

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032619\
 Data File : VF062151.D
 Acq On : 26 Mar 2019 17:41
 Operator : VA/AP
 Sample : K2091-01RE
 Misc : 5.42g/5mL/MSVOA-F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 DRUM-COMPRES

Quant Time: Mar 27 05:17:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 01:16:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	222708	50.00	ug/l	-0.05
34) 1,4-Difluorobenzene	5.58	114	350275	50.00	ug/l	-0.05
63) Chlorobenzene-d5	9.76	117	239020	50.00	ug/l	-0.05
72) 1,4-Dichlorobenzene-d4	12.54	152	82861	50.00	ug/l	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	70430	42.52	ug/l	-0.05
Spiked Amount			Recovery	=	85.04%	
35) Dibromofluoromethane	4.10	113	99659	42.06	ug/l	-0.05
Spiked Amount			Recovery	=	84.12%	
50) Toluene-d8	7.54	98	227843	32.21	ug/l	-0.05
Spiked Amount			Recovery	=	64.42%	
62) 4-Bromofluorobenzene	11.40	95	71769	26.28	ug/l	-0.04
Spiked Amount			Recovery	=	52.56%	

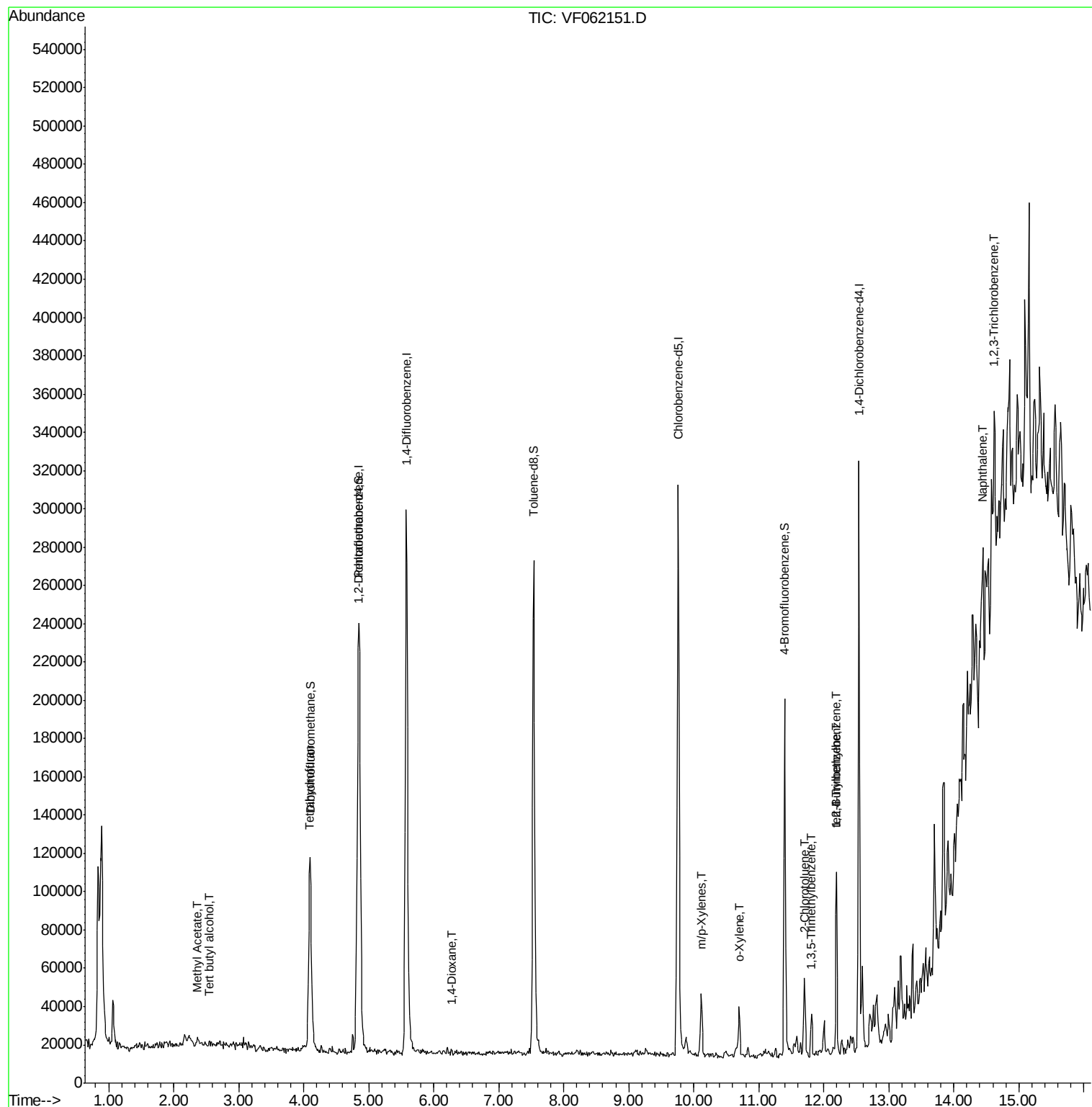
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.56	59	976	10.708	ug/l #	66
18) Methyl Acetate	2.35	43	3653	4.392	ug/l #	56
20) Methylene Chloride	2.18	84	2907	Below Cal	#	78
29) Tetrahydrofuran	4.08	42	571	1.804	ug/l #	55
49) 1,4-Dioxane	6.27	88	115	13.035	ug/l #	1
68) m/p-Xylenes	10.11	106	11701	4.025	ug/l	94
69) o-Xylene	10.70	106	7674	2.521	ug/l	91
79) 2-Chlorotoluene	11.70	91	4078	1.084	ug/l #	38
80) 1,3,5-Trimethylbenzene	11.81	105	11860	2.473	ug/l	99
83) tert-Butylbenzene	12.19	119	5652	1.126	ug/l #	62
84) 1,2,4-Trimethylbenzene	12.19	105	46150	9.816	ug/l	99
95) Naphthalene	14.44	128	4254	1.402	ug/l #	53
96) 1,2,3-Trichlorobenzene	14.63	180	15880	9.795	ug/l #	25

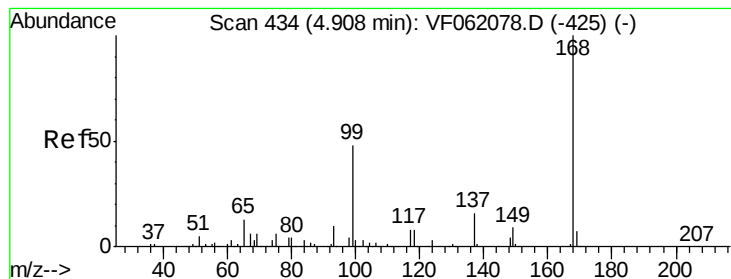
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.05 min

Lab File: VF062151.D

Acq: 26 Mar 2019 17:41

Instrument :

MSVOA_F

ClientSampleId :

