

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051019\
 Data File : VF062449.D
 Acq On : 11 May 2019 5:56
 Operator : FY/SY
 Sample : K2729-01
 Misc : 6.82g/5mL/MSVOA F/SOIL
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 B-1

Quant Time: May 11 06:53:20 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	299764	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.78	114	419337	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.91	117	327343	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.62	152	175826	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.05	65	197245	69.63	ug/l	0.02
Spiked Amount 50.000			Recovery	=	139.26%	
35) Dibromofluoromethane	4.32	113	230030	68.86	ug/l	0.01
Spiked Amount 50.000			Recovery	=	137.72%	
50) Toluene-d8	7.72	98	370645	45.83	ug/l	0.01
Spiked Amount 50.000			Recovery	=	91.66%	
62) 4-Bromofluorobenzene	11.50	95	172203	47.20	ug/l	0.01
Spiked Amount 50.000			Recovery	=	94.40%	

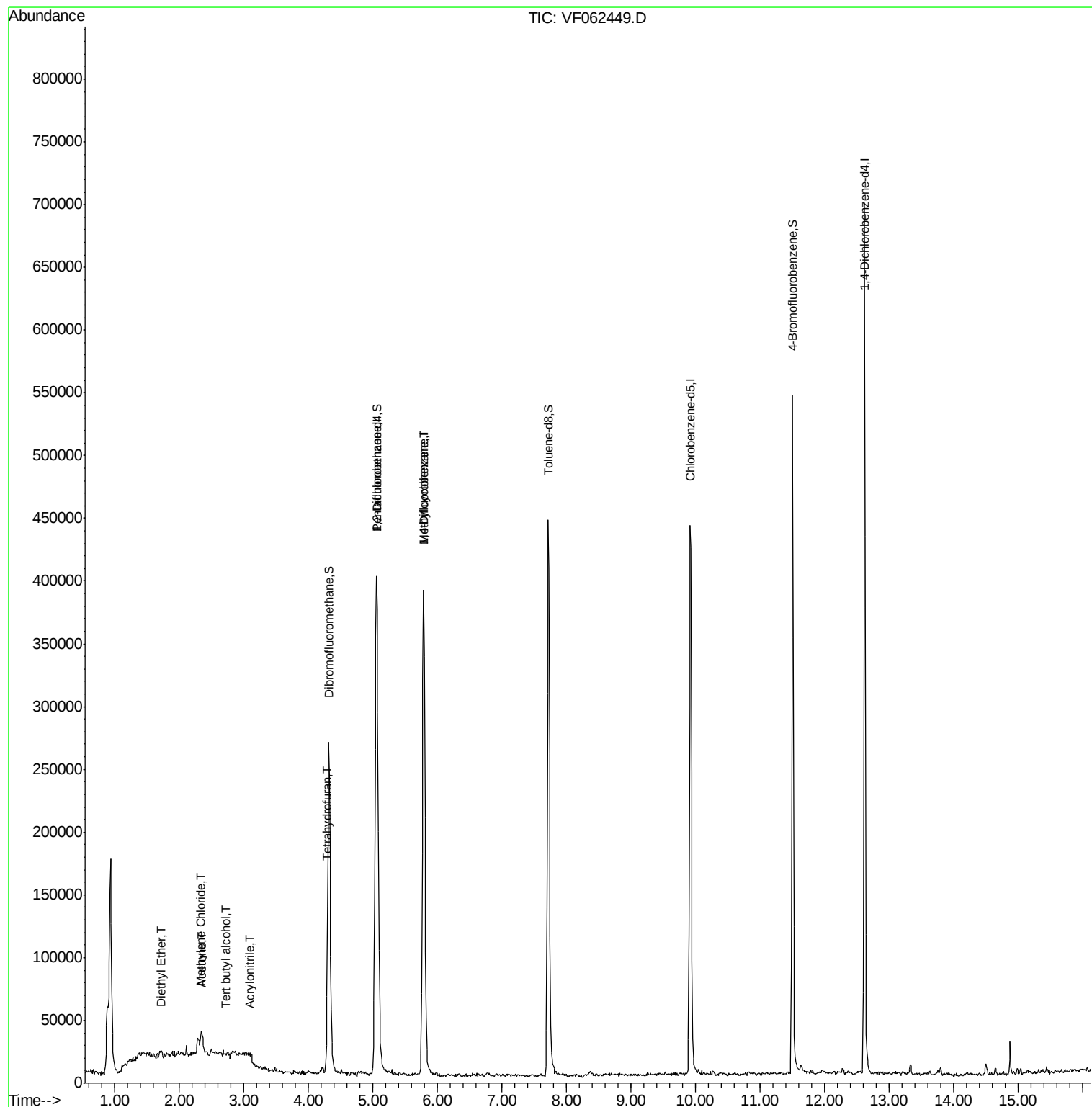
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.40	94	623	Below Cal	#	18
8) Diethyl Ether	1.71	74	1349	1.883	ug/l	61
11) Tert butyl alcohol	2.72	59	797	4.978	ug/l #	2
13) Acrolein	2.10	56	515	Below Cal	#	13
15) Acrylonitrile	3.09	53	843	2.780	ug/l #	42
16) Acetone	2.35	43	17108	29.853	ug/l #	89
18) Methyl Acetate	2.49	43	1055	Below Cal	#	55
20) Methylene Chloride	2.33	84	7132	3.440	ug/l #	75
29) Tetrahydrofuran	4.29	42	621	1.877	ug/l #	83
37) Ethyl Acetate	4.30	43	503	Below Cal	#	73
38) Carbon Tetrachloride	4.26	117	68	Below Cal	#	14
39) Methylcyclohexane	5.79	83	7043	1.949	ug/l #	31
49) 1,4-Dioxane	6.93	88	70	Below Cal	#	1

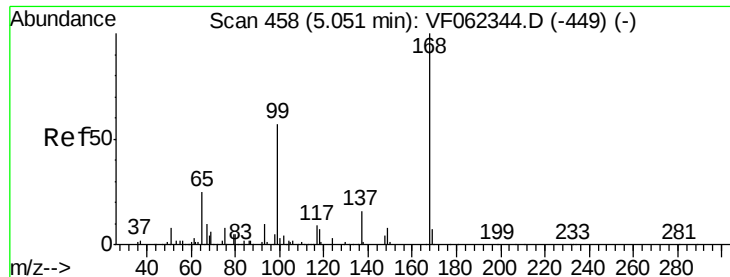
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 460

Delta R.T. 0.01 min

Lab File: VF062449.D

Acq: 11 May 2019 5:56

Instrument :

MSVOA_F

ClientSampleId :

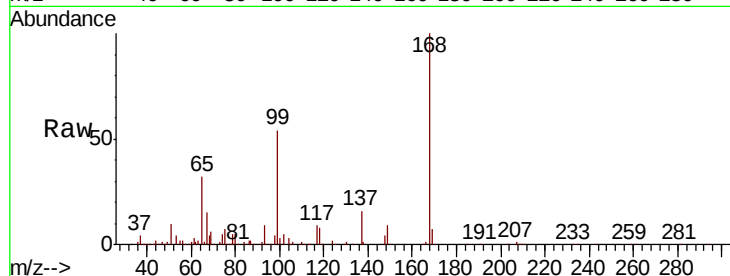
B-1

Tot Ion:168 Resp: 299764

Ion Ratio Lower Upper

168 100

99 54.2 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

100000

80000

60000

40000

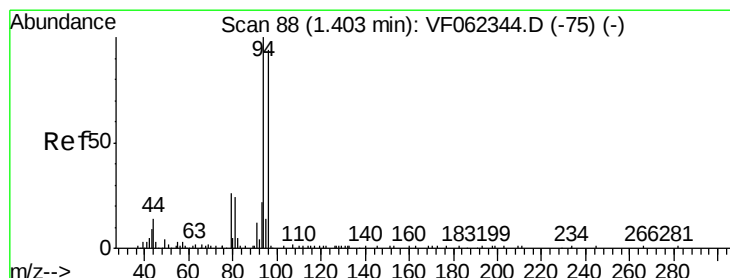
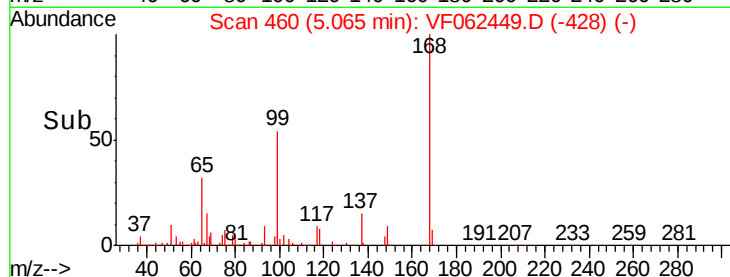
20000

