

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF051019\
 Data File : VF062416.D
 Acq On : 10 May 2019 11:43
 Operator : FY/SY
 Sample : VF0510SBL01
 Misc : 5.00g/5mL/MSVOA_F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0510SBL01

Quant Time: May 10 12:04:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	327891	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.78	114	448472	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.91	117	370281	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.61	152	251671	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.03	65	171858	55.46	ug/l	0.01
Spiked Amount	50.000		Recovery	=	110.92%	
35) Dibromofluoromethane	4.31	113	200006	55.98	ug/l	0.01
Spiked Amount	50.000		Recovery	=	111.96%	
50) Toluene-d8	7.71	98	454666	52.57	ug/l	0.01
Spiked Amount	50.000		Recovery	=	105.14%	
62) 4-Bromofluorobenzene	11.50	95	212403	54.43	ug/l	0.01
Spiked Amount	50.000		Recovery	=	108.86%	

Target Compounds

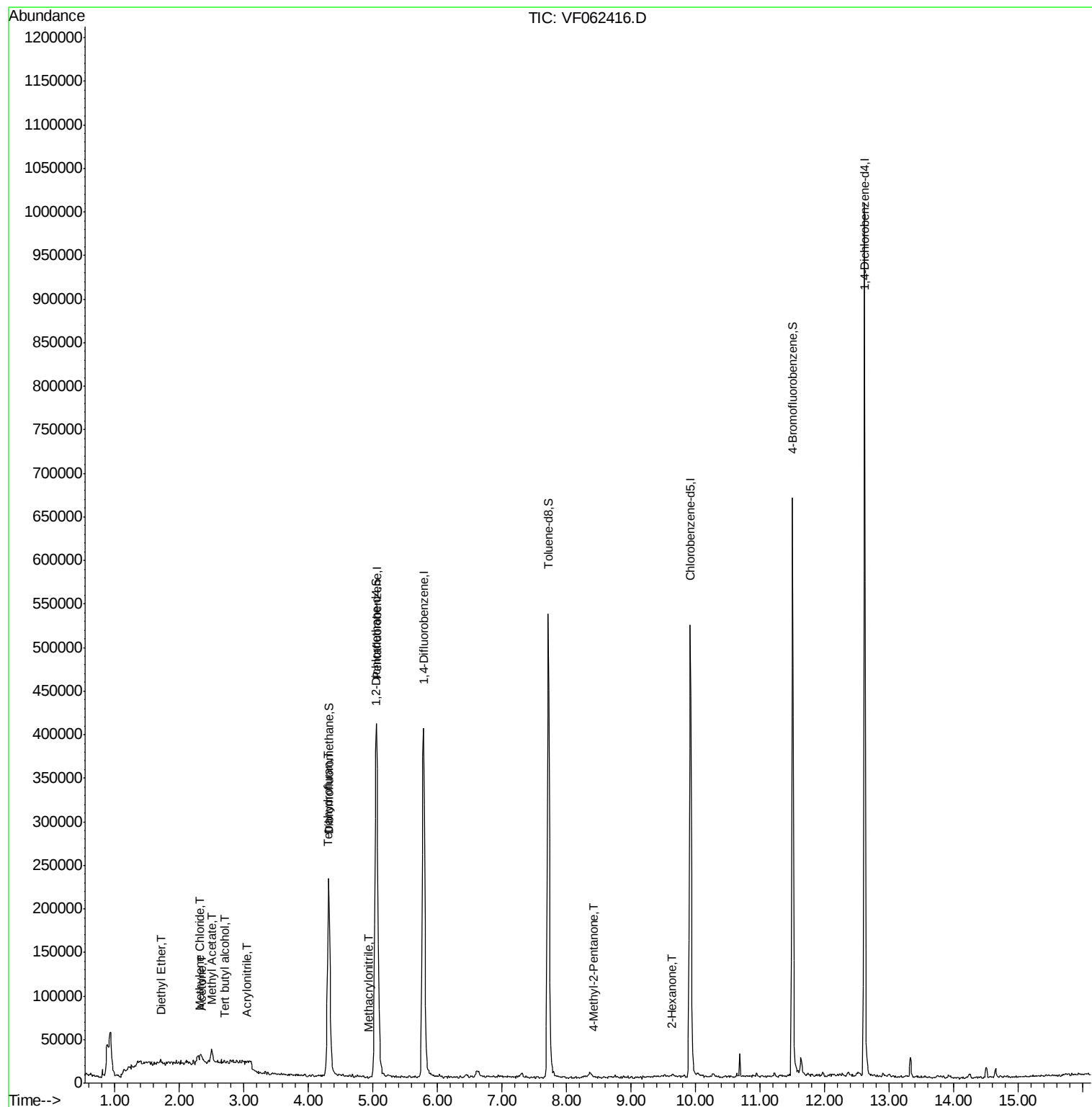
					Qvalue
5) Bromomethane	1.45	94	1030	Below Cal	86
8) Diethyl Ether	1.71	74	1993	2.543 ug/l	69
11) Tert butyl alcohol	2.72	59	715	4.083 ug/l #	1
13) Acrolein	2.13	56	469	Below Cal #	53
15) Acrylonitrile	3.06	53	2002	6.035 ug/l #	24
16) Acetone	2.35	43	3371	5.378 ug/l #	62
18) Methyl Acetate	2.50	43	8009	4.133 ug/l #	61
20) Methylene Chloride	2.31	84	8091	3.568 ug/l #	77
29) Tetrahydrofuran	4.29	42	1215	3.357 ug/l #	68
37) Ethyl Acetate	4.34	43	729	Below Cal #	66
38) Carbon Tetrachloride	4.17	117	61	Below Cal #	14
41) Methacrylonitrile	4.94	41	1001	1.084 ug/l #	46
49) 1,4-Dioxane	6.86	88	85	Below Cal #	1
51) 4-Methyl-2-Pentanone	8.42	43	1828	1.377 ug/l #	80
59) 2-Hexanone	9.64	43	2242	2.441 ug/l	70

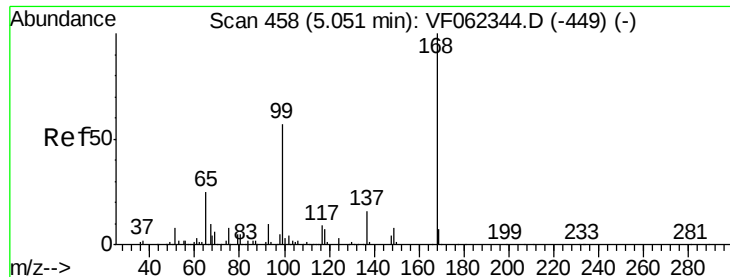
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 460

Delta R.T. 0.01 min

Lab File: VF062416.D

Acq: 10 May 2019 11:43

Instrument :

MSVOA_F

ClientSampleId :

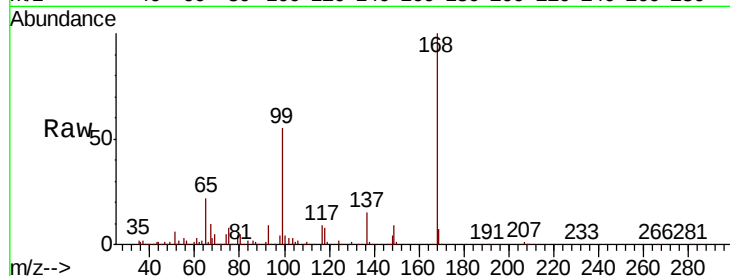
VF0510SBL01

Tgt Ion:168 Resp: 327891

Ion Ratio Lower Upper

168 100

99 54.7 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.06

120000

100000

80000

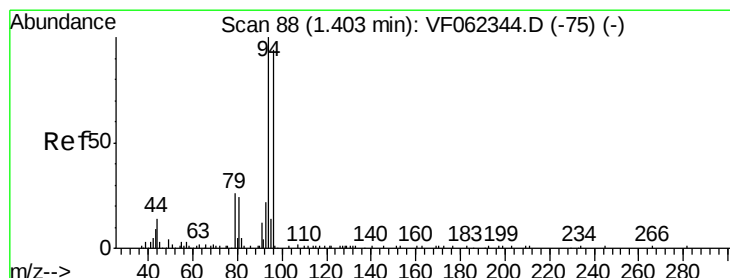
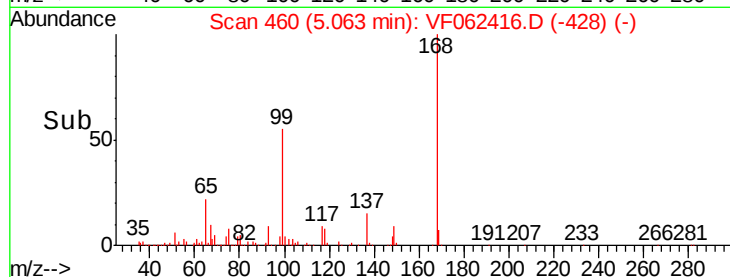
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.45 min Scan# 93