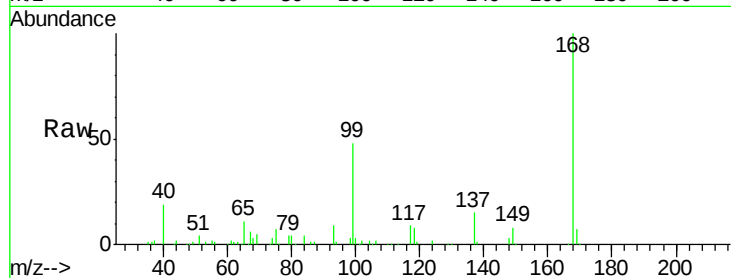
DRUM-COMP

Tot Ion:168 Resp: 222708

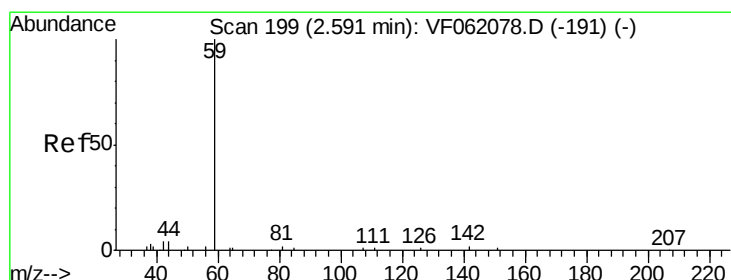
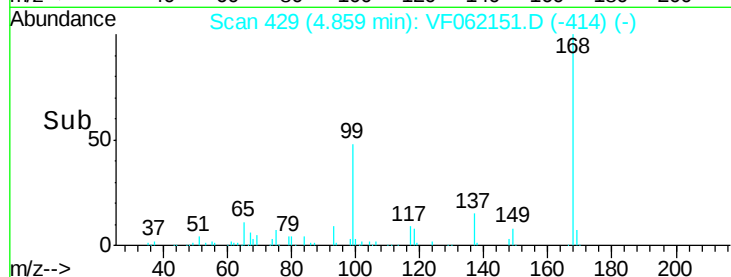
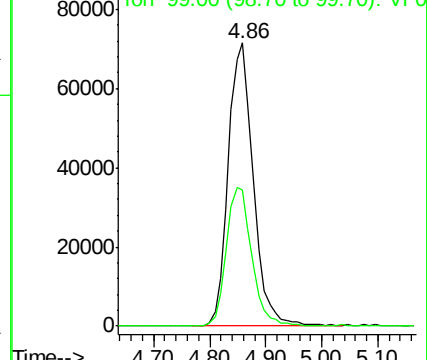
Ion Ratio Lower Upper

168 100

99 48.0 38.2 57.4



Abundance Ion 168.00 (167.70 to 168.70): VF0



#11

Tert butyl alcohol

Concen: 10.708 ug/l

RT: 2.56 min Scan# 196

Delta R.T. -0.03 min

Lab File: VF062151.D

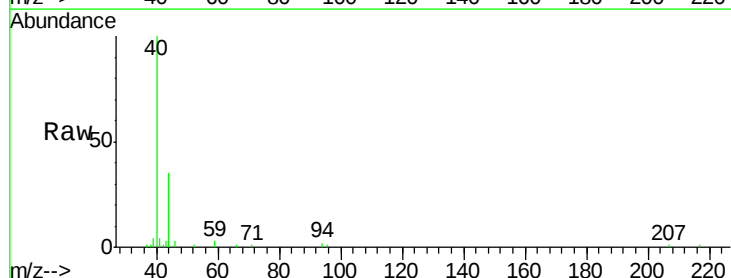
Acq: 26 Mar 2019 17:41

Tgt Ion: 59 Resp: 976

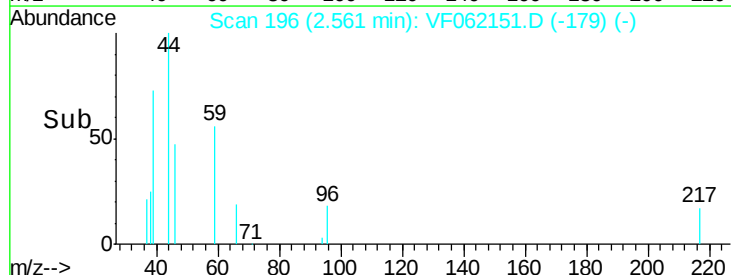
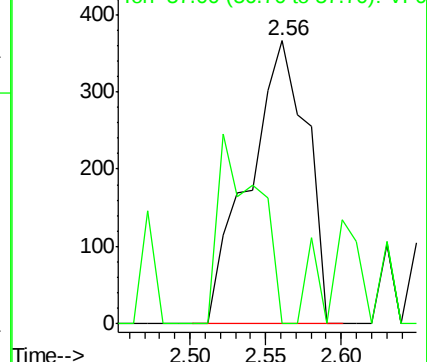
Ion Ratio Lower Upper

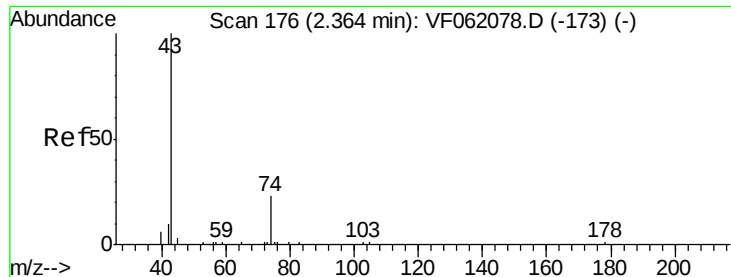
59 100

57 0.0 11.0 16.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

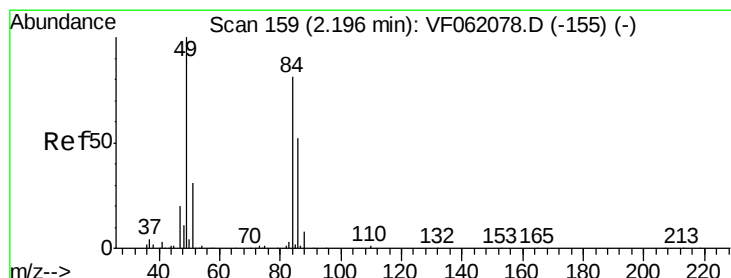
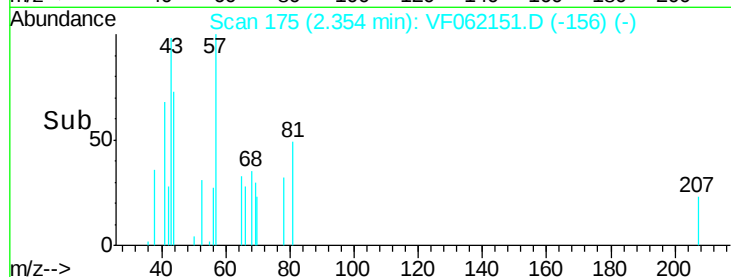
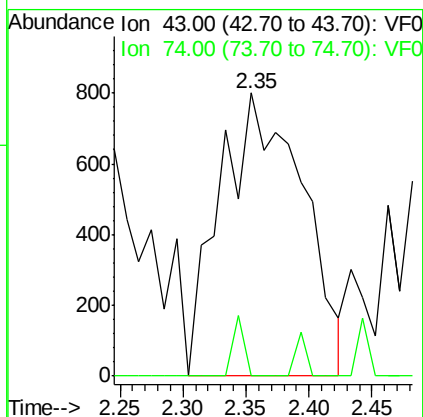
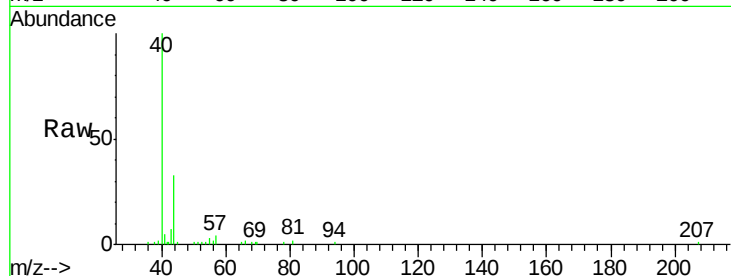




#18
Methyl Acetate
Concen: 4.392 ug/l
RT: 2.35 min Scan# 175
Delta R.T. -0.01 min
Lab File: VF062151.D
Acq: 26 Mar 2019 17:41