0

Time-->

5.00

5.20



#5

Bromomethane

Concen: Below Cal

RT: 1.40 min Scan# 88

Delta R.T. -0.01 min

Lab File: VF062449.D

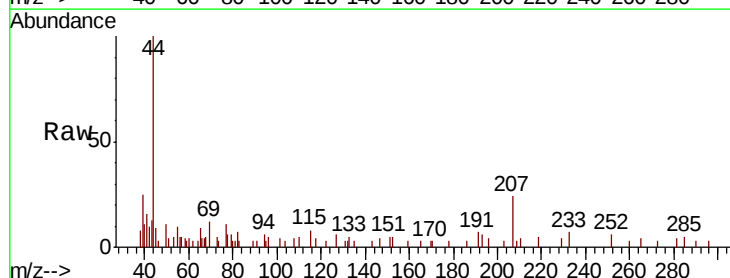
Acq: 11 May 2019 5:56

Tgt Ion: 94 Resp: 623

Ion Ratio Lower Upper

94 100

96 14.8 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

400

300

200

100

0

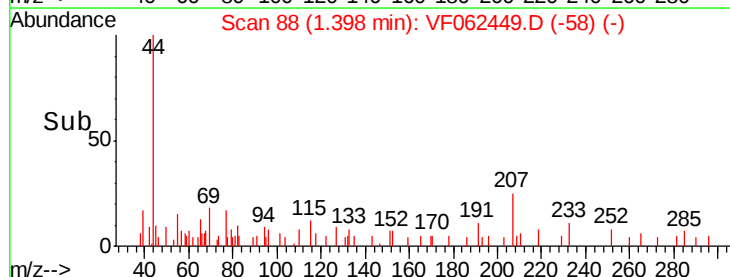
Time-->

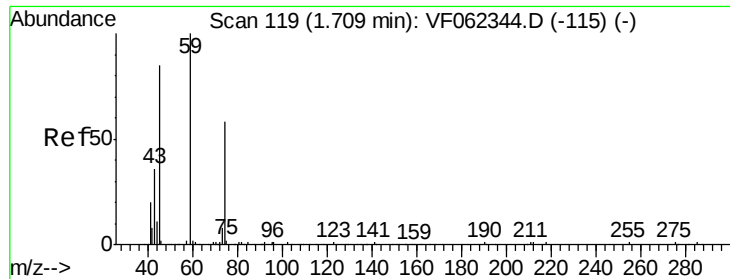
1.36

1.38

1.40

1.42





#8

Diethyl Ether

Concen: 1.883 ug/l

RT: 1.71 min Scan# 120

Delta R.T. 0.00 min

Lab File: VF062449.D

Acq: 11 May 2019 5:56

Instrument :

MSVOA_F

ClientSampled :

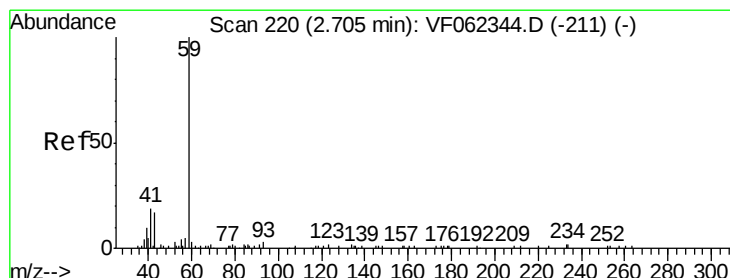
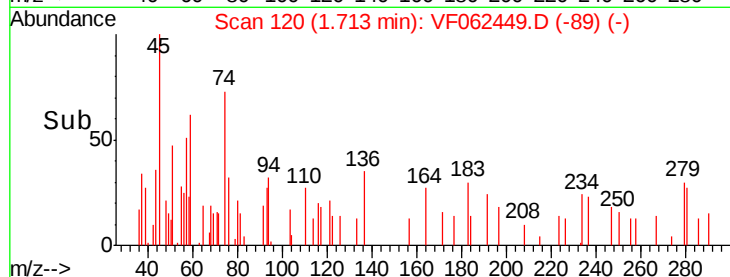
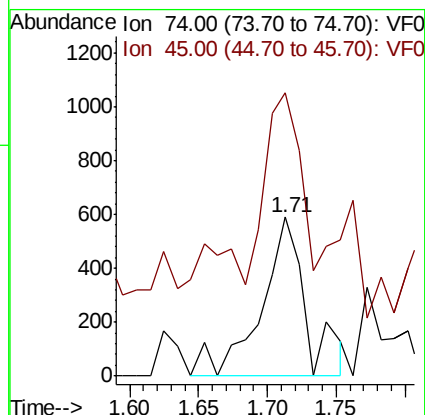
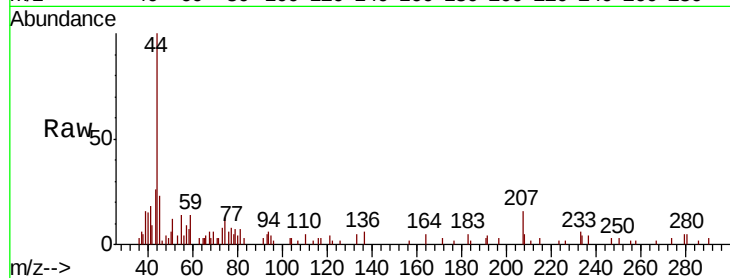
B-1

Tot Ion: 74 Resp: 1349

Ion Ratio Lower Upper

74 100

45 98.7 73.9 221.6



#11

Tert butyl alcohol

Concen: 4.978 ug/l

RT: 2.72 min Scan# 222

Delta R.T. 0.01 min

Lab File: VF062449.D

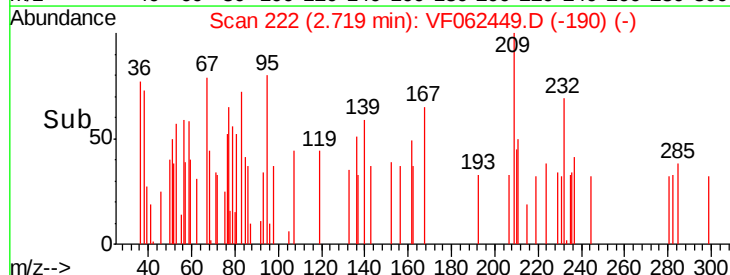
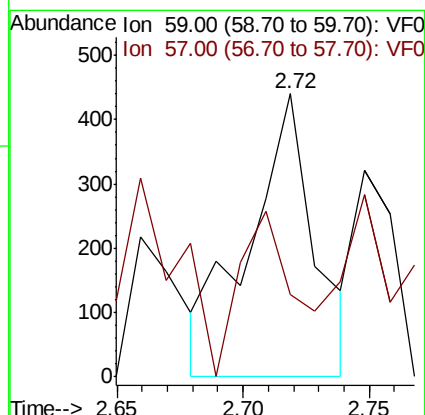
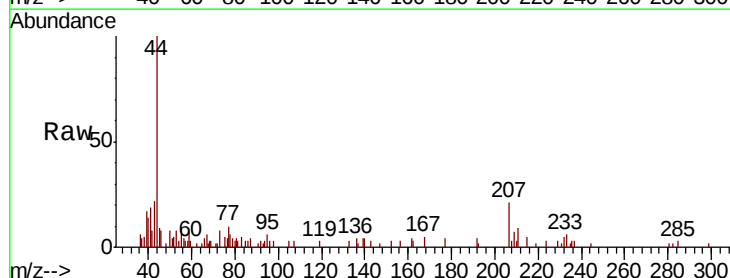
Acq: 11 May 2019 5:56

