

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF082018\
 Data File : VF060010.D
 Acq On : 20 Aug 2018 18:56
 Operator : VA/AP
 Sample : J4497-01
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CARLSTADT-FRONT

Quant Time: Aug 21 04:28:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F081718S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 18 01:11:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	166225	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	230516	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	246951	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.64	152	147715	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.03	65	146604	45.69	ug/l	0.00
Spiked Amount			Recovery	=	91.38%	
35) Dibromofluoromethane	4.30	113	119080	50.55	ug/l	0.00
Spiked Amount			Recovery	=	101.10%	
50) Toluene-d8	7.72	98	241084	46.02	ug/l	0.00
Spiked Amount			Recovery	=	92.04%	
62) 4-Bromofluorobenzene	11.51	95	136006	42.30	ug/l	0.00
Spiked Amount			Recovery	=	84.60%	

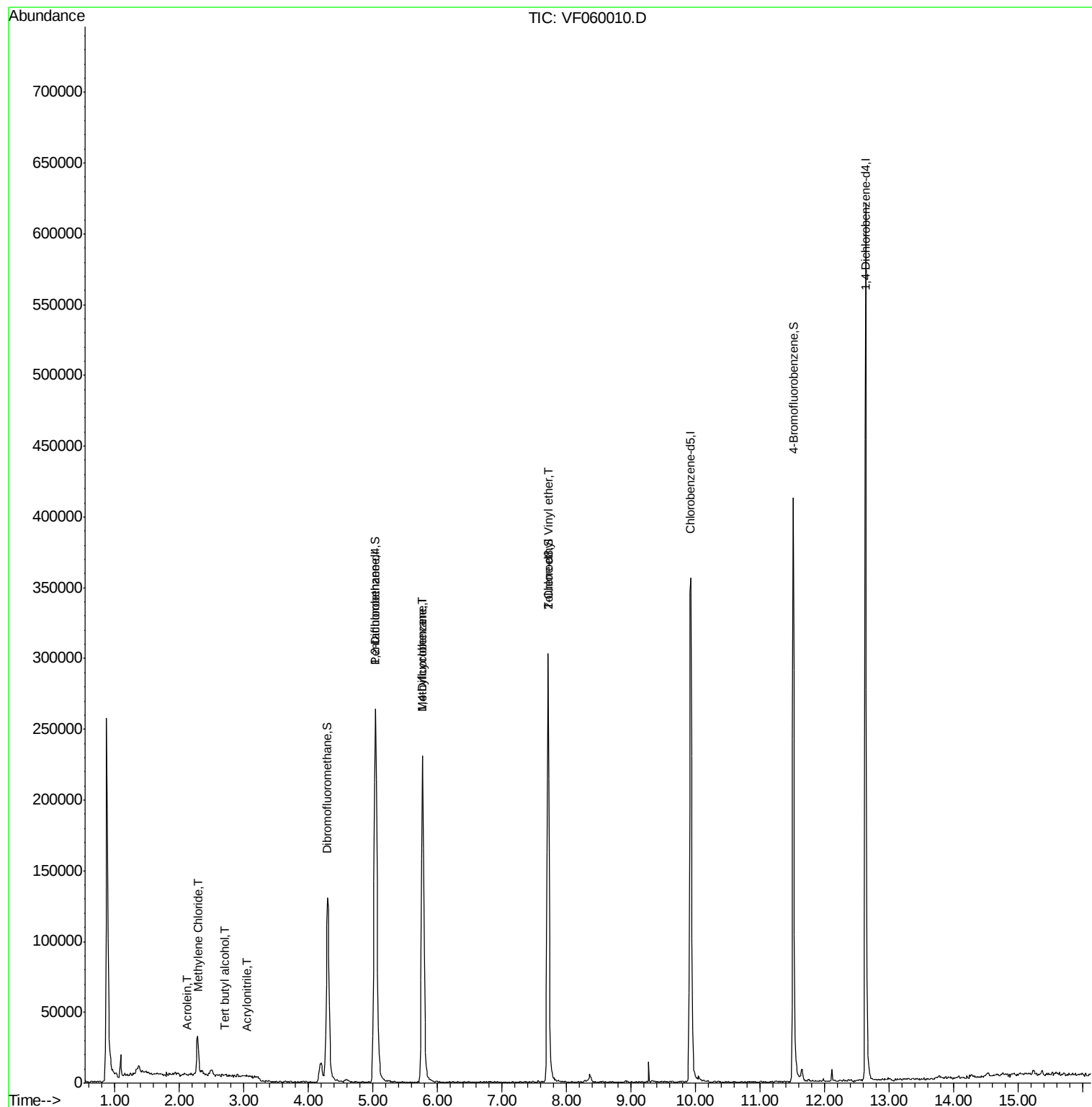
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.09	50	1775	Below Cal		98
5) Bromomethane	1.33	94	1126	Below Cal		87
11) Tert butyl alcohol	2.69	59	339	1.81	ug/l #	76
13) Acrolein	2.12	56	60	13.13	ug/l #	34
15) Acrylonitrile	3.06	53	315	1.04	ug/l #	11
16) Acetone	2.33	43	2977	Below Cal		100
18) Methyl Acetate	2.48	43	3144	Below Cal	#	63
20) Methylene Chloride	2.28	84	11687	2.73	ug/l	96
39) Methylcyclohexane	5.76	83	4002	2.03	ug/l #	29
58) 2-Chloroethyl Vinyl ether	7.72	63	287	2.21	ug/l	100

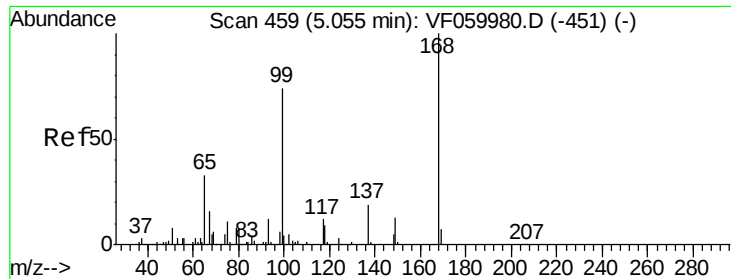
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Aug 18 01:11:02 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.04 min Scan# 458