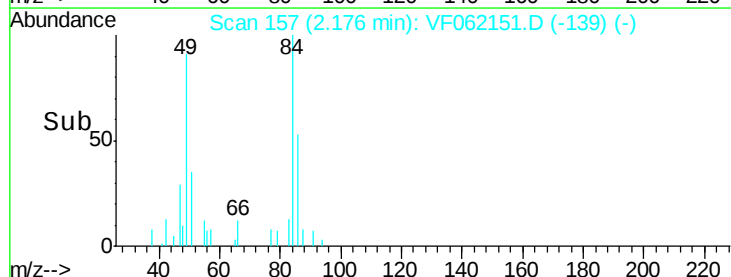
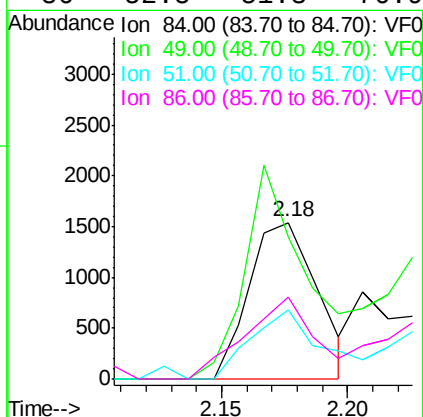
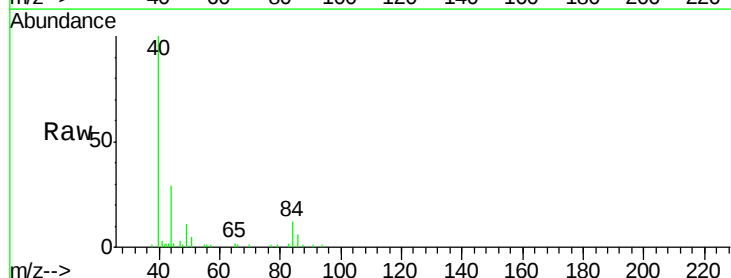
Instrument :
MSVOA_F
ClientSampleId :
DRUM-COMP

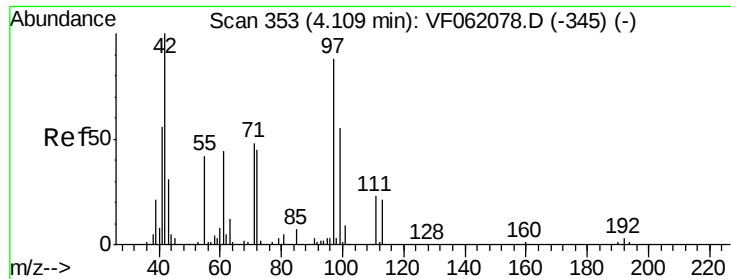
Tot Ion: 43 Resp: 3653
Ion Ratio Lower Upper
43 100
74 0.0 16.3 24.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.18 min Scan# 157
Delta R.T. -0.02 min
Lab File: VF062151.D
Acq: 26 Mar 2019 17:41

Tgt Ion: 84 Resp: 2907
Ion Ratio Lower Upper
84 100
49 90.6 100.4 150.6#
51 44.1 31.0 46.6
86 52.5 51.3 76.9





#29

Tetrahydrofuran

Concen: 1.804 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.03 min

Lab File: VF062151.D

Acq: 26 Mar 2019 17:41

Instrument :

MSVOA_F

ClientSampleId :

DRUM-COMPRES

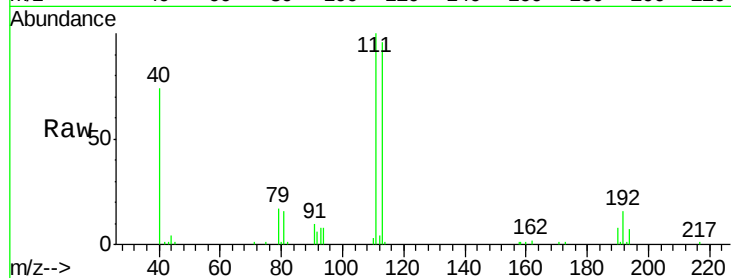
Tot Ion: 42 Resp: 571

Ion Ratio Lower Upper

42 100

72 15.1 33.3 49.9#

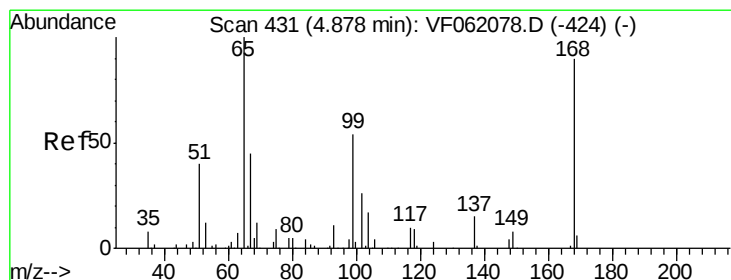
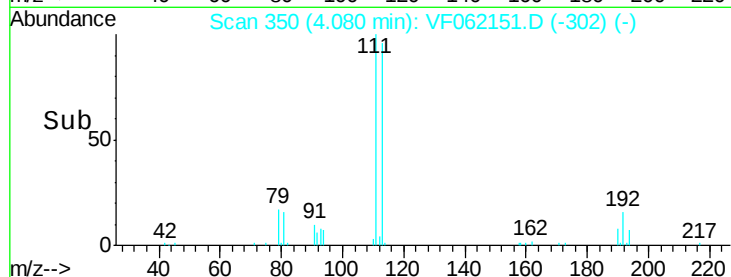
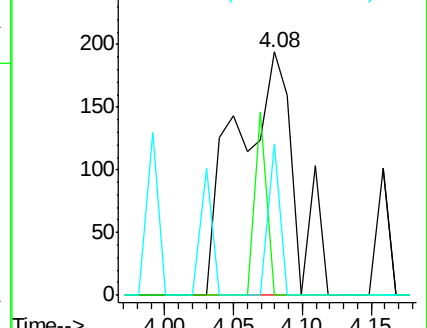
71 12.6 35.0 52.4#



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 42.517 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.05 min

Lab File: VF062151.D

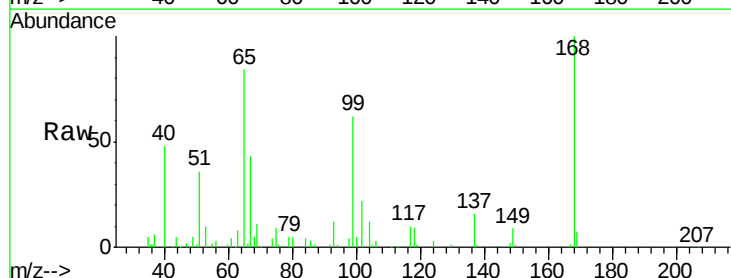
Acq: 26 Mar 2019 17:41

Tgt Ion: 65 Resp: 70430

Ion Ratio Lower Upper

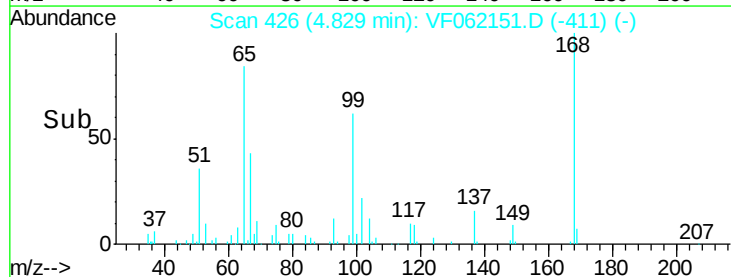
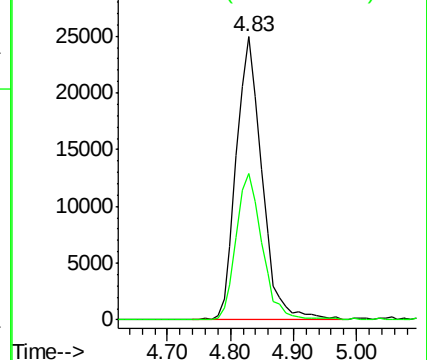
65 100

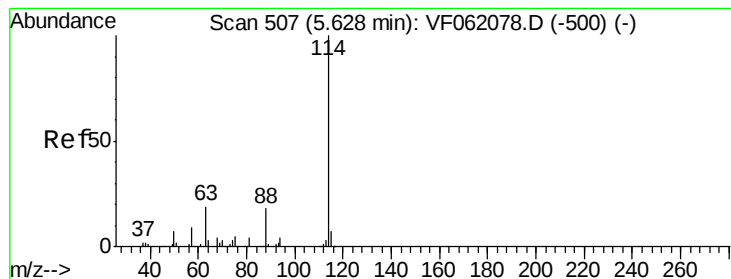
67 51.7 0.0 106.2



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.05 min

Lab File: VF062151.D

Acq: 26 Mar 2019 17:41

Instrument :

MSVOA_F

ClientSampleId :