Delta R.T. 0.04 min

Lab File: VF062416.D

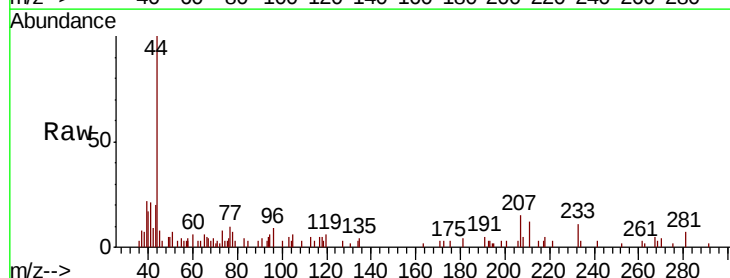
Acq: 10 May 2019 11:43

Tgt Ion: 94 Resp: 1030

Ion Ratio Lower Upper

94 100

96 81.0 75.4 113.2



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

1.45

500

400

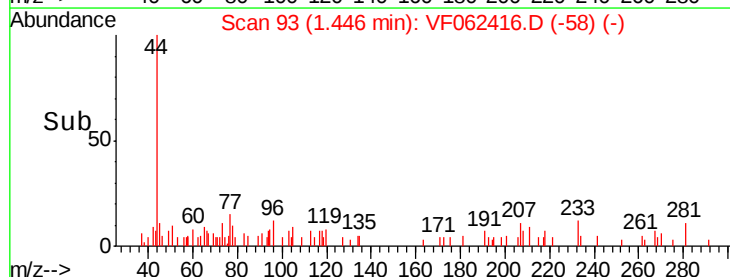
300

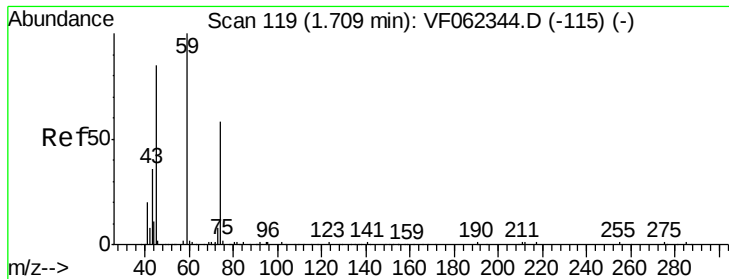
200

100

0

Time-->





#8

Diethyl Ether

Concen: 2.543 ug/l

RT: 1.71 min Scan# 120

Delta R.T. 0.00 min

Lab File: VF062416.D

Acq: 10 May 2019 11:43

Instrument :

MSVOA_F

ClientSampleId :

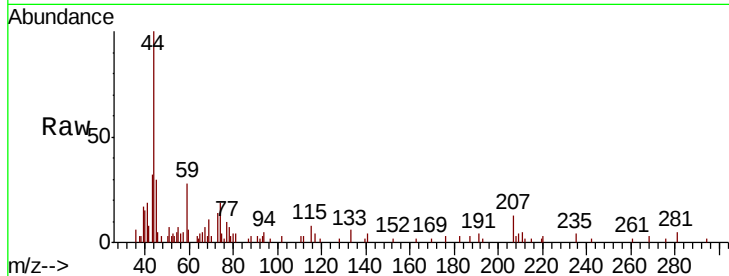
VF0510SBL01

Tgt Ion: 74 Resp: 1993

Ion Ratio Lower Upper

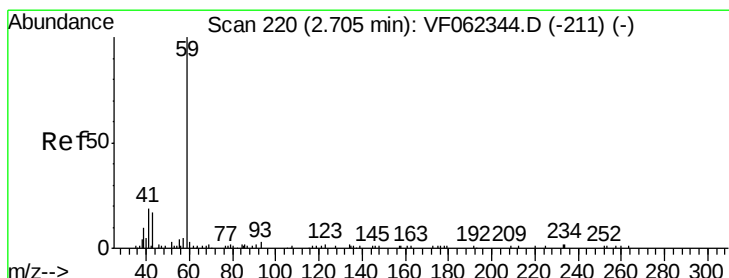
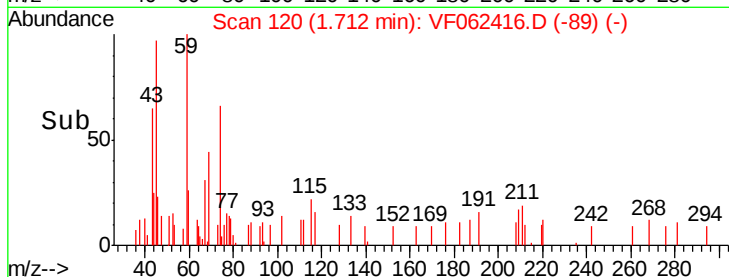
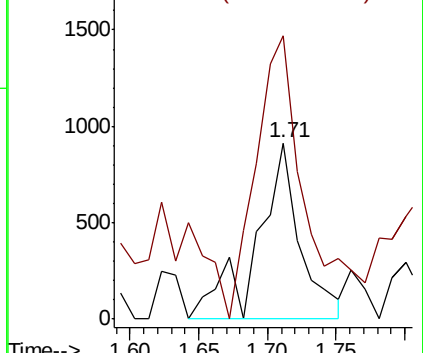
74 100

45 187.0 73.9 221.6



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



#11

Tert butyl alcohol

Concen: 4.083 ug/l

RT: 2.72 min Scan# 222

Delta R.T. 0.01 min

Lab File: VF062416.D

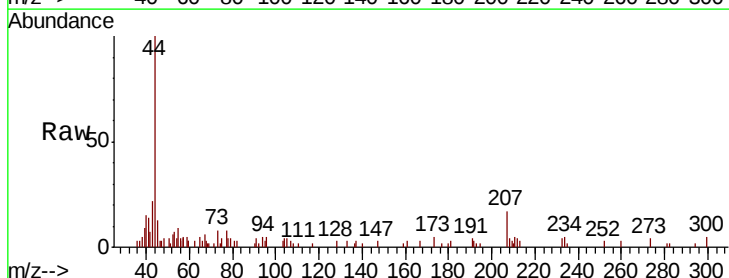
Acq: 10 May 2019 11:43

Tgt Ion: 59 Resp: 715

Ion Ratio Lower Upper

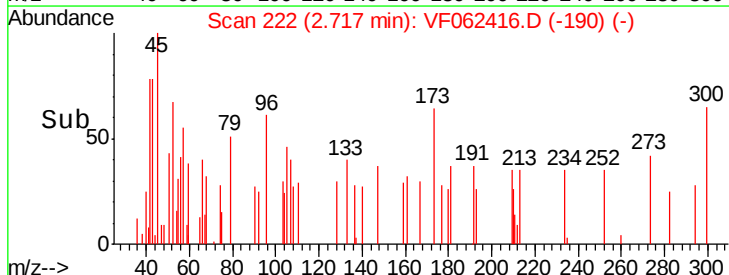
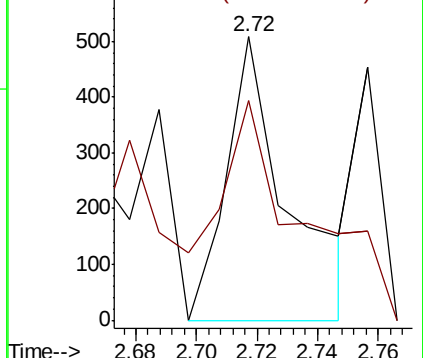
59 100

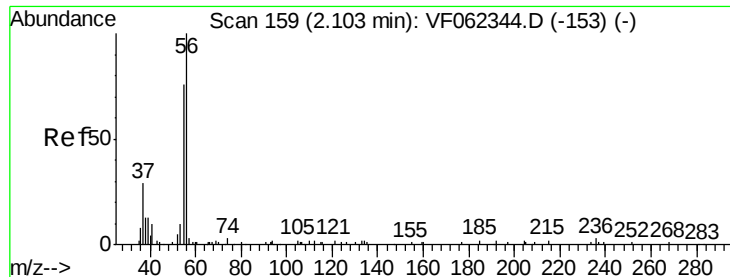
57 103.6 9.3 13.9#



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: 2.13 min Scan# 162

Delta R.T. 0.02 min

Lab File: VF062416.D

Acq: 10 May 2019 11:43

Instrument :

MSVOA_F

ClientSampleId :