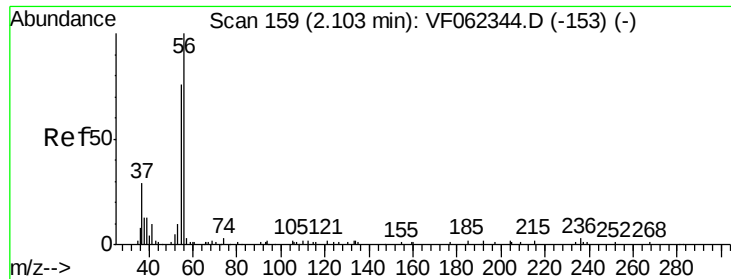
Tgt Ion: 59 Resp: 797

Ion Ratio Lower Upper

59 100

57 49.4 9.3 13.9#





#13

Acrolein

Concen: Below Cal

RT: 2.10 min Scan# 159

Delta R.T. -0.01 min

Lab File: VF062449.D

Acq: 11 May 2019 5:56

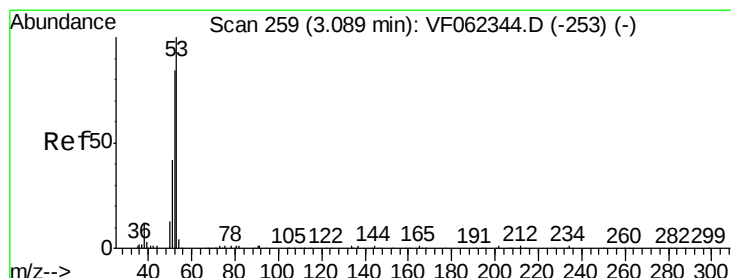
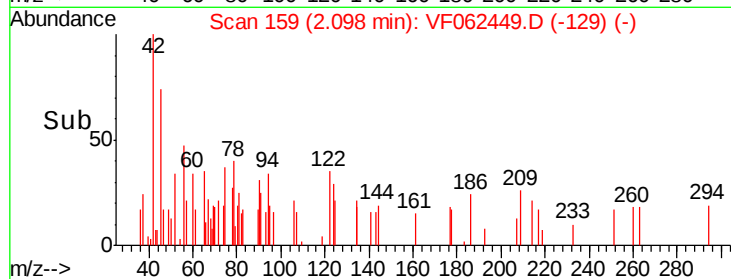
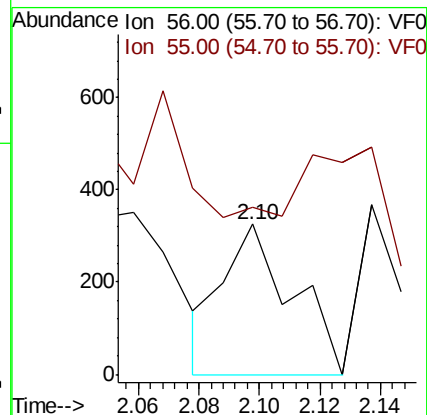
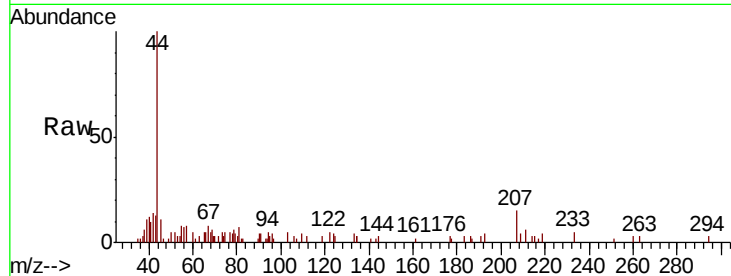
Instrument :
MSVOA_F
ClientSampleId :
B-1

Tot Ion: 56 Resp: 515

Ion Ratio Lower Upper

56 100

55 0.0 58.4 87.6#



#15

Acrylonitrile

Concen: 2.780 ug/l

RT: 3.09 min Scan# 260

Delta R.T. 0.00 min

Lab File: VF062449.D

Acq: 11 May 2019 5:56

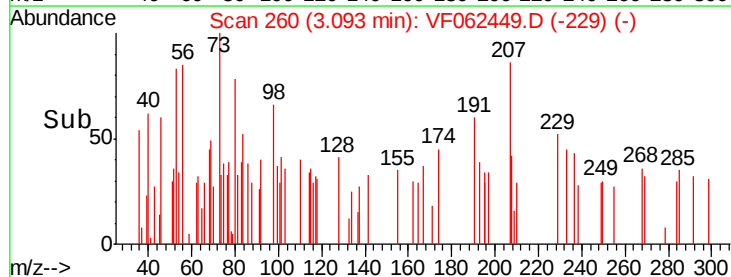
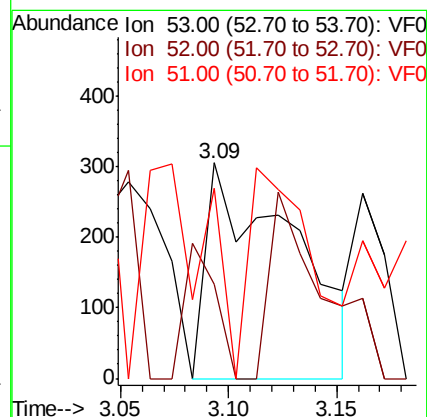
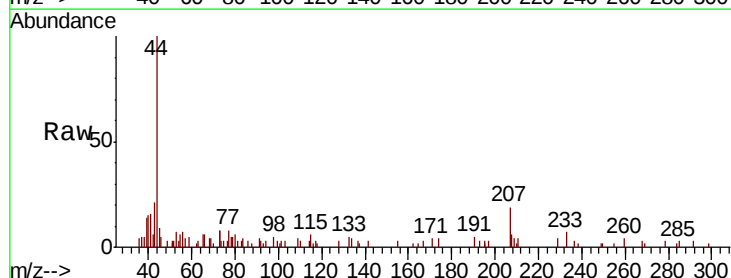
Tgt Ion: 53 Resp: 843

