

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF050719\
 Data File : VF062354.D
 Acq On : 7 May 2019 13:41
 Operator : FY/SY
 Sample : K2667-03
 Misc : 5.61g/5mL/MSVOA_F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SP-1-B

Quant Time: May 07 14:40:33 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	5.04	168	309897	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.77	114	416016	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	324954	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	175536	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	132350	45.19	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.38%	
35) Dibromofluoromethane	4.29	113	160353	48.38	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	96.76%	
50) Toluene-d8	7.70	98	316244	39.42	ug/l	0.00
Spiked Amount 50.000			Recovery	=	78.84%	
62) 4-Bromofluorobenzene	11.49	95	138495	38.26	ug/l	0.00
Spiked Amount 50.000			Recovery	=	76.52%	

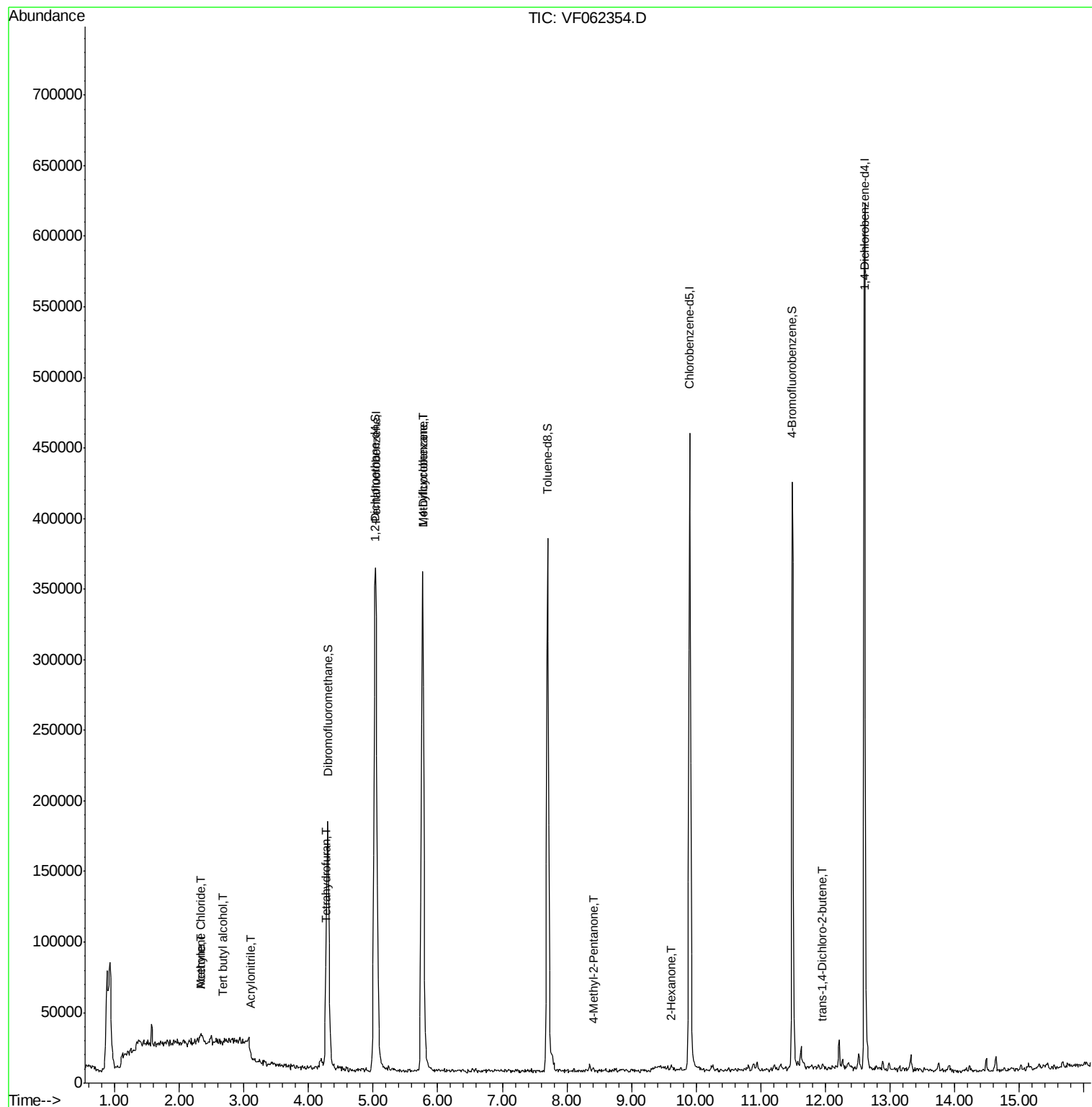
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.38	94	1721	Below Cal	#	21
11) Tert butyl alcohol	2.68	59	695	4.199	ug/l #	70
13) Acrolein	2.13	56	797	Below Cal		98
15) Acrylonitrile	3.12	53	615	1.961	ug/l #	28
16) Acetone	2.35	43	6019	10.160	ug/l #	76
18) Methyl Acetate	2.45	43	2539	Below Cal	#	58
20) Methylene Chloride	2.33	84	3843	1.793	ug/l #	90
29) Tetrahydrofuran	4.26	42	1014	2.964	ug/l #	71
37) Ethyl Acetate	4.24	43	288	Below Cal	#	73
38) Carbon Tetrachloride	4.08	117	140	Below Cal	#	44
39) Methylcyclohexane	5.76	83	6251	1.744	ug/l #	36
49) 1,4-Dioxane	6.80	88	61	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.41	43	2747	2.230	ug/l #	72
59) 2-Hexanone	9.62	43	2049	2.405	ug/l	85
81) trans-1,4-Dichloro-2-buten	11.94	75	793	1.697	ug/l #	18

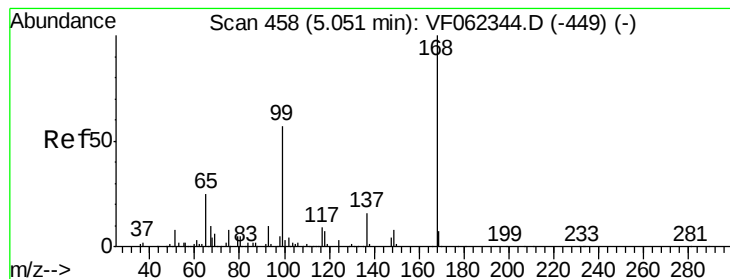
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 457

Delta R.T. -0.01 min

Lab File: VF062354.D

Acq: 7 May 2019 13:41

Instrument :

MSVOA_F

ClientSampleId :

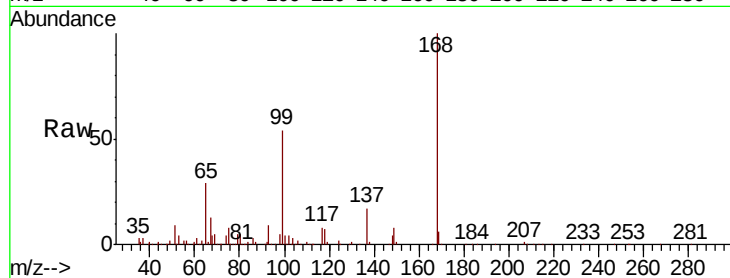
SP-1-B

Tgt Ion:168 Resp: 309897

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

5.04

100000

80000

60000

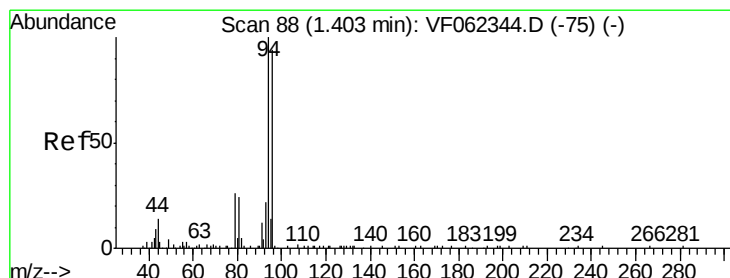
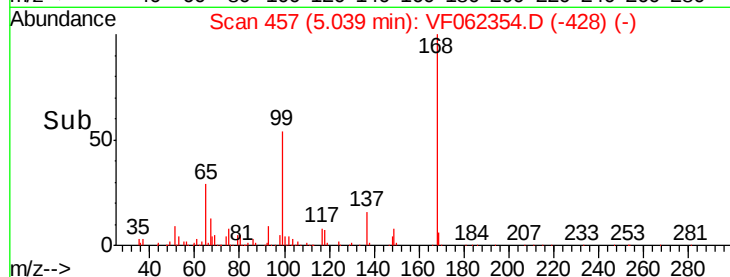
40000