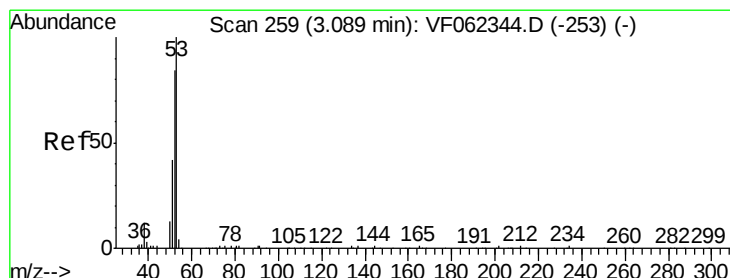
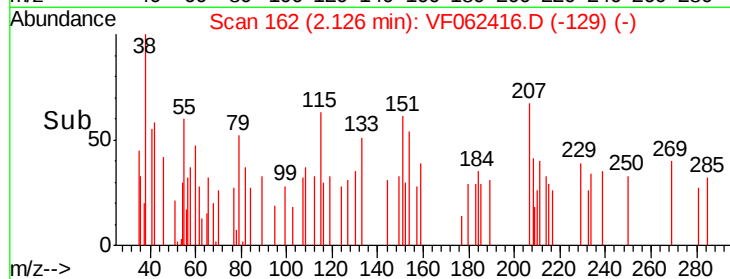
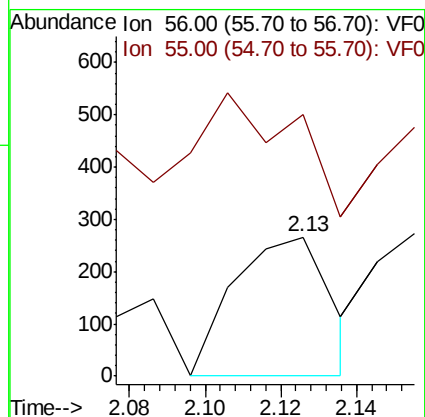
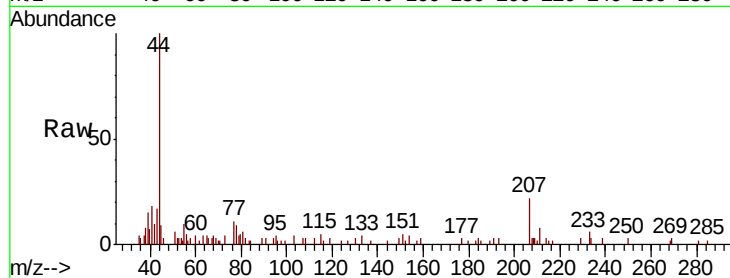
VF0510SBL01

Tgt Ion: 56 Resp: 469

Ion Ratio Lower Upper

56 100

55 112.6 58.4 87.6#



#15

Acrylonitrile

Concen: 6.035 ug/l

RT: 3.06 min Scan# 257

Delta R.T. -0.03 min

Lab File: VF062416.D

Acq: 10 May 2019 11:43

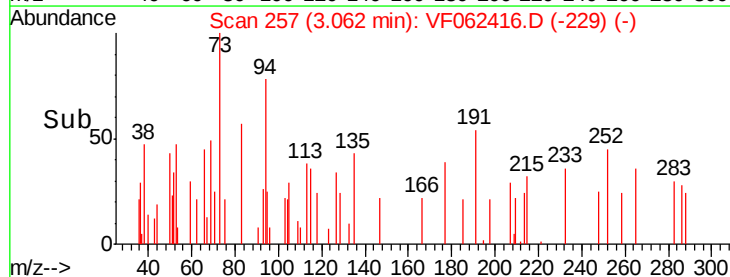
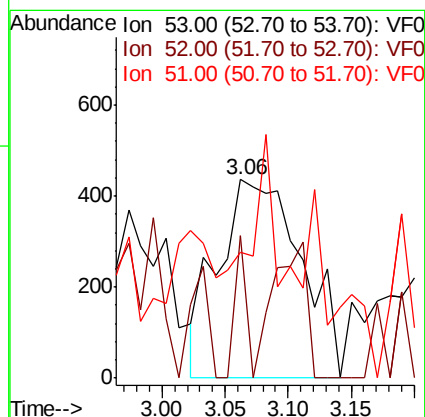
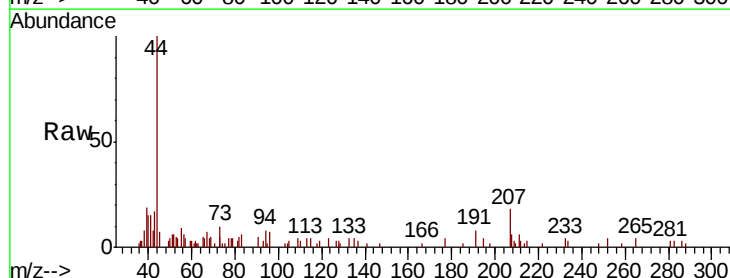
Tgt Ion: 53 Resp: 2002

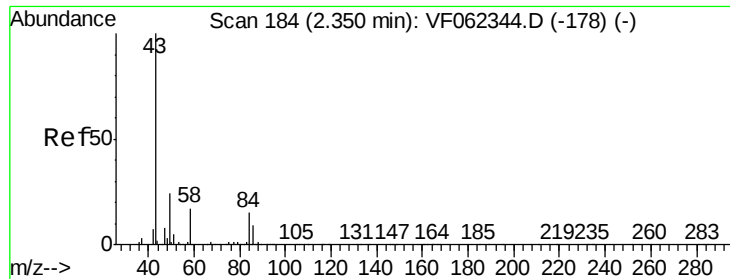
Ion Ratio Lower Upper

53 100

52 9.2 77.2 115.8#

51 15.9 40.6 61.0#





#16

Acetone

Concen: 5.378 ug/l

RT: 2.35 min Scan# 185

Delta R.T. 0.00 min

Lab File: VF062416.D

Acq: 10 May 2019 11:43

Instrument :

MSVOA_F

ClientSampleId :

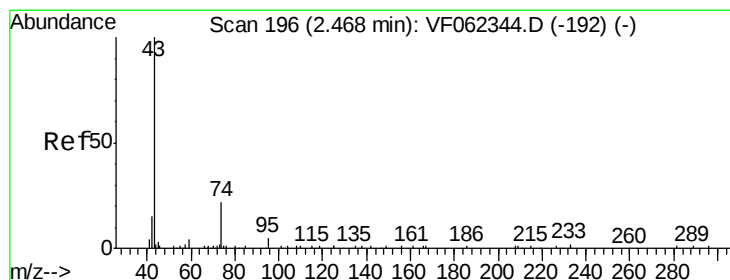
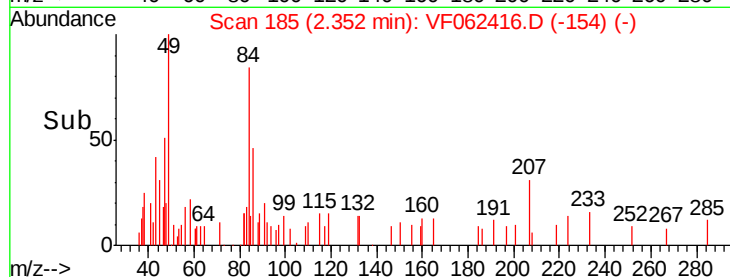
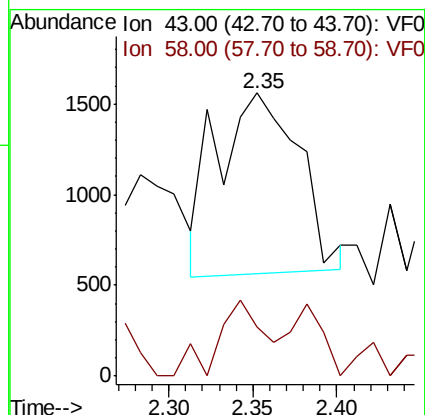
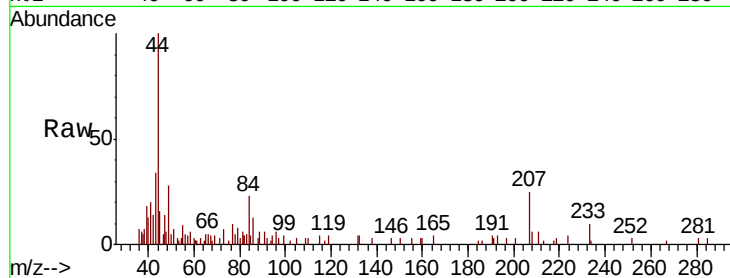
VF0510SBL01