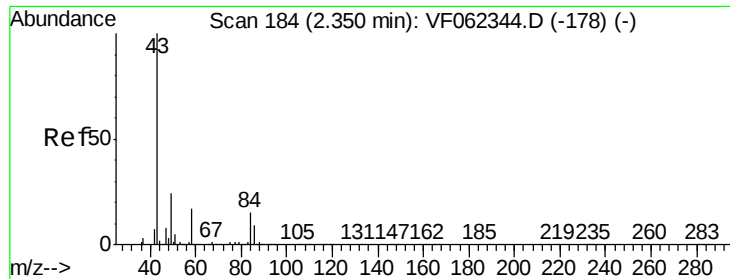
Ion Ratio Lower Upper

53 100

52 22.9 77.2 115.8#

51 68.8 40.6 61.0#

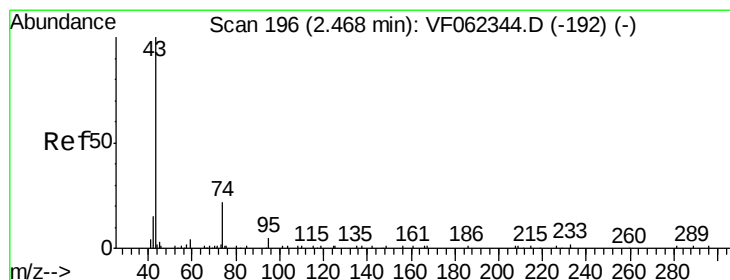
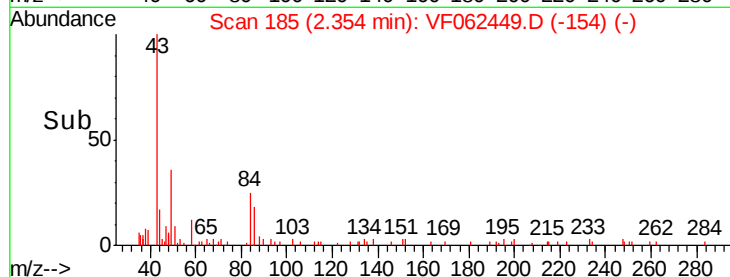
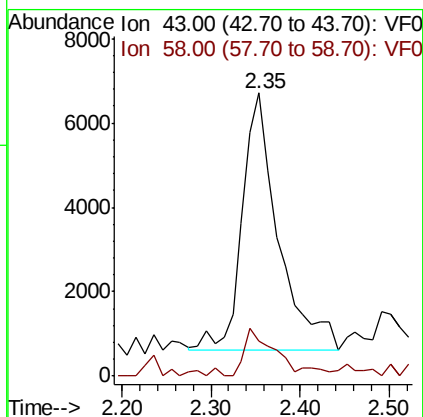
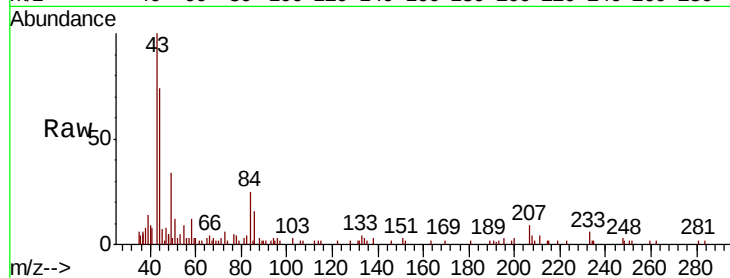




#16
Acetone
Concen: 29.853 ug/l
RT: 2.35 min Scan# 185
Delta R.T. 0.00 min
Lab File: VF062449.D
Acq: 11 May 2019 5:56

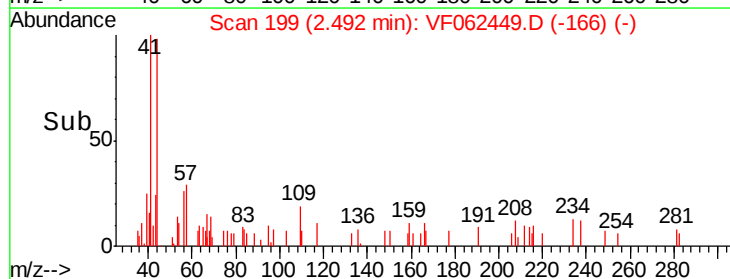
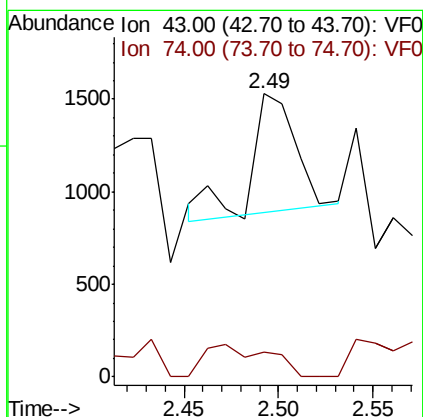
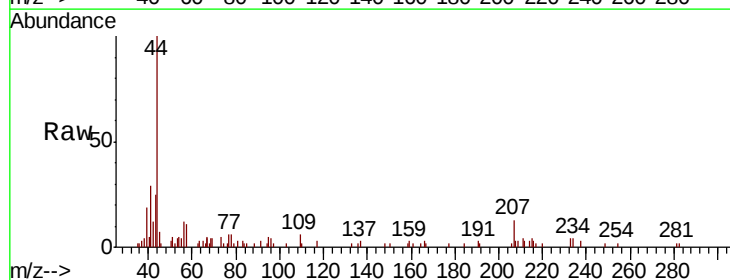
Instrument :
MSVOA_F
ClientSampleId :
B-1

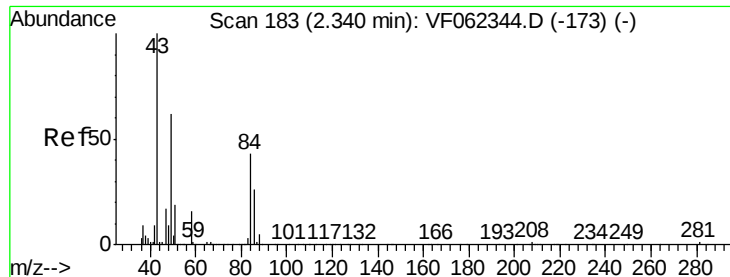
Tot Ion: 43 Resp: 17108
Ion Ratio Lower Upper
43 100
58 11.8 13.1 19.7#



#18
Methyl Acetate
Concen: Below Cal
RT: 2.49 min Scan# 199
Delta R.T. 0.02 min
Lab File: VF062449.D
Acq: 11 May 2019 5:56

Tgt Ion: 43 Resp: 1055
Ion Ratio Lower Upper
43 100
74 38.8 15.0 22.4#

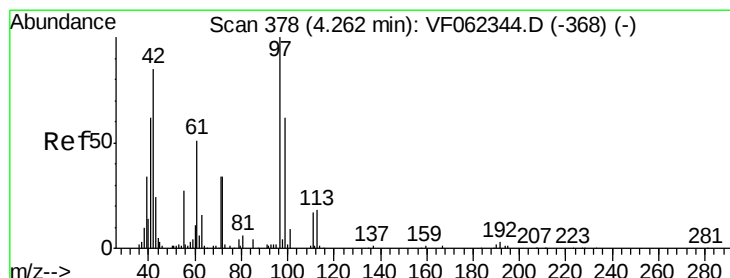
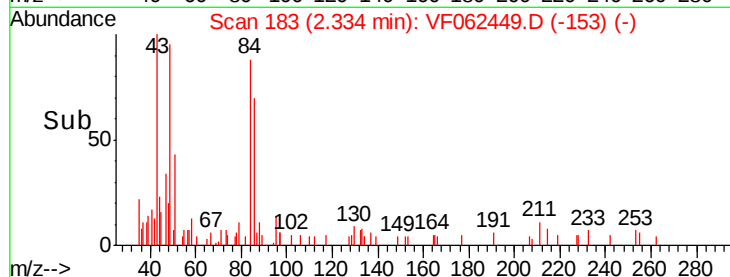
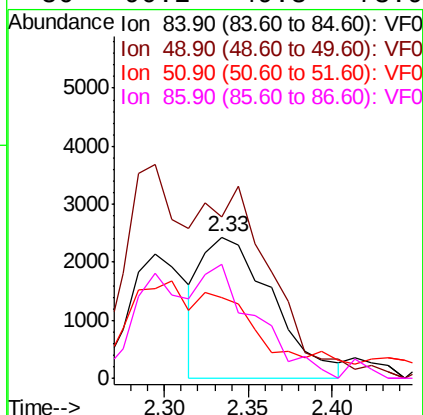
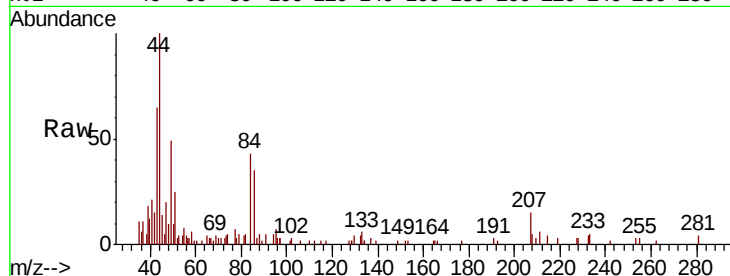




#20
Methvlene Chloride
Concen: 3.440 ug/l
RT: 2.33 min Scan# 183
Delta R.T. -0.01 min
Lab File: VF062449.D
Acq: 11 May 2019 5:56

