

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF022219\
 Data File : VF061713.D
 Acq On : 22 Feb 2019 17:28
 Operator : VA/AP
 Sample : K1595-07
 Misc : 6.51a/5mL/MSVOA-F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-MH-C02

Quant Time: Feb 23 01:45:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	64	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	0.00	114	0	0.00	ug/l	-5.61
63) Chlorobenzene-d5	9.76	117	91	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ug/l	-12.56

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	0.00	65	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	7.51	98	70	0.00	ug/l	-0.05
Spiked Amount	50.000		Recovery	=	0.00%	
62) 4-Bromofluorobenzene	11.52	95	60	0.00	ug/l	0.10
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

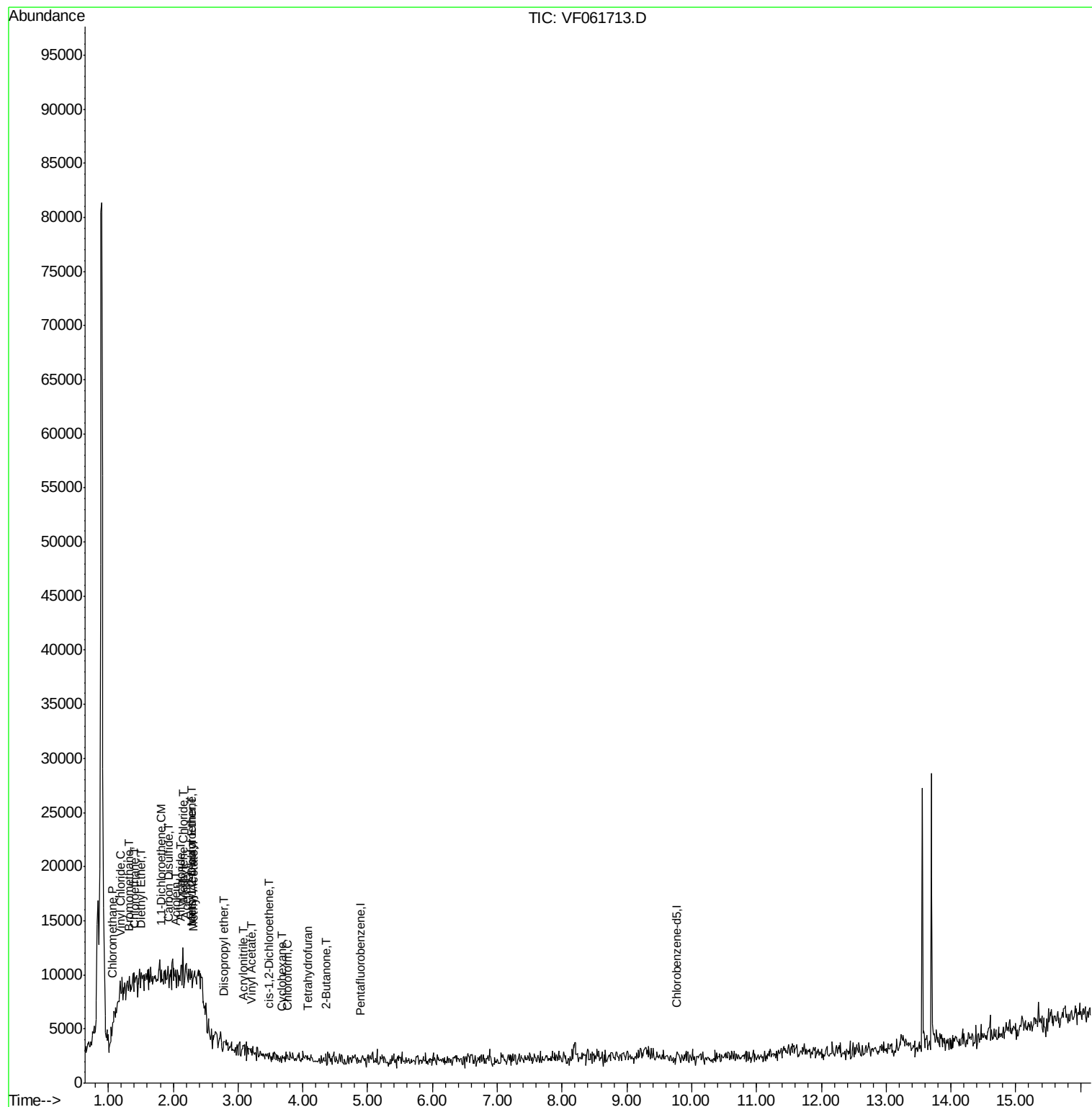
						Qvalue
3) Chloromethane	1.06	50	215	278.806	ug/l #	42
4) Vinyl Chloride	1.19	62	63	87.881	ug/l #	40
5) Bromomethane	1.31	94	486	985.031	ug/l #	3
6) Chloroethane	1.39	64	76	215.124	ug/l #	40
8) Diethyl Ether	1.52	74	106	486.462	ug/l	65
12) 1,1-Dichloroethene	1.81	96	214	390.214	ug/l #	1
13) Acrolein	2.03	56	381	11160.909	ug/l	87
14) Allyl chloride	2.12	41	754	1120.415	ug/l #	70
15) Acrylonitrile	3.08	53	65	674.678	ug/l #	18
16) Acetone	2.20	43	712	7070.833	ug/l #	46
17) Carbon Disulfide	1.92	76	77	44.667	ug/l #	73
18) Methyl Acetate	2.31	43	890	3923.433	ug/l #	59
19) Methyl tert-butyl Ether	2.29	73	67	71.484	ug/l #	57
20) Methylene Chloride	2.16	84	83	159.336	ug/l #	1
21) trans-1,2-Dichloroethene	2.29	96	205	343.861	ug/l #	1
22) Diisopropyl ether	2.78	45	250	154.760	ug/l #	64
23) Vinyl Acetate	3.19	43	294	372.618	ug/l #	74
25) 2-Butanone	4.35	43	208	945.668	ug/l #	55
27) cis-1,2-Dichloroethene	3.49	96	64	81.787	ug/l	1
29) Tetrahydrofuran	4.07	42	104	1040.320	ug/l #	33
30) Chloroform	3.77	83	61	54.869	ug/l #	18
31) Cyclohexane	3.68	56	60	56.695	ug/l #	16

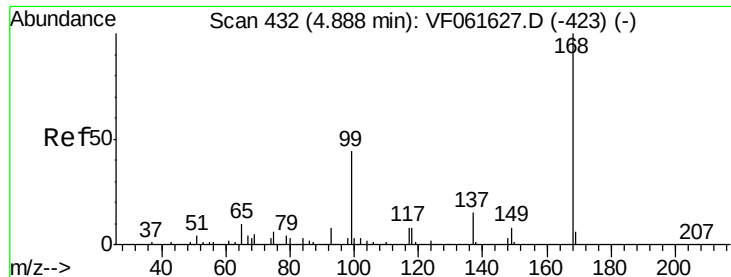
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Feb 14 03:27:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.02 min

Lab File: VF061713.D

Acq: 22 Feb 2019 17:28

Instrument :

MSVOA_F

ClientSampleId :

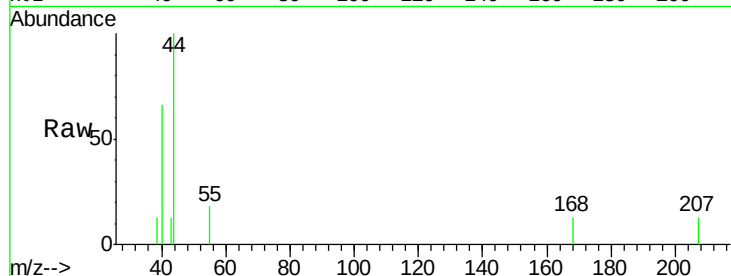
TP-MH-C02

Tot Ion:168 Resp: 64

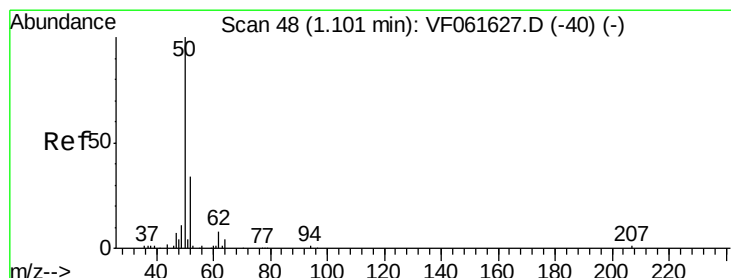
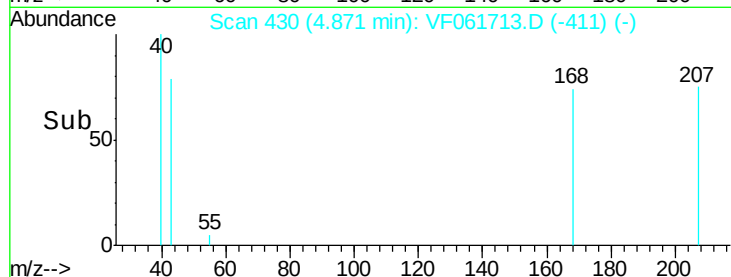
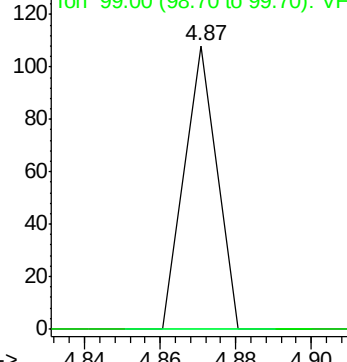
Ion Ratio Lower Upper

168 100

99 0.0 34.9 52.3#



Abundance Ion 168.00 (167.70 to 168.70): VF0



#3

Chloromethane

Concen: 278.806 ug/l

RT: 1.06 min Scan# 44

Delta R.T. -0.04 min

Lab File: VF061713.D

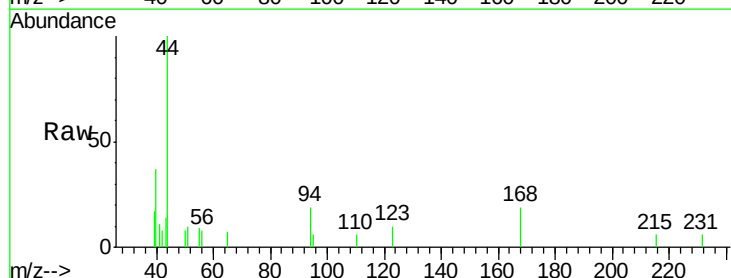
Acq: 22 Feb 2019 17:28

Tgt Ion: 50 Resp: 215

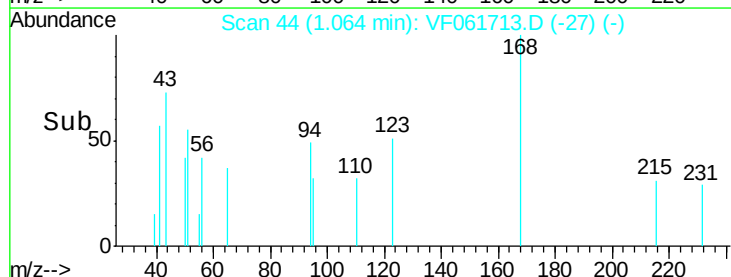
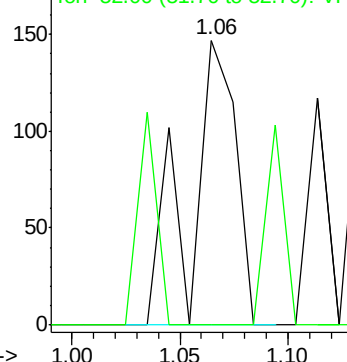
Ion Ratio Lower Upper