20000

0

5.00 5.20

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.38 min Scan# 86

Delta R.T. -0.02 min

Lab File: VF062354.D

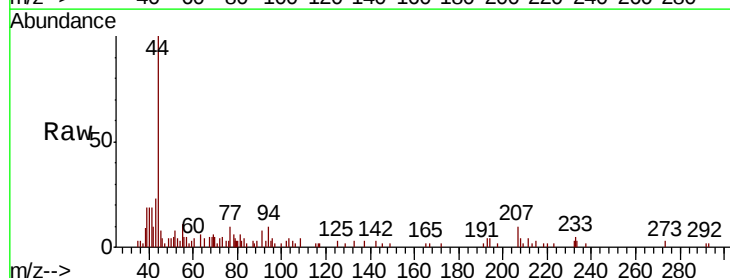
Acq: 7 May 2019 13:41

Tgt Ion: 94 Resp: 1721

Ion Ratio Lower Upper

94 100

96 17.9 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

1.38

600

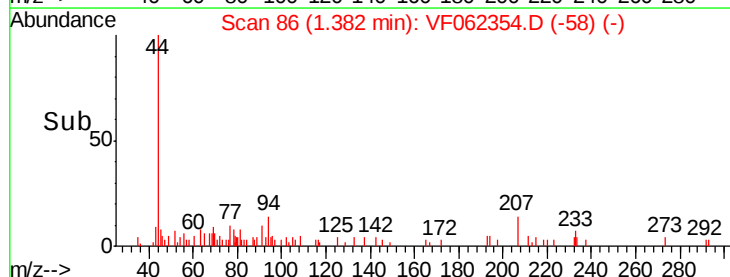
400

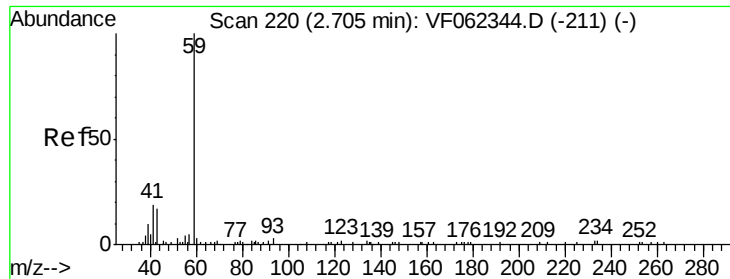
200

0

1.30 1.35 1.40 1.45

Time-->

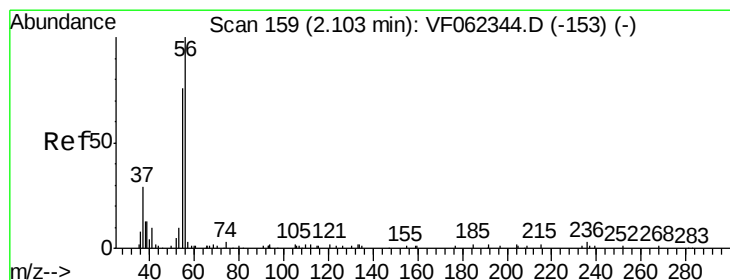
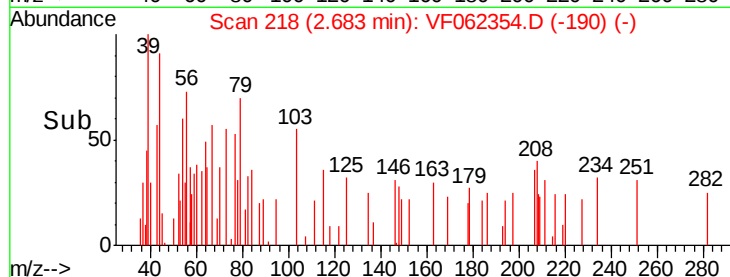
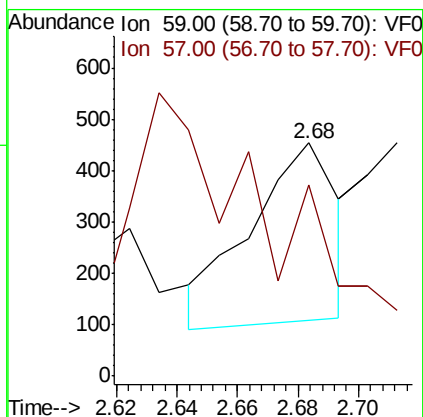
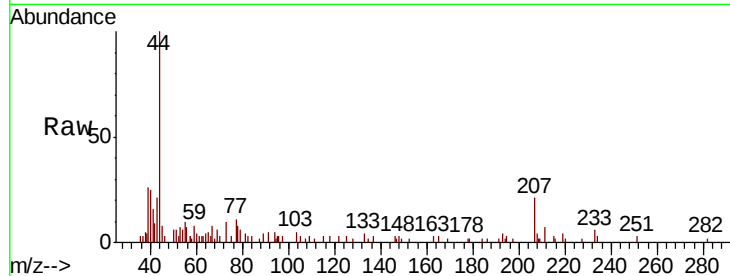




#11
Tert butyl alcohol
Concen: 4.199 ug/l
RT: 2.68 min Scan# 218
Delta R.T. -0.02 min
Lab File: VF062354.D
Acq: 7 May 2019 13:41

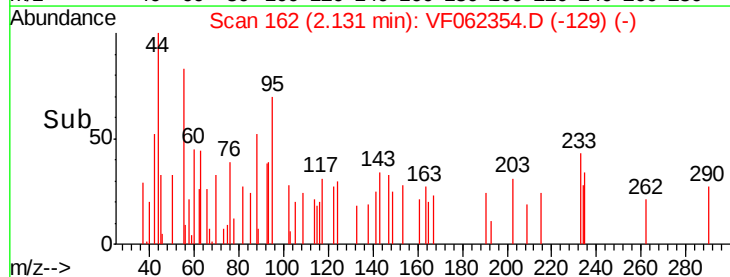
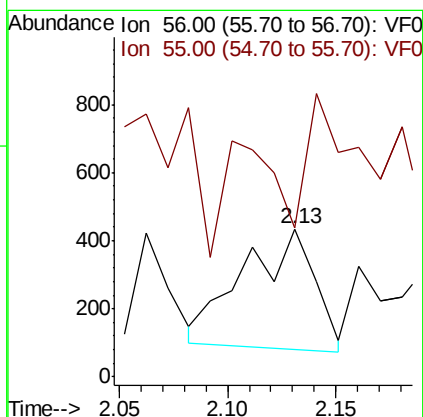
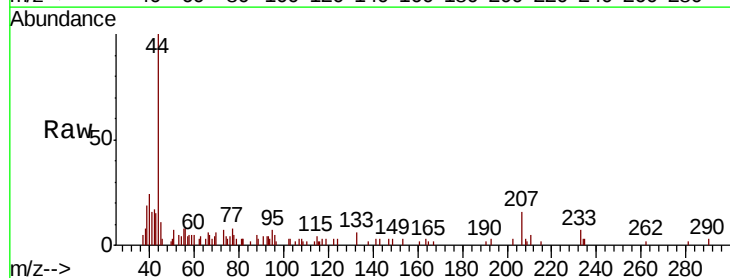
Instrument :
MSVOA_F
ClientSampleId :
SP-1-B

Tgt Ion: 59 Resp: 695
Ion Ratio Lower Upper
59 100
57 0.0 9.3 13.9#



#13
Acrolein
Concen: Below Cal
RT: 2.13 min Scan# 162
Delta R.T. 0.03 min
Lab File: VF062354.D
Acq: 7 May 2019 13:41

Tgt Ion: 56 Resp: 797
Ion Ratio Lower Upper
56 100
55 74.4 58.4 87.6





#15

Acrylonitrile

Concen: 1.961 ug/l

RT: 3.12 min Scan# 262

Delta R.T. 0.03 min

Lab File: VF062354.D

Acq: 7 May 2019 13:41

Instrument :

MSVOA_F

ClientSampleId :