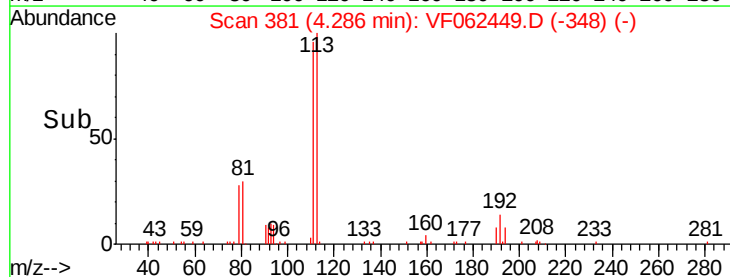
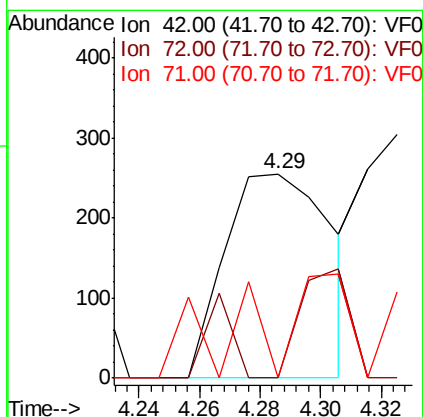
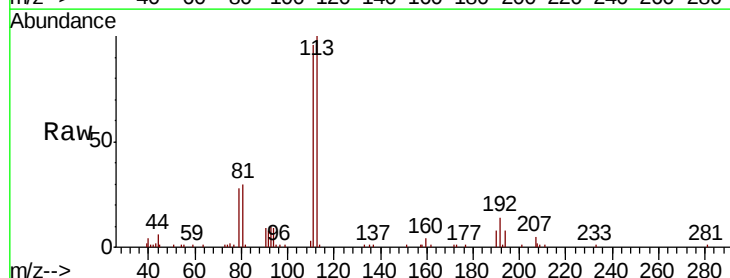
Instrument :
MSVOA_F
ClientSampleId :
B-1

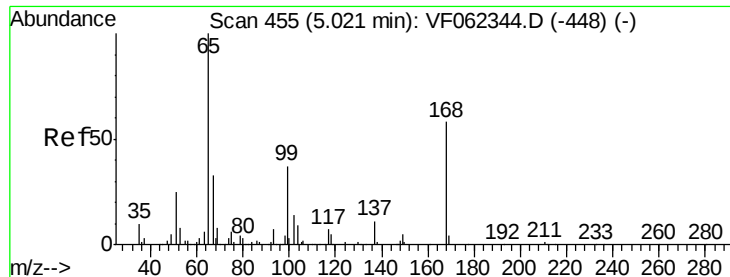
Tot Ion: 84 Resp: 7132
Ion Ratio Lower Upper
84 100
49 112.8 117.5 176.3#
51 49.0 37.0 55.4
86 90.2 49.3 73.9#



#29
Tetrahydrofuran
Concen: 1.877 ug/l
RT: 4.29 min Scan# 381
Delta R.T. 0.02 min
Lab File: VF062449.D
Acq: 11 May 2019 5:56

Tgt Ion: 42 Resp: 621
Ion Ratio Lower Upper
42 100
72 24.6 31.4 47.0#
71 46.1 31.7 47.5





#33

1,2-Dichloroethane-d4

Concen: 69.627 ug/l

RT: 5.05 min Scan# 458

Delta R.T. 0.02 min

Lab File: VF062449.D

Acq: 11 May 2019 5:56

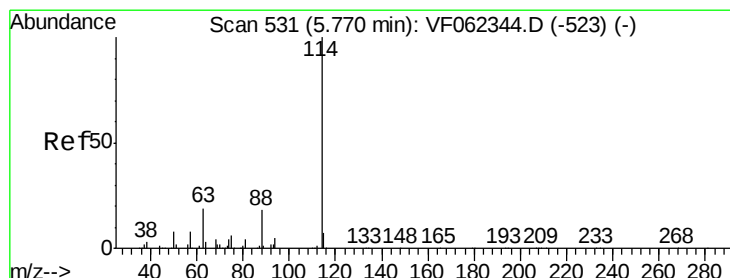
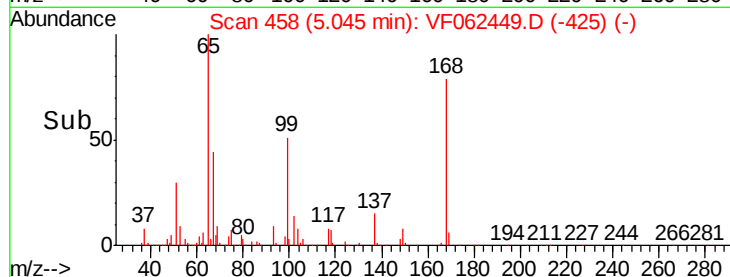
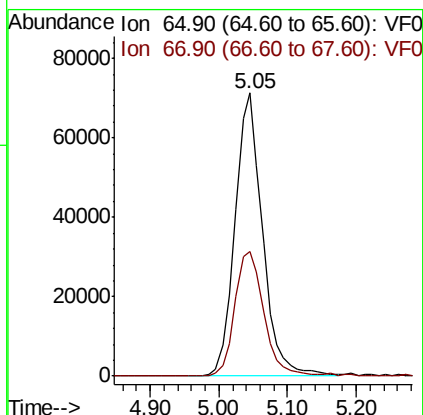
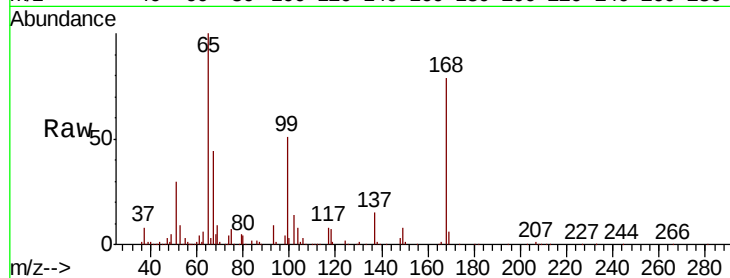
Instrument :
MSVOA_F
ClientSampled :
B-1

Tot Ion: 65 Resp: 197245

Ion Ratio Lower Upper

65 100

67 47.1 0.0 85.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.78 min Scan# 533

Delta R.T. 0.01 min

Lab File: VF062449.D

Acq: 11 May 2019 5:56

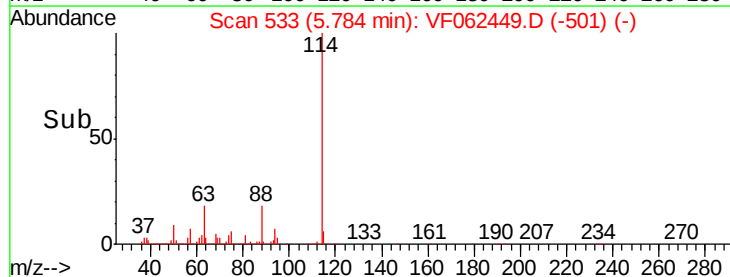
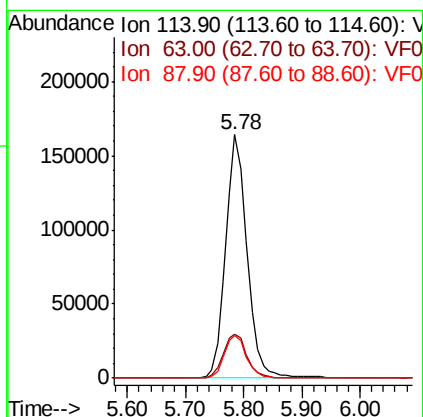
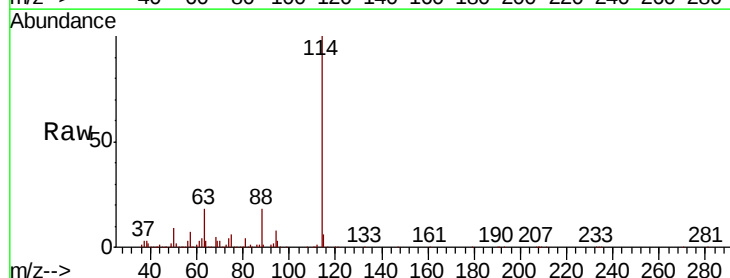
Tgt Ion: 114 Resp: 419337

