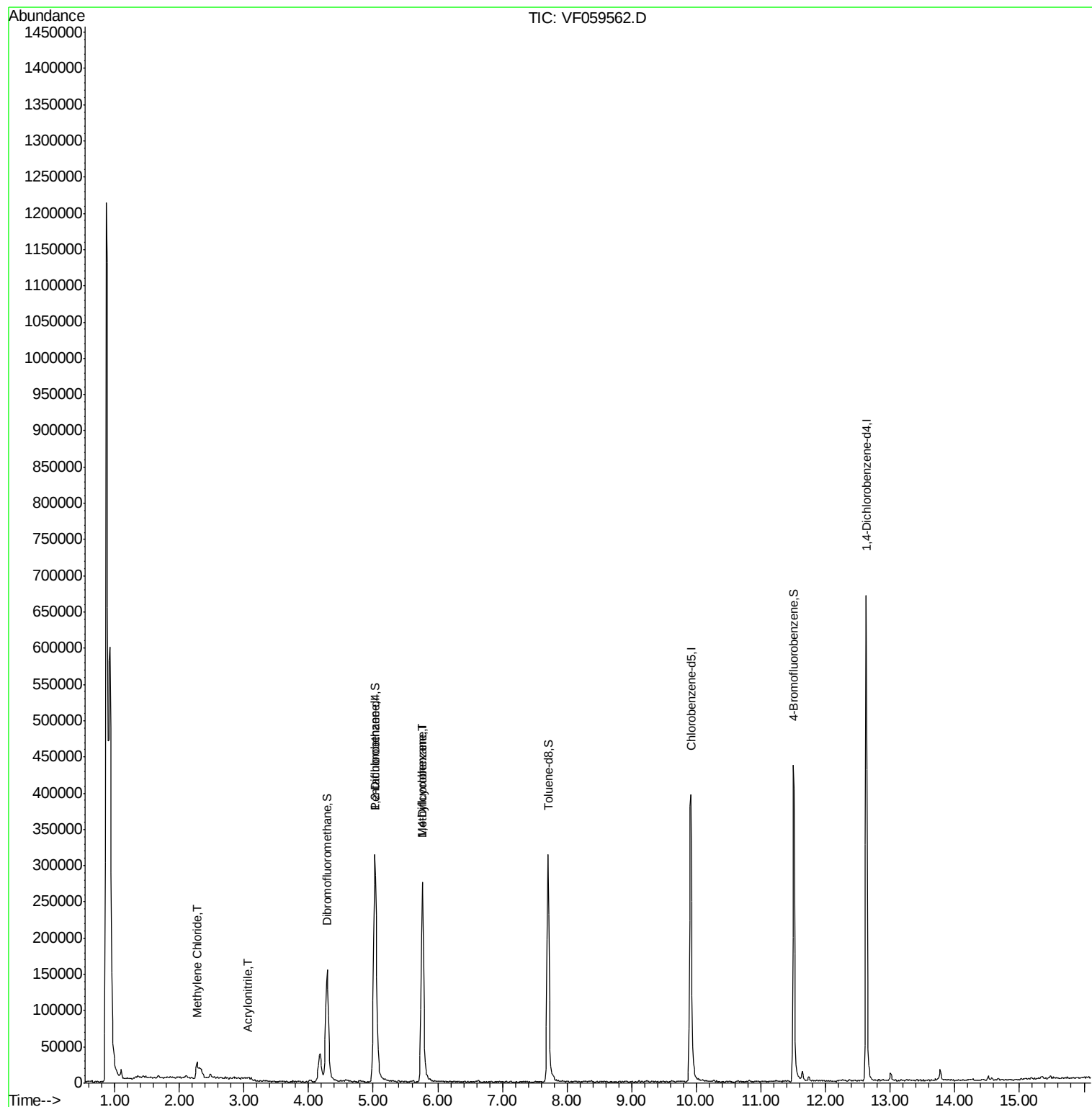
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.67	59	676	Below Cal	#	74
13) Acrolein	2.24	56	93	Below Cal		87
15) Acrylonitrile	3.07	53	723	2.814	ug/l #	44
16) Acetone	2.40	43	550	Below Cal		98
20) Methylene Chloride	2.28	84	13076	5.376	ug/l #	80
29) Tetrahydrofuran	4.25	42	318	Below Cal	#	64
37) Ethyl Acetate	4.31	43	340	Below Cal	#	41
39) Methylcyclohexane	5.77	83	4812	2.283	ug/l #	33
49) 1,4-Dioxane	6.80	88	91	Below Cal	#	15

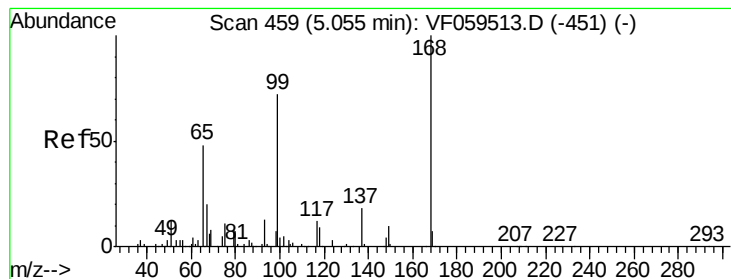
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jul 18 04:09:10 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 457

Delta R.T. -0.02 min

Lab File: VF059562.D

Acq: 19 Jul 2018 17:24

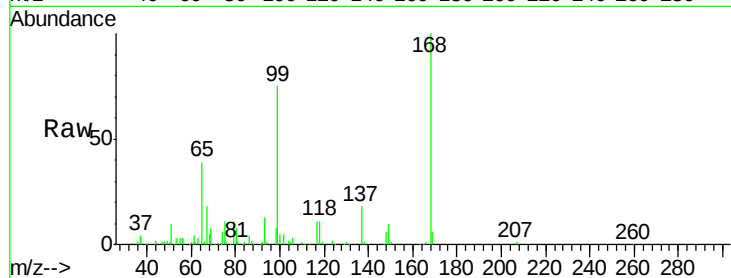
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 196869