DRUM-COMPRES

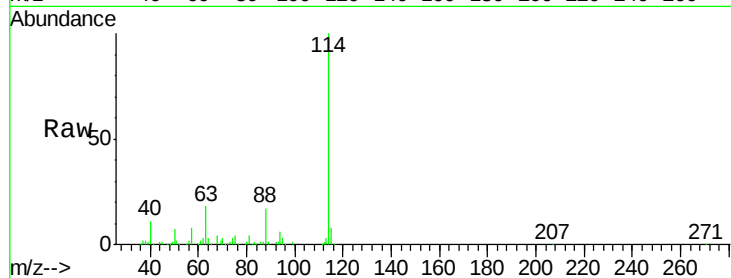
Tot Ion:114 Resp: 350275

Ion Ratio Lower Upper

114 100

63 18.2 0.0 37.8

88 16.8 0.0 36.4



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

150000

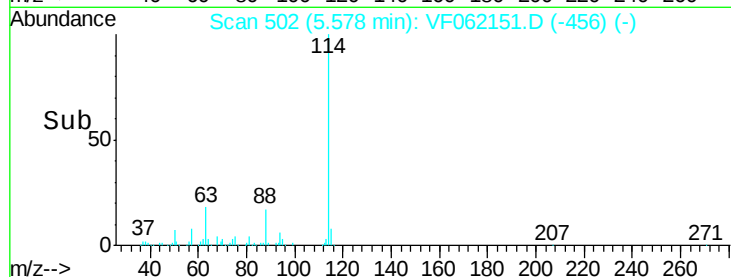
100000

50000

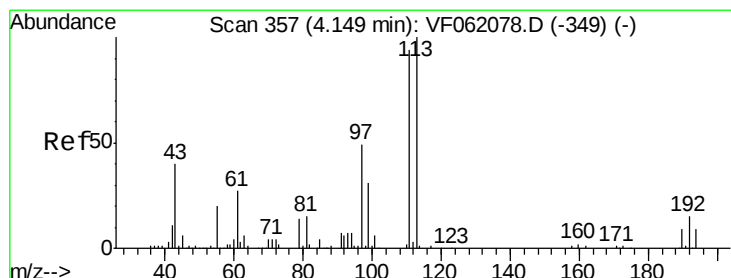
0

5.58

5.40 5.50 5.60 5.70 5.80



Time-->



#35

Dibromofluoromethane

Concen: 42.060 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.05 min

Lab File: VF062151.D

Acq: 26 Mar 2019 17:41

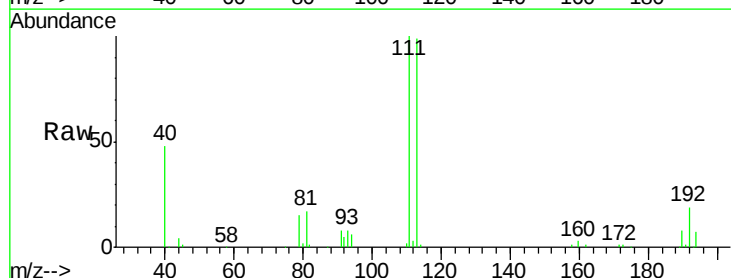
Tgt Ion:113 Resp: 99659

Ion Ratio Lower Upper

113 100

111 101.5 75.4 113.0

192 19.0 12.3 18.5#



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

40000

30000

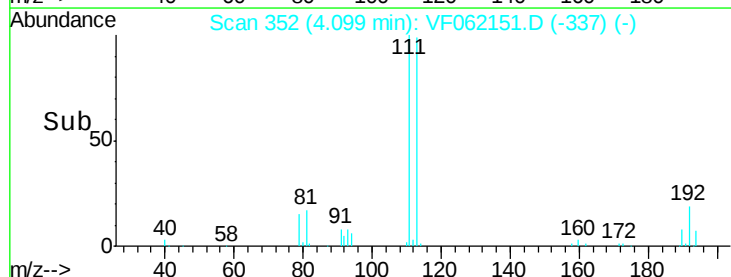
20000

10000

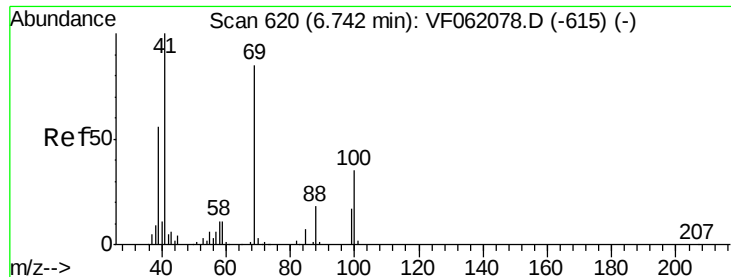
0

4.10

4.00 4.10 4.20 4.30



Time-->



#49

1,4-Dioxane

Concen: 13.035 ug/l

RT: 6.27 min Scan# 572

Delta R.T. -0.47 min

Lab File: VF062151.D

Acq: 26 Mar 2019 17:41

Instrument :

MSVOA_F

ClientSampleId :

DRUM-COMPRES

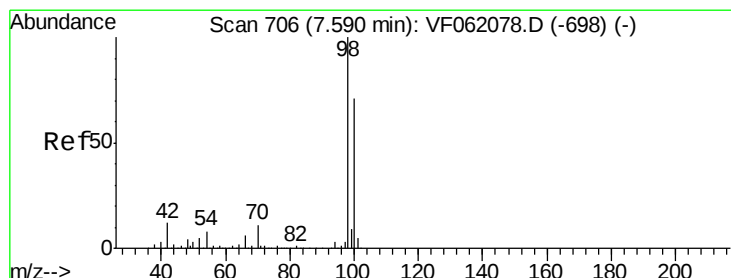
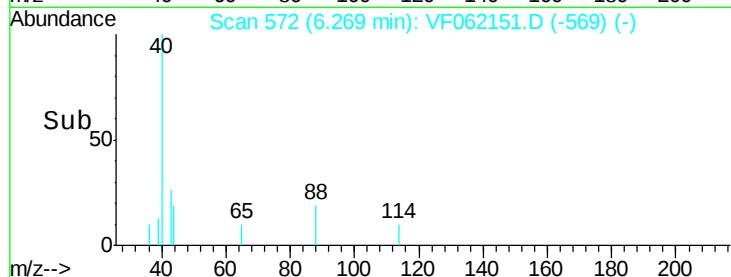
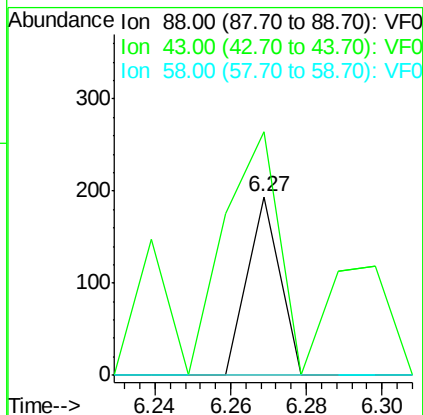
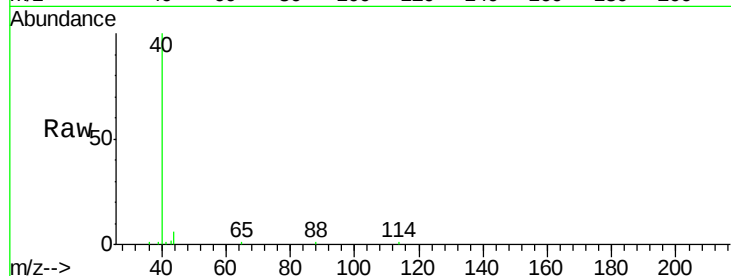
Tot Ion: 88 Resp: 115