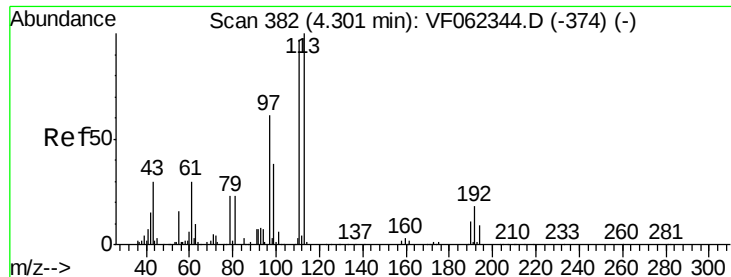
Ion Ratio Lower Upper

114 100

63 18.3 0.0 37.4

88 17.5 0.0 36.4





#35

Dibromofluoromethane

Concen: 68.855 ug/l

RT: 4.32 min Scan# 384

Delta R.T. 0.01 min

Lab File: VF062449.D

Acq: 11 May 2019 5:56

Instrument :

MSVOA_F

ClientSampleId :

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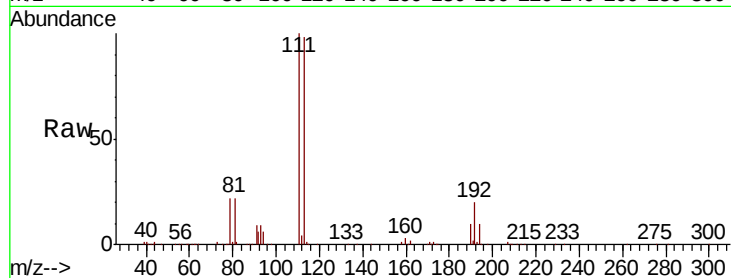
Tot Ion:113 Resp: 230030

Ion Ratio Lower Upper

113 100

111 99.7 79.4 119.0

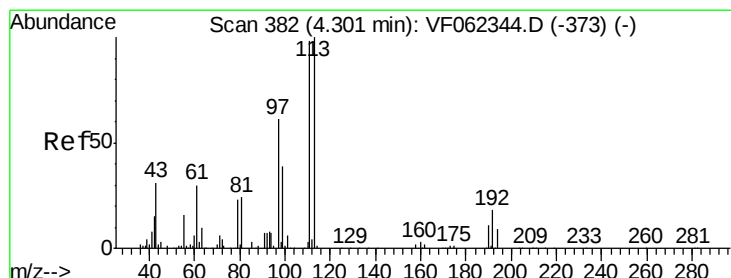
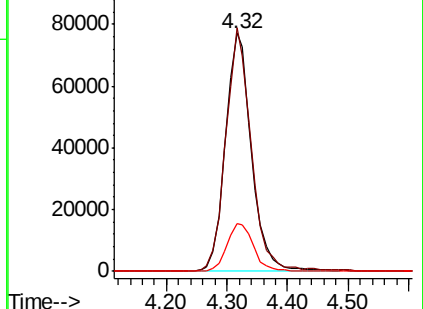
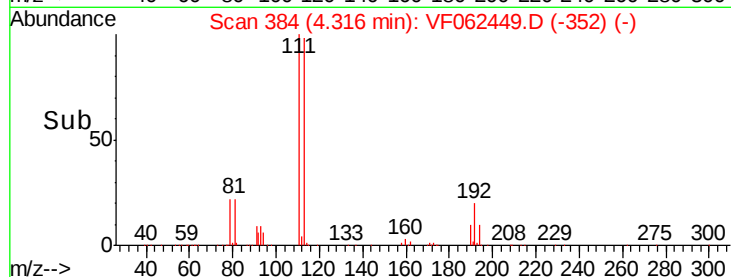
192 20.4 16.0 24.0



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#37

Ethyl Acetate

Concen: Below Cal

RT: 4.30 min Scan# 382

Delta R.T. -0.01 min

Lab File: VF062449.D

Acq: 11 May 2019 5:56

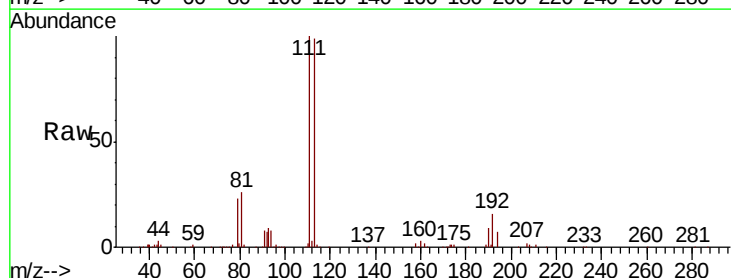
Tgt Ion: 43 Resp: 503

Ion Ratio Lower Upper

43 100

61 0.0 0.0 0.0

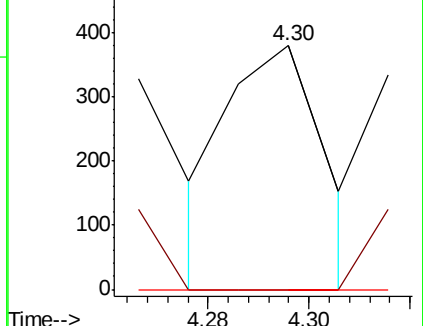
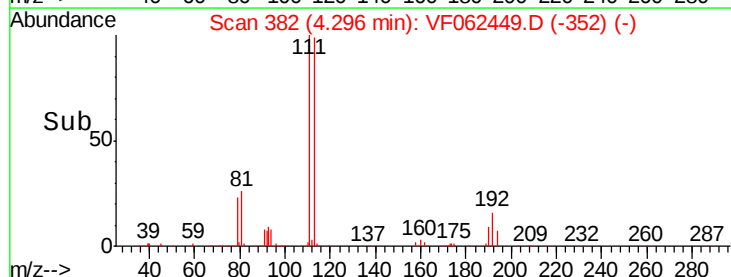
70 0.0 8.2 12.2#

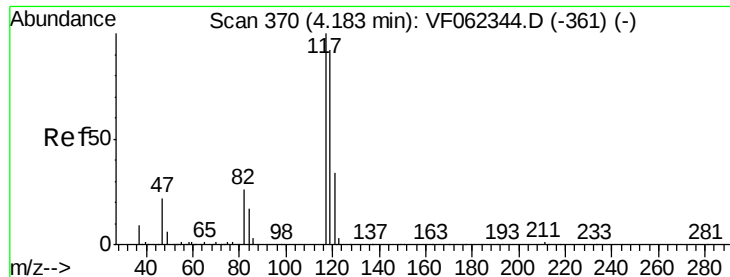


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 60.90 (60.60 to 61.60): VF0

Ion 70.00 (69.70 to 70.70): VF0





#38

Carbon Tetrachloride

Concen: Below Cal

RT: 4.26 min Scan# 378

Delta R.T. 0.07 min

Lab File: VF062449.D

Acq: 11 May 2019 5:56

Instrument :

MSVOA_F

ClientSampleId :