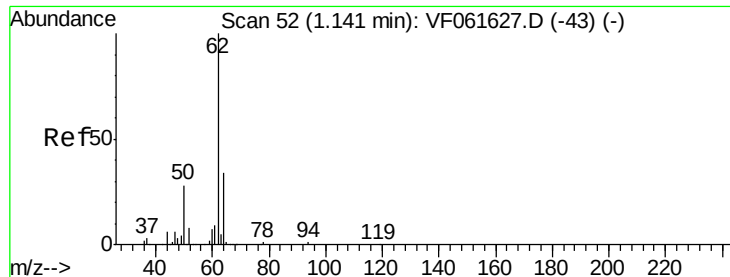
50 100

52 0.0 26.2 39.4#



Abundance Ion 50.00 (49.70 to 50.70): VF0





#4

Vinyl Chloride

Concen: 87.881 ug/l

RT: 1.19 min Scan# 57

Delta R.T. 0.05 min

Lab File: VF061713.D

Acq: 22 Feb 2019 17:28

Instrument :

MSVOA_F

ClientSampleId :

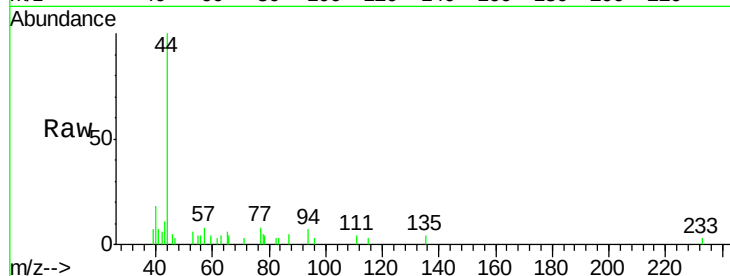
TP-MH-C02

Tot Ion: 62 Resp: 63

Ion Ratio Lower Upper

62 100

64 0.0 27.5 41.3#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0

1.19

100

80

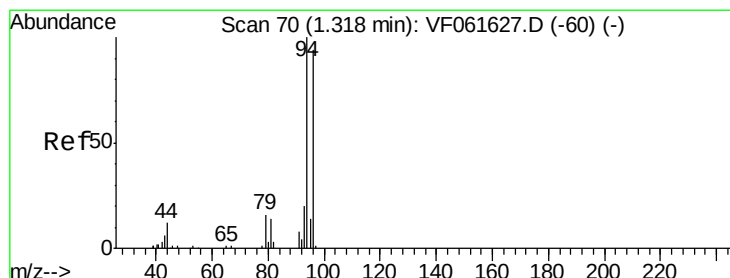
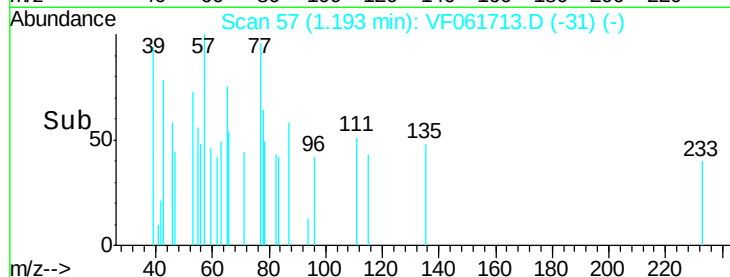
60

40

20

0

Time-->



#5

Bromomethane

Concen: 985.031 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.01 min

Lab File: VF061713.D

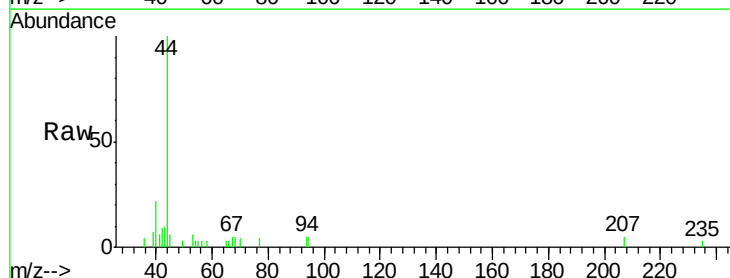
Acq: 22 Feb 2019 17:28

Tgt Ion: 94 Resp: 486

Ion Ratio Lower Upper

94 100

96 0.0 74.6 112.0#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.31

400

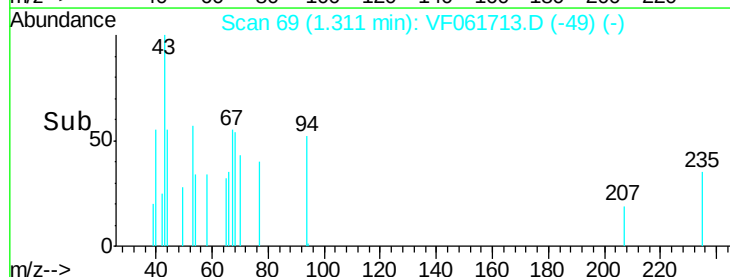
300

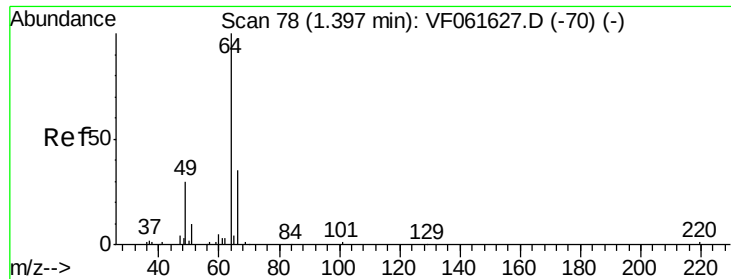
200

100

0

Time-->





#6

Chloroethane

Concen: 215.124 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.01 min

Lab File: VF061713.D

Acq: 22 Feb 2019 17:28

Instrument :

MSVOA_F

ClientSampleId :

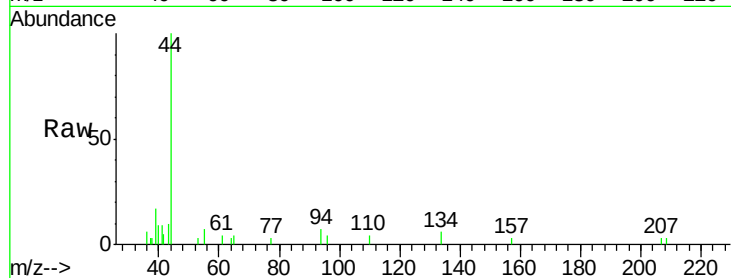
TP-MH-C02

Tot Ion: 64 Resp: 76

Ion Ratio Lower Upper

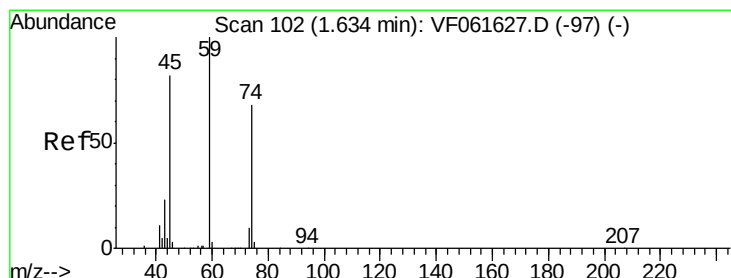
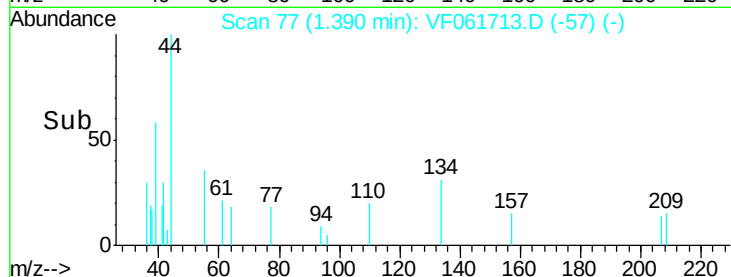
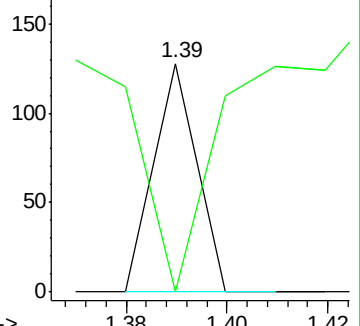
64 100

66 0.0 27.9 41.9#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



#8

Diethyl Ether

Concen: 486.462 ug/l

RT: 1.52 min Scan# 90

Delta R.T. -0.12 min

Lab File: VF061713.D

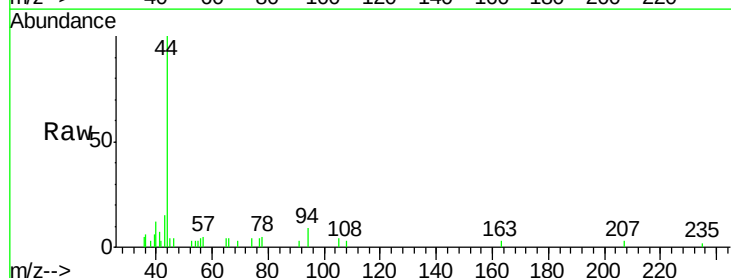
Acq: 22 Feb 2019 17:28

Tgt Ion: 74 Resp: 106

Ion Ratio Lower Upper

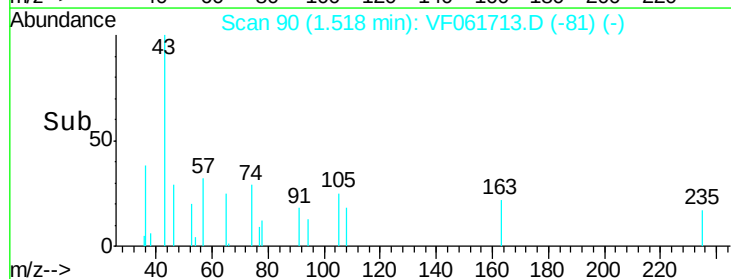
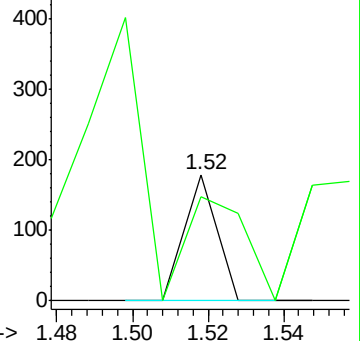
74 100