Ion Ratio Lower Upper

88 100

43 136.1 35.0 52.4#

58 0.0 49.9 74.9#



#50

Toluene-d8

Concen: 32.213 ug/l

RT: 7.54 min Scan# 701

Delta R.T. -0.05 min

Lab File: VF062151.D

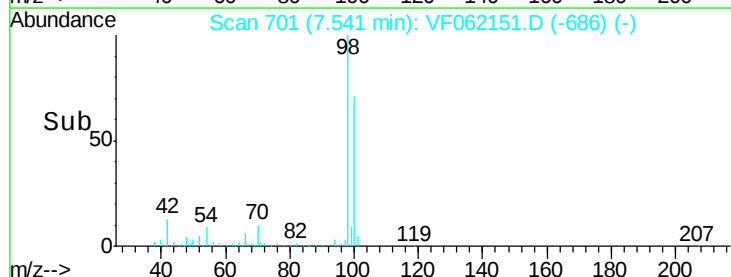
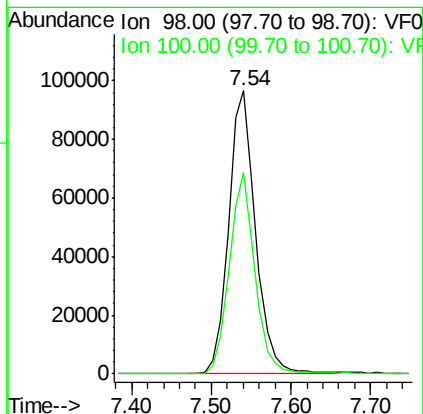
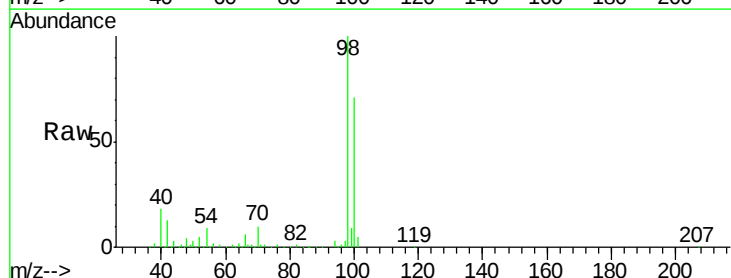
Acq: 26 Mar 2019 17:41

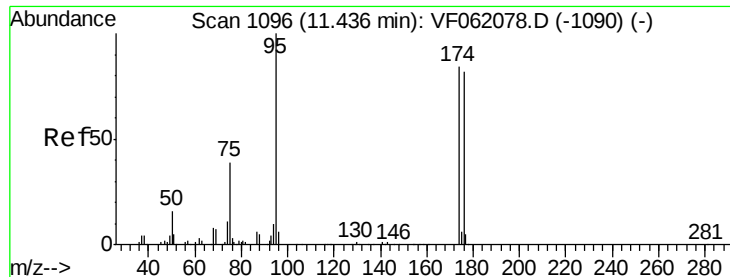
Tgt Ion: 98 Resp: 227843

Ion Ratio Lower Upper

98 100

100 71.1 57.0 85.6





#62

4-Bromofluorobenzene

Concen: 26.284 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.04 min

Lab File: VF062151.D

Acq: 26 Mar 2019 17:41

Instrument :

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ClientSampleId :

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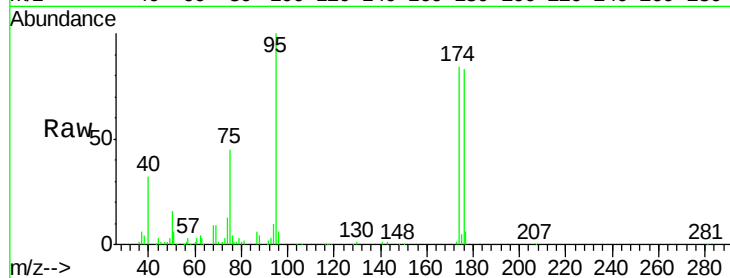
Tot Ion: 95 Resp: 71769

Ion Ratio Lower Upper

95 100

174 84.0 0.0 168.2

176 82.9 0.0 164.2

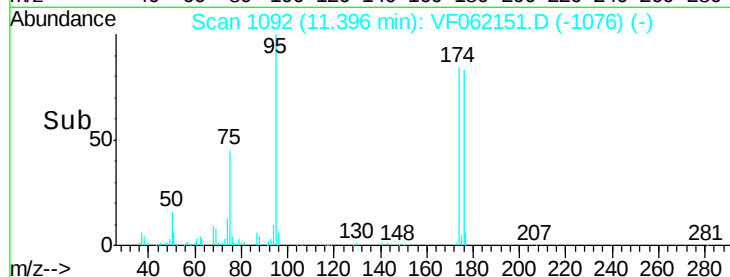


Abundance Ion 95.00 (94.70 to 95.70): VF062078.D (-1090) (-)

Ion 174.00 (173.70 to 174.70): VF062078.D (-1090) (-)

Ion 176.00 (175.70 to 176.70): VF062078.D (-1090) (-)

Time-->

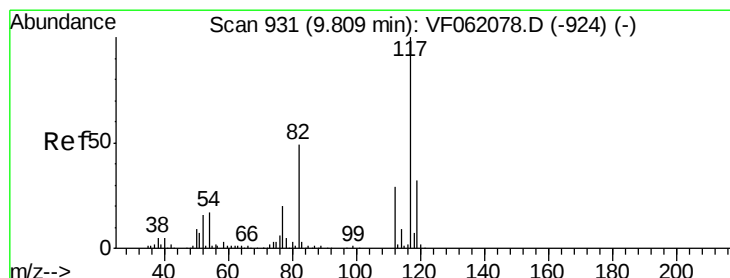


Abundance Ion 95.00 (94.70 to 95.70): VF062151.D (-1076) (-)

Ion 174.00 (173.70 to 174.70): VF062151.D (-1076) (-)

Ion 176.00 (175.70 to 176.70): VF062151.D (-1076) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.76 min Scan# 926

Delta R.T. -0.05 min

Lab File: VF062151.D

Acq: 26 Mar 2019 17:41

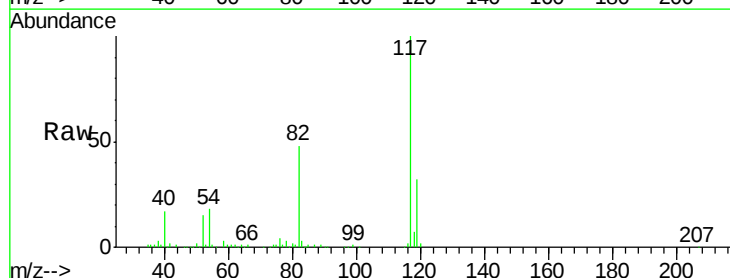
Tgt Ion: 117 Resp: 239020

Ion Ratio Lower Upper

117 100

82 48.1 39.2 58.8

119 31.9 25.4 38.2

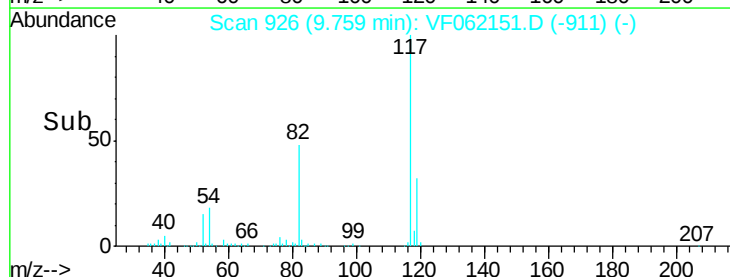


Abundance Ion 117.00 (116.70 to 117.70): VF062078.D (-924) (-)

Ion 82.00 (81.70 to 82.70): VF062078.D (-924) (-)

Ion 119.00 (118.70 to 119.70): VF062078.D (-924) (-)

Time-->

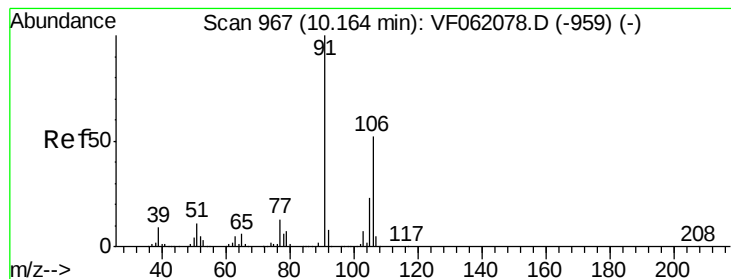


Abundance Ion 117.00 (116.70 to 117.70): VF062151.D (-911) (-)

Ion 82.00 (81.70 to 82.70): VF062151.D (-911) (-)

Ion 119.00 (118.70 to 119.70): VF062151.D (-911) (-)