Ion Ratio Lower Upper

168 100

99 75.3 57.6 86.4



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.04

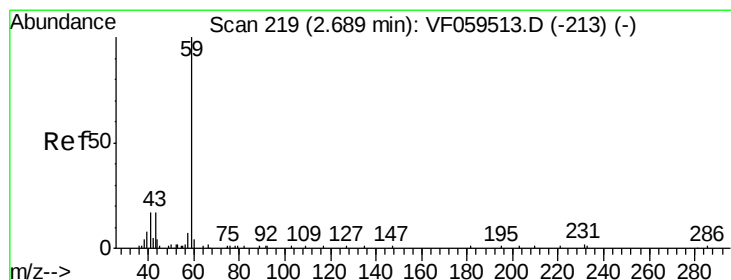
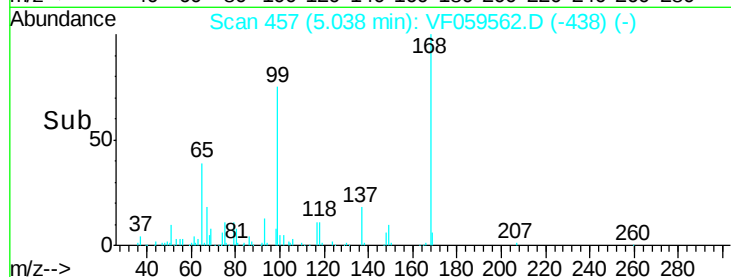
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.67 min Scan# 217

Delta R.T. -0.02 min

Lab File: VF059562.D

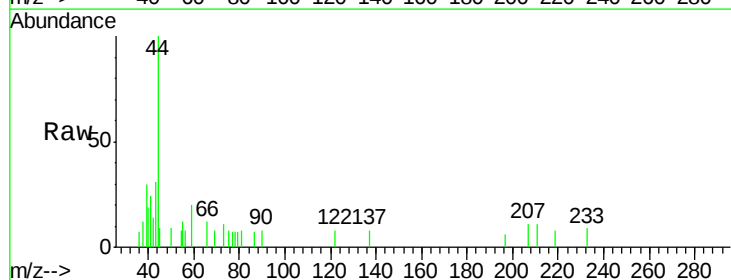
Acq: 19 Jul 2018 17:24

Tgt Ion: 59 Resp: 676

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.67

400

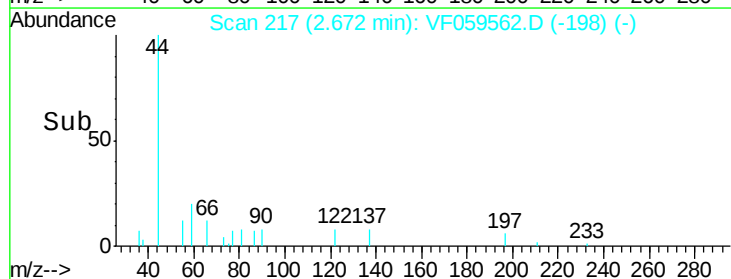
300

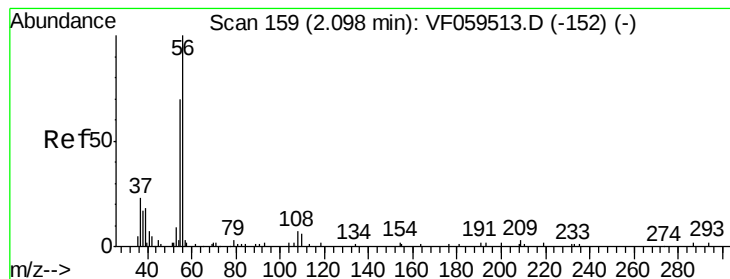
200

100

0

Time-->





#13

Acrolein

Concen: Below Cal

RT: 2.24 min Scan# 173

Delta R.T. 0.14 min

Lab File: VF059562.D

Acq: 19 Jul 2018 17:24

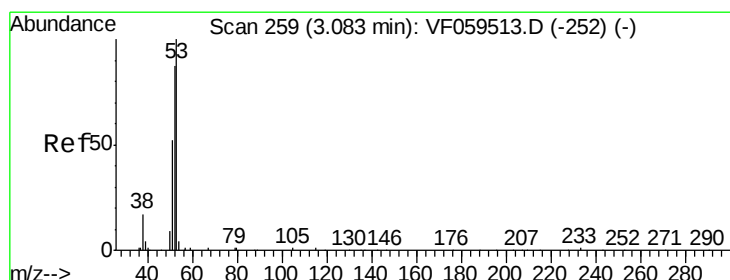
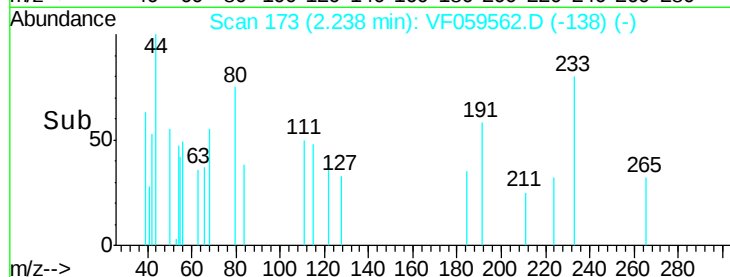
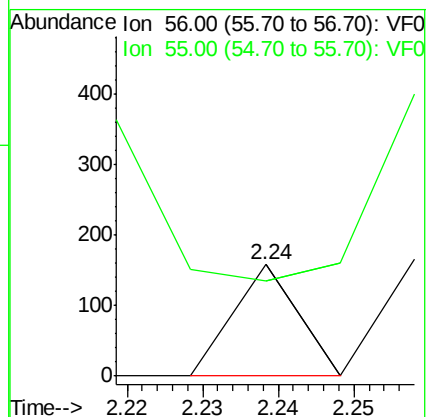
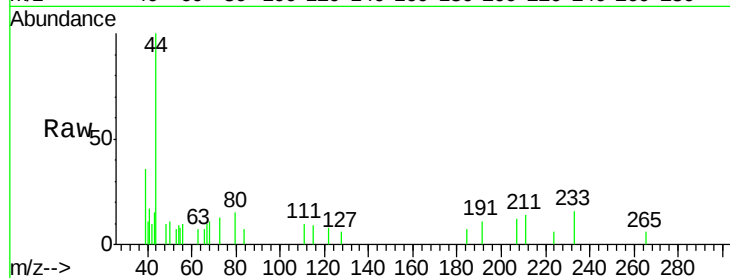
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 93