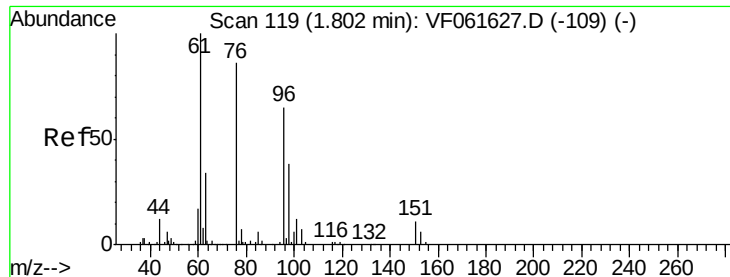
45 82.1 60.8 182.3



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#12

1,1-Dichloroethene

Concen: 390.214 ug/l

RT: 1.81 min Scan# 120

Delta R.T. 0.01 min

Lab File: VF061713.D

Acq: 22 Feb 2019 17:28

Instrument :

MSVOA_F

ClientSampleId :

TP-MH-C02

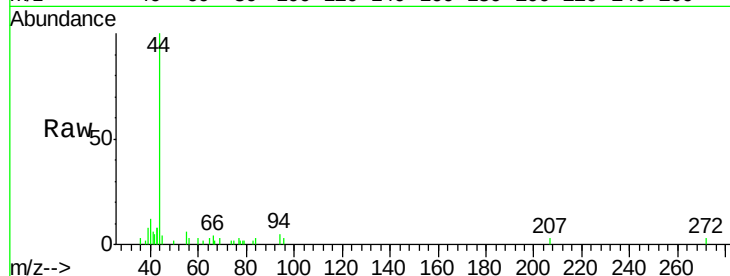
Tot Ion: 96 Resp: 214

Ion Ratio Lower Upper

96 100

61 0.0 122.6 184.0#

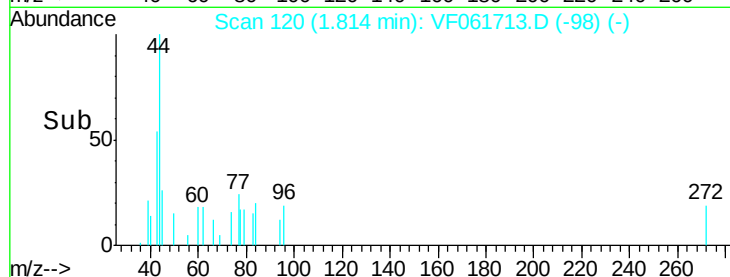
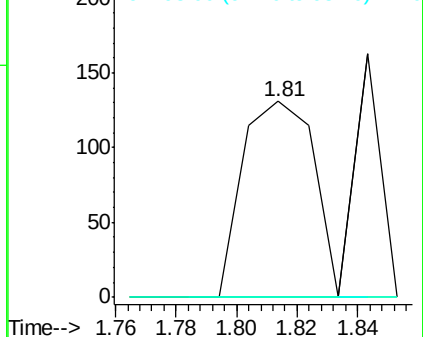
98 0.0 47.2 70.8#



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#13

Acrolein

Concen: 11160.909 ug/l

RT: 2.03 min Scan# 142

Delta R.T. 0.02 min

Lab File: VF061713.D

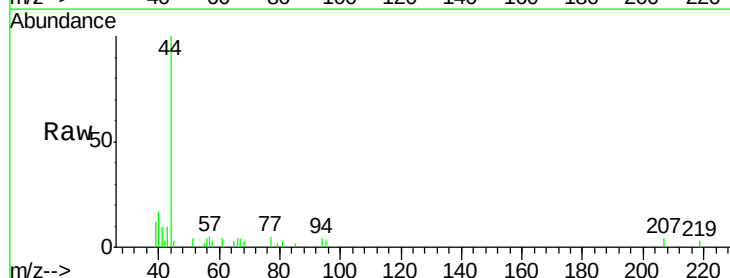
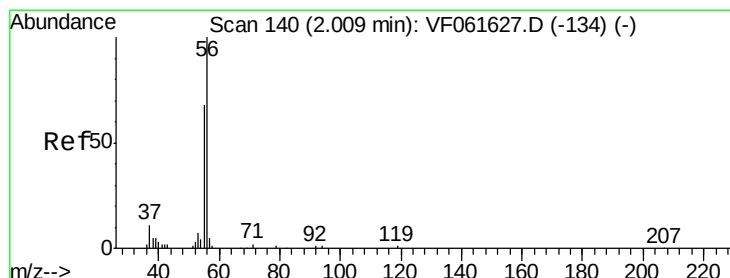
Acq: 22 Feb 2019 17:28

Tgt Ion: 56 Resp: 381

Ion Ratio Lower Upper

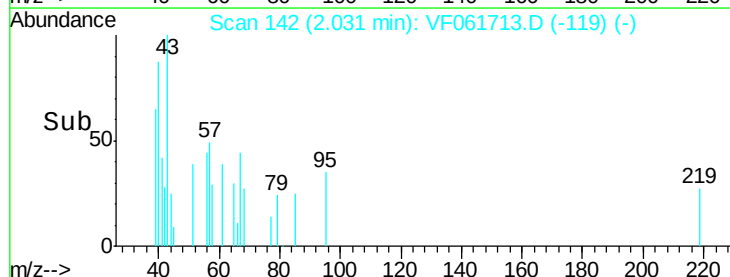
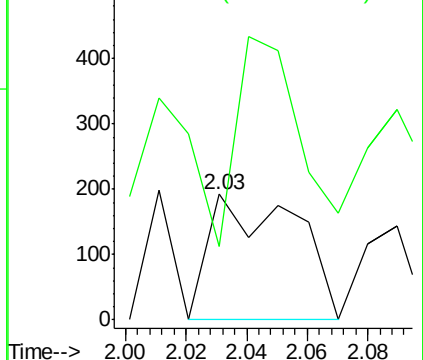
56 100

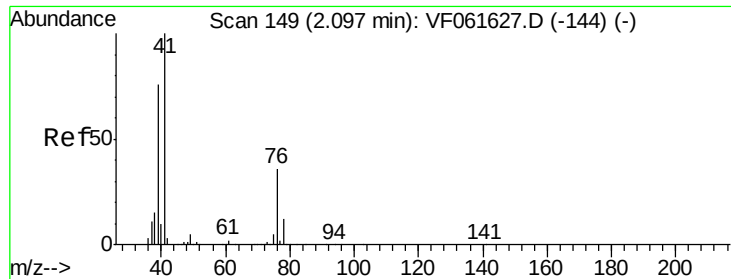
55 58.3 55.0 82.6



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0





#14

Allvl chloride

Concen: 1120.415 ug/l

RT: 2.12 min Scan# 151

Delta R.T. 0.02 min

Lab File: VF061713.D

Acq: 22 Feb 2019 17:28

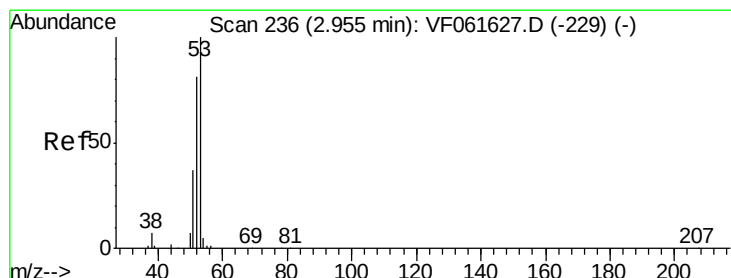
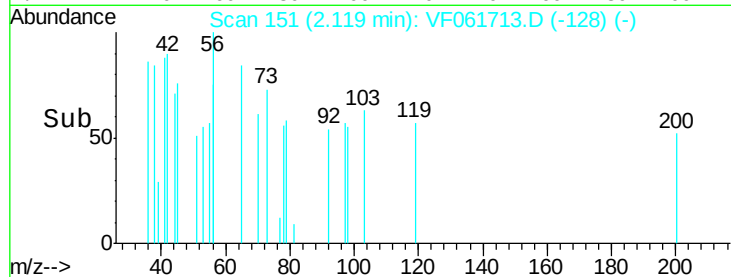
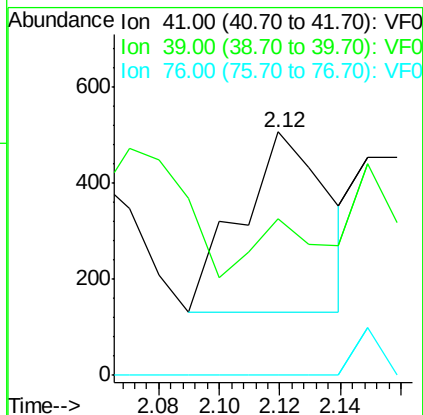
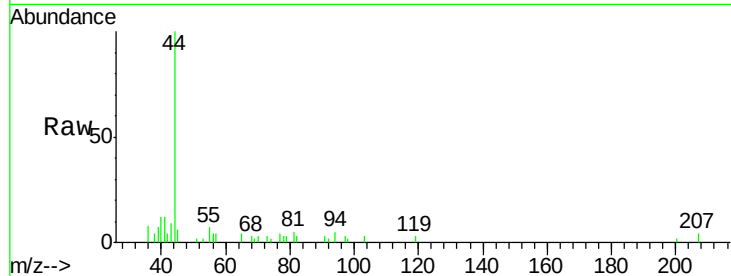
Instrument :

MSVOA_F

ClientSampleId :

TP-MH-C02

Tot Ion:	41	Resp:	754
Ion	Ratio	Lower	Upper
41	100		
39	64.5	61.6	92.4
76	0.0	30.3	45.5#



#15

Acrylonitrile

Concen: 674.678 ug/l

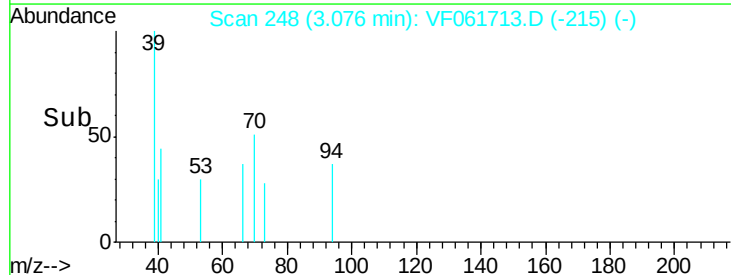
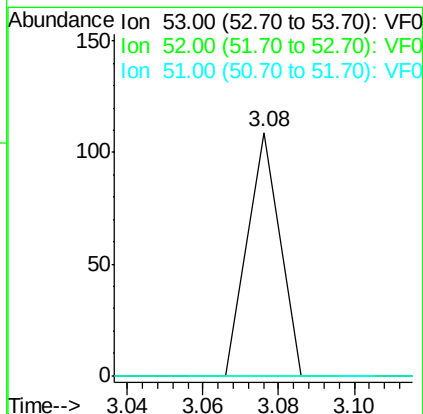
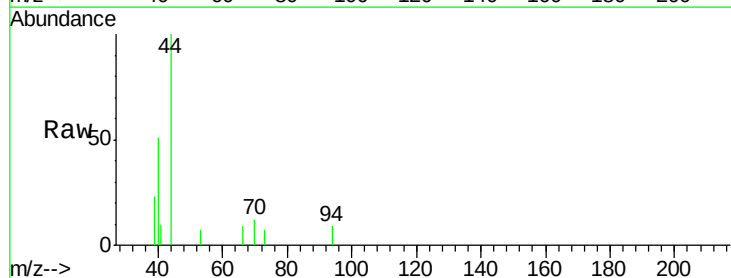
RT: 3.08 min Scan# 248