SP-1-B

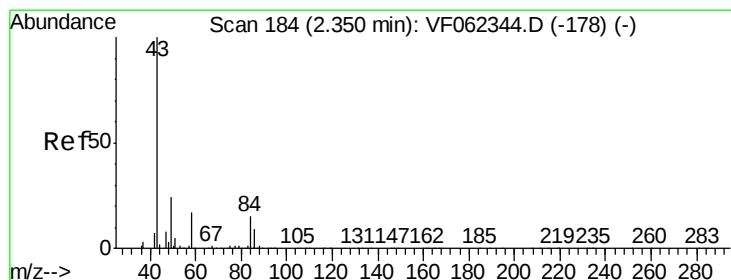
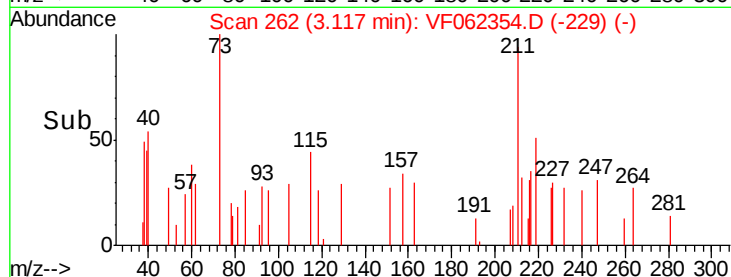
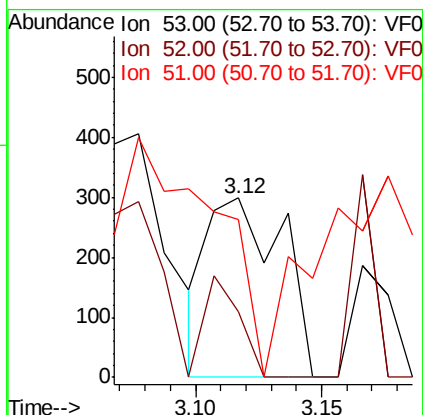
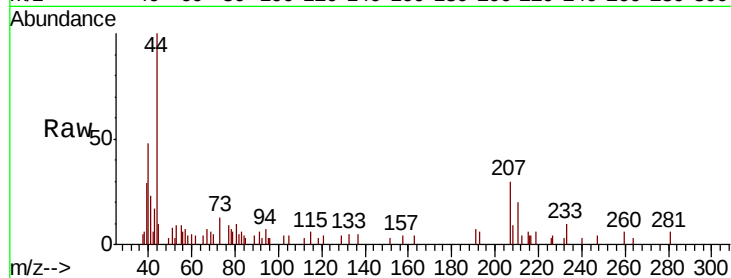
Tgt Ion: 53 Resp: 615

Ion Ratio Lower Upper

53 100

52 26.8 77.2 115.8#

51 0.0 40.6 61.0#



#16

Acetone

Concen: 10.160 ug/l

RT: 2.35 min Scan# 184

Delta R.T. -0.00 min

Lab File: VF062354.D

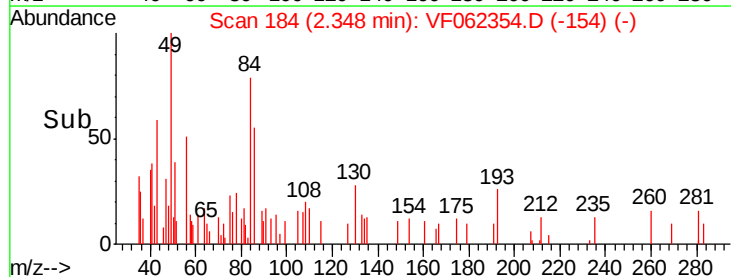
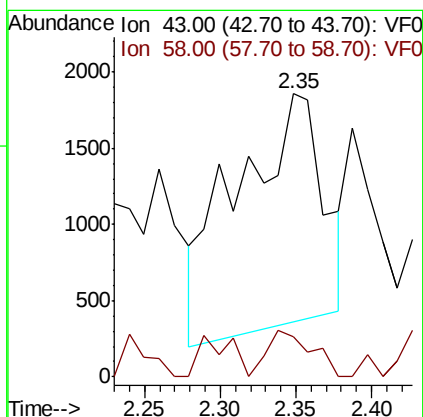
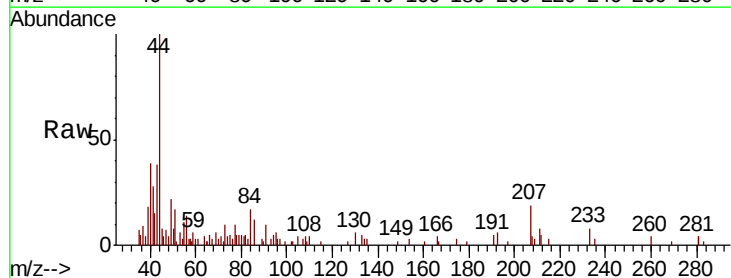
Acq: 7 May 2019 13:41

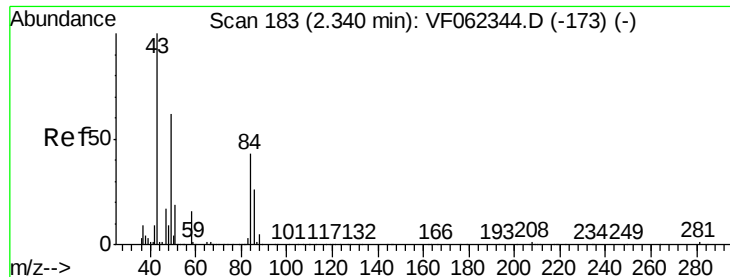
Tgt Ion: 43 Resp: 6019

Ion Ratio Lower Upper

43 100

58 26.7 13.1 19.7#

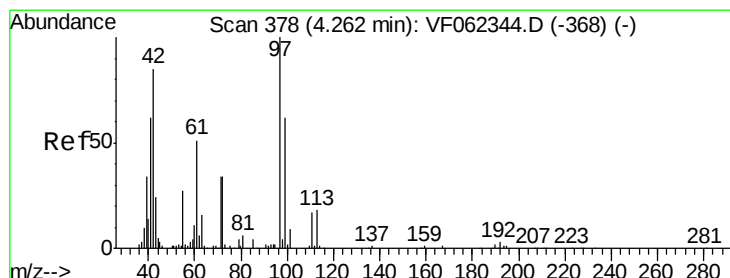
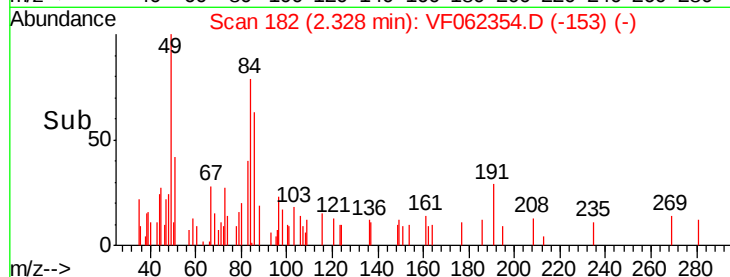
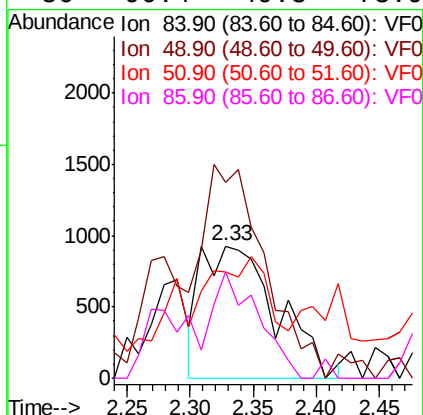
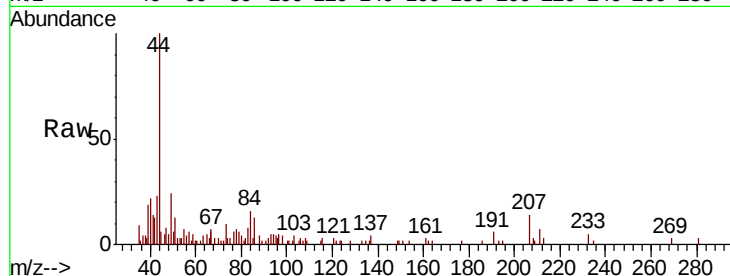




#20
Methylene Chloride
Concen: 1.793 ug/l
RT: 2.33 min Scan# 182
Delta R.T. -0.01 min
Lab File: VF062354.D
Acq: 7 May 2019 13:41