Ion Ratio Lower Upper

56 100

55 85.4 59.4 89.2



#15

Acrylonitrile

Concen: 2.814 ug/l

RT: 3.07 min Scan# 257

Delta R.T. -0.02 min

Lab File: VF059562.D

Acq: 19 Jul 2018 17:24

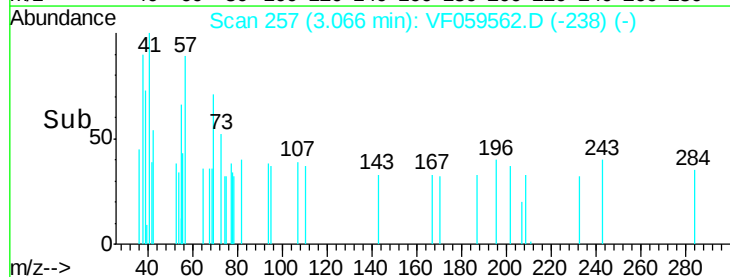
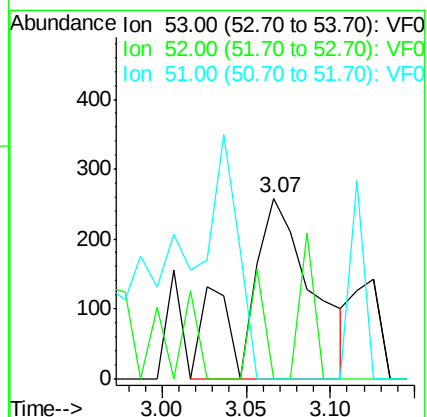
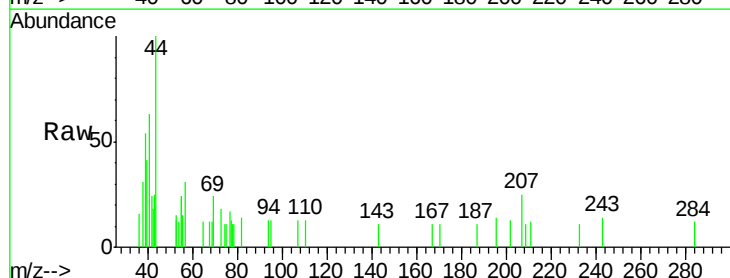
Tgt Ion: 53 Resp: 723

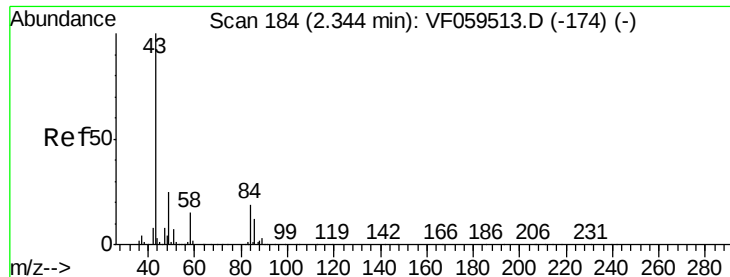
Ion Ratio Lower Upper

53 100

52 46.9 70.1 105.1#

51 0.0 42.5 63.7#

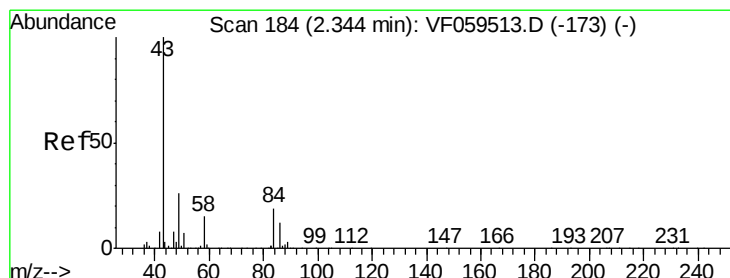
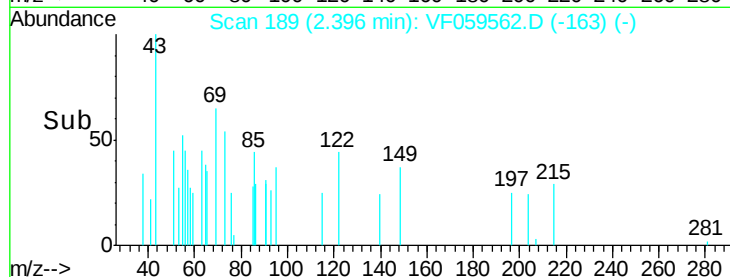
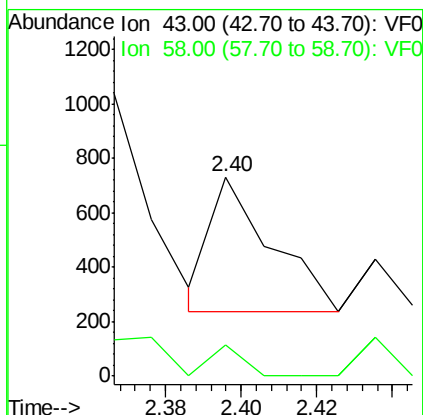
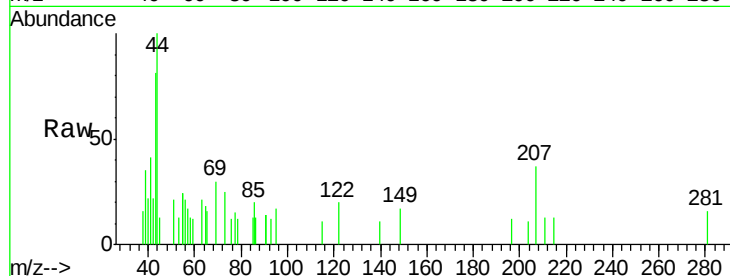