Tgt Ion: 43 Resp: 3371

Ion Ratio Lower Upper

43 100

58 32.6 13.1 19.7#



#18

Methyl Acetate

Concen: 4.133 ug/l

RT: 2.50 min Scan# 200

Delta R.T. 0.03 min

Lab File: VF062416.D

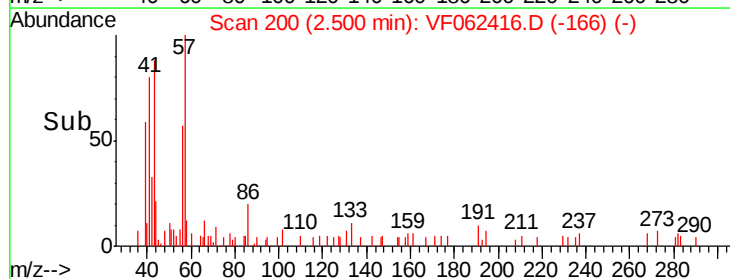
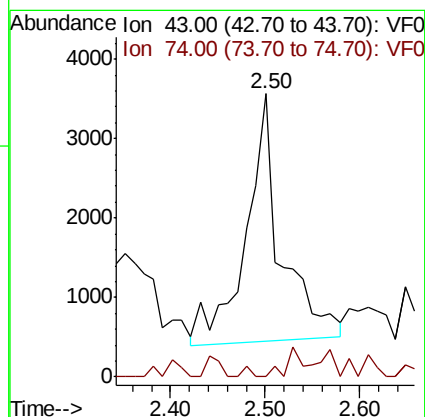
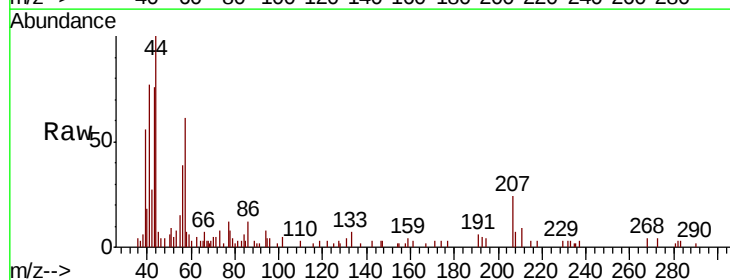
Acq: 10 May 2019 11:43

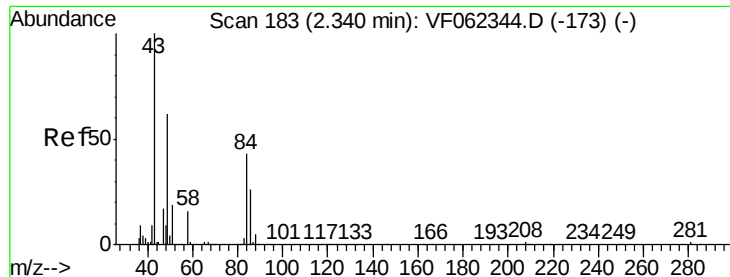
Tgt Ion: 43 Resp: 8009

Ion Ratio Lower Upper

43 100

74 1.0 15.0 22.4#

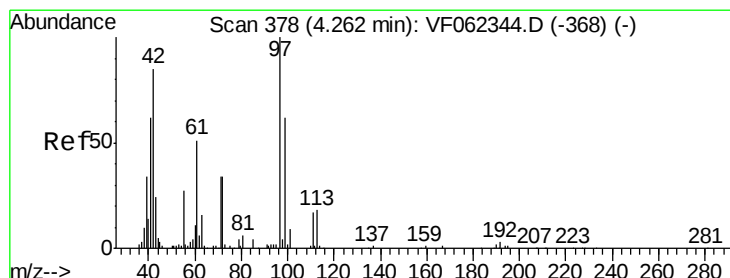
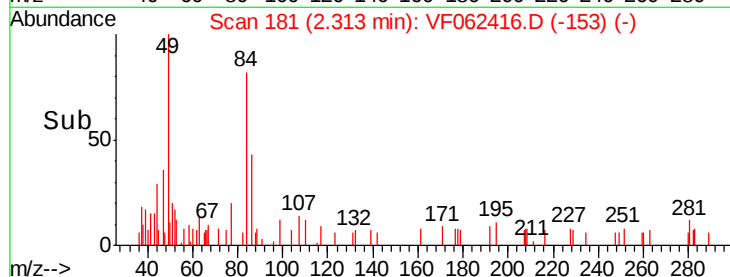
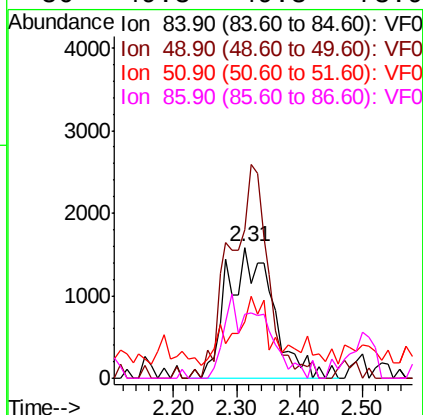
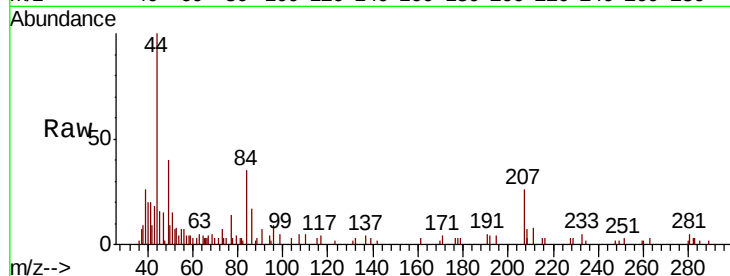




#20
Methylene Chloride
Concen: 3.568 ug/l
RT: 2.31 min Scan# 181
Delta R.T. -0.03 min
Lab File: VF062416.D
Acq: 10 May 2019 11:43

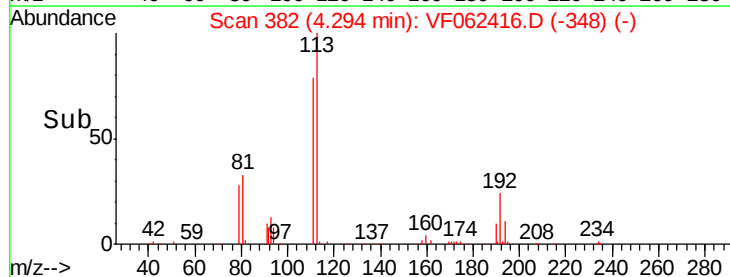
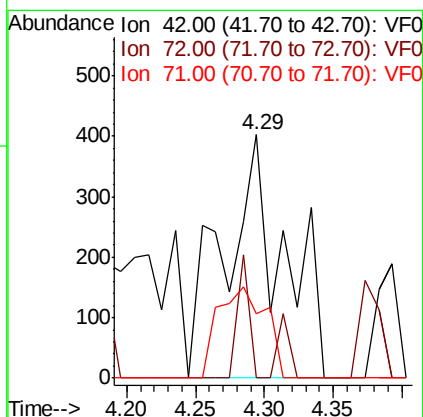
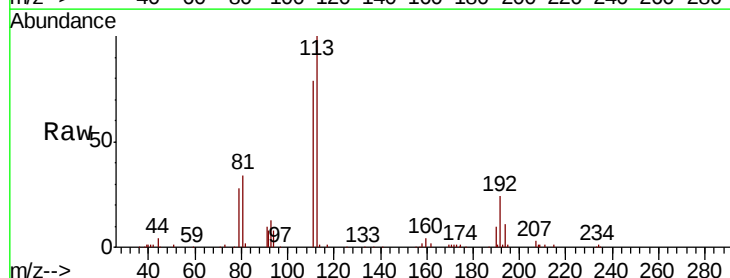
Instrument :
MSVOA_F
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VF0510SBL01

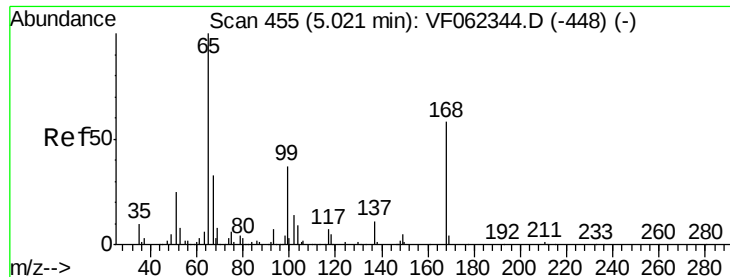
Tgt Ion: 84 Resp: 8091
Ion Ratio Lower Upper
84 100
49 113.6 117.5 176.3#
51 31.9 37.0 55.4#
86 49.3 49.3 73.9



#29
Tetrahydrofuran
Concen: 3.357 ug/l
RT: 4.29 min Scan# 382
Delta R.T. 0.03 min
Lab File: VF062416.D
Acq: 10 May 2019 11:43

Tgt Ion: 42 Resp: 1215
Ion Ratio Lower Upper
42 100
72 10.0 31.4 47.0#
71 29.9 31.7 47.5#





#33

1,2-Dichloroethane-d4

Concen: 55.461 ug/l

RT: 5.03 min Scan# 457

Delta R.T. 0.01 min

Lab File: VF062416.D

Acq: 10 May 2019 11:43

Instrument :

MSVOA_F

ClientSampleId :