Delta R.T. -0.01 min

Lab File: VF060010.D

Acq: 20 Aug 2018 18:56

Instrument :

MSVOA_F

ClientSampleId :

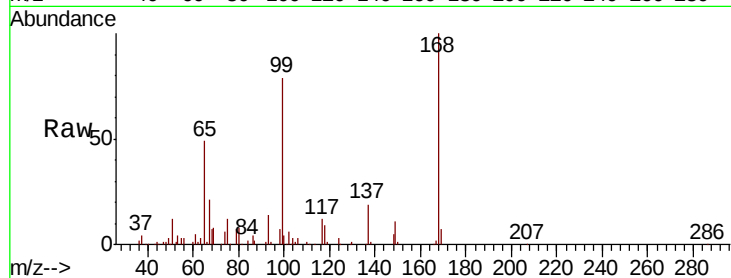
CARLSTADT-FRONT

Tot Ion:168 Resp: 166225

Ion Ratio Lower Upper

168 100

99 79.3 59.0 88.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.04

60000

50000

40000

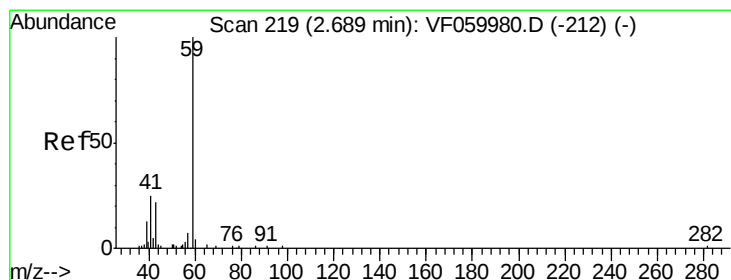
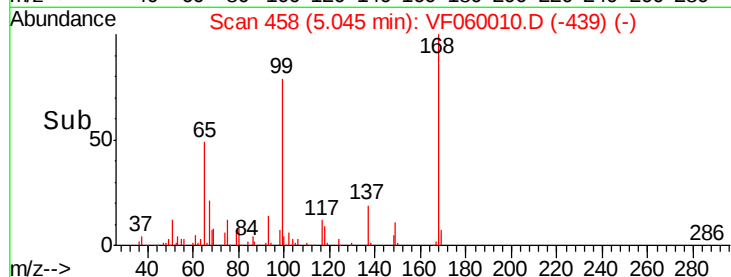
30000

20000

10000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.81 ug/l

RT: 2.69 min Scan# 219

Delta R.T. 0.00 min

Lab File: VF060010.D

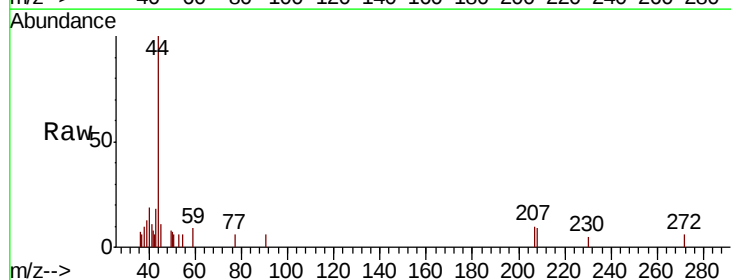
Acq: 20 Aug 2018 18:56

Tgt Ion: 59 Resp: 339

Ion Ratio Lower Upper

59 100

57 0.0 6.8 10.2#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.69

200

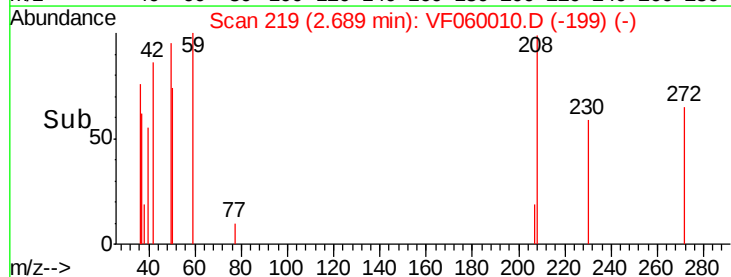
150

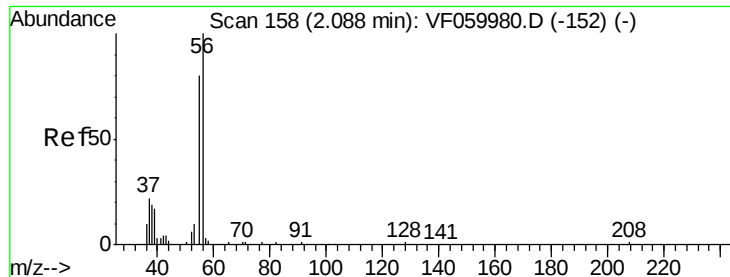
100

50

0

Time-->





#13

Acrolein

Concen: 13.13 ug/l

RT: 2.12 min Scan# 161

Delta R.T. 0.03 min

Lab File: VF060010.D

Acq: 20 Aug 2018 18:56

Instrument :

MSVOA_F

ClientSampleId :