#16
Acetone
Concen: Below Cal
RT: 2.40 min Scan# 189
Delta R.T. 0.05 min
Lab File: VF059562.D
Acq: 19 Jul 2018 17:24

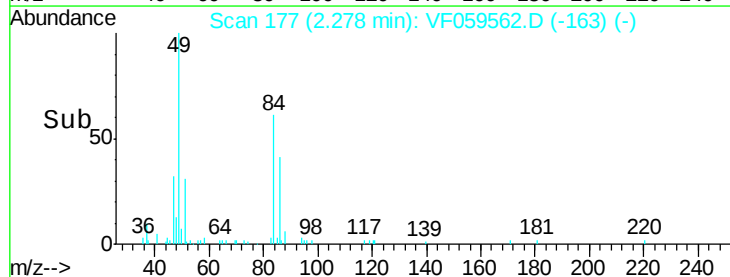
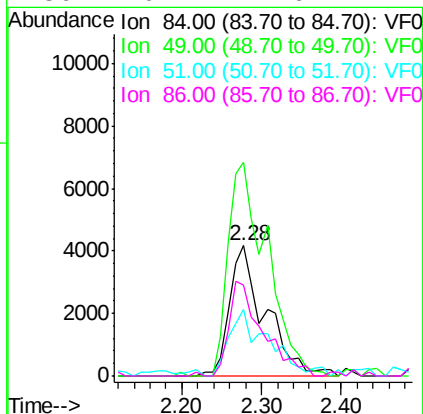
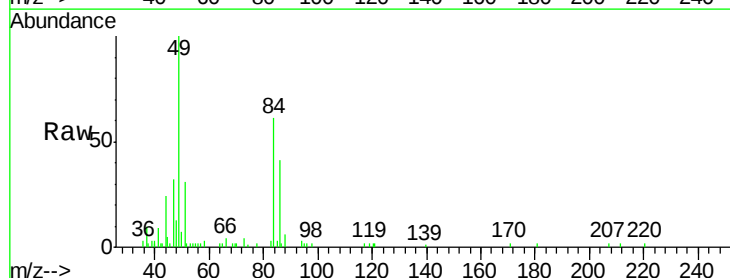
Instrument :
MSVOA_F
ClientSampled :

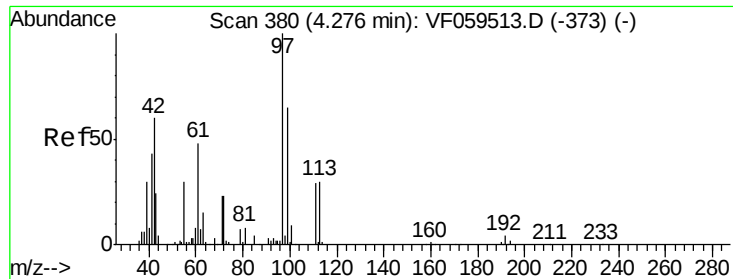
Tot Ion: 43 Resp: 550
Ion Ratio Lower Upper
43 100
58 15.6 11.8 17.6



#20
Methylene Chloride
Concen: 5.376 ug/l
RT: 2.28 min Scan# 177
Delta R.T. -0.07 min
Lab File: VF059562.D
Acq: 19 Jul 2018 17:24

Tgt Ion: 84 Resp: 13076
Ion Ratio Lower Upper
84 100
49 164.1 109.4 164.2
51 51.2 30.5 45.7#
86 70.1 47.6 71.4

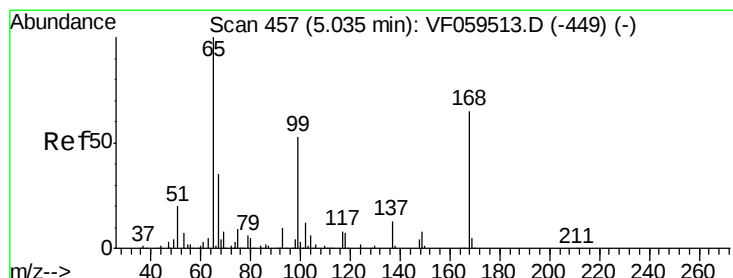
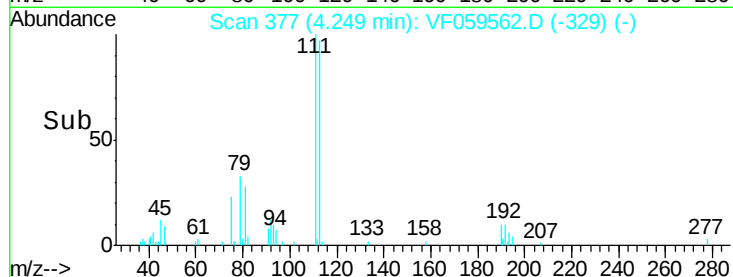
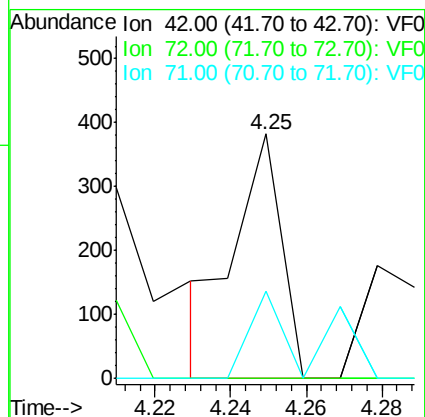
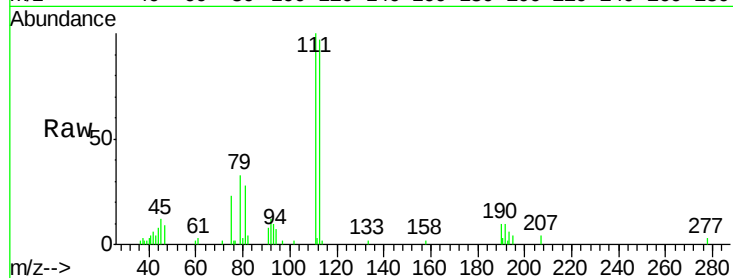