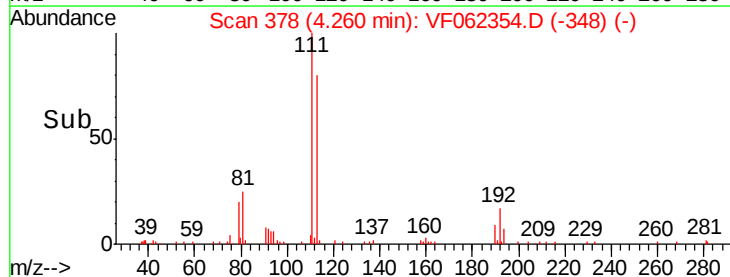
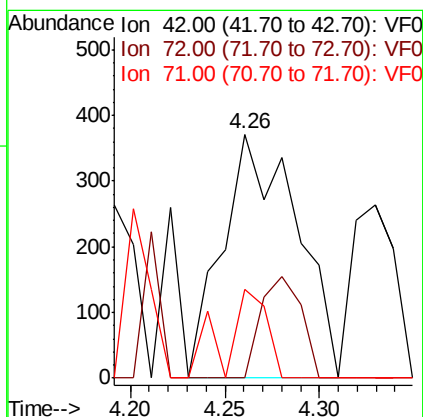
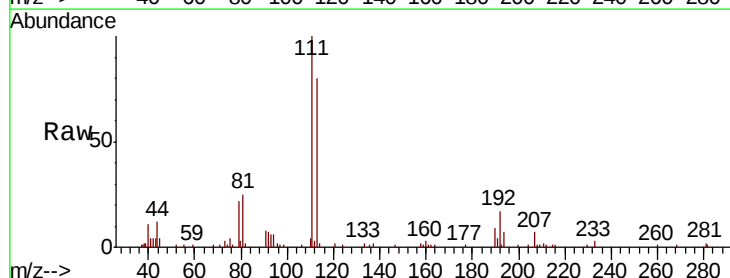
Instrument :
MSVOA_F
ClientSampleId :
SP-1-B

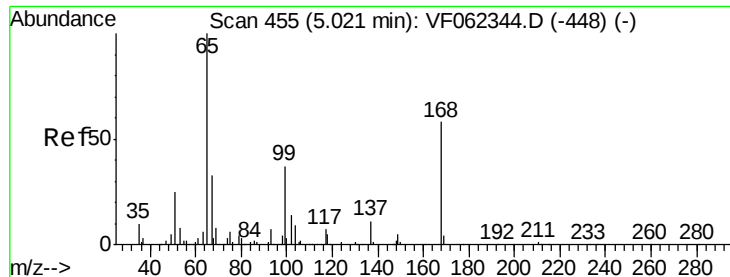
Tgt Ion: 84 Resp: 3843
Ion Ratio Lower Upper
84 100
49 146.2 117.5 176.3
51 47.3 37.0 55.4
86 90.4 49.3 73.9#



#29
Tetrahydrofuran
Concen: 2.964 ug/l
RT: 4.26 min Scan# 378
Delta R.T. -0.00 min
Lab File: VF062354.D
Acq: 7 May 2019 13:41

Tgt Ion: 42 Resp: 1014
Ion Ratio Lower Upper
42 100
72 22.7 31.4 47.0#
71 20.2 31.7 47.5#





#33

1,2-Dichloroethane-d4

Concen: 45.191 ug/l

RT: 5.02 min Scan# 455

Delta R.T. -0.00 min

Lab File: VF062354.D

Acq: 7 May 2019 13:41

Instrument :

MSVOA_F

ClientSampleId :

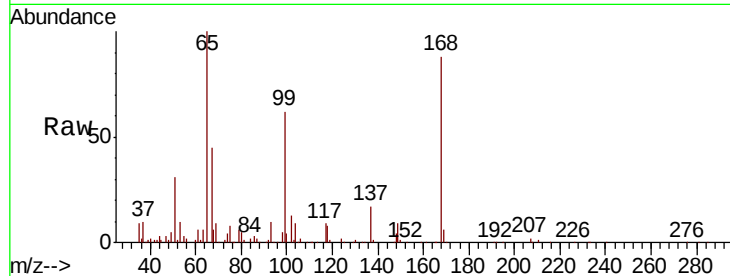
SP-1-B

Tgt Ion: 65 Resp: 132350

Ion Ratio Lower Upper

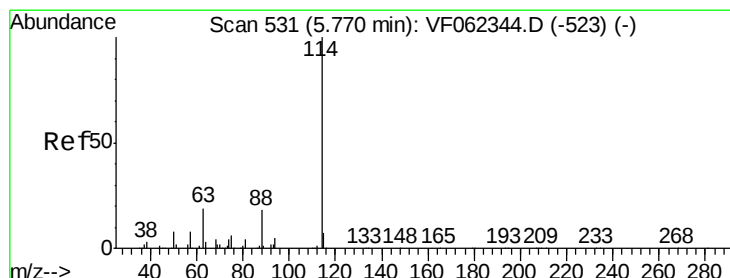
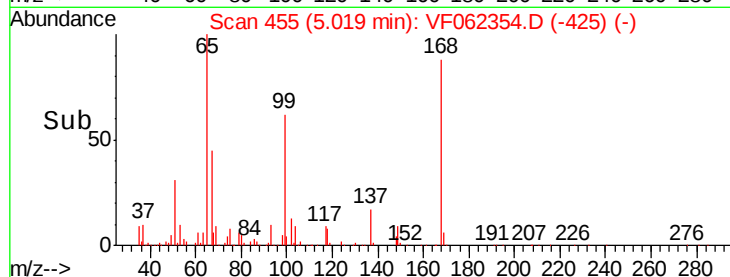
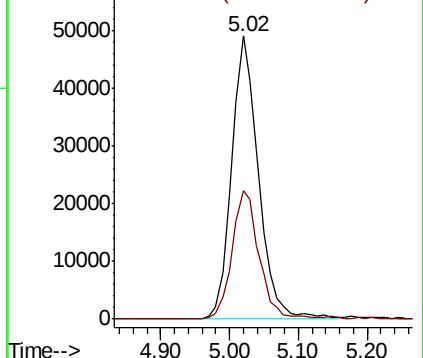
65 100

67 45.6 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: 5.77 min Scan# 531

Delta R.T. -0.00 min

Lab File: VF062354.D

Acq: 7 May 2019 13:41

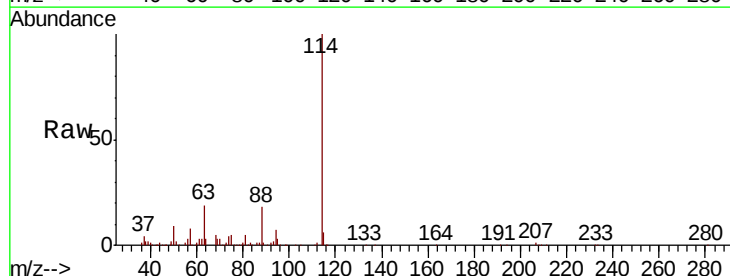
Tgt Ion: 114 Resp: 416016

Ion Ratio Lower Upper

114 100

63 18.9 0.0 37.4

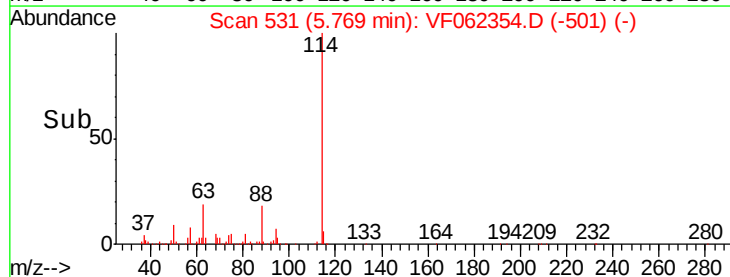
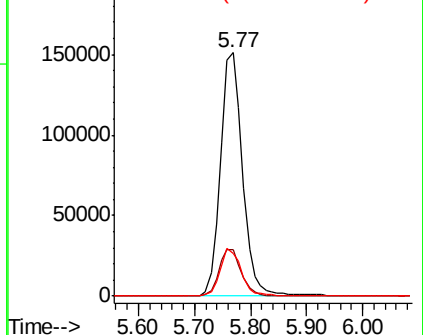
88 17.6 0.0 36.4