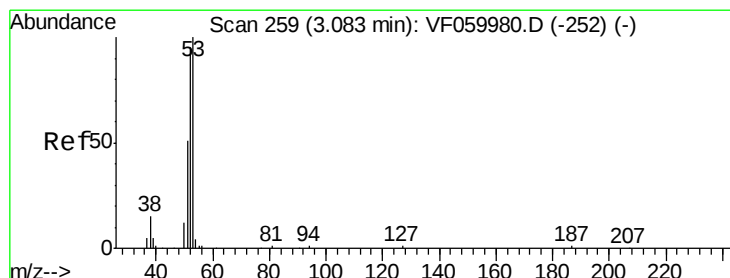
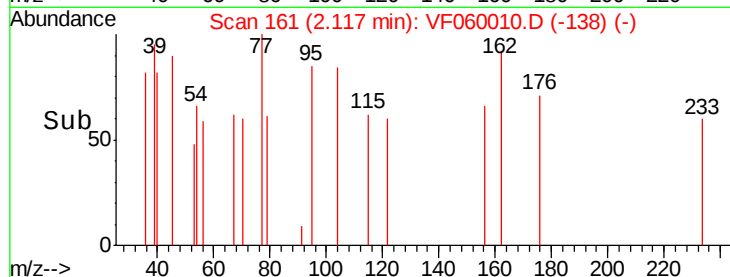
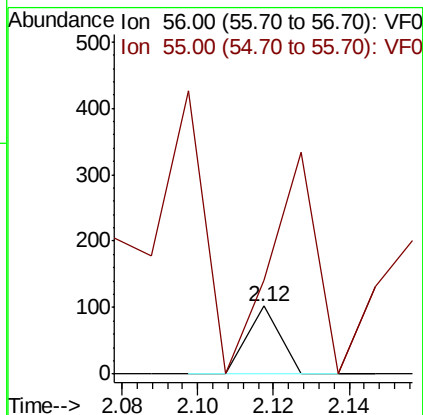
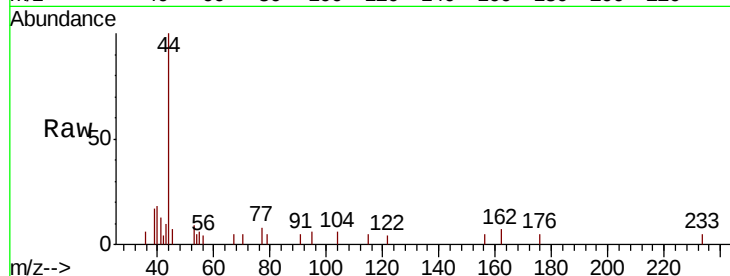
CARLSTADT-FRONT

Tot Ion: 56 Resp: 60

Ion Ratio Lower Upper

56 100

55 138.2 63.8 95.6#



#15

Acrylonitrile

Concen: 1.04 ug/l

RT: 3.06 min Scan# 257

Delta R.T. -0.02 min

Lab File: VF060010.D

Acq: 20 Aug 2018 18:56

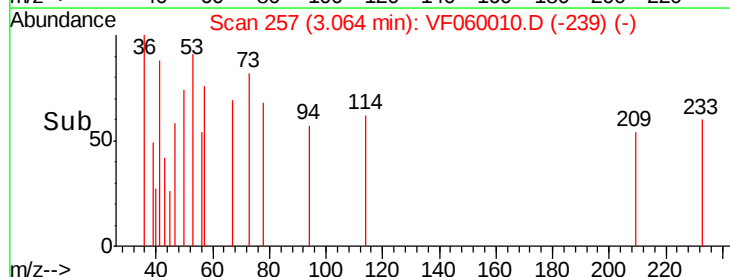
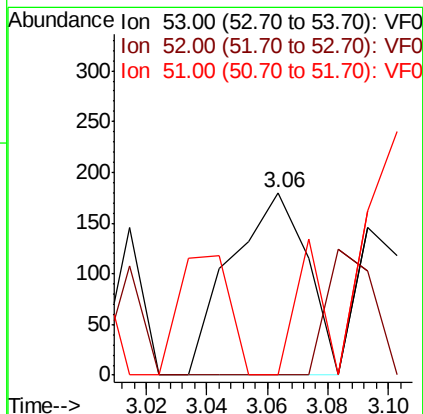
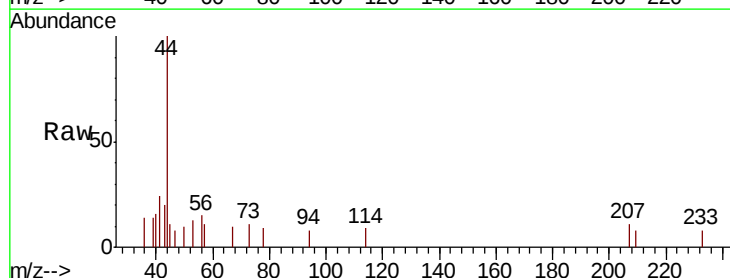
Tgt Ion: 53 Resp: 315

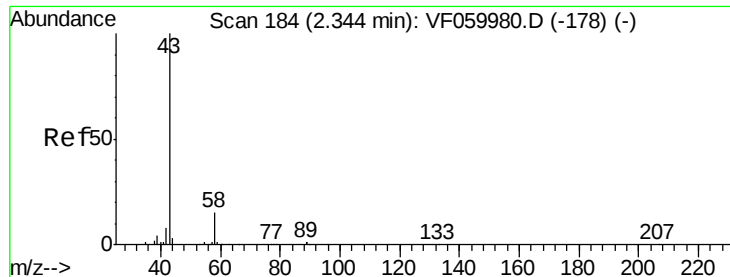
Ion Ratio Lower Upper

53 100

52 0.0 76.0 114.0#

51 0.0 41.9 62.9#





#16

Acetone

Concen: Below Cal

RT: 2.33 min Scan# 183

Delta R.T. -0.01 min

Lab File: VF060010.D

Acq: 20 Aug 2018 18:56

Instrument :

MSVOA_F

ClientSampleId :