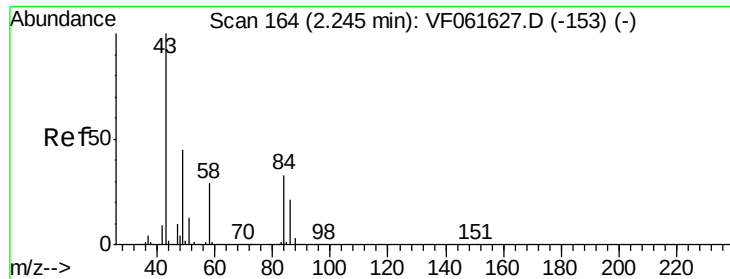
Delta R.T. 0.12 min

Lab File: VF061713.D

Acq: 22 Feb 2019 17:28

Tgt Ion:	53	Resp:	65
Ion	Ratio	Lower	Upper
53	100		
52	0.0	64.6	97.0#
51	0.0	29.8	44.8#





#16

Acetone

Concen: 7070.833 ug/l

RT: 2.20 min Scan# 159

Delta R.T. -0.05 min

Lab File: VF061713.D

Acq: 22 Feb 2019 17:28

Instrument :

MSVOA_F

ClientSampleId :

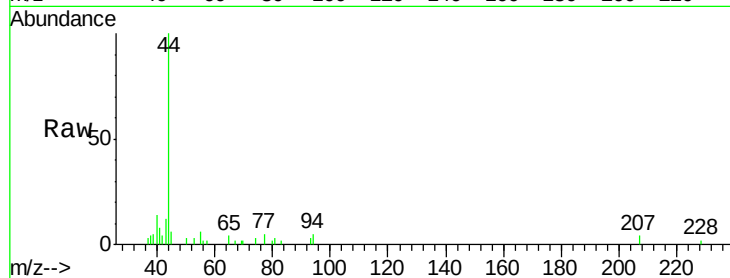
TP-MH-C02

Tot Ion: 43 Resp: 712

Ion Ratio Lower Upper

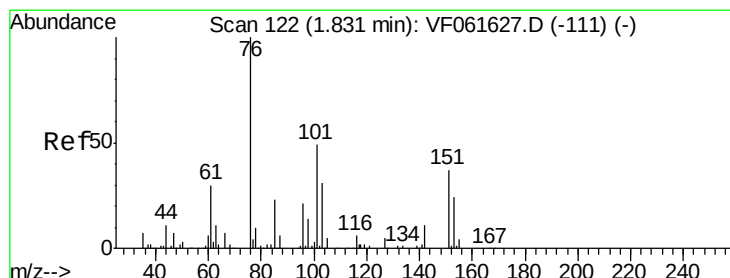
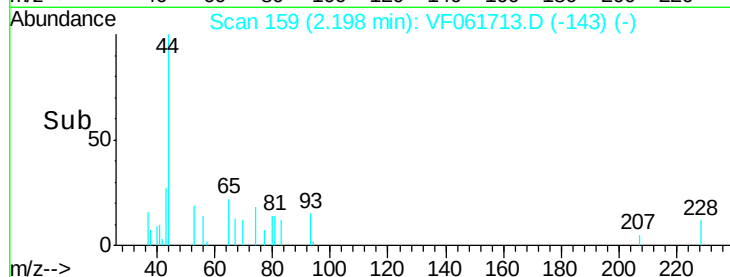
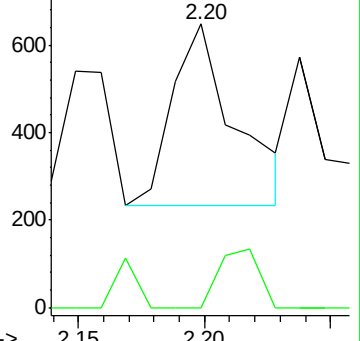
43 100

58 0.0 22.9 34.3#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#17

Carbon Disulfide

Concen: 44.667 ug/l

RT: 1.92 min Scan# 131

Delta R.T. 0.09 min

Lab File: VF061713.D

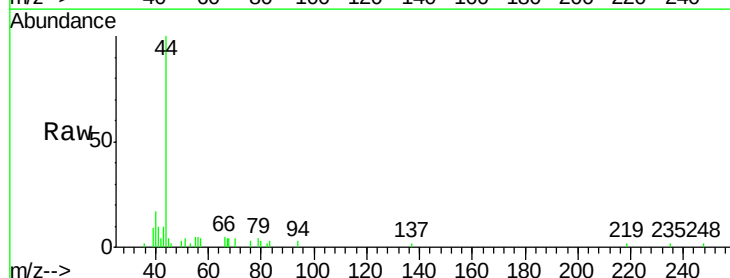
Acq: 22 Feb 2019 17:28

Tgt Ion: 76 Resp: 77

Ion Ratio Lower Upper

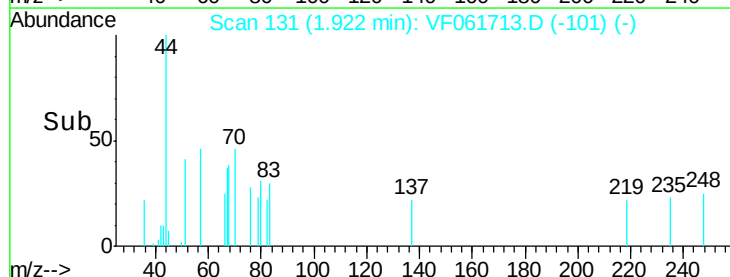
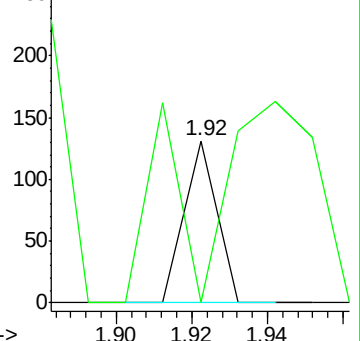
76 100

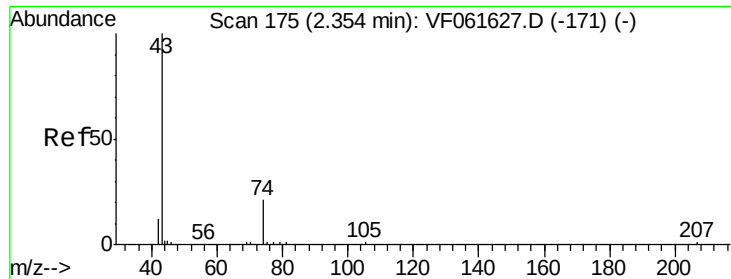
78 0.0 7.9 11.9#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

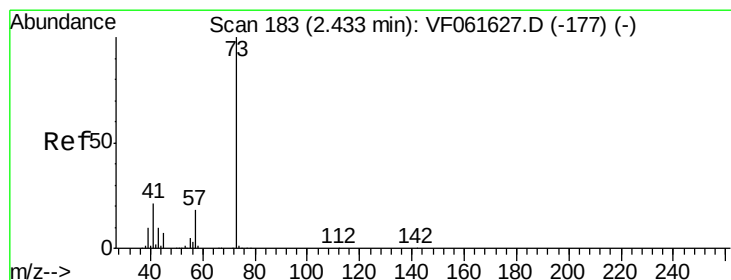
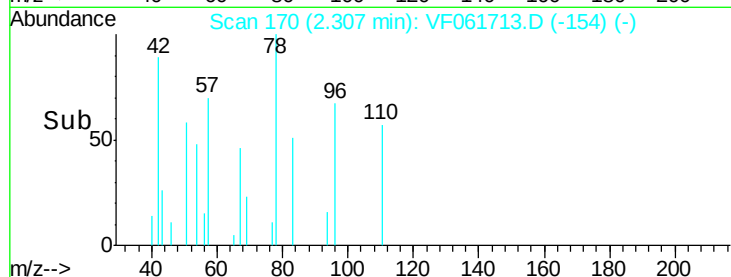
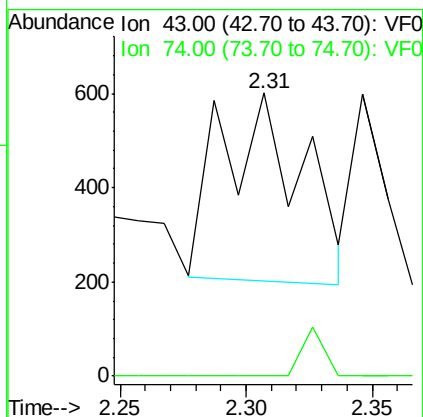
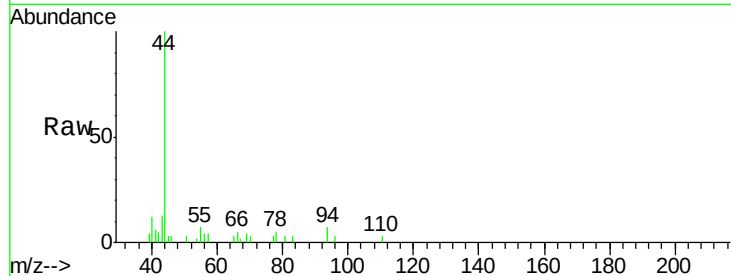




#18
Methyl Acetate
Concen: 3923.433 ug/l
RT: 2.31 min Scan# 170
Delta R.T. -0.05 min
Lab File: VF061713.D
Acq: 22 Feb 2019 17:28

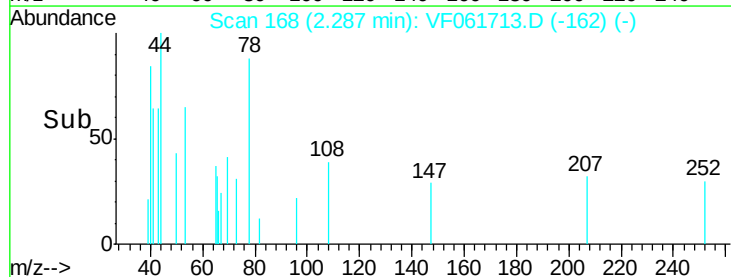
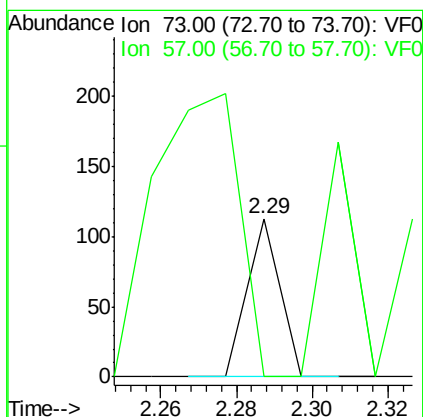
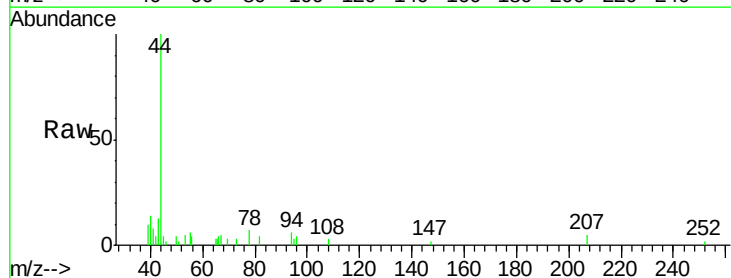
Instrument :
MSVOA_F
ClientSampleId :
TP-MH-C02