B-1

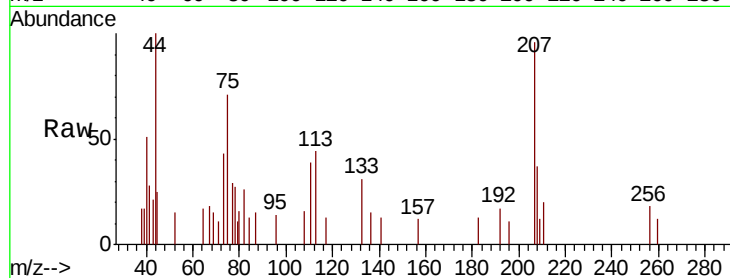
Tot Ion:117 Resp: 68

Ion Ratio Lower Upper

117 100

119 0.0 73.4 110.2#

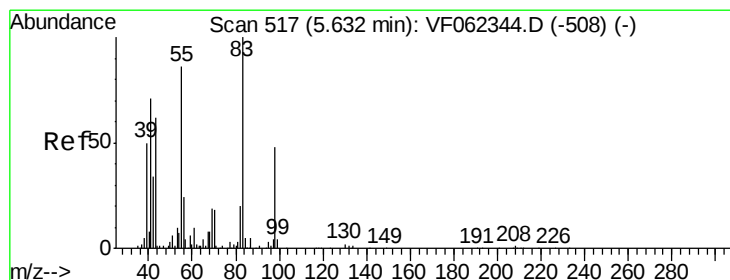
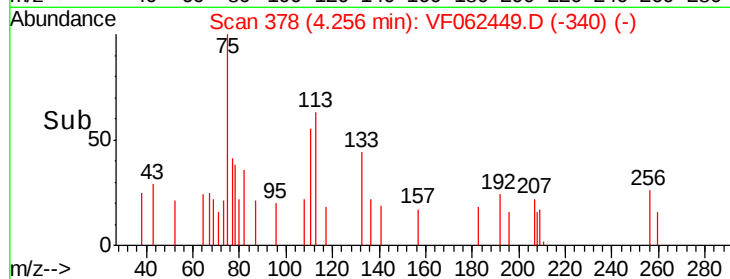
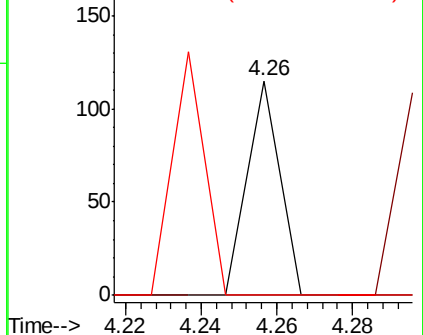
121 0.0 27.4 41.0#



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



#39

Methylcyclohexane

Concen: 1.949 ug/l

RT: 5.79 min Scan# 534

Delta R.T. 0.16 min

Lab File: VF062449.D

Acq: 11 May 2019 5:56

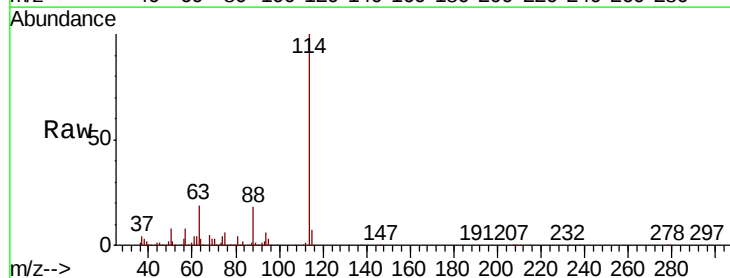
Tgt Ion: 83 Resp: 7043

Ion Ratio Lower Upper

83 100

55 23.8 69.0 103.6#

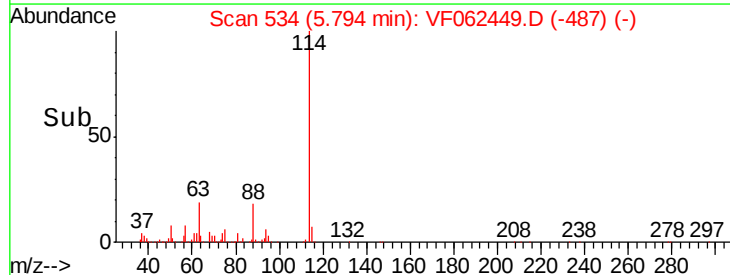
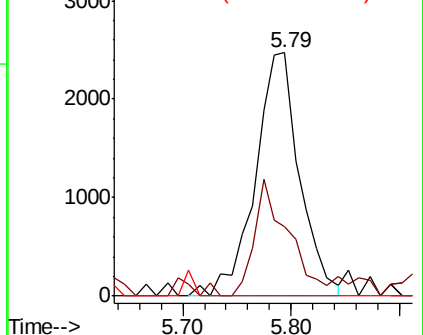
98 0.0 38.6 58.0#

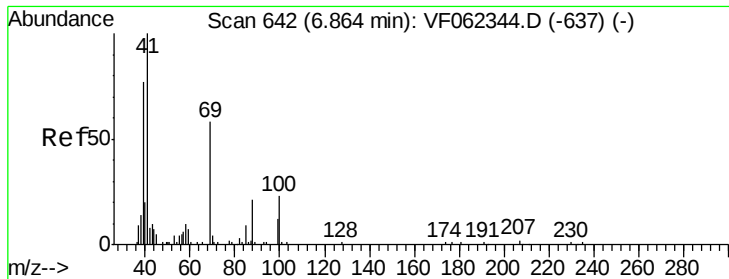


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.93 min Scan# 649

Delta R.T. 0.06 min

Lab File: VF062449.D

Acq: 11 May 2019 5:56

Instrument :

MSVOA_F

ClientSampleId :

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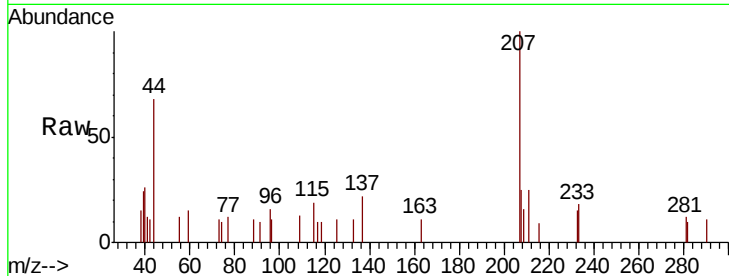
Tot Ion: 88 Resp: 70

Ion Ratio Lower Upper

88 100

43 368.6 55.6 83.4#

58 105.7 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

250

200

150

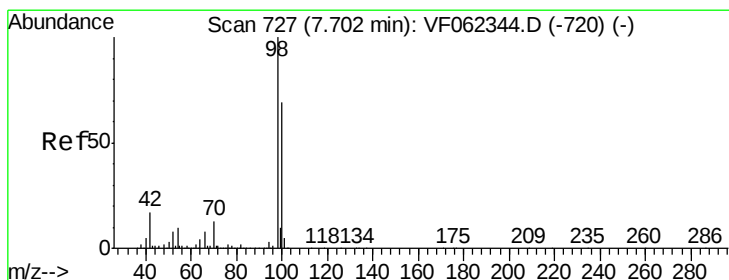
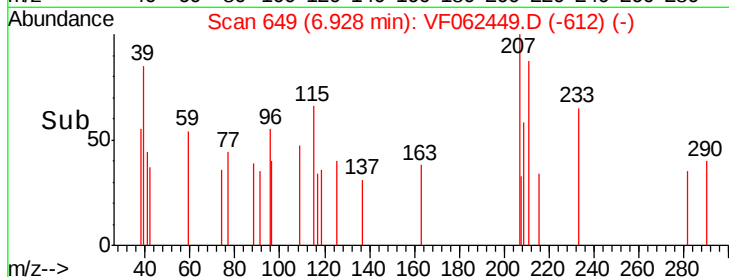
100