#29
Tetrahydrofuran
Concen: Below Cal
RT: 4.25 min Scan# 377
Delta R.T. -0.03 min
Lab File: VF059562.D
Acq: 19 Jul 2018 17:24

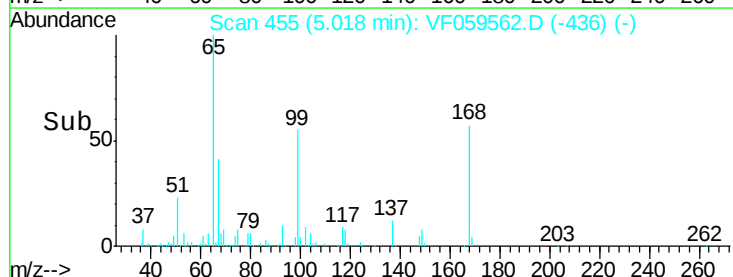
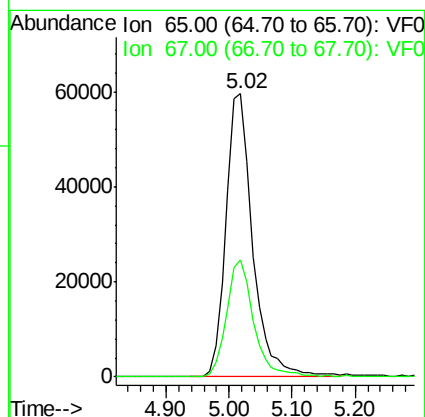
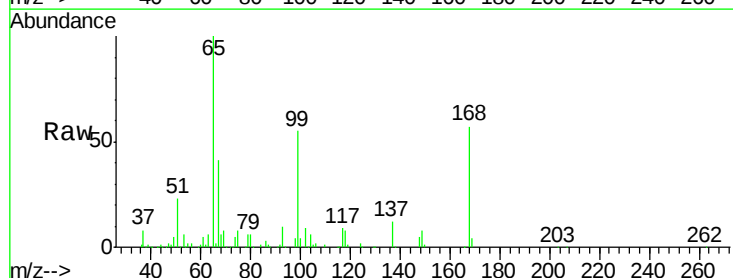
Instrument :
MSVOA_F
ClientSampleId :

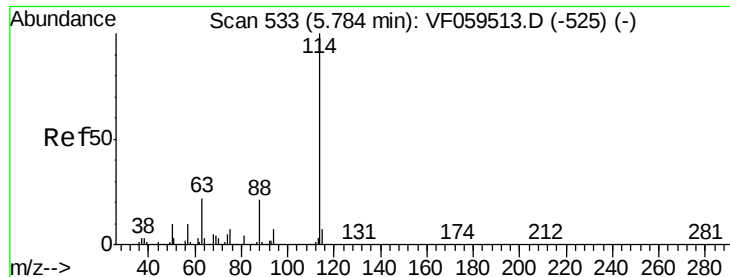
Tot Ion: 42 Resp: 318
Ion Ratio Lower Upper
42 100
72 0.0 28.7 43.1#
71 45.9 30.8 46.2



#33
1,2-Dichloroethane-d4
Concen: 57.270 ug/l
RT: 5.02 min Scan# 455
Delta R.T. -0.02 min
Lab File: VF059562.D
Acq: 19 Jul 2018 17:24

Tgt Ion: 65 Resp: 175349
Ion Ratio Lower Upper
65 100
67 41.4 0.0 91.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 531

Delta R.T. -0.02 min

Lab File: VF059562.D

Acq: 19 Jul 2018 17:24

Instrument :

MSVOA_F

ClientSampleId :

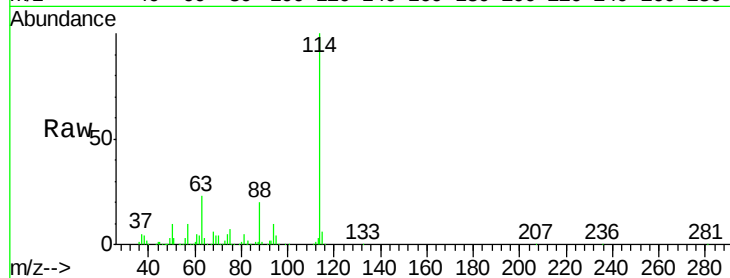
Tot Ion:114 Resp: 277470

Ion Ratio Lower Upper

114 100

63 22.6 0.0 44.8

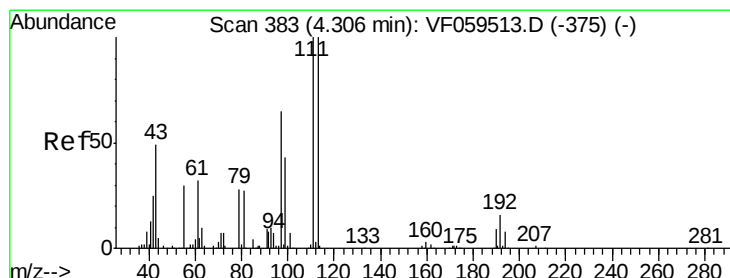
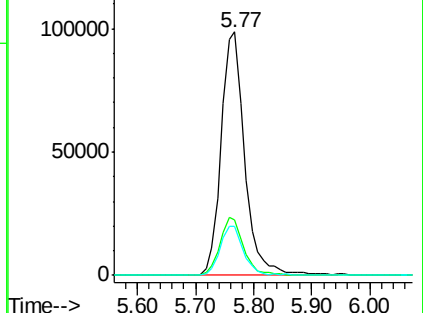
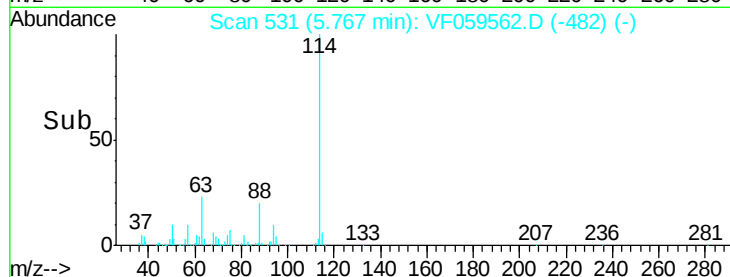
88 20.4 0.0 42.6