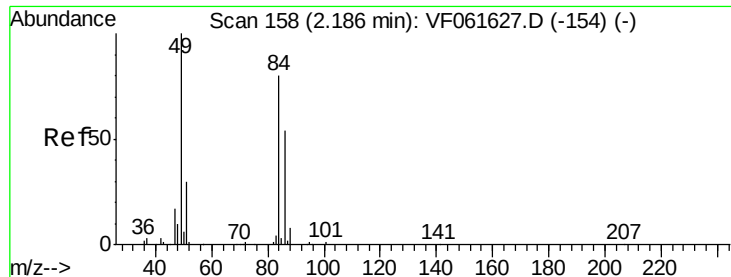
Tot Ion: 43 Resp: 890
Ion Ratio Lower Upper
43 100
74 0.0 14.6 21.8#



#19
Methyl tert-butyl Ether
Concen: 71.484 ug/l
RT: 2.29 min Scan# 168
Delta R.T. -0.15 min
Lab File: VF061713.D
Acq: 22 Feb 2019 17:28

Tgt Ion: 73 Resp: 67
Ion Ratio Lower Upper
73 100
57 0.0 15.8 23.8#

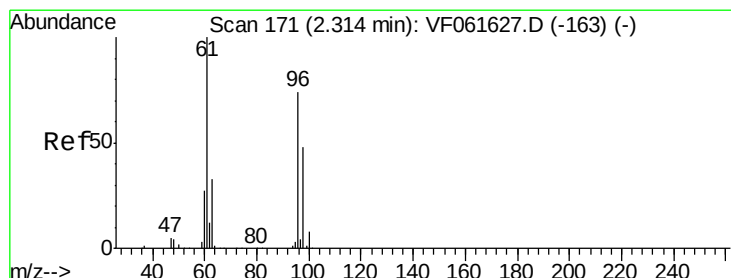
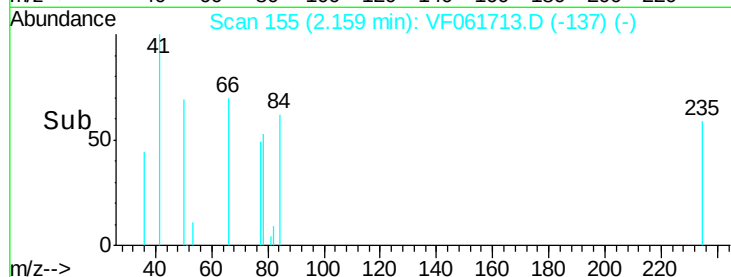
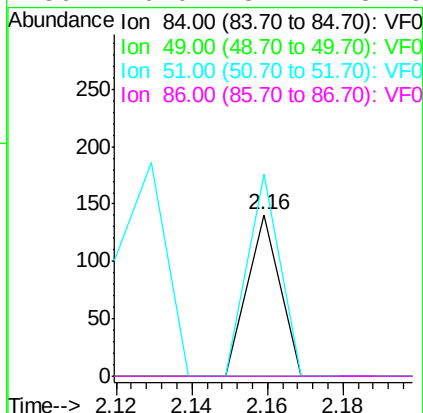
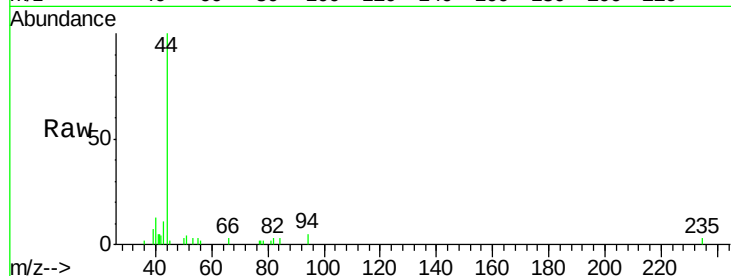




#20
Methylene Chloride
Concen: 159.336 ug/l
RT: 2.16 min Scan# 155
Delta R.T. -0.03 min
Lab File: VF061713.D
Acq: 22 Feb 2019 17:28

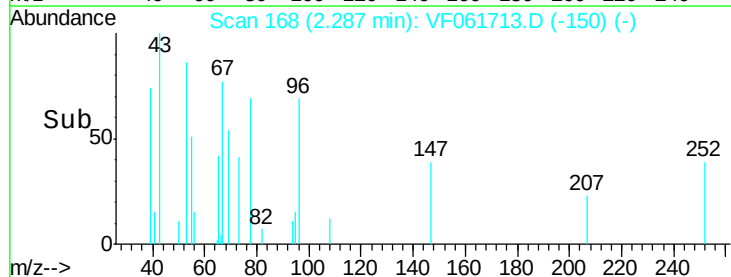
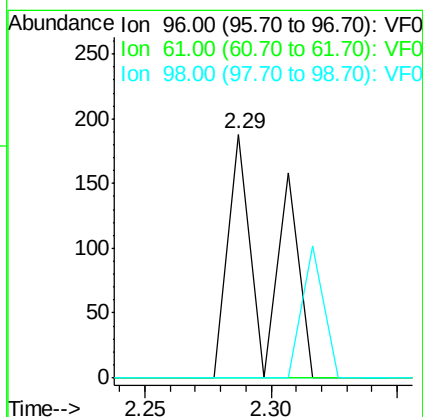
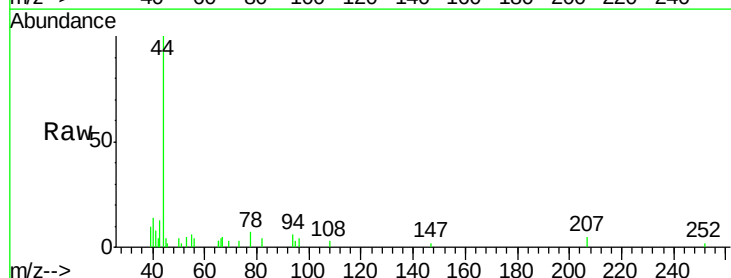
Instrument :
MSVOA_F
ClientSampleId :
TP-MH-C02

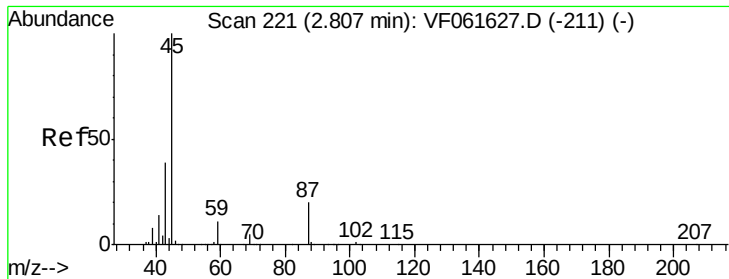
Tot Ion:	84	Resp:	83
Ion	Ratio	Lower	Upper
84	100		
49	0.0	101.8	152.8#
51	124.8	31.1	46.7#
86	0.0	54.4	81.6#



#21
trans-1,2-Dichloroethene
Concen: 343.861 ug/l
RT: 2.29 min Scan# 168
Delta R.T. -0.03 min
Lab File: VF061713.D
Acq: 22 Feb 2019 17:28

Tgt Ion:	96	Resp:	205
Ion	Ratio	Lower	Upper
96	100		
61	0.0	108.2	162.4#
98	0.0	52.2	78.2#

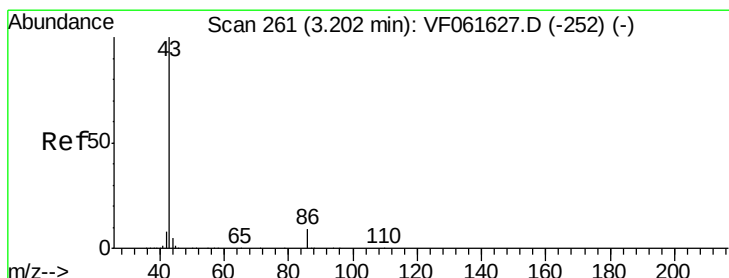
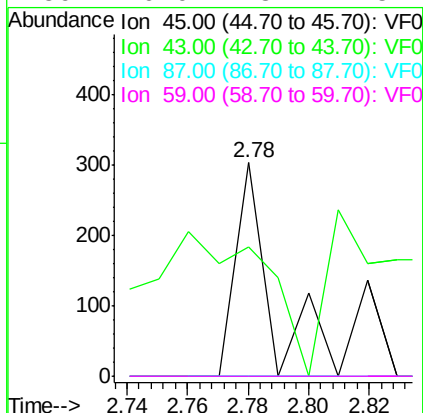
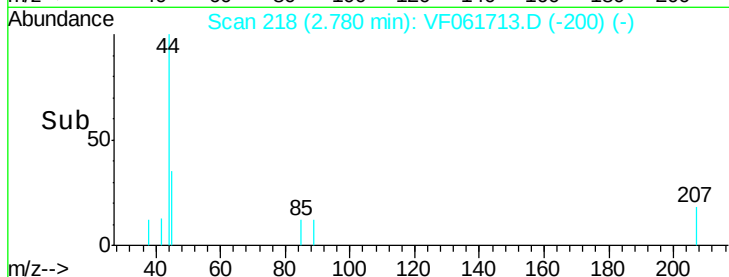
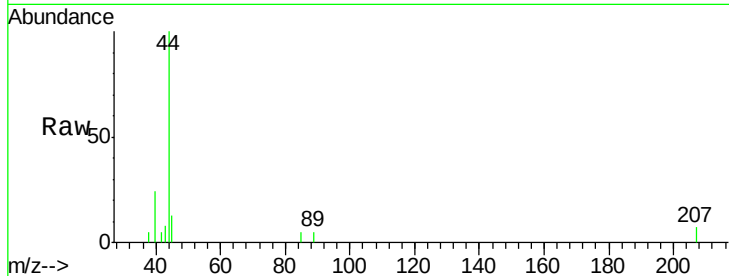




#22
Diisopropyl ether
Concen: 154.760 ug/l
RT: 2.78 min Scan# 218
Delta R.T. -0.03 min
Lab File: VF061713.D
Acq: 22 Feb 2019 17:28