Time-->



#68

m/p-Xylenes

Concen: 4.025 ug/l

RT: 10.11 min Scan# 962

Delta R.T. -0.05 min

Lab File: VF062151.D

Acq: 26 Mar 2019 17:41

Instrument :

MSVOA_F

ClientSampleId :

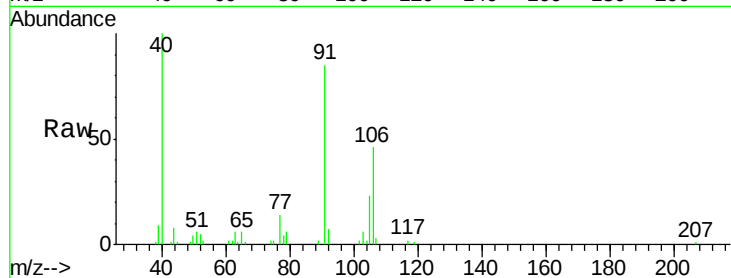
DRUM-COMPRES

Tot Ion:106 Resp: 11701

Ion Ratio Lower Upper

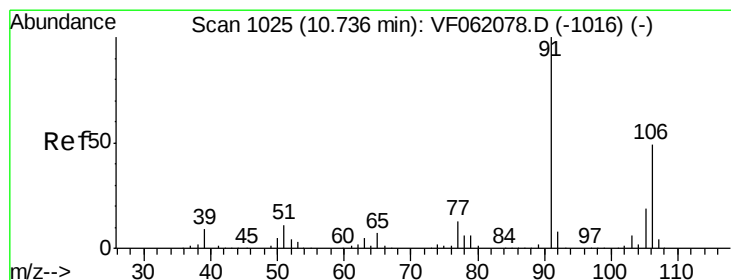
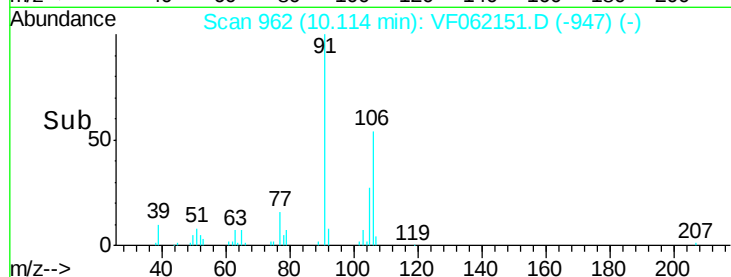
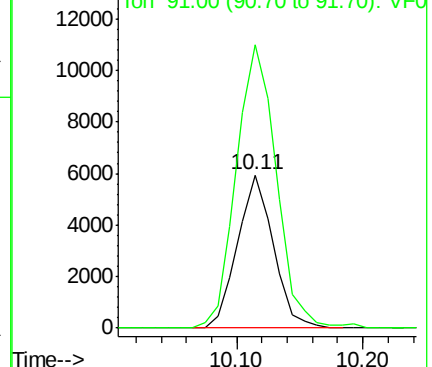
106 100

91 184.7 154.4 231.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



#69

o-Xylene

Concen: 2.521 ug/l

RT: 10.70 min Scan# 1021

Delta R.T. -0.04 min

Lab File: VF062151.D

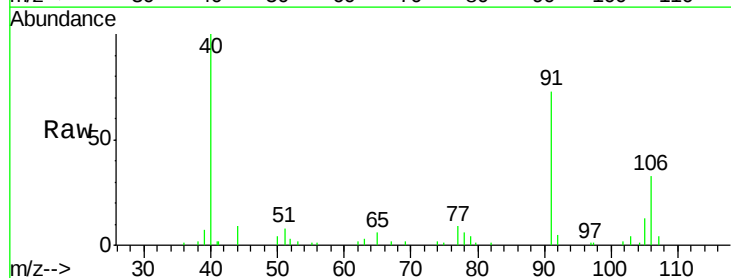
Acq: 26 Mar 2019 17:41

Tgt Ion:106 Resp: 7674

Ion Ratio Lower Upper

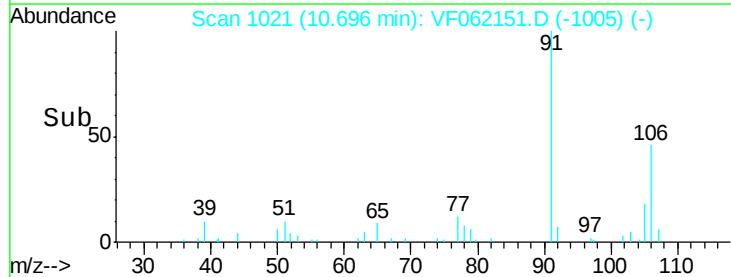
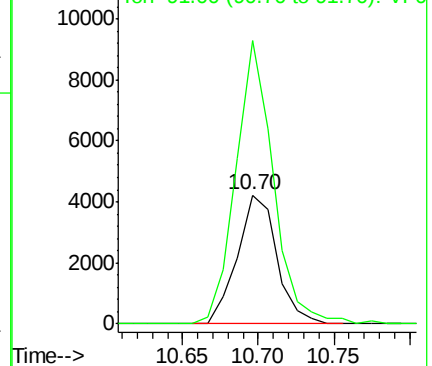
106 100

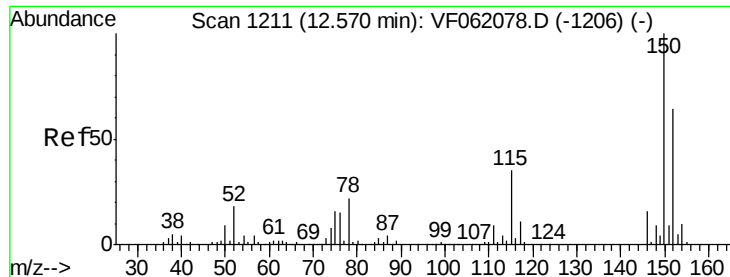
91 219.4 102.6 307.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



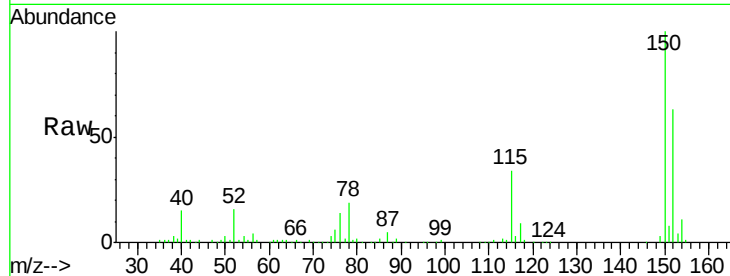


#72

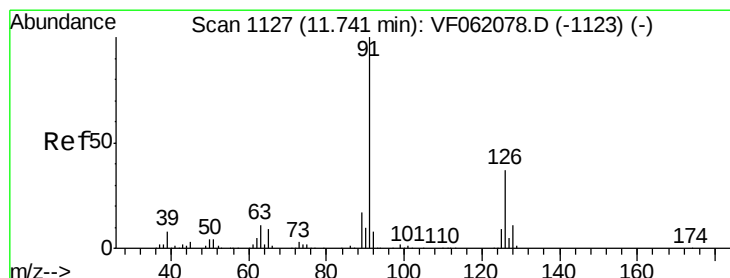
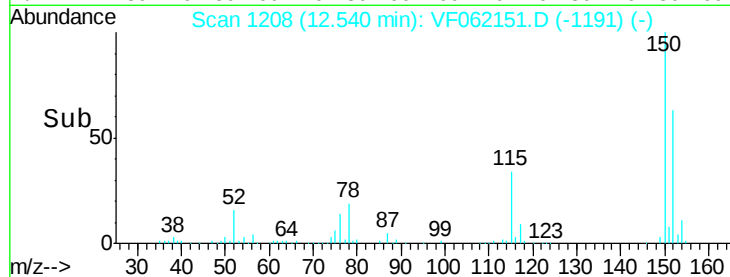
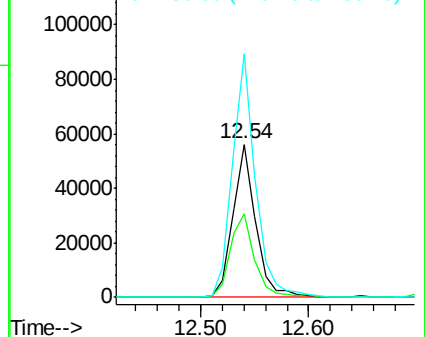
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.03 min
Lab File: VF062151.D
Acq: 26 Mar 2019 17:41