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: 57.250 ug/l

RT: 4.29 min Scan# 381

Delta R.T. -0.02 min

Lab File: VF059562.D

Acq: 19 Jul 2018 17:24

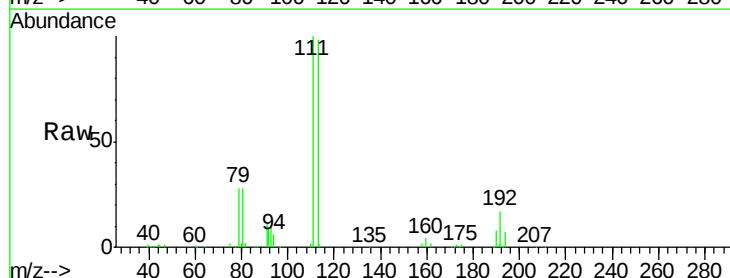
Tgt Ion:113 Resp: 137578

Ion Ratio Lower Upper

113 100

111 102.2 80.3 120.5

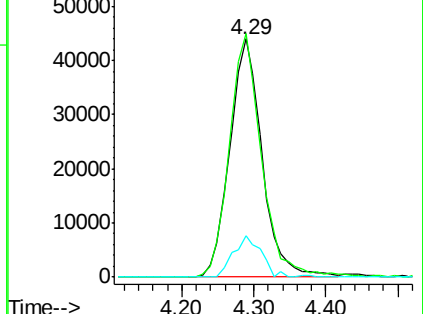
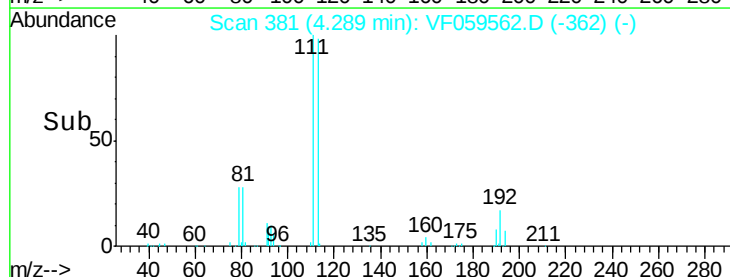
192 17.4 13.1 19.7

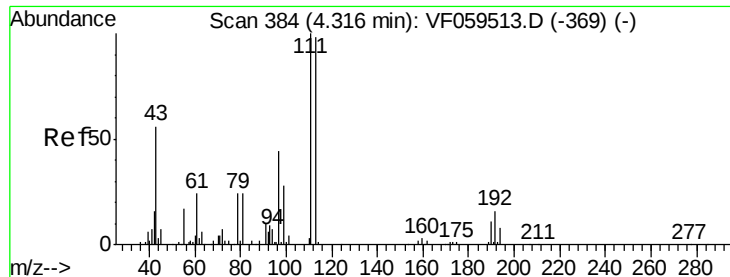


Abundance Ion 113.00 (112.70 to 113.70): V

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. -0.01 min

Lab File: VF059562.D

Acq: 19 Jul 2018 17:24

Instrument :

MSVOA_F

ClientSampled :

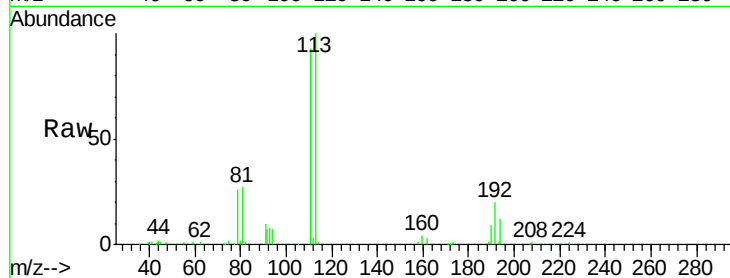
Tot Ion: 43 Resp: 340

Ion Ratio Lower Upper

43 100

61 0.0 33.7 50.5#

70 0.0 7.4 11.0#



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

400

300

200

100

0

4.30

4.31

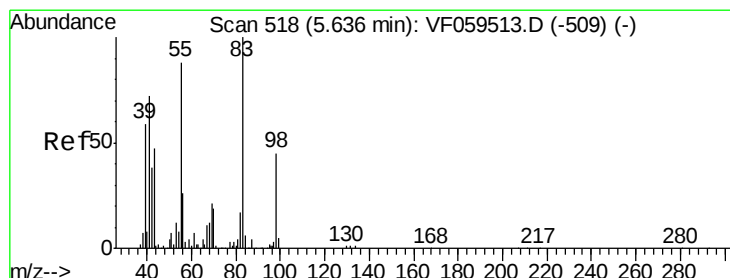
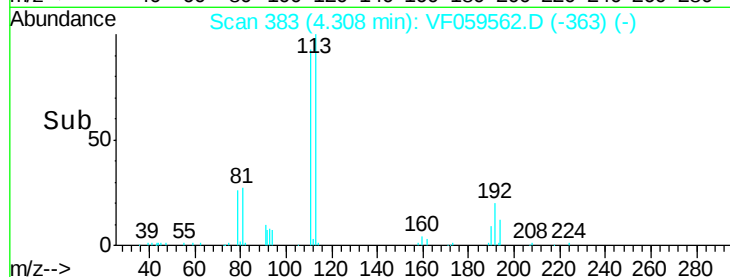
4.32