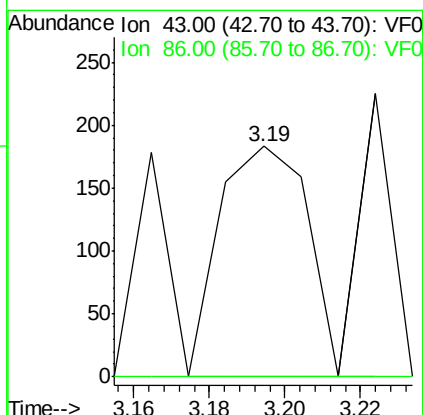
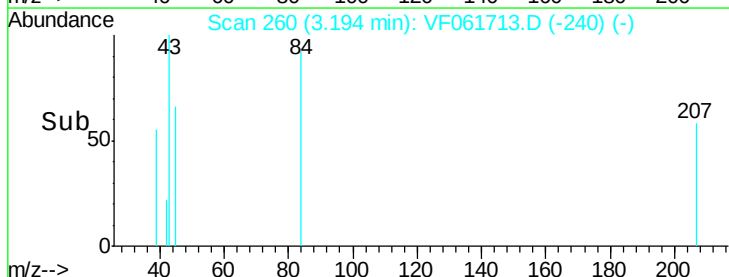
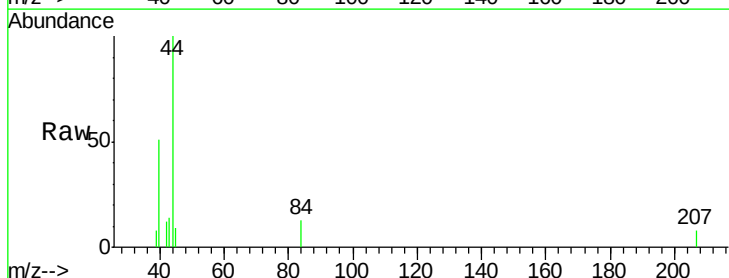
Instrument :
MSVOA_F
ClientSampleId :
TP-MH-C02

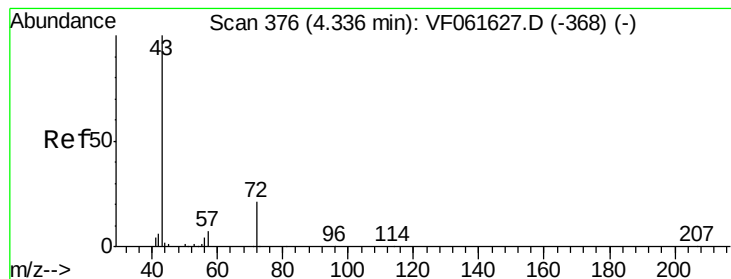
Tot Ion:	45	Resp:	250
Ion	Ratio	Lower	Upper
45	100		
43	60.5	31.4	47.2#
87	0.0	16.3	24.5#
59	0.0	8.7	13.1#



#23
Vinyl Acetate
Concen: 372.618 ug/l
RT: 3.19 min Scan# 260
Delta R.T. -0.01 min
Lab File: VF061713.D
Acq: 22 Feb 2019 17:28

Tgt Ion:	43	Resp:	294
Ion	Ratio	Lower	Upper
43	100		
86	0.0	7.5	11.3#





#25

2-Butanone

Concen: 945.668 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.01 min

Lab File: VF061713.D

Acq: 22 Feb 2019 17:28

Instrument :

MSVOA_F

ClientSampleId :

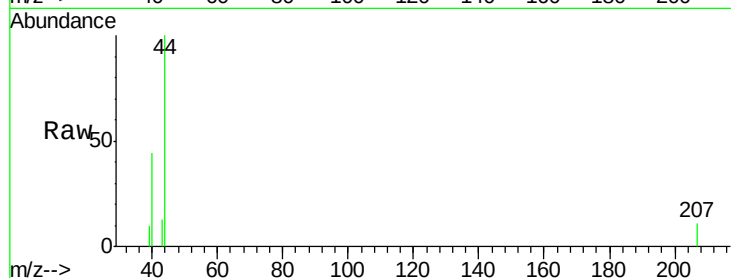
TP-MH-C02

Tot Ion: 43 Resp: 208

Ion Ratio Lower Upper

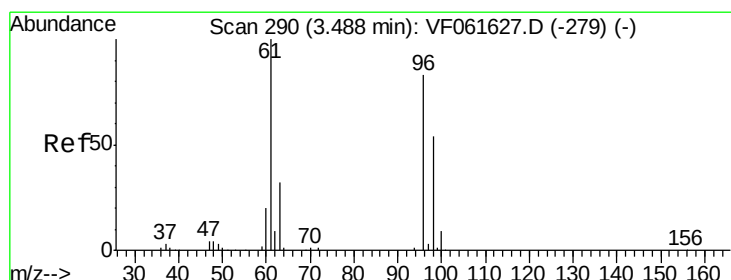
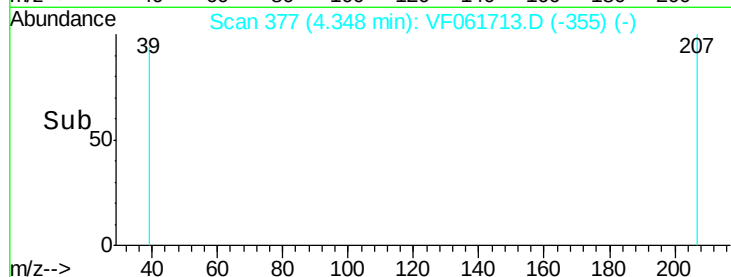
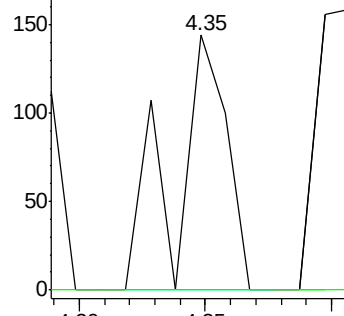
43 100

72 0.0 17.1 25.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#27

cis-1,2-Dichloroethene

Concen: 81.787 ug/l

RT: 3.49 min Scan# 290

Delta R.T. 0.00 min

Lab File: VF061713.D

Acq: 22 Feb 2019 17:28

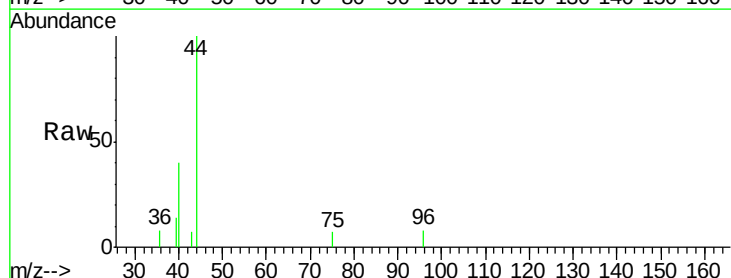
Tgt Ion: 96 Resp: 64

Ion Ratio Lower Upper

96 100

61 0.0 0.0 241.6

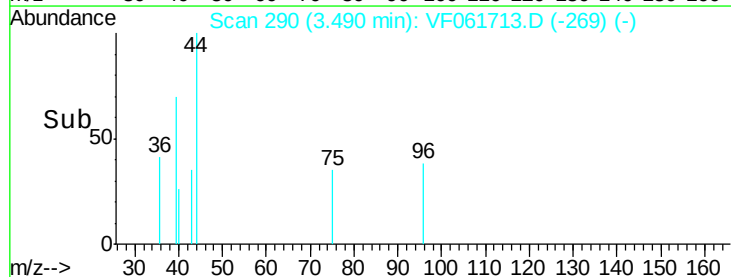
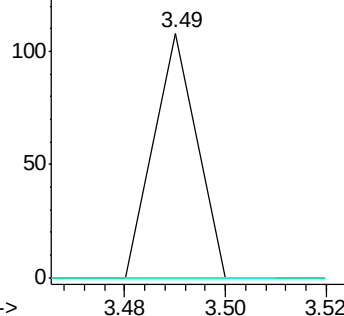
98 0.0 0.0 130.2

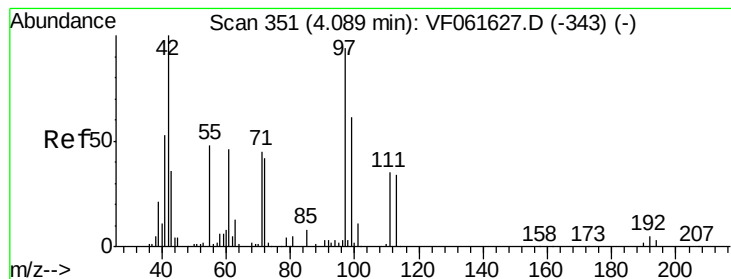


Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#29

Tetrahydrofuran

Concen: 1040.320 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.02 min

Lab File: VF061713.D

Acq: 22 Feb 2019 17:28

Instrument :

MSVOA_F

ClientSampleId :

TP-MH-C02

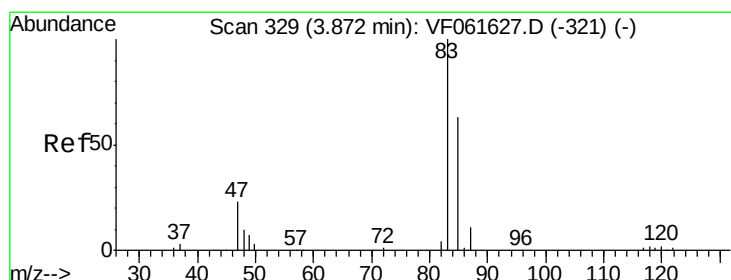
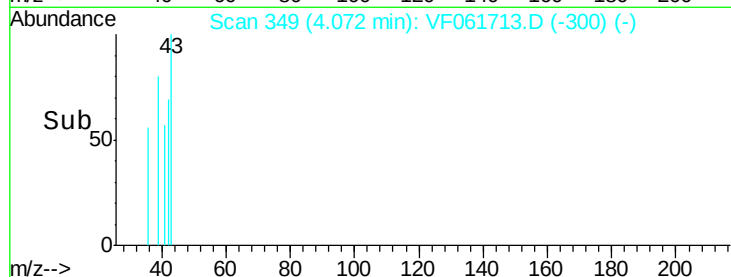
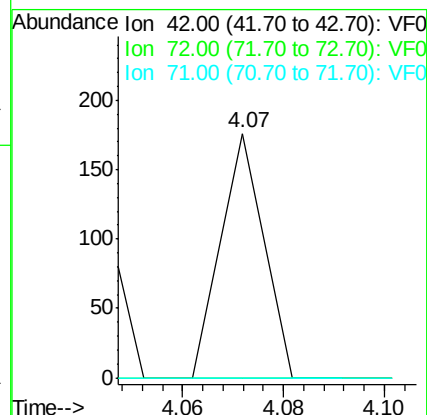
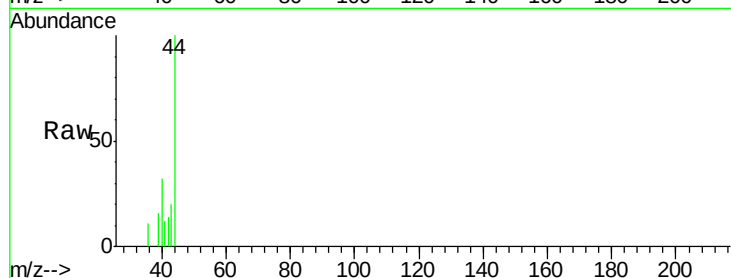
Tot Ion: 42 Resp: 104