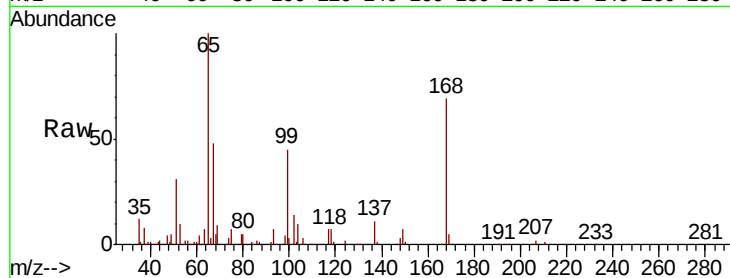
VF0510SBL01

Tgt Ion: 65 Resp: 171858

Ion Ratio Lower Upper

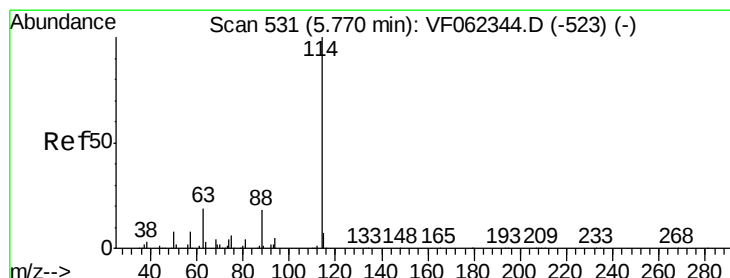
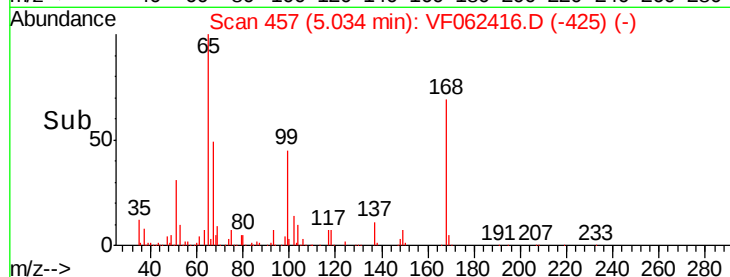
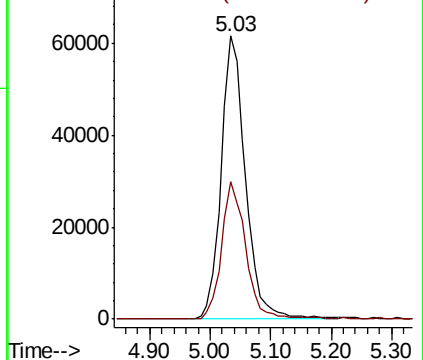
65 100

67 47.5 0.0 85.8



Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.78 min Scan# 533

Delta R.T. 0.01 min

Lab File: VF062416.D

Acq: 10 May 2019 11:43

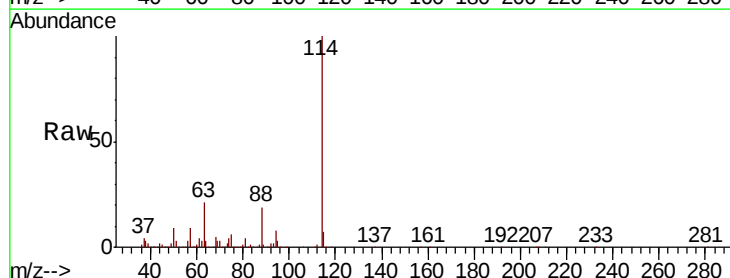
Tgt Ion: 114 Resp: 448472

Ion Ratio Lower Upper

114 100

63 20.8 0.0 37.4

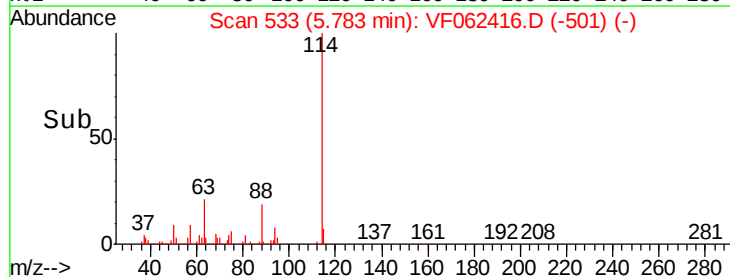
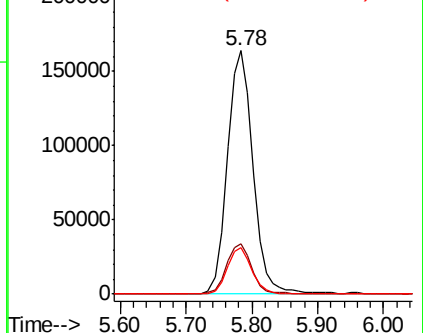
88 19.1 0.0 36.4

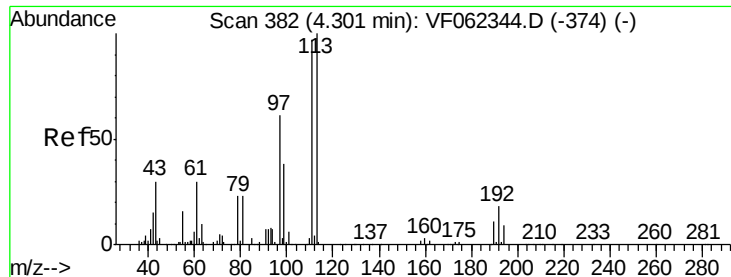


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 87.90 (87.60 to 88.60): VF0

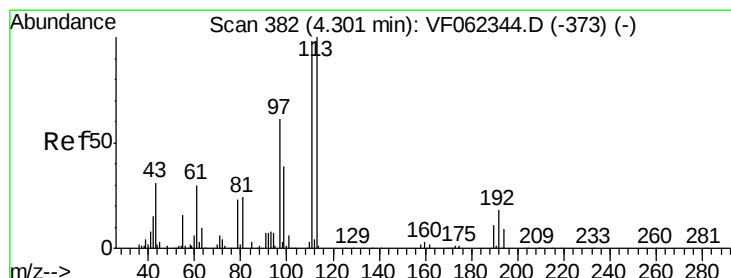
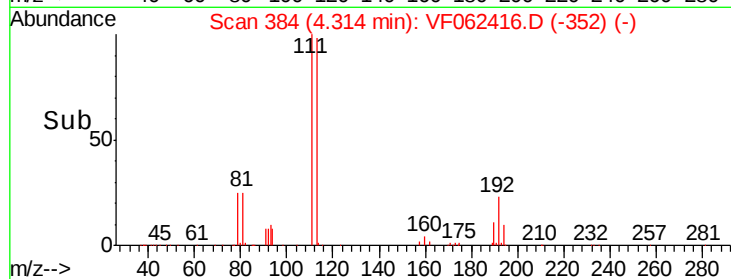
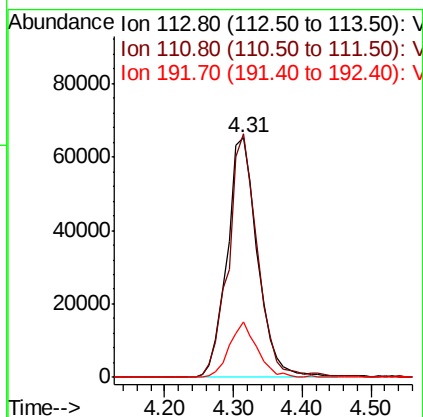
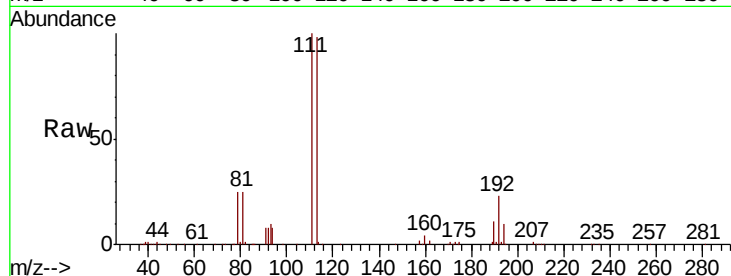




#35
Dibromofluoromethane
Concen: 55.979 ug/l
RT: 4.31 min Scan# 384
Delta R.T. 0.01 min
Lab File: VF062416.D
Acq: 10 May 2019 11:43