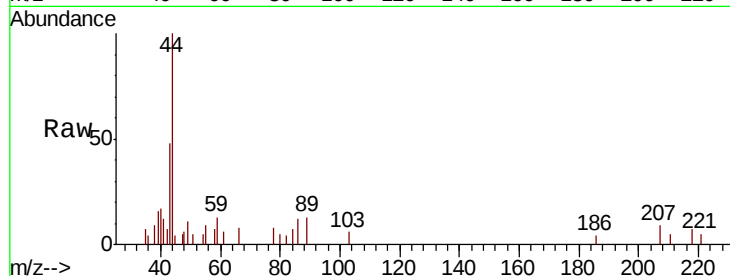
CARLSTADT-FRONT

Tot Ion: 43 Resp: 2977

Ion Ratio Lower Upper

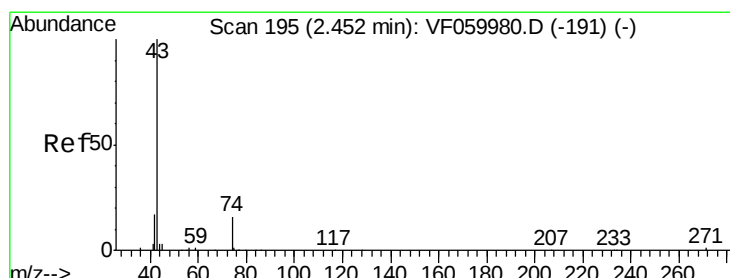
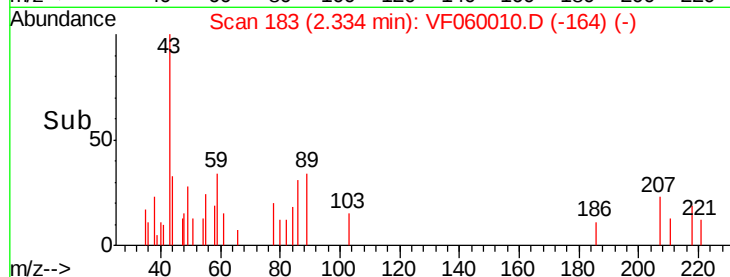
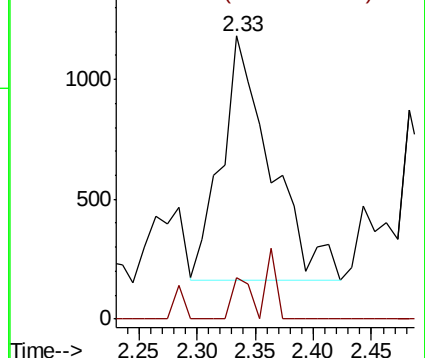
43 100

58 14.7 11.9 17.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#18

Methyl Acetate

Concen: Below Cal

RT: 2.48 min Scan# 198

Delta R.T. 0.03 min

Lab File: VF060010.D

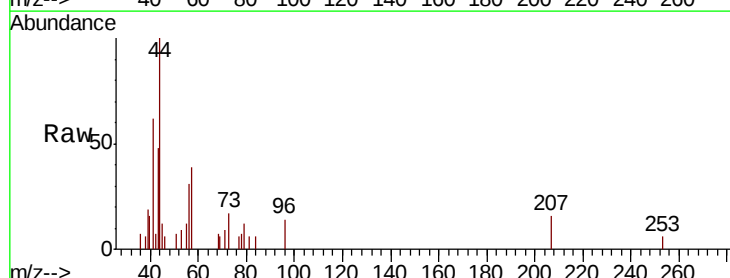
Acq: 20 Aug 2018 18:56

Tgt Ion: 43 Resp: 3144

Ion Ratio Lower Upper

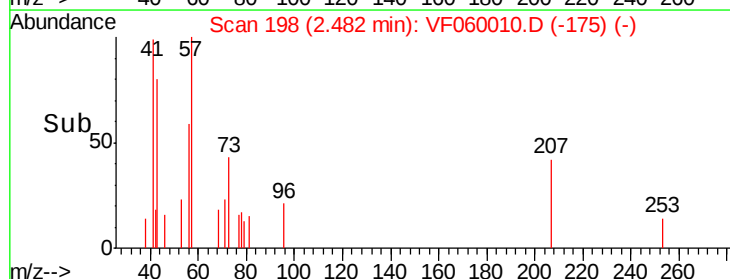
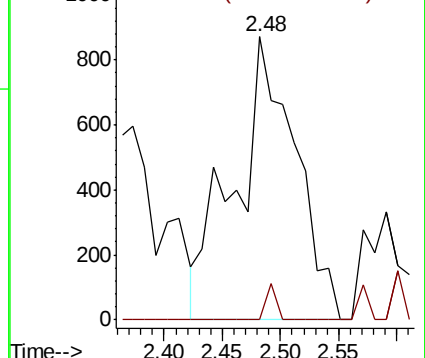
43 100

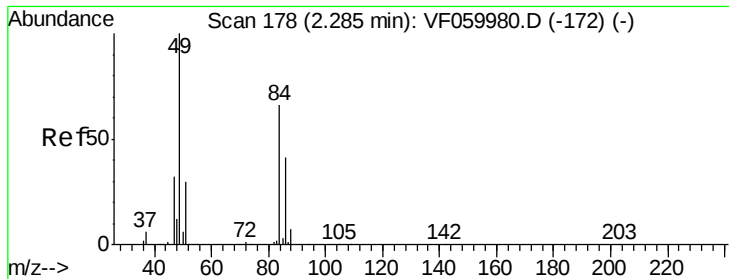
74 0.0 12.3 18.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0





#20

Methylene Chloride

Concen: 2.73 ug/l

RT: 2.28 min Scan# 178

Delta R.T. 0.00 min

Lab File: VF060010.D

Acq: 20 Aug 2018 18:56

Instrument :

MSVOA_F

ClientSampleId :