Ion Ratio Lower Upper

42 100

72 0.0 35.2 52.8#

71 0.0 32.9 49.3#



#30

Chloroform

Concen: 54.869 ug/l

RT: 3.77 min Scan# 318

Delta R.T. -0.11 min

Lab File: VF061713.D

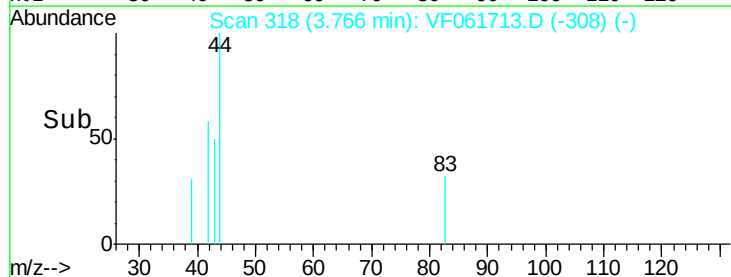
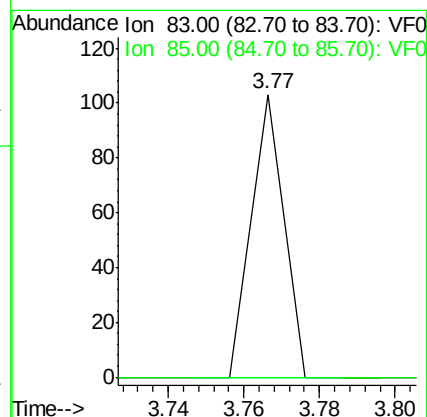
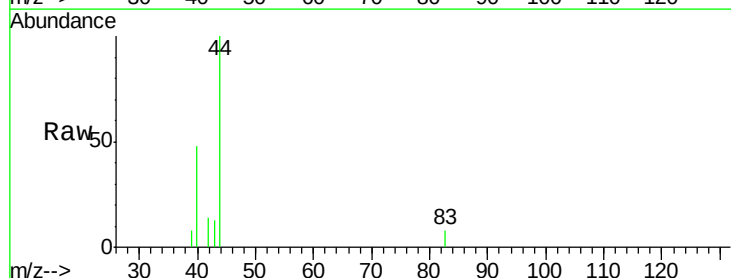
Acq: 22 Feb 2019 17:28

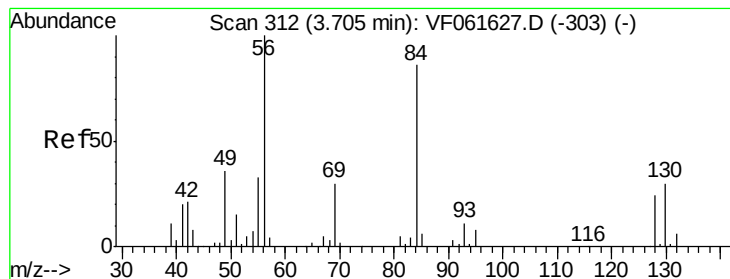
Tgt Ion: 83 Resp: 61

Ion Ratio Lower Upper

83 100

85 0.0 51.1 76.7#





#31

Cyclohexane

Concen: 56.695 ug/l

RT: 3.68 min Scan# 309

Delta R.T. -0.03 min

Lab File: VF061713.D

Acq: 22 Feb 2019 17:28

Instrument :

MSVOA_F

ClientSampleId :

TP-MH-C02

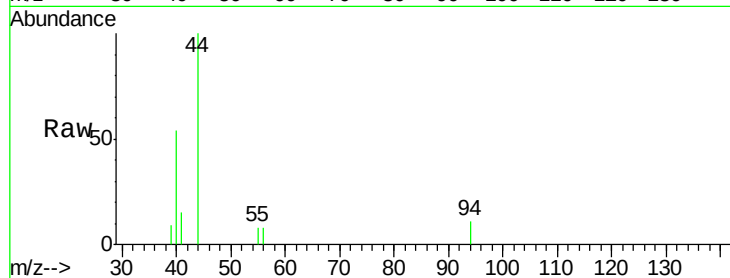
Tot Ion: 56 Resp: 60

Ion Ratio Lower Upper

56 100

69 0.0 23.8 35.8#

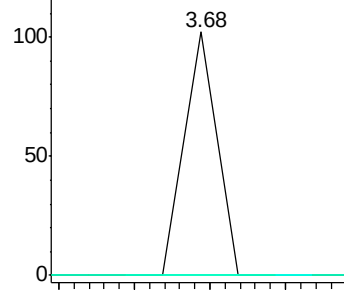
84 0.0 68.6 103.0#



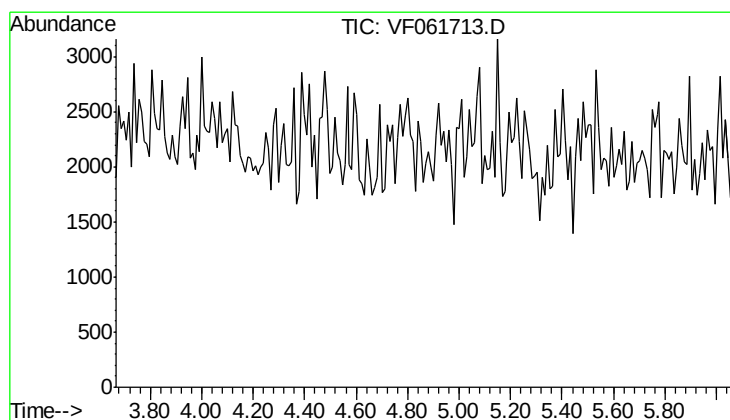
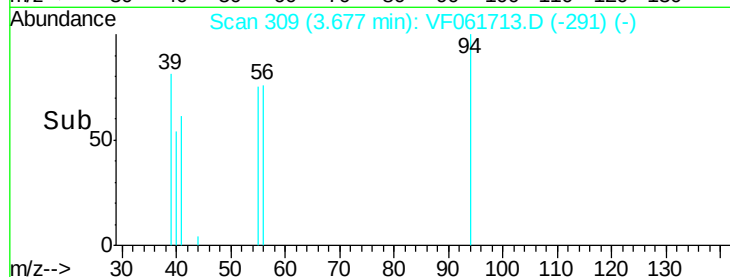
Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0



Time-->



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 4.86 min

Lab File: VF061713.D

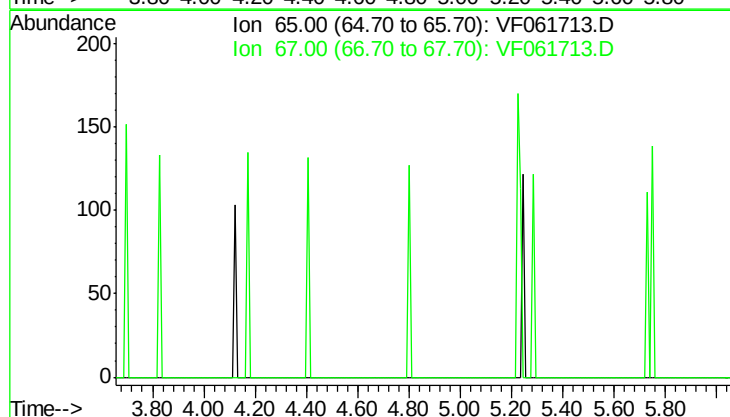
Acq: 22 Feb 2019 17:28

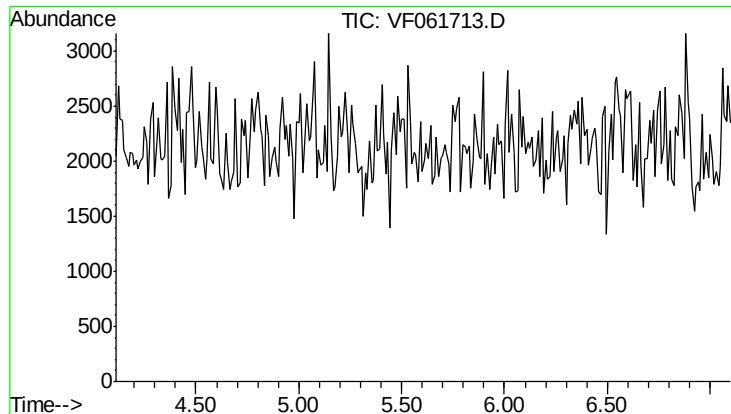
Tgt Ion: 65

Sig Exp Ratio

65 100

67 52.0

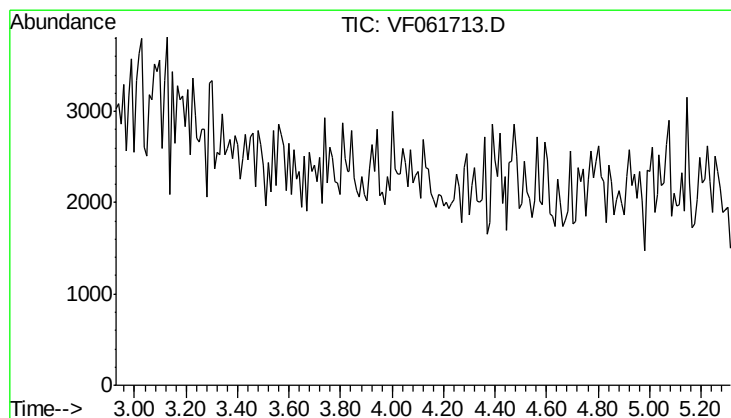
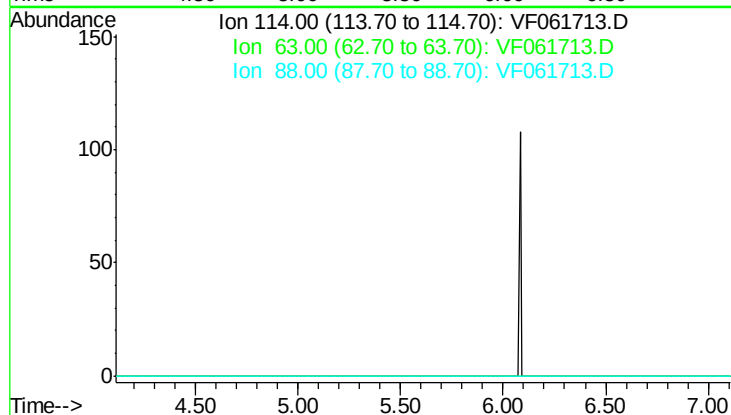




#34
 1,4-Difluorobenzene
 Concen: 0.000 ug/l
 Expected RT: 5.61 min
 Lab File: VF061713.D
 Acq: 22 Feb 2019 17:28