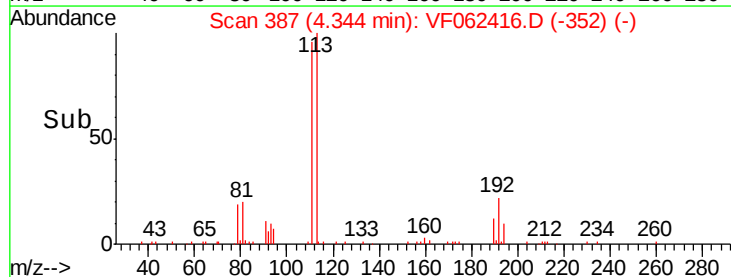
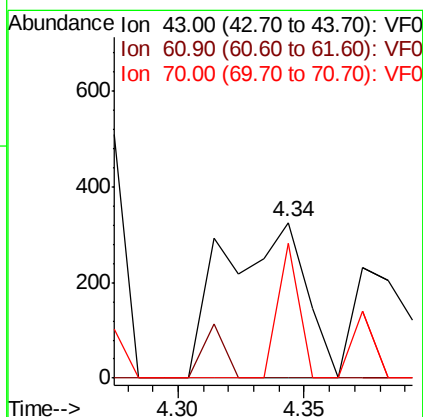
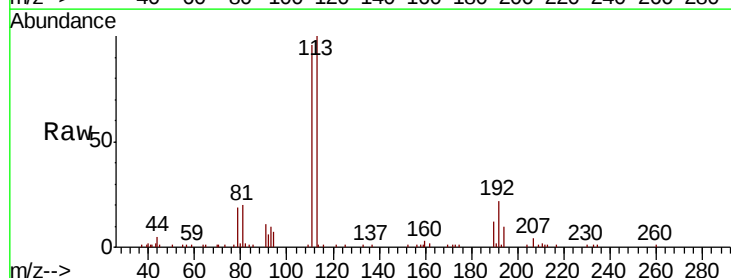
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ClientSampleId :
VF0510SBL01

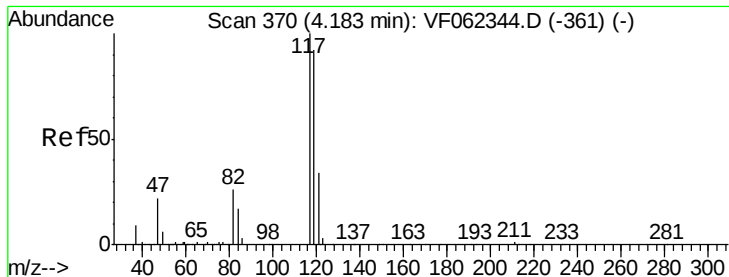
Tgt Ion: 113 Resp: 200006
Ion Ratio Lower Upper
113 100
111 97.1 79.4 119.0
192 21.6 16.0 24.0



#37
Ethyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 387
Delta R.T. 0.04 min
Lab File: VF062416.D
Acq: 10 May 2019 11:43

Tgt Ion: 43 Resp: 729
Ion Ratio Lower Upper
43 100
61 0.0 0.0 0.0
70 22.8 8.2 12.2#





#38

Carbon Tetrachloride

Concen: Below Cal

RT: 4.17 min Scan# 369

Delta R.T. -0.02 min

Lab File: VF062416.D

Acq: 10 May 2019 11:43

Instrument :

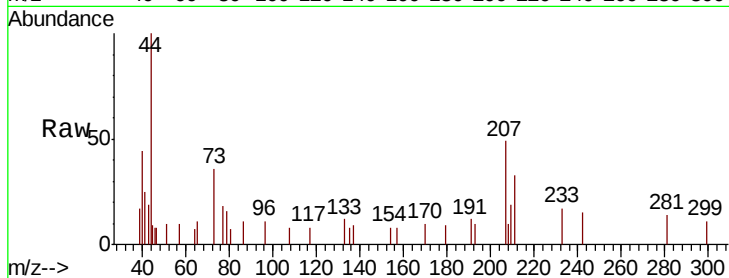
MSVOA_F

ClientSampleId :

VF0510SBL01

Tgt Ion: 117 Resp: 61

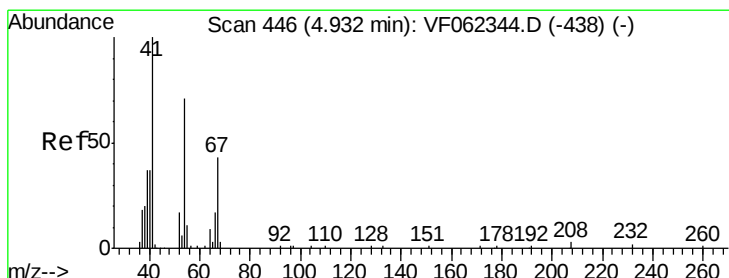
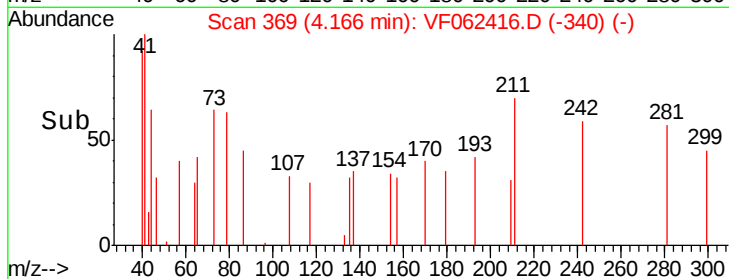
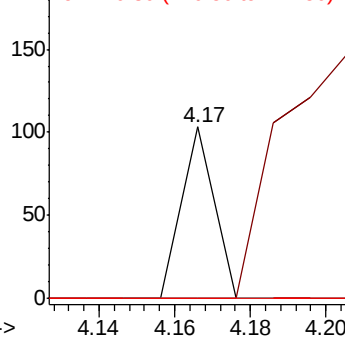
Ion	Ratio	Lower	Upper
117	100		
119	0.0	73.4	110.2#
121	0.0	27.4	41.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 1.084 ug/l

RT: 4.94 min Scan# 447

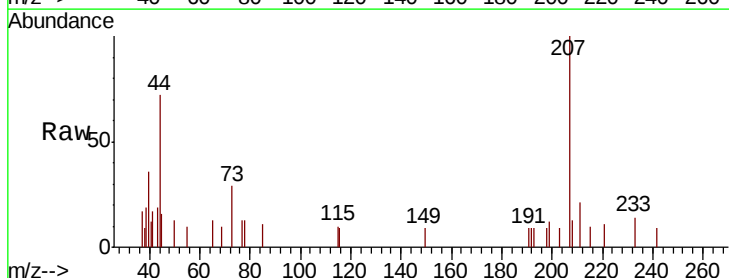
Delta R.T. 0.00 min

Lab File: VF062416.D

Acq: 10 May 2019 11:43

Tgt Ion: 41 Resp: 1001

Ion	Ratio	Lower	Upper
41	100		
39	61.8	54.3	81.5
67	0.0	37.8	56.8#
52	0.0	58.2	87.4#

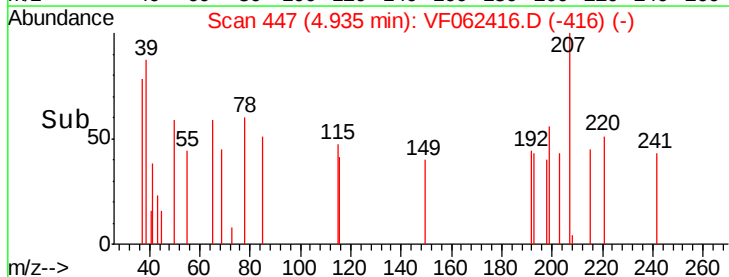
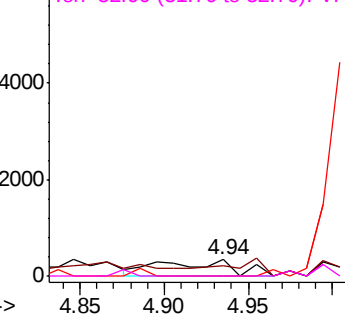


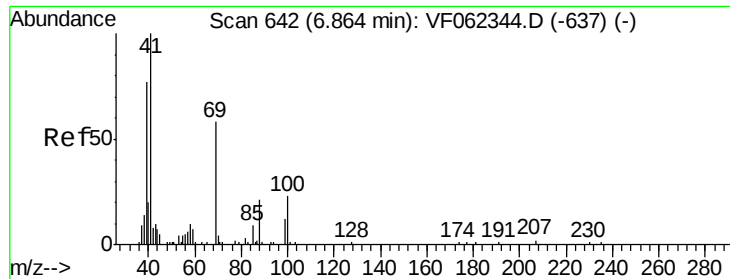
Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