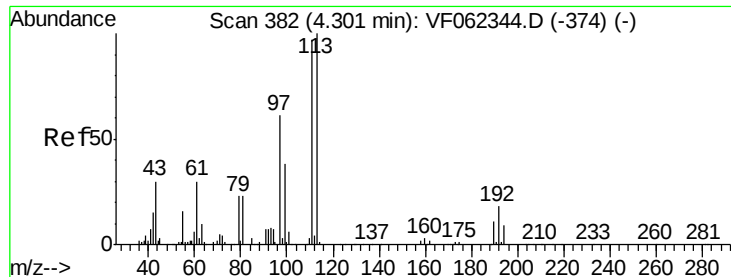


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 87.90 (87.60 to 88.60): VF0





#35

Dibromofluoromethane

Concen: 48.382 ug/l

RT: 4.29 min Scan# 381

Delta R.T. -0.01 min

Lab File: VF062354.D

Acq: 7 May 2019 13:41

Instrument :

MSVOA_F

ClientSampleId :

SP-1-B

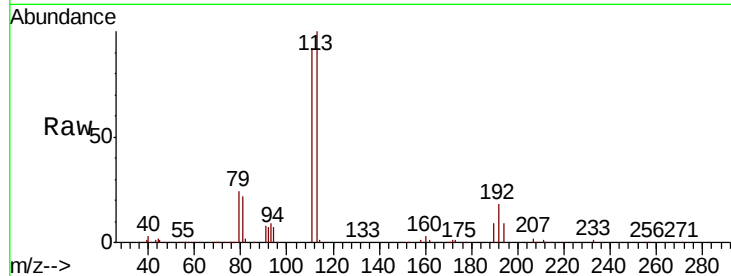
Tgt Ion:113 Resp: 160353

Ion Ratio Lower Upper

113 100

111 100.2 79.4 119.0

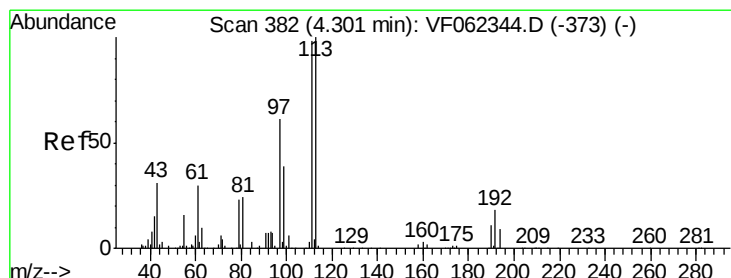
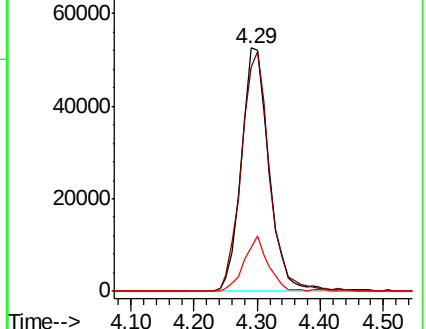
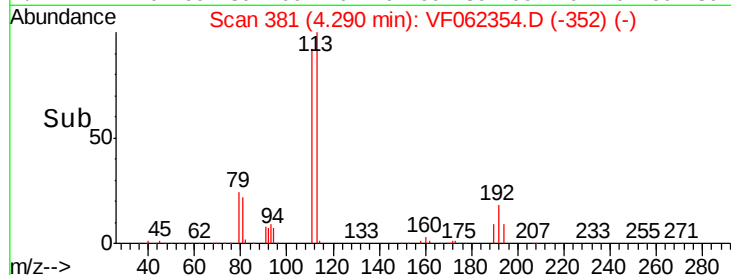
192 19.8 16.0 24.0



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: 4.24 min Scan# 376

Delta R.T. -0.06 min

Lab File: VF062354.D

Acq: 7 May 2019 13:41

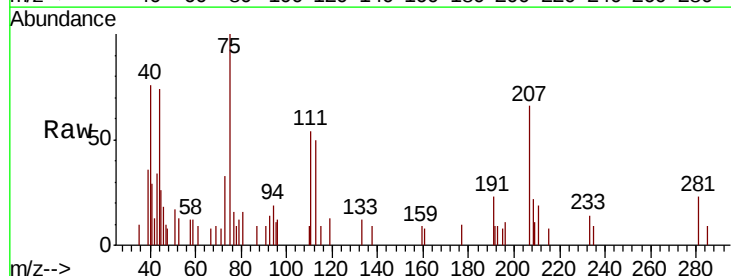
Tgt Ion: 43 Resp: 288

Ion Ratio Lower Upper

43 100

61 24.0 0.0 0.0#

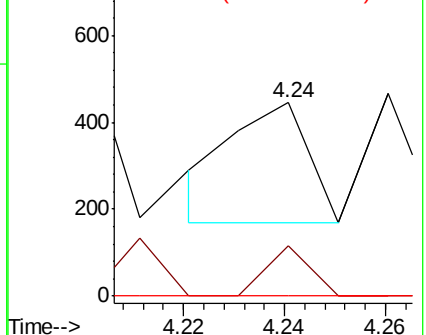
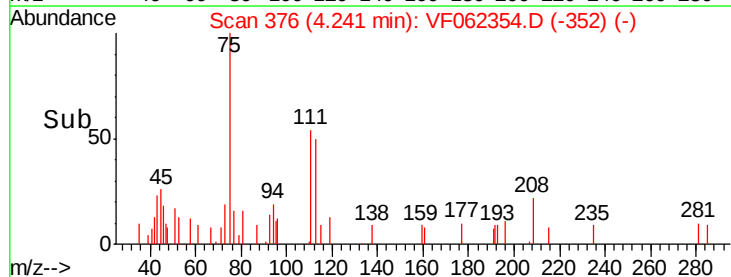
70 0.0 8.2 12.2#

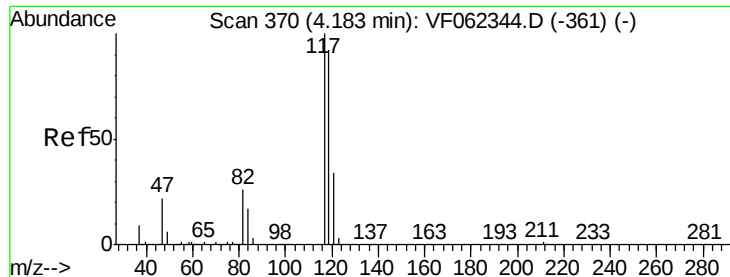


Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 4.08 min Scan# 360

Delta R.T. -0.10 min

Lab File: VF062354.D

Acq: 7 May 2019 13:41

Instrument :

MSVOA_F

ClientSampleId :

SP-1-B

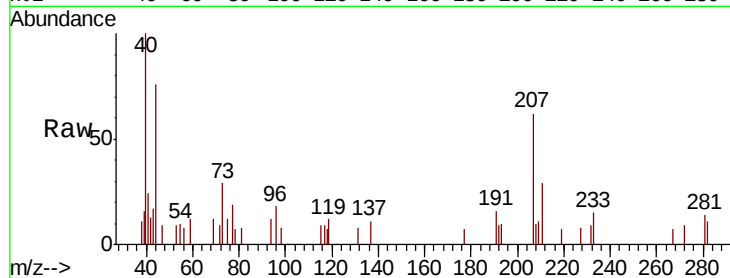
Tgt Ion:117 Resp: 140

Ion Ratio Lower Upper

117 100

119 143.9 73.4 110.2#

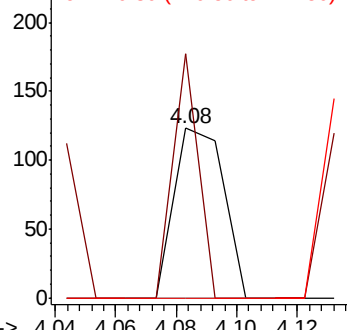
121 0.0 27.4 41.0#



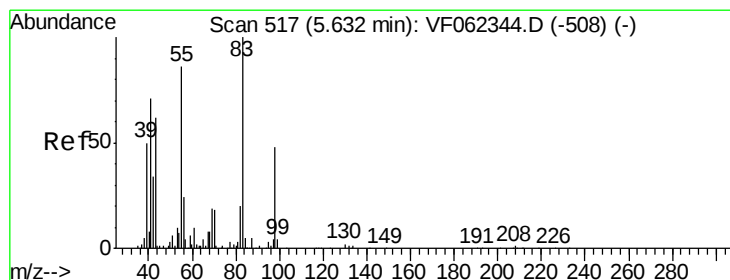
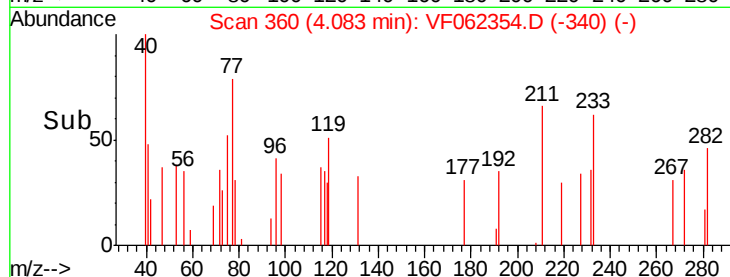
Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