50

0

6.90 6.92 6.94 6.96

Time-->



#50

Toluene-d8

Concen: 45.833 ug/l

RT: 7.72 min Scan# 729

Delta R.T. 0.01 min

Lab File: VF062449.D

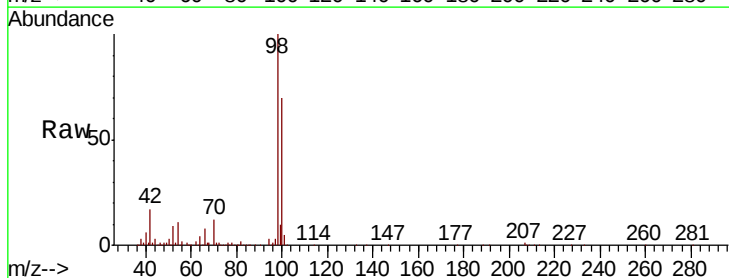
Acq: 11 May 2019 5:56

Tgt Ion: 98 Resp: 370645

Ion Ratio Lower Upper

98 100

100 67.3 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

150000

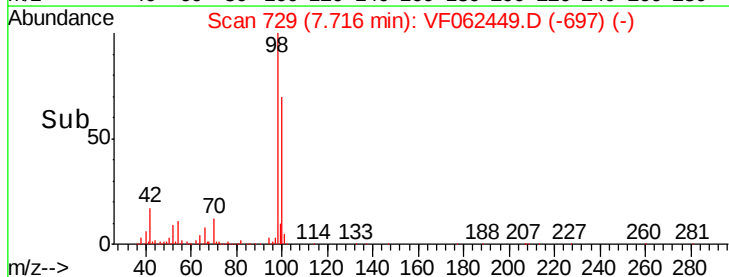
100000

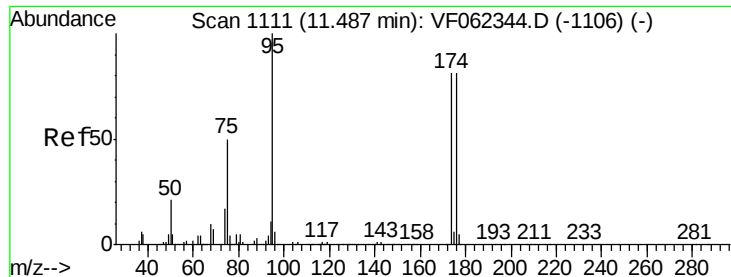
50000

0

7.60 7.70 7.80

Time-->





#62

4-Bromofluorobenzene

Concen: 47.198 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. 0.01 min

Lab File: VF062449.D

Acq: 11 May 2019 5:56

Instrument :

MSVOA_F

ClientSampled :

B-1

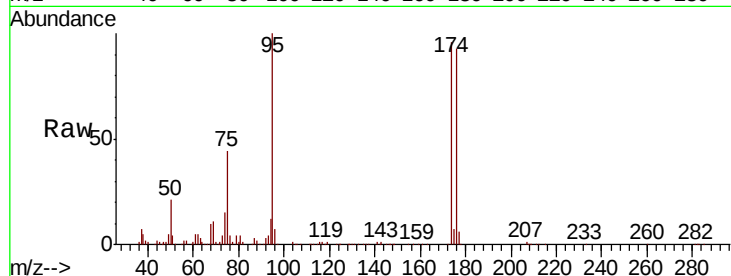
Tot Ion: 95 Resp: 172203

Ion Ratio Lower Upper

95 100

174 98.0 0.0 191.8

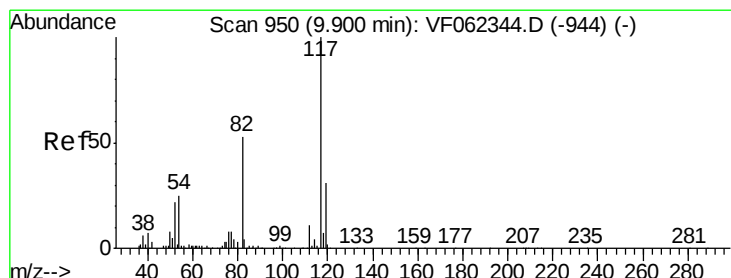
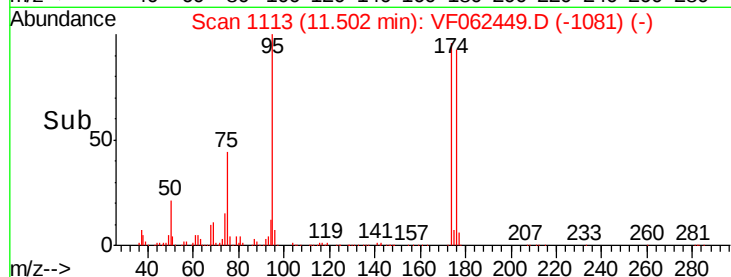
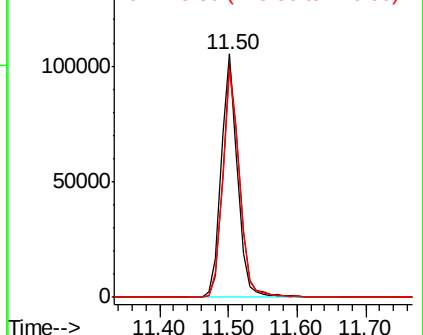
176 96.0 0.0 193.2



Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): VF0

Ion 175.80 (175.50 to 176.50): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.91 min Scan# 952

Delta R.T. 0.01 min

Lab File: VF062449.D

Acq: 11 May 2019 5:56

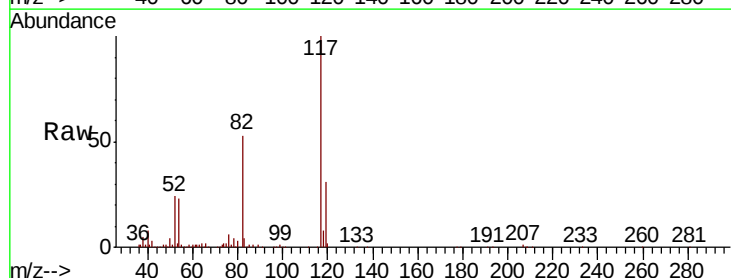
Tgt Ion: 117 Resp: 327343

Ion Ratio Lower Upper

117 100

82 53.1 42.2 63.2

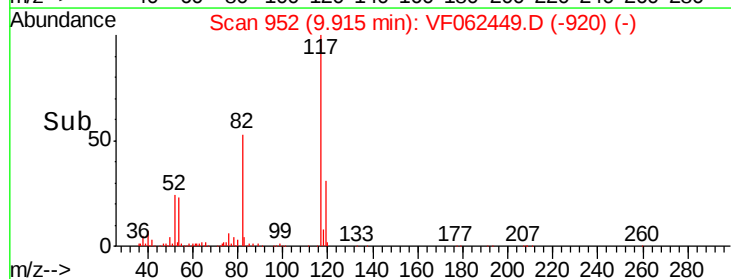
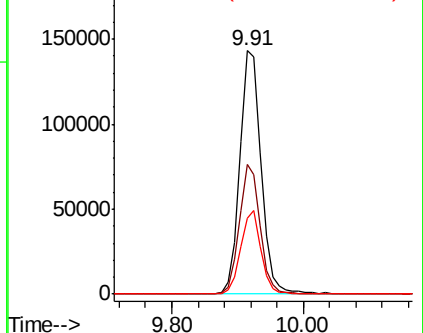
119 31.4 25.0 37.4

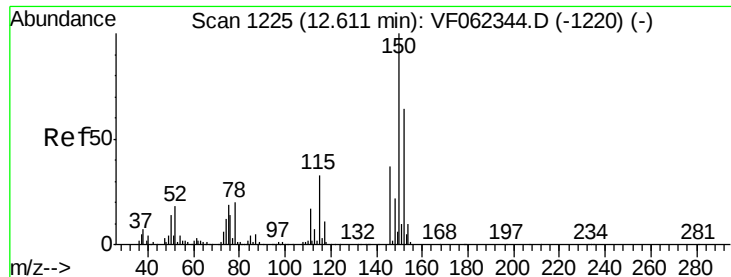


Abundance Ion 116.90 (116.60 to 117.60): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 118.90 (118.60 to 119.60): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. 0.00 min

Lab File: VF062449.D

Acq: 11 May 2019 5:56

Instrument :

MSVOA_F

ClientSampleId :

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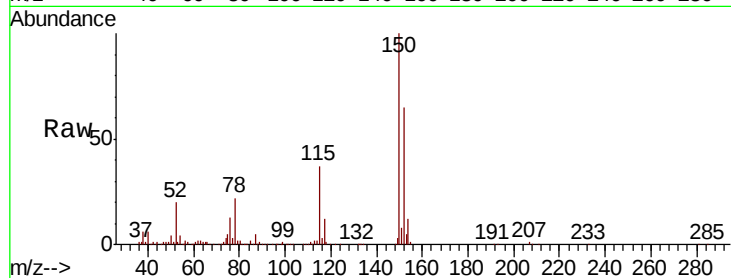
Tot Ion:152 Resp: 175826

Ion Ratio Lower Upper

152 100

115 55.4 26.4 79.2

150 155.8 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