4.33

4.34

4.35

Time-->



#39

Methylcyclohexane

Concen: 2.283 ug/l

RT: 5.77 min Scan# 531

Delta R.T. 0.13 min

Lab File: VF059562.D

Acq: 19 Jul 2018 17:24

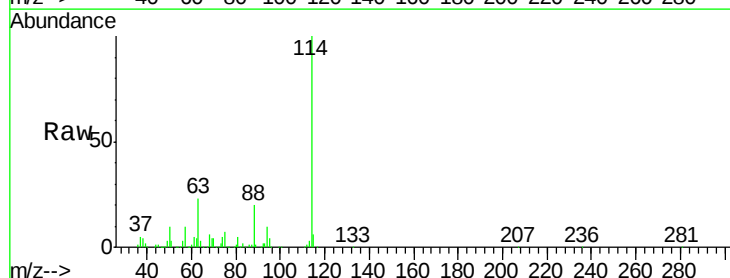
Tgt Ion: 83 Resp: 4812

Ion Ratio Lower Upper

83 100

55 25.9 70.2 105.4#

98 0.0 36.2 54.2#



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

2500

2000

1500

1000

500

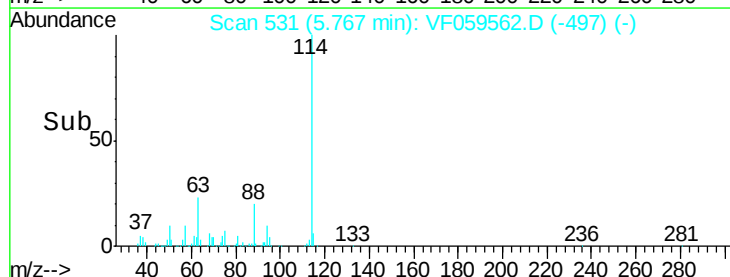
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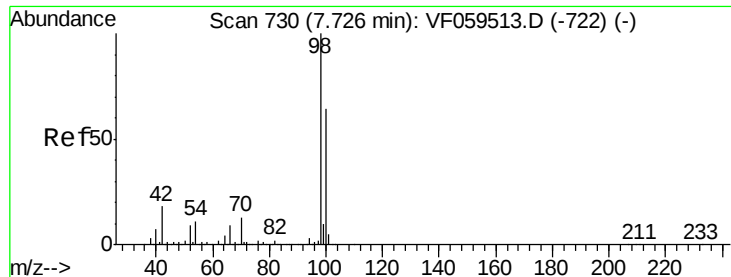
5.70

5.75

5.80

Time-->





#50

Toluene-d8

Concen: 44.166 ug/l

RT: 7.71 min Scan# 728

Delta R.T. -0.02 min

Lab File: VF059562.D

Acq: 19 Jul 2018 17:24

Instrument :

MSVOA_F

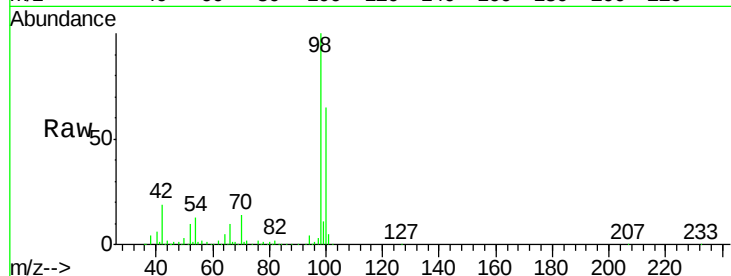
ClientSampled :

Tot Ion: 98 Resp: 267348

Ion Ratio Lower Upper

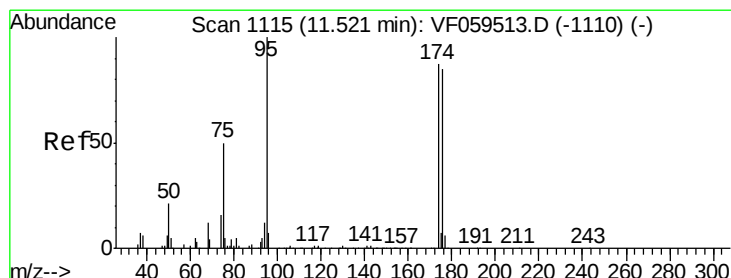
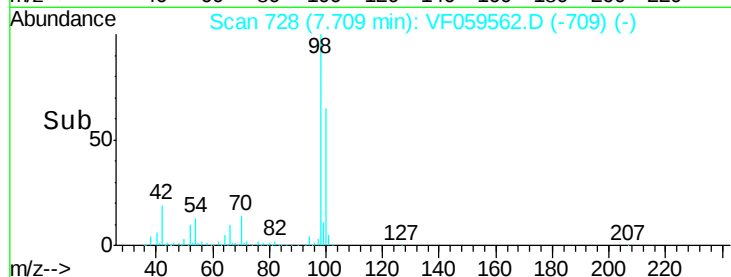
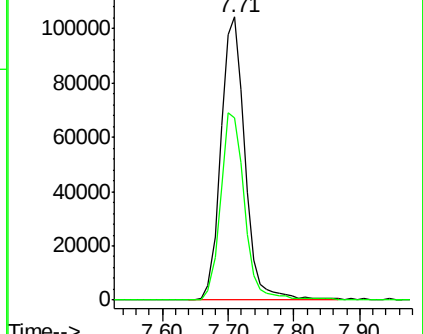
98 100