Time-->



#39

Methylcyclohexane

Concen: 1.744 ug/l

RT: 5.76 min Scan# 530

Delta R.T. 0.13 min

Lab File: VF062354.D

Acq: 7 May 2019 13:41

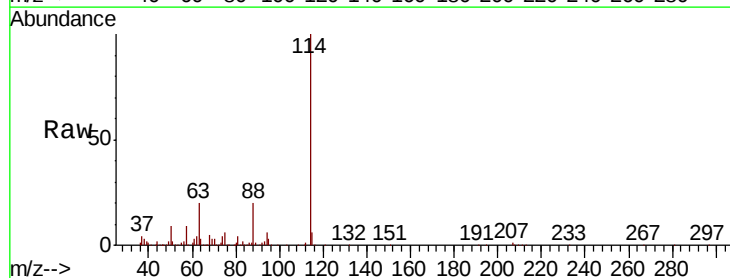
Tgt Ion: 83 Resp: 6251

Ion Ratio Lower Upper

83 100

55 31.3 69.0 103.6#

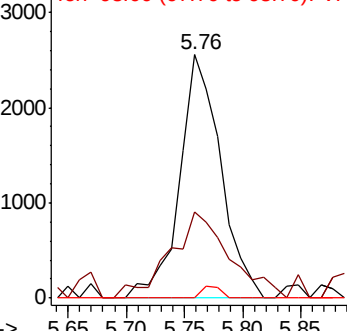
98 0.0 38.6 58.0#



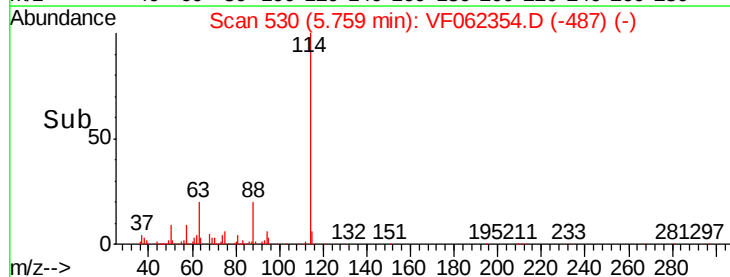
Abundance Ion 83.00 (82.70 to 83.70): VF0

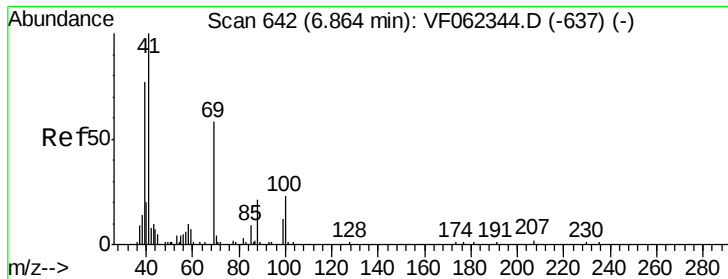
Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



Time-->





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.80 min Scan# 636

Delta R.T. -0.06 min

Lab File: VF062354.D

Acq: 7 May 2019 13:41

Instrument :

MSVOA_F

ClientSampleId :

SP-1-B

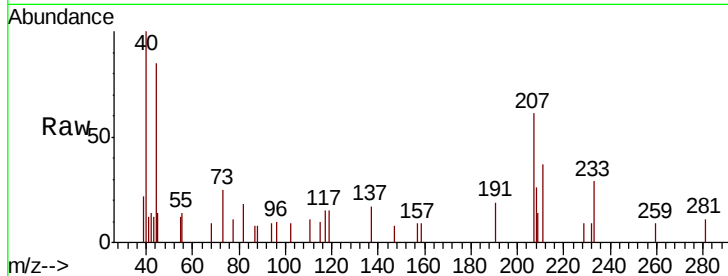
Tgt Ion: 88 Resp: 61

Ion Ratio Lower Upper

88 100

43 1303.3 55.6 83.4#

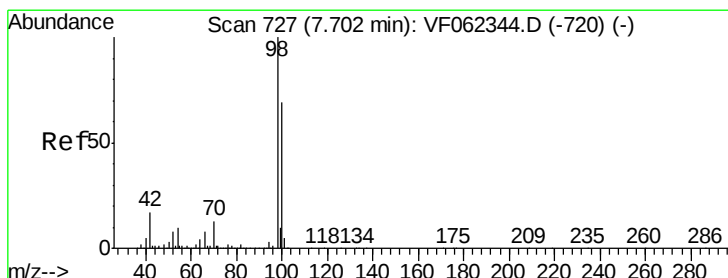
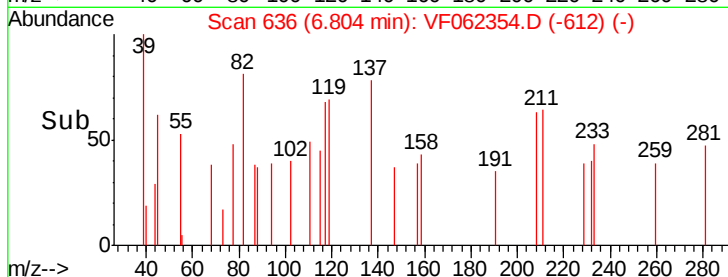
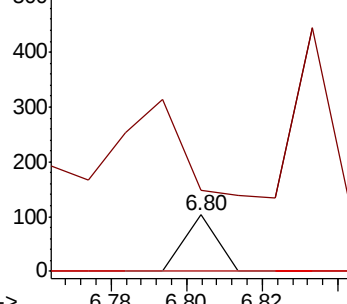
58 0.0 52.8 79.2#



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: 39.418 ug/l

RT: 7.70 min Scan# 727

Delta R.T. -0.00 min

Lab File: VF062354.D

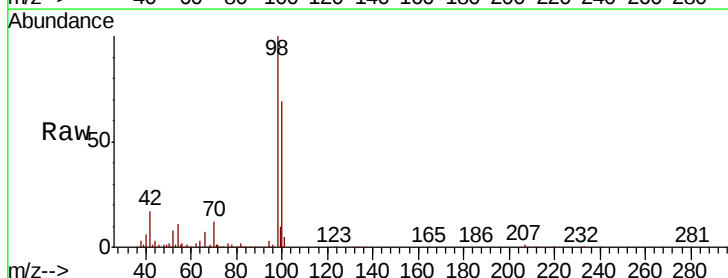
Acq: 7 May 2019 13:41

Tgt Ion: 98 Resp: 316244

Ion Ratio Lower Upper

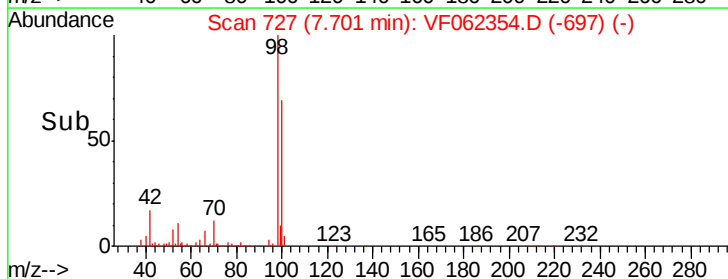
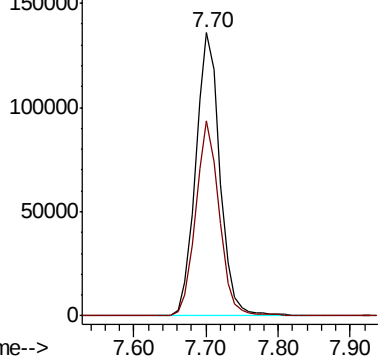
98 100