CARLSTADT-FRONT

Tot Ion: 84 Resp: 11687

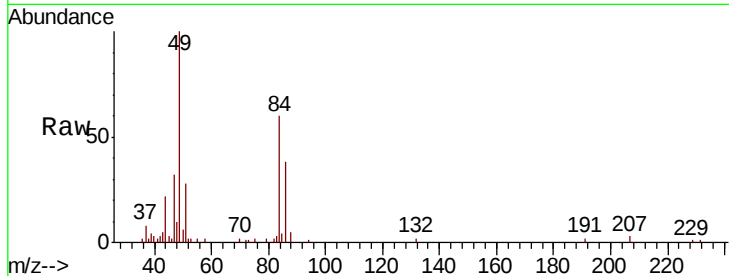
Ion Ratio Lower Upper

84 100

49 157.3 122.5 183.7

51 44.4 37.1 55.7

86 59.1 50.2 75.2

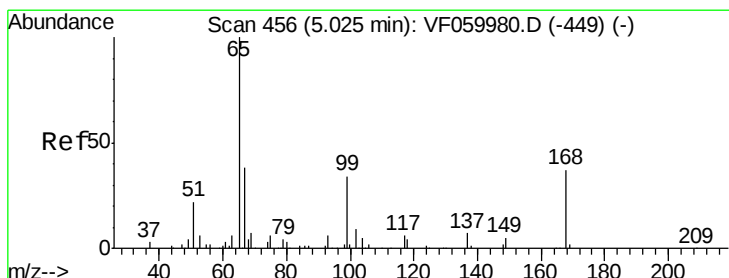
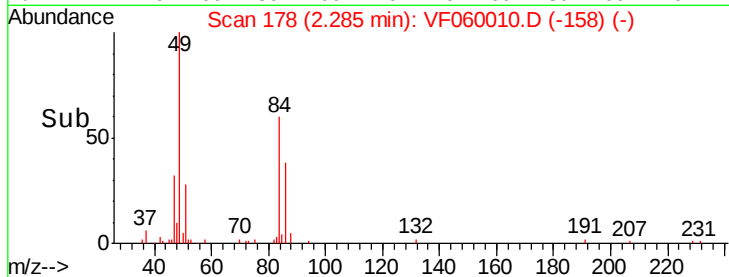
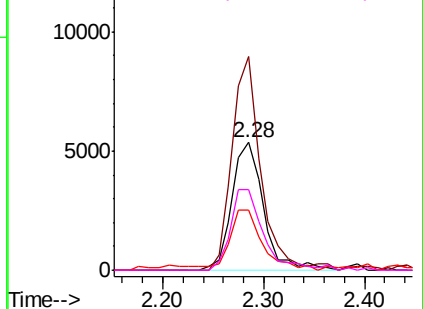


Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 45.69 ug/l

RT: 5.03 min Scan# 456

Delta R.T. 0.00 min

Lab File: VF060010.D

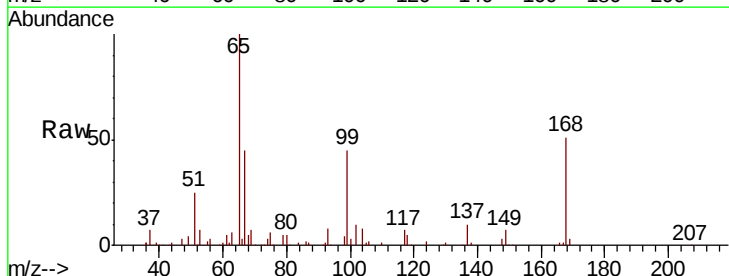
Acq: 20 Aug 2018 18:56

Tgt Ion: 65 Resp: 146604

Ion Ratio Lower Upper

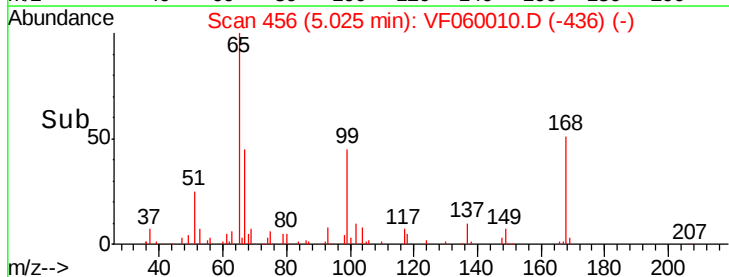
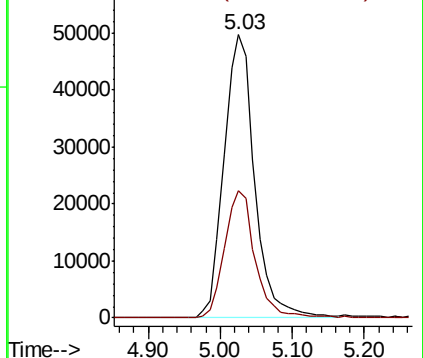
65 100

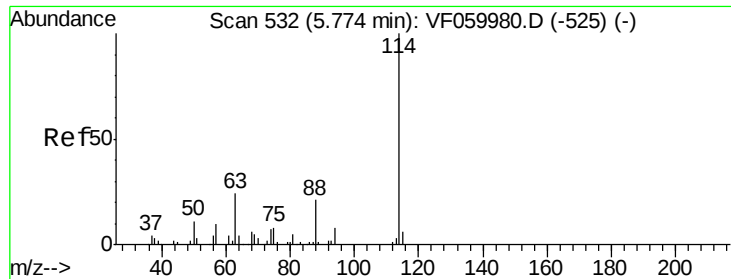
67 45.0 0.0 82.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.77 min Scan# 532

Delta R.T. 0.00 min

Lab File: VF060010.D

Acq: 20 Aug 2018 18:56

Instrument :

MSVOA_F

ClientSampleId :

CARLSTADT-FRONT

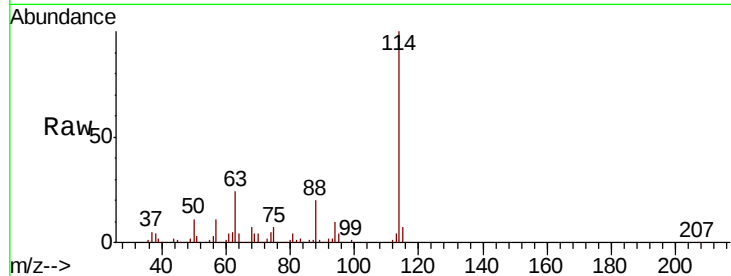
Tot Ion:114 Resp: 230516

Ion Ratio Lower Upper

114 100

63 24.3 0.0 48.6

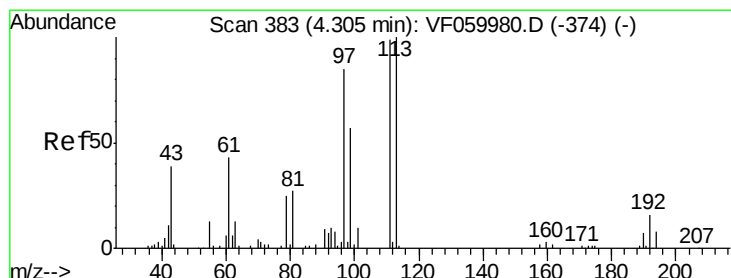
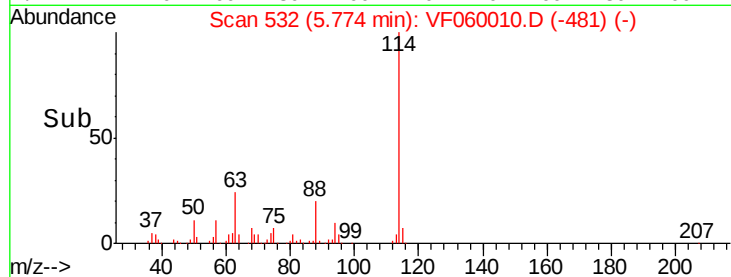
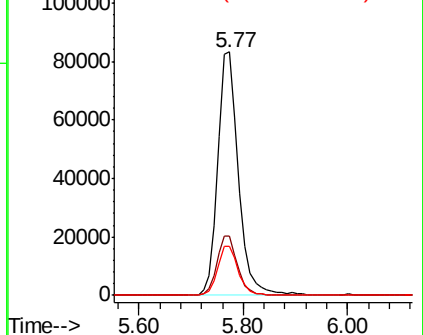
88 19.9 0.0 42.8