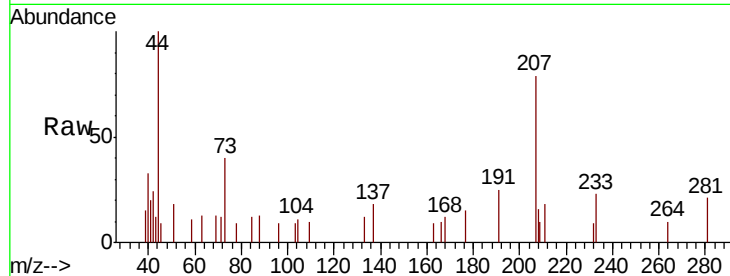




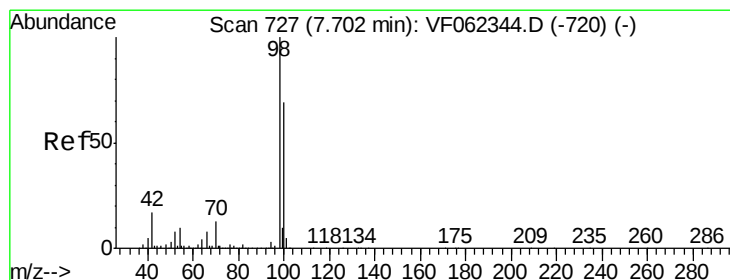
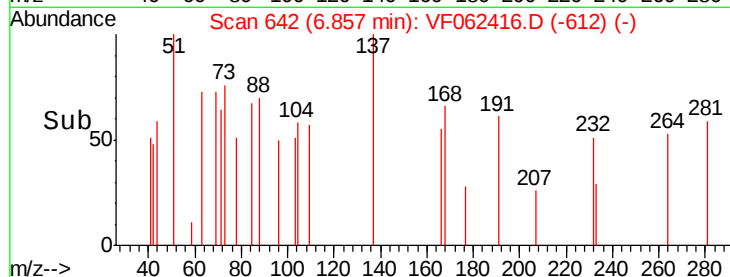
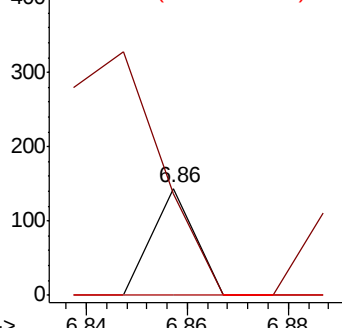
#49
 1,4-Dioxane
 Concen: Below Cal
 RT: 6.86 min Scan# 642
 Delta R.T. -0.01 min
 Lab File: VF062416.D
 Acq: 10 May 2019 11:43

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0510SBL01

Tgt Ion: 88 Resp: 85
 Ion Ratio Lower Upper
 88 100
 43 1187.1 55.6 83.4#
 58 0.0 52.8 79.2#

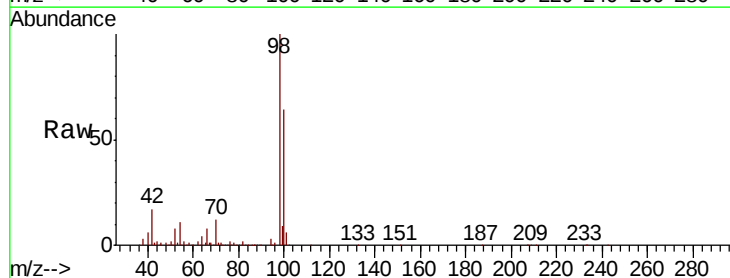


Abundance Ion 88.00 (87.70 to 88.70): VF0
 Ion 43.00 (42.70 to 43.70): VF0
 Ion 58.00 (57.70 to 58.70): VF0

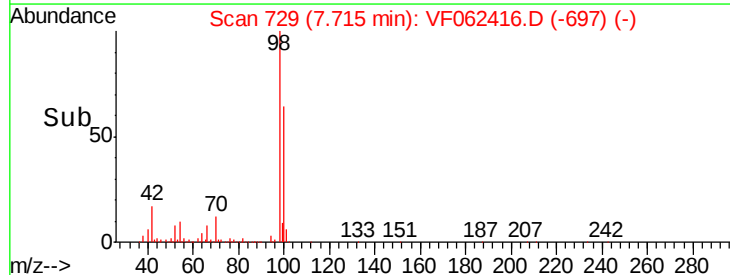
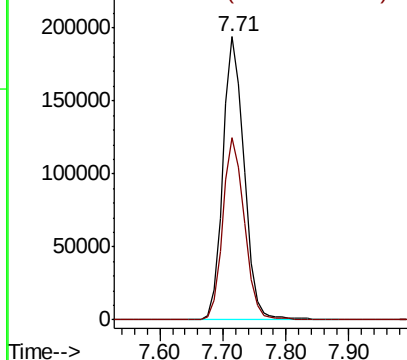


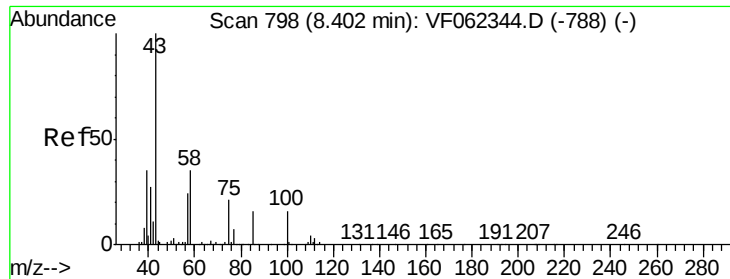
#50
 Toluene-d8
 Concen: 52.570 ug/l
 RT: 7.71 min Scan# 729
 Delta R.T. 0.01 min
 Lab File: VF062416.D
 Acq: 10 May 2019 11:43

Tgt Ion: 98 Resp: 454666
 Ion Ratio Lower Upper
 98 100
 100 65.4 53.3 79.9



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

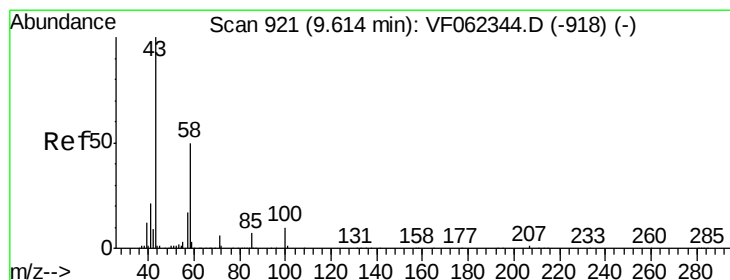
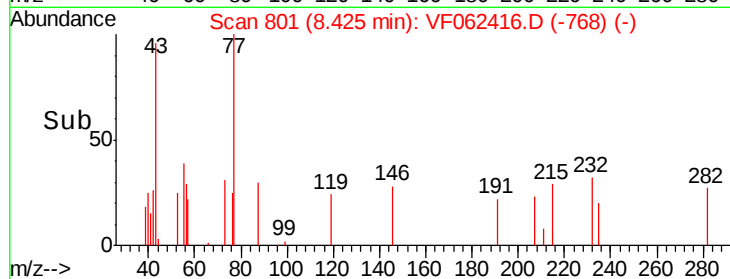
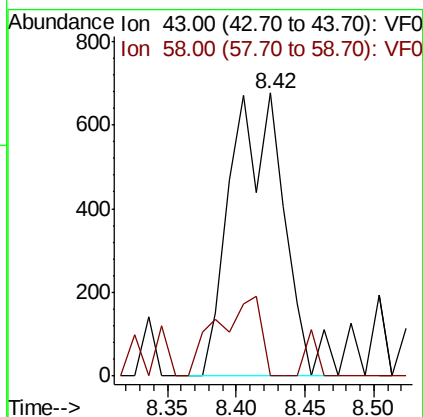
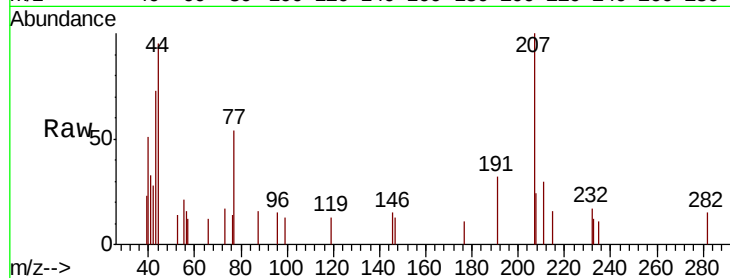




#51
 4-Methyl-2-Pentanone
 Concen: 1.377 ug/l
 RT: 8.42 min Scan# 801
 Delta R.T. 0.02 min
 Lab File: VF062416.D
 Acq: 10 May 2019 11:43