Instrument :
MSVOA_F
ClientSampleId :
DRUM-COMPRES

Tot Ion:152 Resp: 82861
Ion Ratio Lower Upper
152 100
115 54.2 27.7 83.1
150 158.9 0.0 313.2



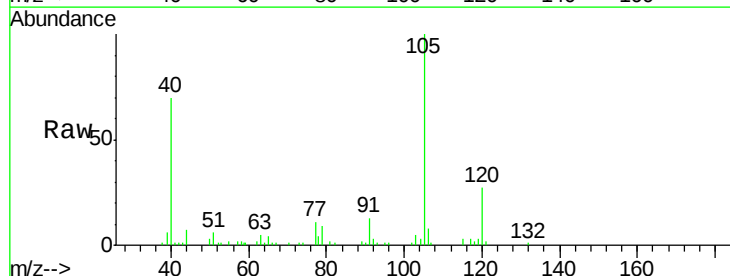
Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V



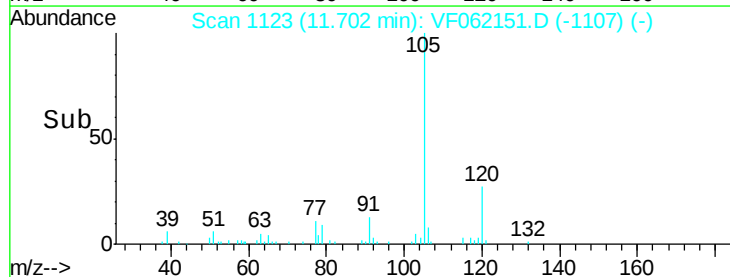
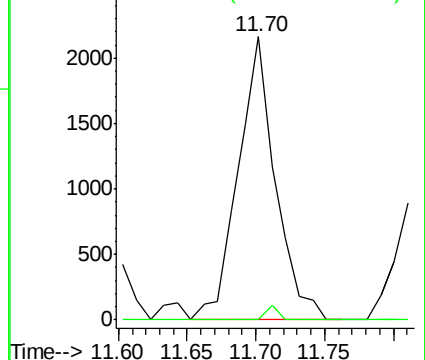
#79

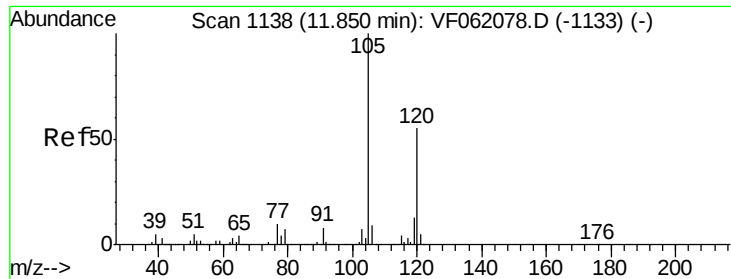
2-Chlorotoluene
Concen: 1.084 ug/l
RT: 11.70 min Scan# 1123
Delta R.T. -0.04 min
Lab File: VF062151.D
Acq: 26 Mar 2019 17:41

Tgt Ion: 91 Resp: 4078
Ion Ratio Lower Upper
91 100
126 0.0 18.3 54.8#



Abundance Ion 91.00 (90.70 to 91.70): VF0
Ion 126.00 (125.70 to 126.70): V

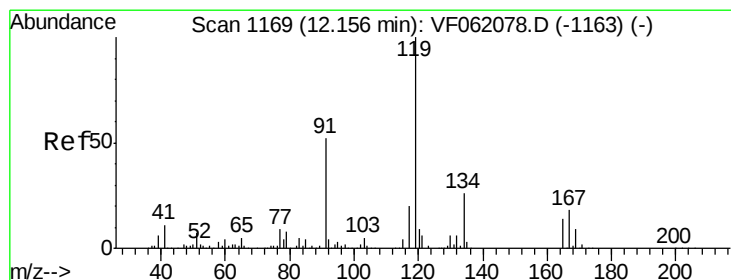
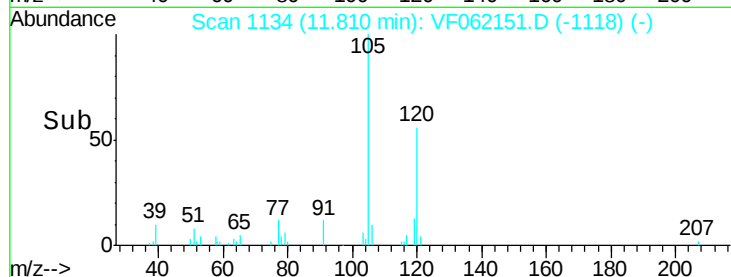
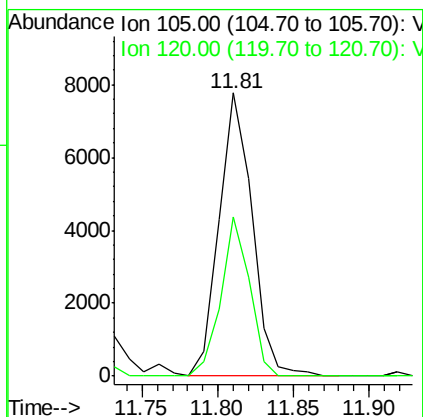
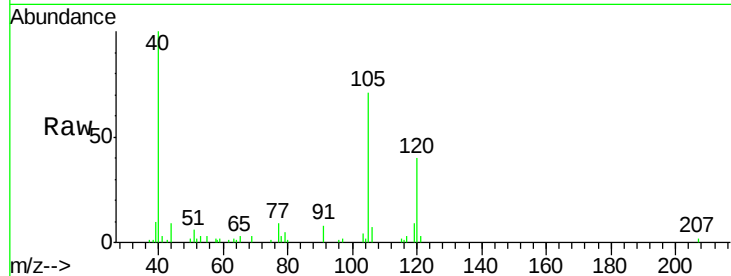




#80
 1,3,5-Trimethylbenzene
 Concen: 2.473 ug/l
 RT: 11.81 min Scan# 1134
 Delta R.T. -0.04 min
 Lab File: VF062151.D
 Acq: 26 Mar 2019 17:41

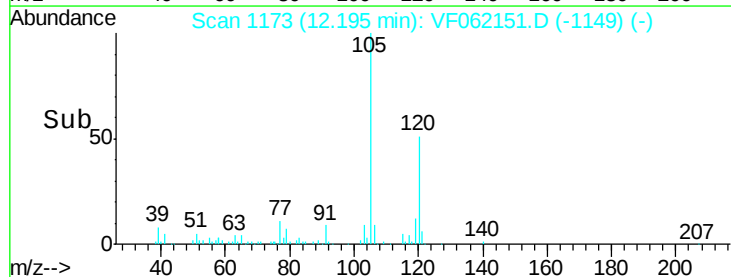
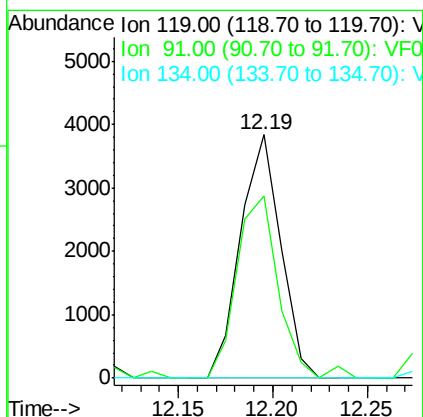
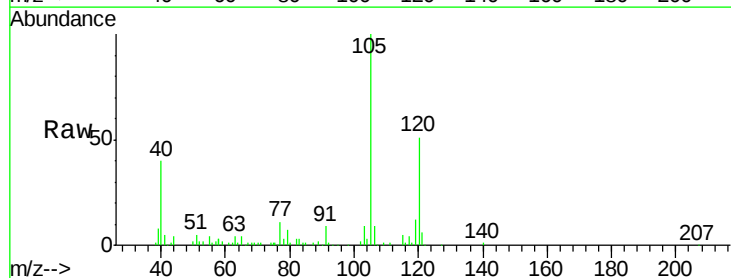
Instrument :
 MSVOA_F
 ClientSampleId :
 DRUM-COMP