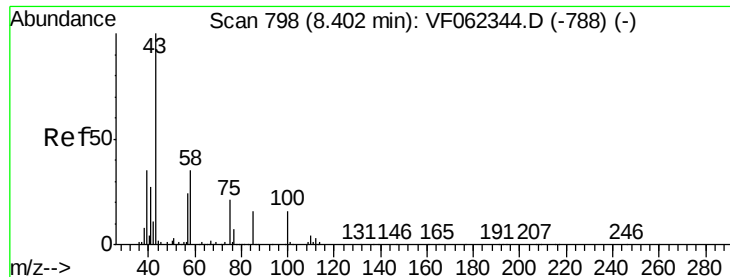
100 67.0 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

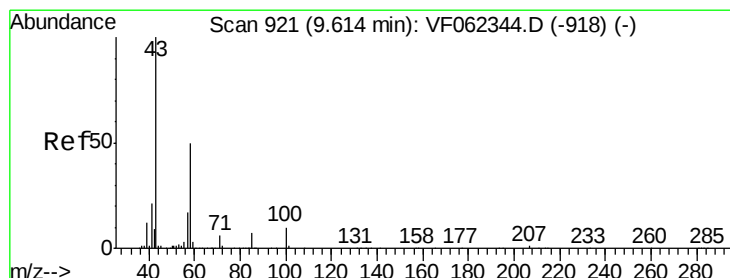
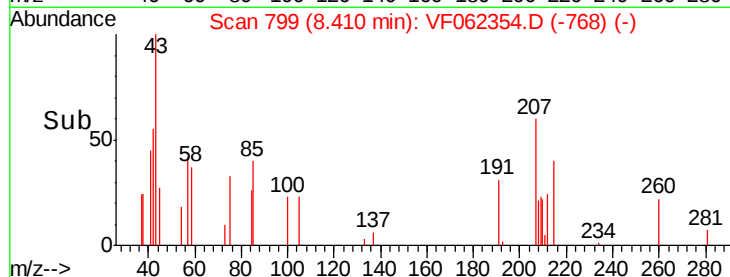
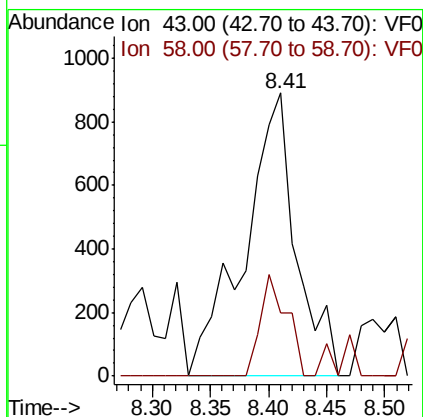
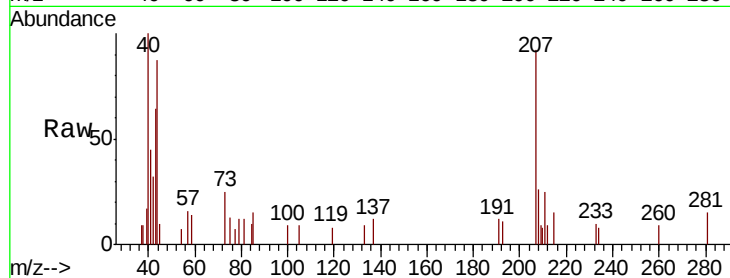




#51
 4-Methyl-2-Pentanone
 Concen: 2.230 ug/l
 RT: 8.41 min Scan# 799
 Delta R.T. 0.01 min
 Lab File: VF062354.D
 Acq: 7 May 2019 13:41

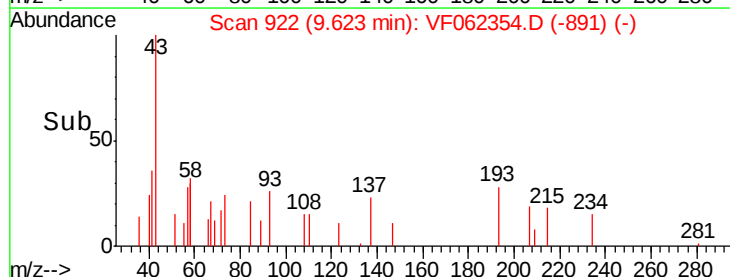
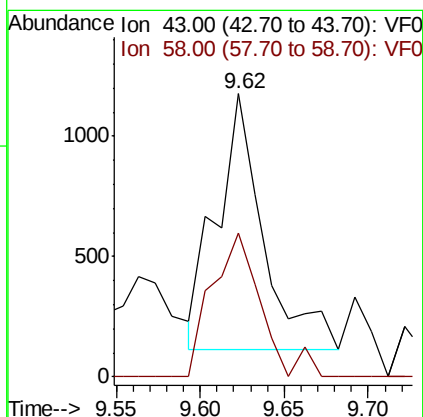
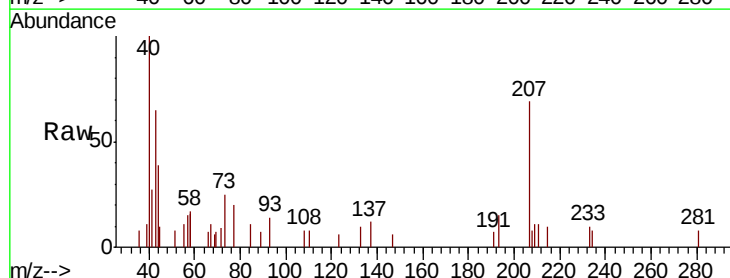
Instrument :
 MSVOA_F
 ClientSampleId :
 SP-1-B

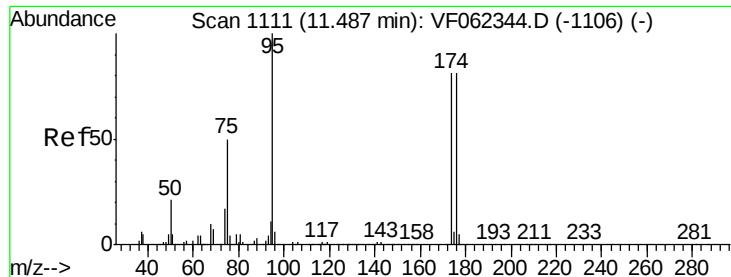
Tgt Ion: 43 Resp: 2747
 Ion Ratio Lower Upper
 43 100
 58 18.3 27.8 41.6#



#59
 2-Hexanone
 Concen: 2.405 ug/l
 RT: 9.62 min Scan# 922
 Delta R.T. 0.01 min
 Lab File: VF062354.D
 Acq: 7 May 2019 13:41

Tgt Ion: 43 Resp: 2049
 Ion Ratio Lower Upper
 43 100
 58 59.2 24.3 73.0





#62

4-Bromofluorobenzene

Concen: 38.262 ug/l

RT: 11.49 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VF062354.D

Acq: 7 May 2019 13:41

Instrument :

MSVOA_F

ClientSampled :