100 64.5 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF



#62

4-Bromofluorobenzene

Concen: 49.088 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. -0.02 min

Lab File: VF059562.D

Acq: 19 Jul 2018 17:24

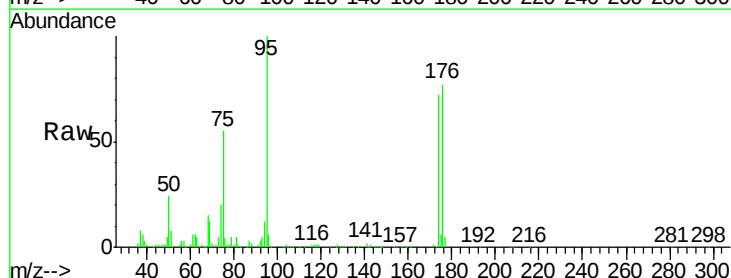
Tgt Ion: 95 Resp: 155880

Ion Ratio Lower Upper

95 100

174 72.3 0.0 174.4

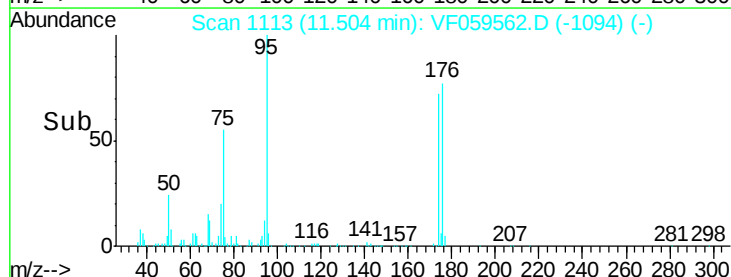
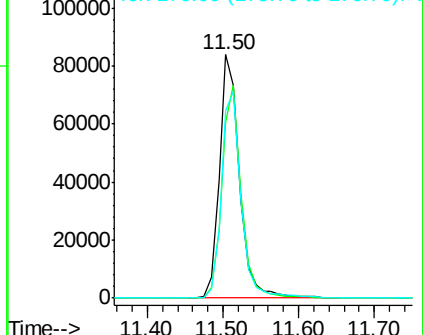
176 76.7 0.0 169.4

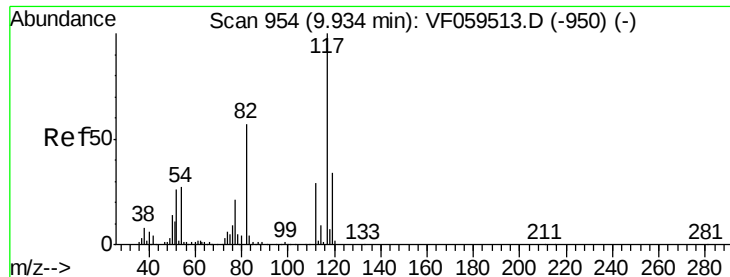


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.92 min Scan# 952

Delta R.T. -0.02 min

Lab File: VF059562.D

Acq: 19 Jul 2018 17:24

Instrument :

MSVOA_F

ClientSampleId :

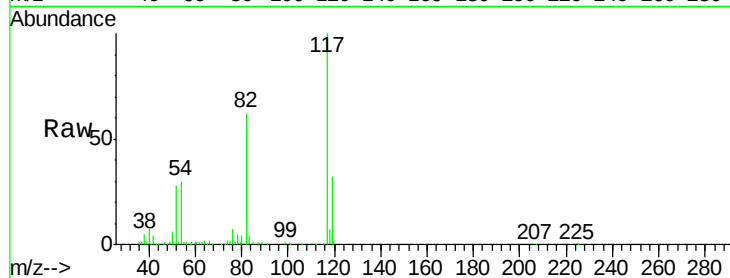
Tot Ion:117 Resp: 275977

Ion Ratio Lower Upper

117 100

82 62.0 46.1 69.1

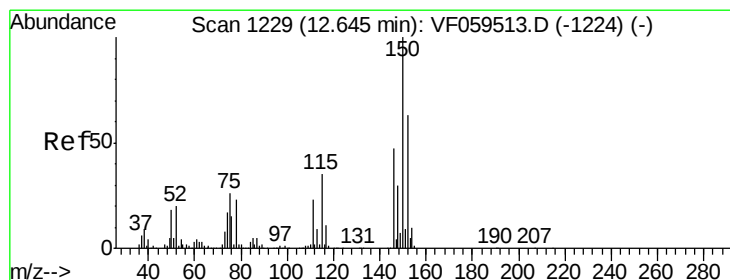
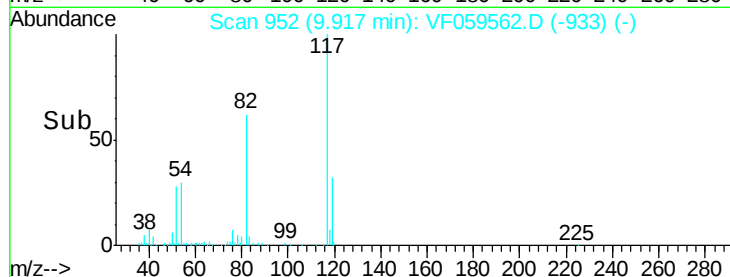
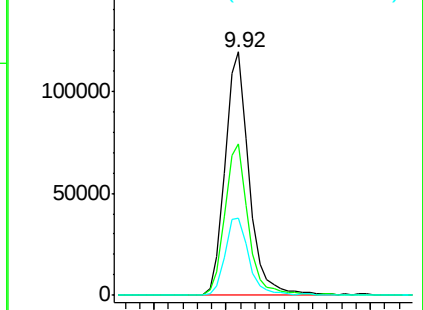
119 31.6 27.2 40.8



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: 12.63 min Scan# 1227

Delta R.T. -0.02 min

Lab File: VF059562.D

Acq: 19 Jul 2018 17:24

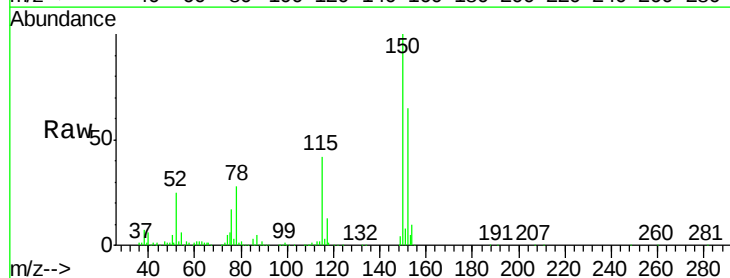
Tgt Ion:152 Resp: 164523

Ion Ratio Lower Upper

152 100

115 65.2 27.8 83.3

150 153.6 0.0 318.4



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