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: 50.55 ug/l

RT: 4.30 min Scan# 382

Delta R.T. -0.01 min

Lab File: VF060010.D

Acq: 20 Aug 2018 18:56

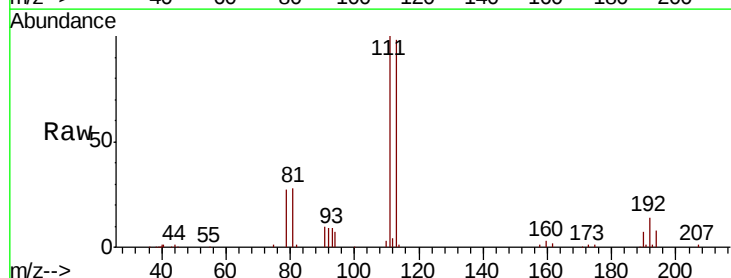
Tgt Ion:113 Resp: 119080

Ion Ratio Lower Upper

113 100

111 102.2 79.5 119.3

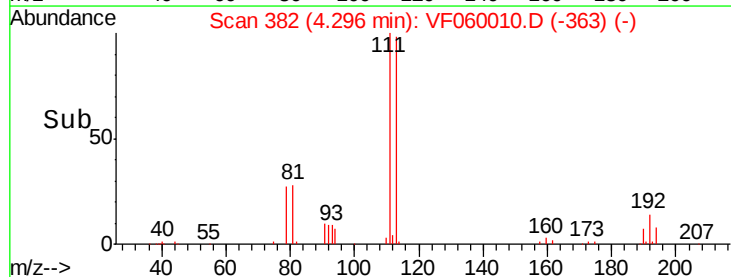
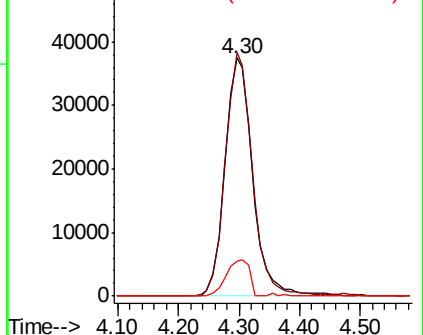
192 14.6 12.4 18.6

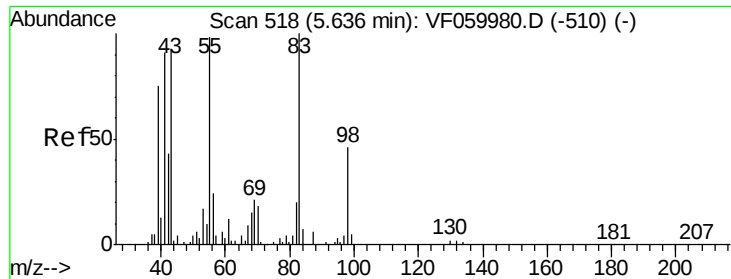


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

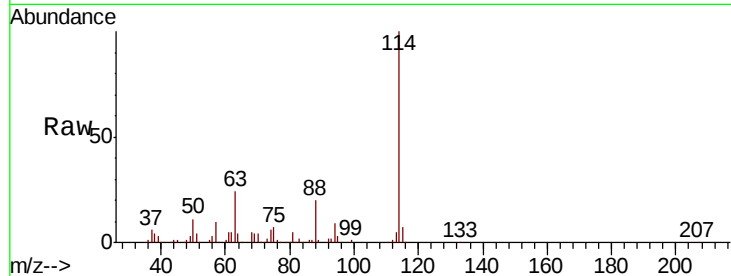




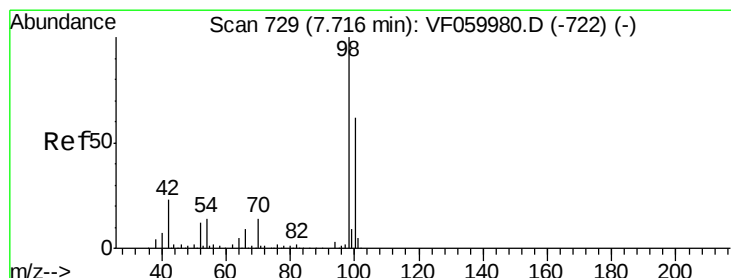
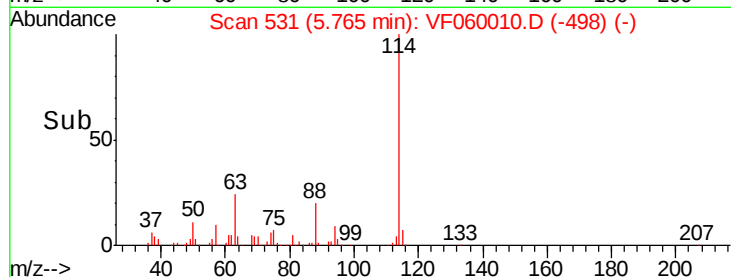
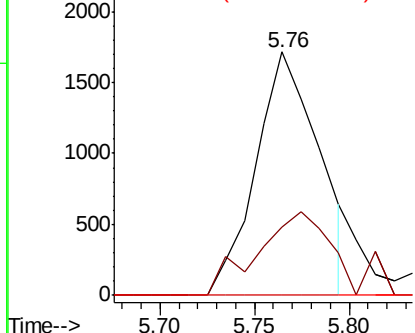
#39
Methvlcvclohexane
Concen: 2.03 ug/l
RT: 5.76 min Scan# 531
Delta R.T. 0.13 min
Lab File: VF060010.D
Acq: 20 Aug 2018 18:56

Instrument :
MSVOA_F
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CARLSTADT-FRONT

Tot Ion: 83 Resp: 4002
Ion Ratio Lower Upper
83 100
55 28.0 78.8 118.2#
98 0.0 36.8 55.2#