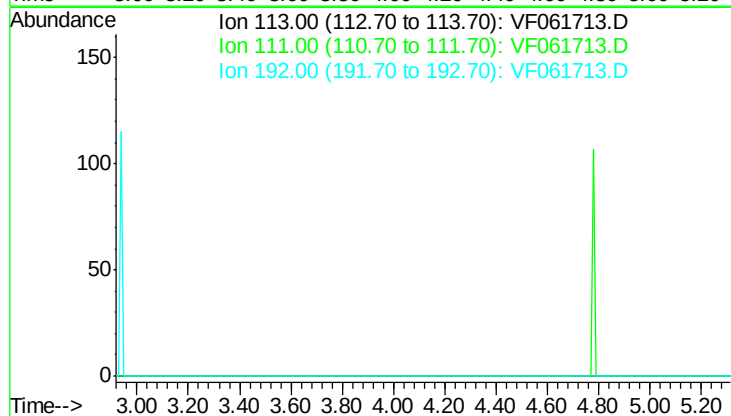
Instrument :
 MSVOA_F
 ClientSampleId :
 TP-MH-C02

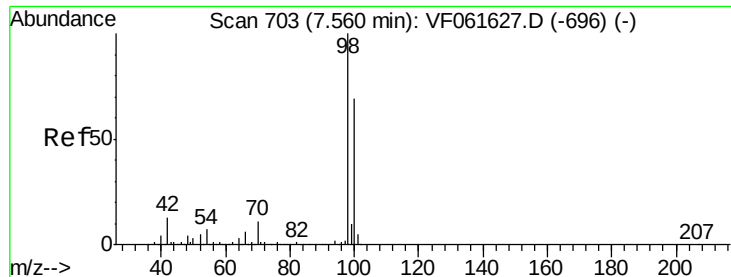
Tot Ion	114
Sig	Exp Ratio
114	100
63	18.3
88	17.2



#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 Expected RT: 4.12 min
 Lab File: VF061713.D
 Acq: 22 Feb 2019 17:28

Tgt Ion	113
Sig	Exp Ratio
113	100
111	98.5
192	16.7





#50

Toluene-d8

Concen: 0.000 ug/l

RT: 7.51 min Scan# 698

Delta R.T. -0.05 min

Lab File: VF061713.D

Acq: 22 Feb 2019 17:28

Instrument :

MSVOA_F

ClientSampleId :

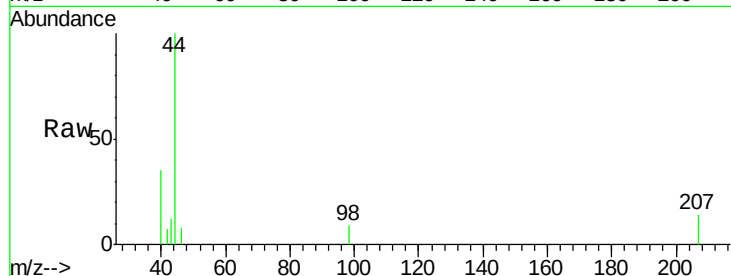
TP-MH-C02

Tot Ion: 98 Resp: 70

Ion Ratio Lower Upper

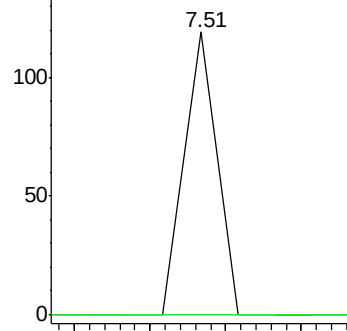
98 100

100 0.0 55.4 83.2#

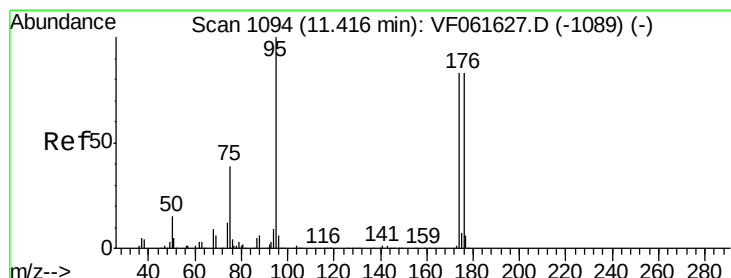
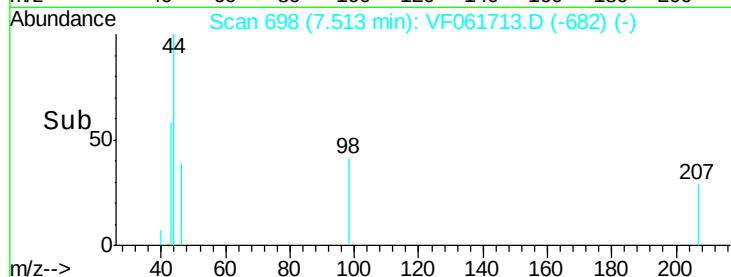


Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF



Time-->



#62

4-Bromofluorobenzene

Concen: 0.000 ug/l

RT: 11.52 min Scan# 1104

Delta R.T. 0.10 min

Lab File: VF061713.D

Acq: 22 Feb 2019 17:28

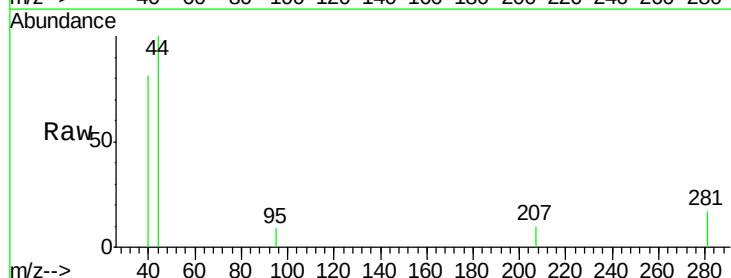
Tgt Ion: 95 Resp: 60

Ion Ratio Lower Upper

95 100

174 0.0 0.0 165.8

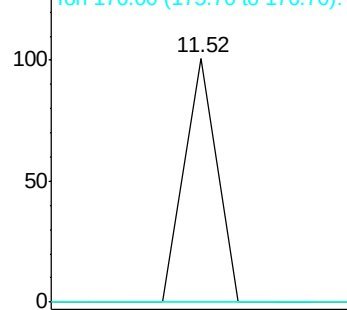
176 0.0 0.0 167.0



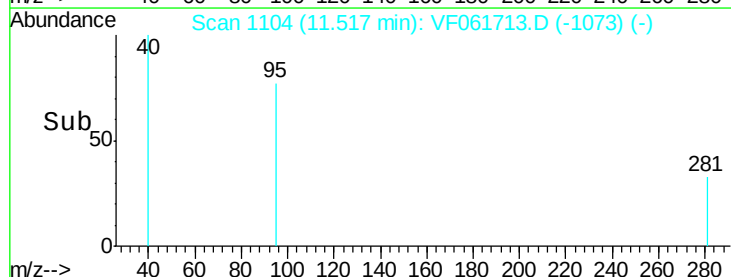
Abundance Ion 95.00 (94.70 to 95.70): VF0

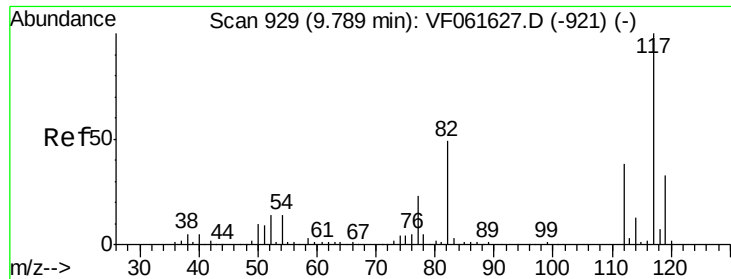
Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



Time-->

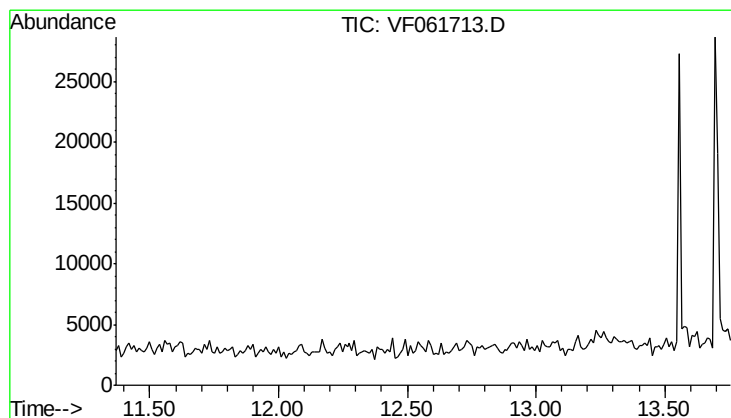
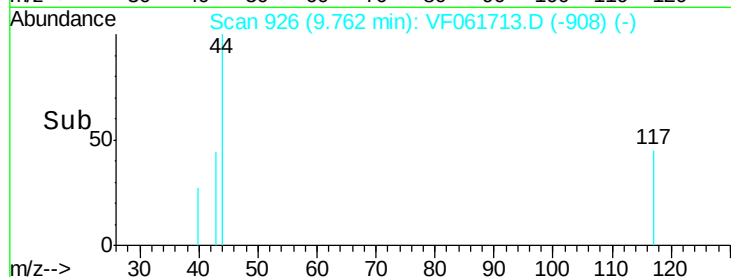
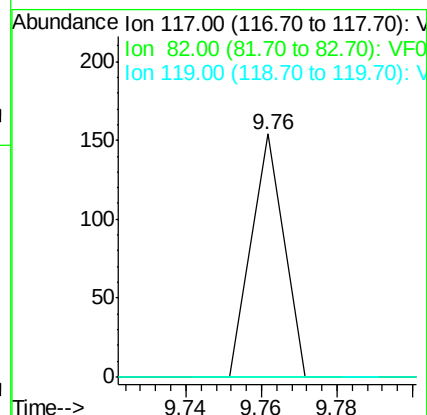
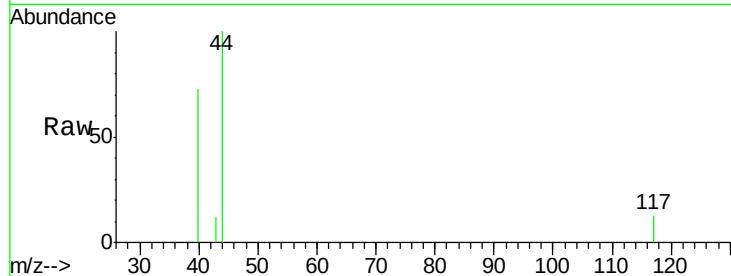




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.03 min
Lab File: VF061713.D
Acq: 22 Feb 2019 17:28

Instrument :
MSVOA_F
ClientSampleId :
TP-MH-C02

Tot Ion	Ratio	Lower	Upper
117	100		
82	0.0	39.3	58.9#
119	0.0	26.6	40.0#



#72
1,4-Dichlorobenzene-d4
Concen: 0.000 ug/l
Expected RT: 12.56 min

Lab File: VF061713.D
Acq: 22 Feb 2019 17:28

Tgt Ion	Exp Ratio
152	100
115	48.5
150	156.0