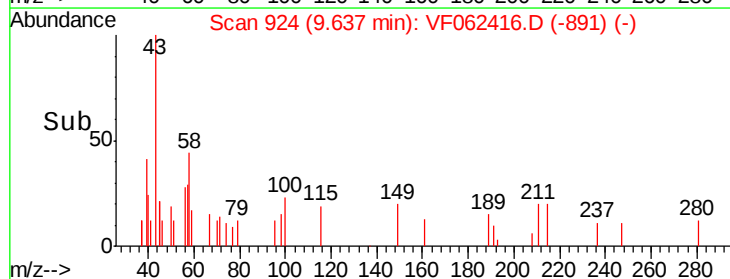
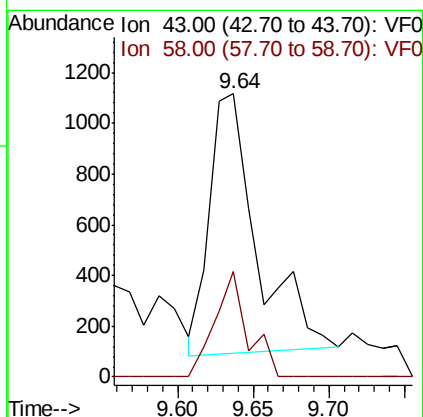
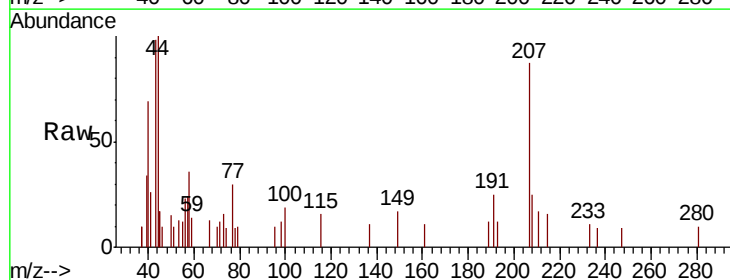
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0510SBL01

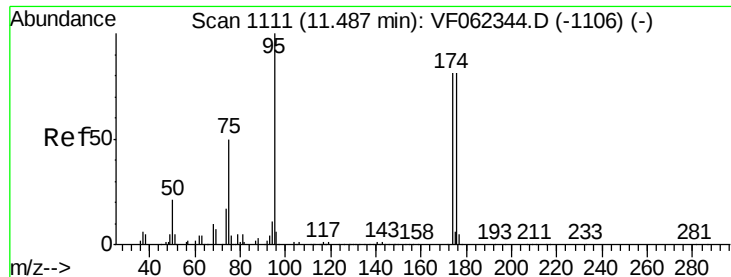
Tgt Ion: 43 Resp: 1828
 Ion Ratio Lower Upper
 43 100
 58 22.9 27.8 41.6#



#59
 2-Hexanone
 Concen: 2.441 ug/l
 RT: 9.64 min Scan# 924
 Delta R.T. 0.02 min
 Lab File: VF062416.D
 Acq: 10 May 2019 11:43

Tgt Ion: 43 Resp: 2242
 Ion Ratio Lower Upper
 43 100
 58 28.2 24.3 73.0





#62

4-Bromofluorobenzene

Concen: 54.434 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. 0.01 min

Lab File: VF062416.D

Acq: 10 May 2019 11:43

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBL01

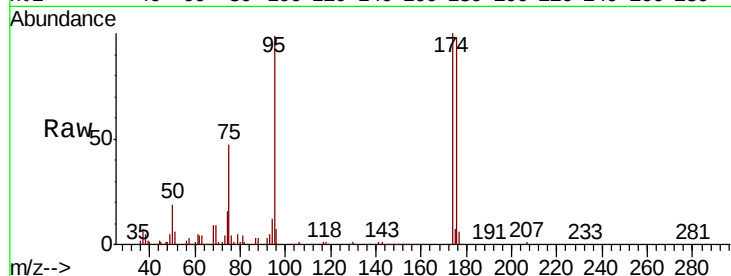
Tgt Ion: 95 Resp: 212403

Ion Ratio Lower Upper

95 100

174 99.6 0.0 191.8

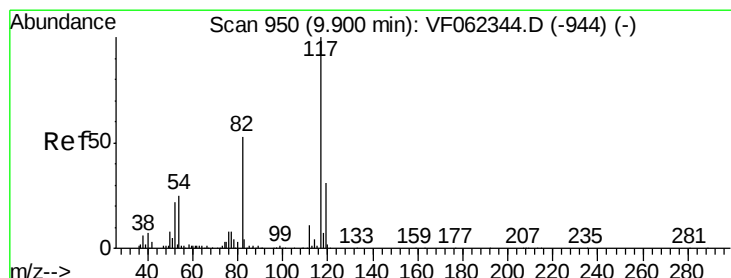
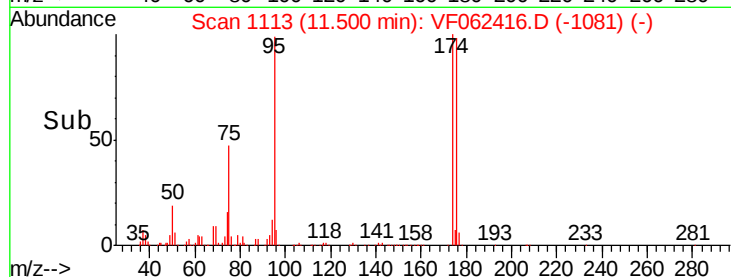
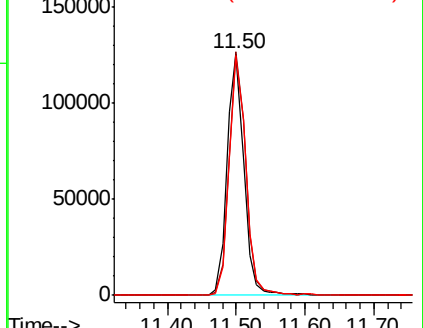
176 99.2 0.0 193.2



Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.91 min Scan# 952

Delta R.T. 0.01 min

Lab File: VF062416.D

Acq: 10 May 2019 11:43

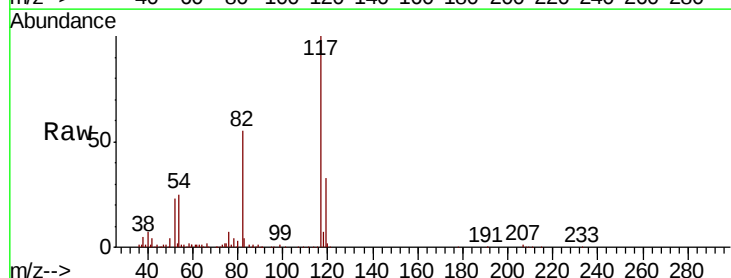
Tgt Ion: 117 Resp: 370281

Ion Ratio Lower Upper

117 100

82 55.0 42.2 63.2

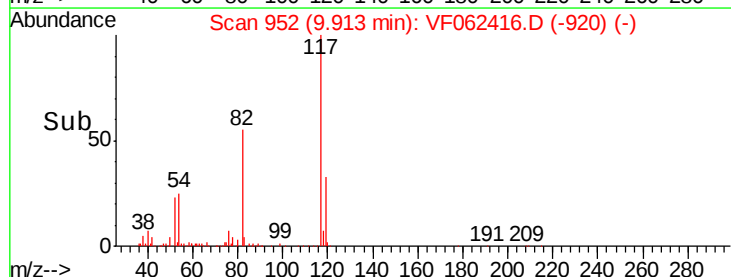
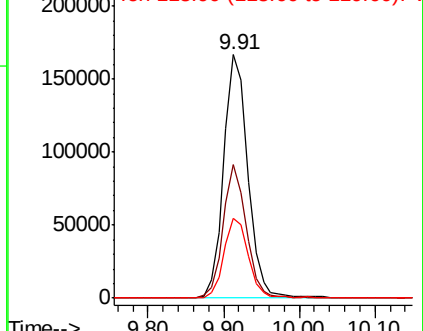
119 32.7 25.0 37.4

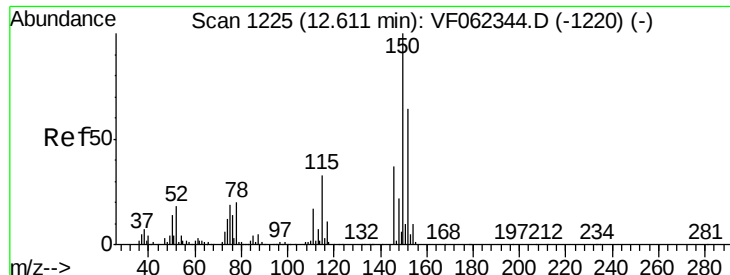


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.61 min Scan# 1226

Delta R.T. 0.00 min

Lab File: VF062416.D

Acq: 10 May 2019 11:43

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBL01

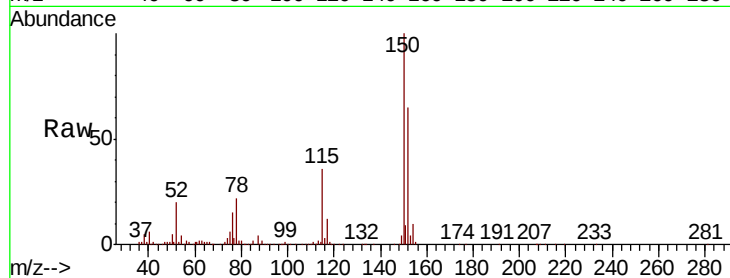
Tgt Ion:152 Resp: 251671

Ion Ratio Lower Upper

152 100

115 55.2 26.4 79.2

150 156.8 0.0 335.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