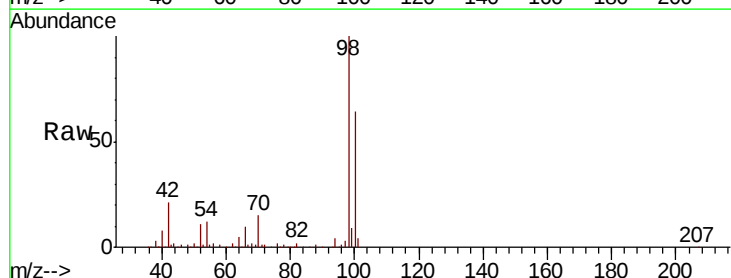


Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0

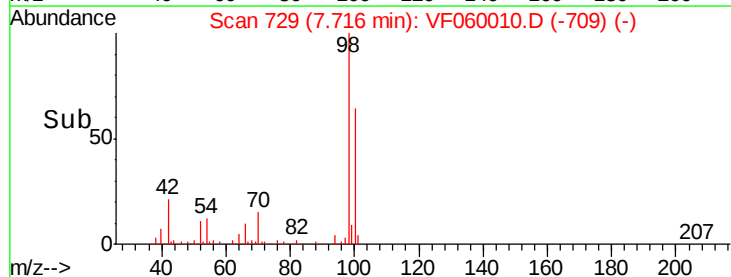
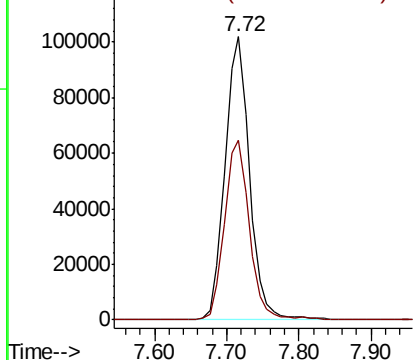


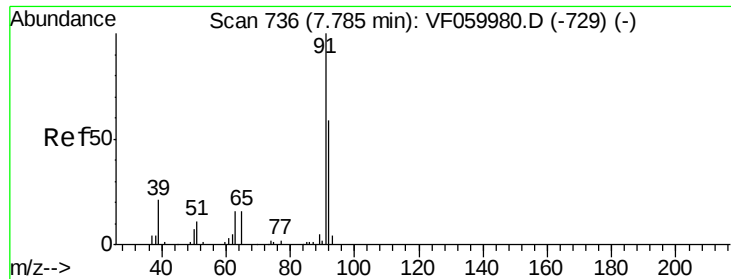
#50
Toluene-d8
Concen: 46.02 ug/l
RT: 7.72 min Scan# 729
Delta R.T. 0.00 min
Lab File: VF060010.D
Acq: 20 Aug 2018 18:56

Tgt Ion: 98 Resp: 241084
Ion Ratio Lower Upper
98 100
100 63.7 49.8 74.8



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





#58

2-Chloroethyl Vinyl ether

Concen: 2.21 ug/l

RT: 7.72 min Scan# 729

Delta R.T. -0.07 min

Lab File: VF060010.D

Acq: 20 Aug 2018 18:56

Instrument :

MSVOA_F

ClientSampleId :

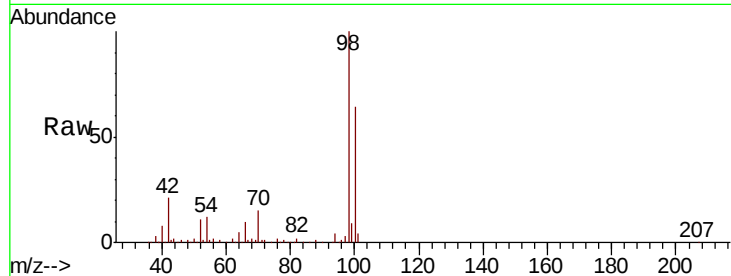
CARLSTADT-FRONT

Tot Ion: 63 Resp: 287

Ion Ratio Lower Upper

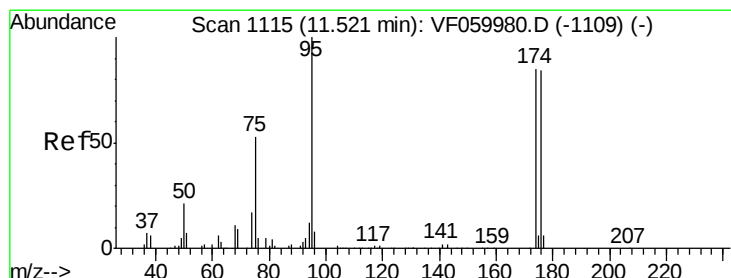
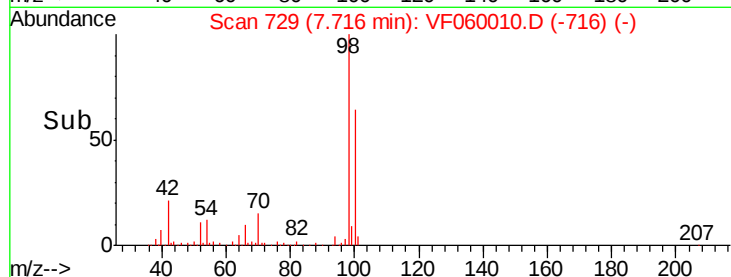
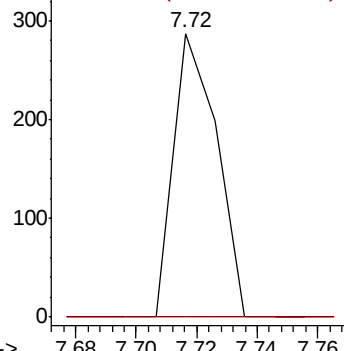
63 100