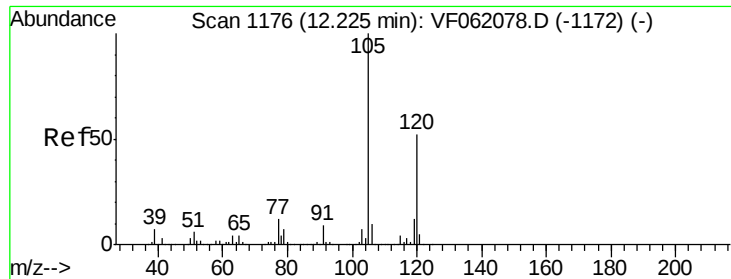
Tot Ion:105 Resp: 11860
 Ion Ratio Lower Upper
 105 100
 120 56.0 27.8 83.3



#83
 tert-Butylbenzene
 Concen: 1.126 ug/l
 RT: 12.19 min Scan# 1173
 Delta R.T. 0.04 min
 Lab File: VF062151.D
 Acq: 26 Mar 2019 17:41

Tgt Ion:119 Resp: 5652
 Ion Ratio Lower Upper
 119 100
 91 74.9 26.1 78.2
 134 0.0 12.8 38.4#

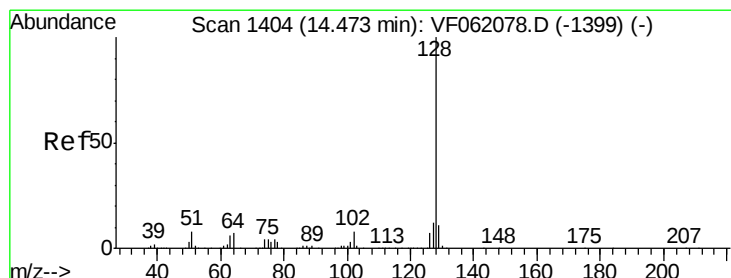
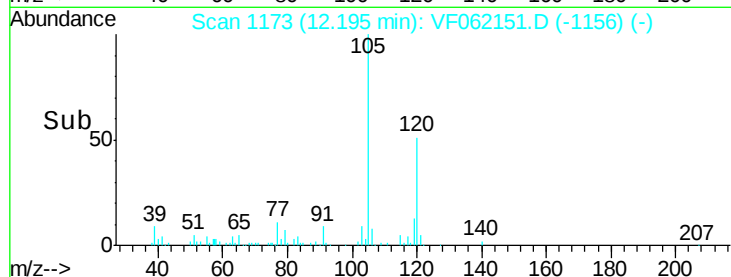
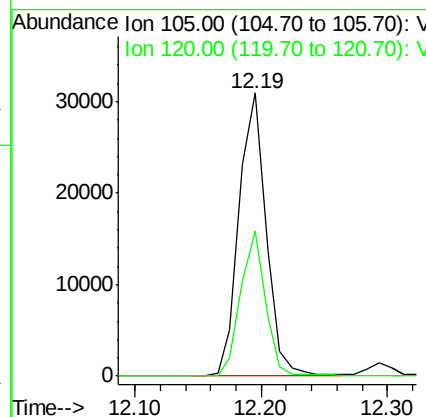
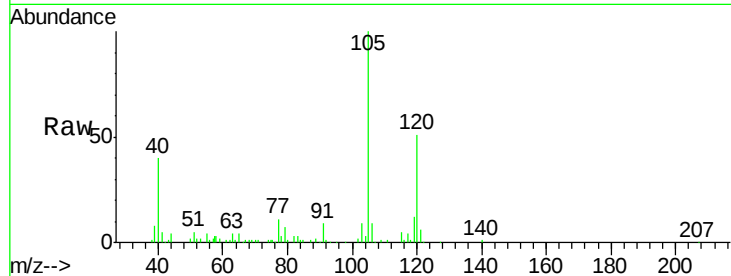




#84
 1,2,4-Trimethylbenzene
 Concen: 9.816 ug/l
 RT: 12.19 min Scan# 1173
 Delta R.T. -0.03 min
 Lab File: VF062151.D
 Acq: 26 Mar 2019 17:41

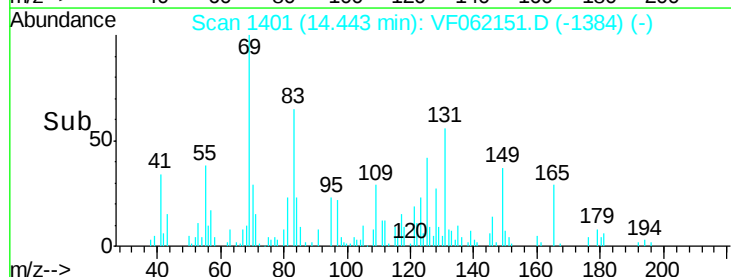
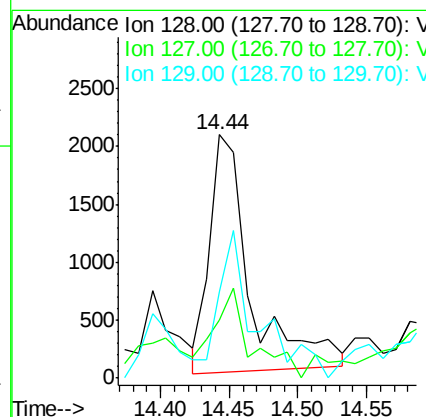
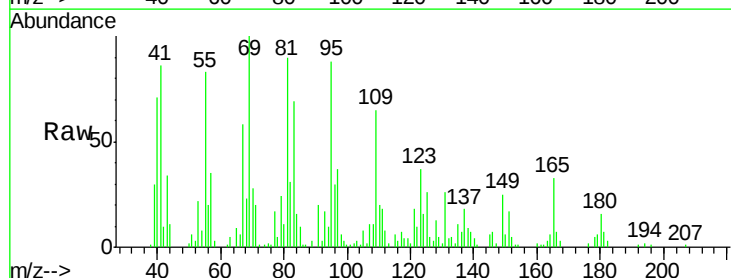
Instrument :
 MSVOA_F
 ClientSampleId :
 DRUM-COMP

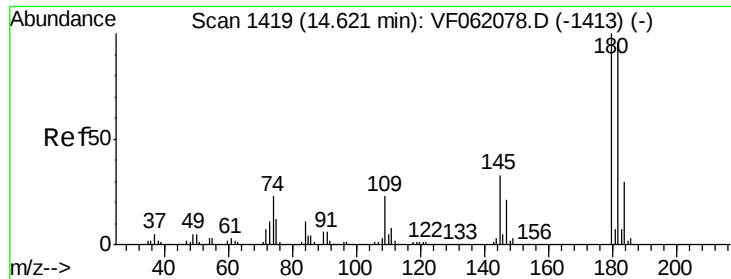
Tot Ion:105 Resp: 46150
 Ion Ratio Lower Upper
 105 100
 120 51.2 26.1 78.2



#95
 Naphthalene
 Concen: 1.402 ug/l
 RT: 14.44 min Scan# 1401
 Delta R.T. -0.03 min
 Lab File: VF062151.D
 Acq: 26 Mar 2019 17:41

Tgt Ion:128 Resp: 4254
 Ion Ratio Lower Upper
 128 100
 127 23.9 9.5 14.3#
 129 35.5 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 9.795 ug/l
 RT: 14.63 min Scan# 1420
 Delta R.T. 0.01 min
 Lab File: VF062151.D
 Acq: 26 Mar 2019 17:41

Instrument :
 MSVOA_F
 ClientSampleId :
 DRUM-COMP

Tot Ion:180 Resp: 15880
 Ion Ratio Lower Upper
 180 100
 182 8.1 47.9 143.7#
 145 14.3 16.6 49.7#