SP-1-B

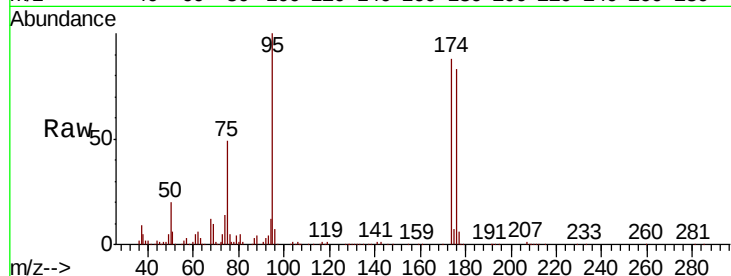
Tgt Ion: 95 Resp: 138495

Ion Ratio Lower Upper

95 100

174 95.9 0.0 191.8

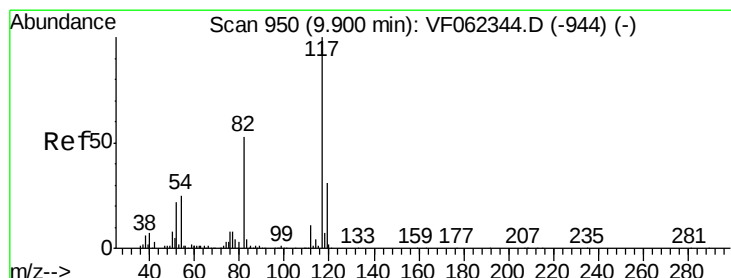
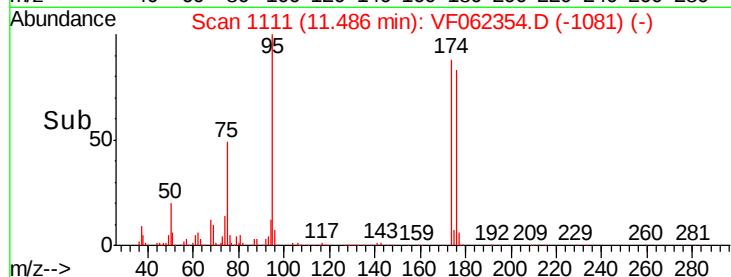
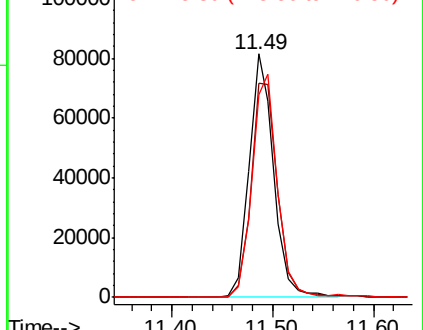
176 95.7 0.0 193.2



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: 9.90 min Scan# 950

Delta R.T. -0.00 min

Lab File: VF062354.D

Acq: 7 May 2019 13:41

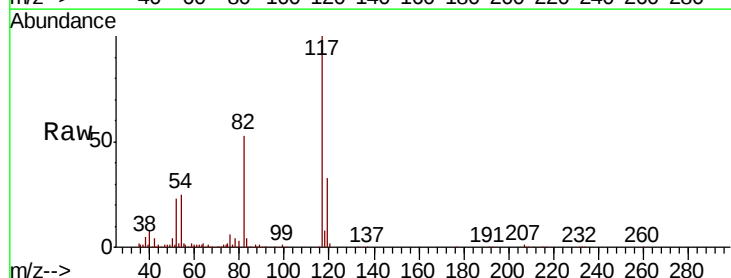
Tgt Ion: 117 Resp: 324954

Ion Ratio Lower Upper

117 100

82 53.2 42.2 63.2

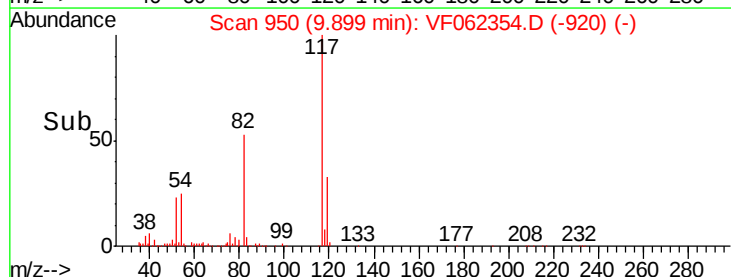
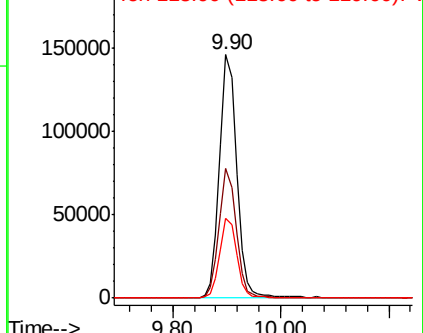
119 32.6 25.0 37.4

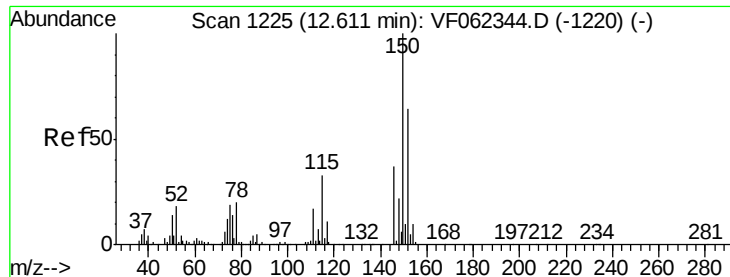


Abundance Ion 116.90 (116.60 to 117.60): V

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# 1225

Delta R.T. -0.00 min

Lab File: VF062354.D

Acq: 7 May 2019 13:41

Instrument :

MSVOA_F

ClientSampleId :

SP-1-B

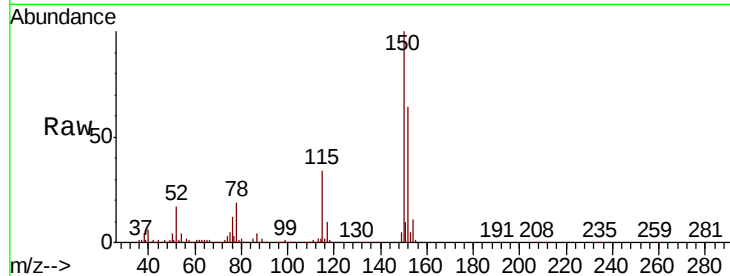
Tgt Ion: 152 Resp: 175536

Ion Ratio Lower Upper

152 100

115 55.2 26.4 79.2

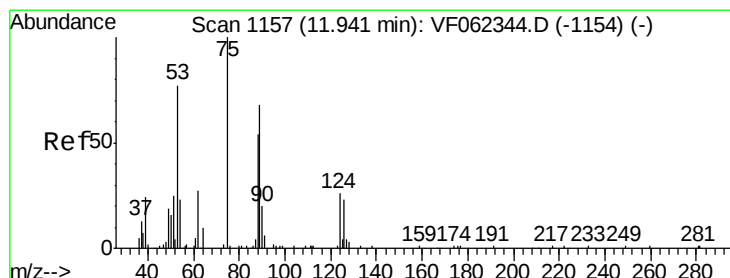
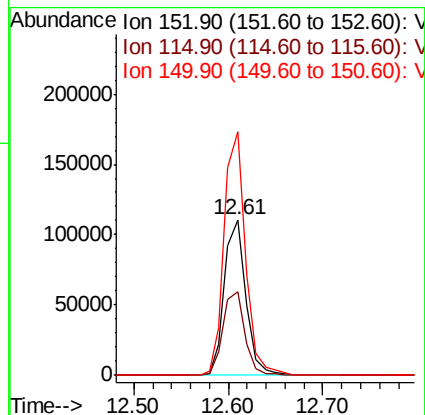
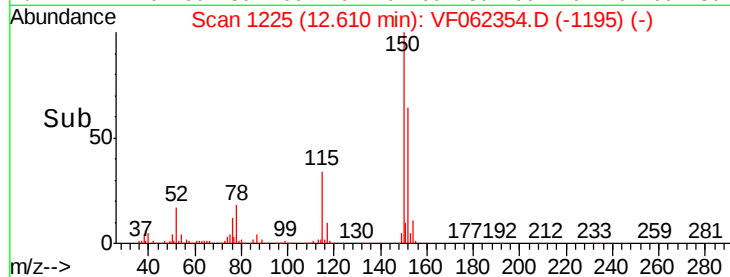
150 154.4 0.0 335.0



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



#81

trans-1,4-Dichloro-2-butene

Concen: 1.697 ug/l

RT: 11.94 min Scan# 1157

Delta R.T. -0.00 min

Lab File: VF062354.D

Acq: 7 May 2019 13:41

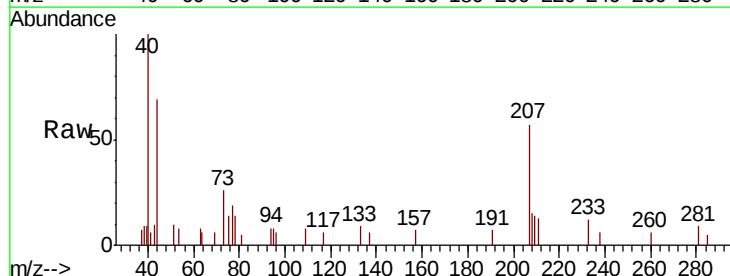
Tgt Ion: 75 Resp: 793

Ion Ratio Lower Upper

75 100

53 12.4 71.9 107.9#

89 8.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 88.90 (88.60 to 89.60): VF0