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



#62

4-Bromofluorobenzene

Concen: 42.30 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. -0.01 min

Lab File: VF060010.D

Acq: 20 Aug 2018 18:56

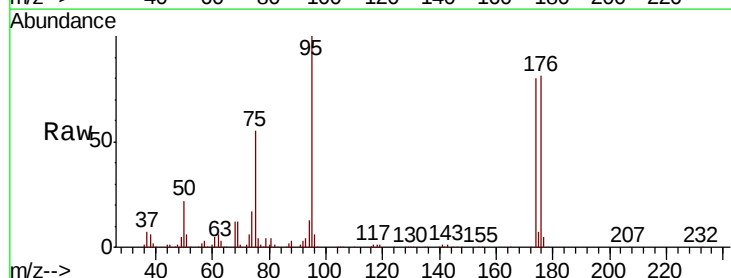
Tgt Ion: 95 Resp: 136006

Ion Ratio Lower Upper

95 100

174 79.7 0.0 169.8

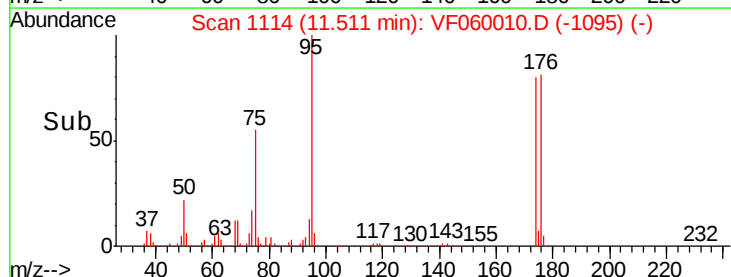
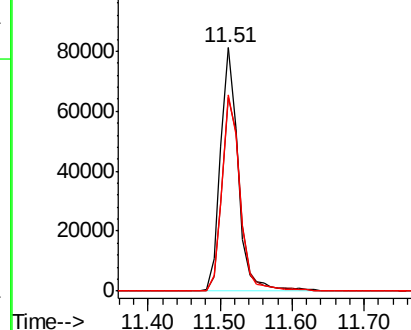
176 80.7 0.0 167.8

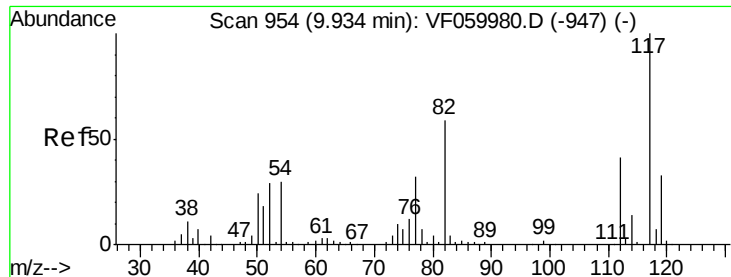


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

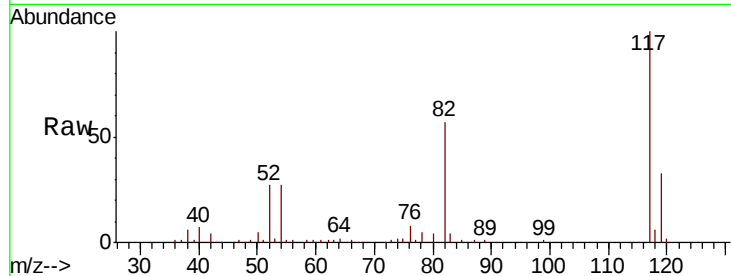




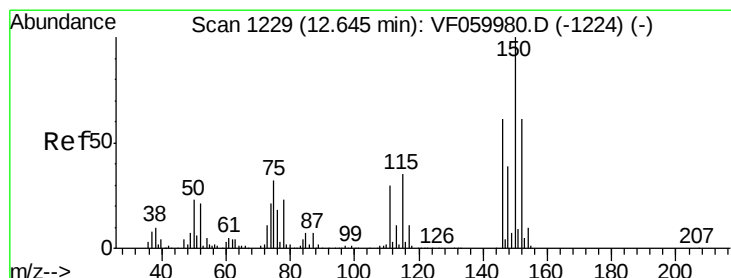
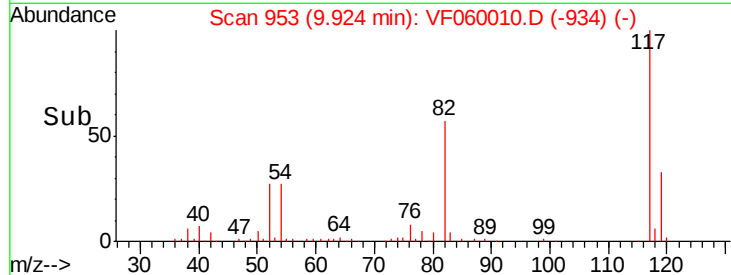
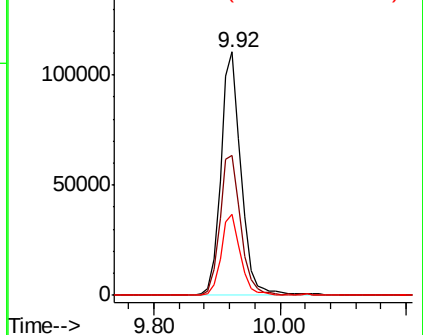
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.92 min Scan# 953
Delta R.T. -0.01 min
Lab File: VF060010.D
Acq: 20 Aug 2018 18:56

Instrument :
MSVOA_F
ClientSampleId :
CARLSTADT-FRONT

Tot Ion:117 Resp: 246951
Ion Ratio Lower Upper
117 100
82 57.5 47.2 70.8
119 33.1 26.1 39.1

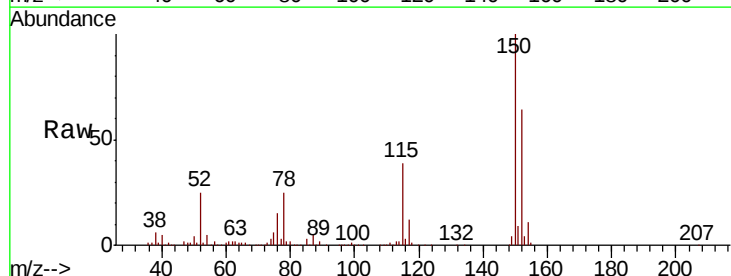


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.64 min Scan# 1228
Delta R.T. -0.01 min
Lab File: VF060010.D
Acq: 20 Aug 2018 18:56

Tgt Ion:152 Resp: 147715
Ion Ratio Lower Upper
152 100
115 60.9 29.1 87.3
150 156.9 0.0 330.2



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

