

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF022219\
 Data File : VF061721.D
 Acq On : 22 Feb 2019 21:19
 Operator : VA/AP
 Sample : K1595-07
 Misc : 6.52g/5mL/MSVOA-F/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-MH-C02

Quant Time: Feb 23 01:47:56 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	4.85	168	42910	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.57	114	49212	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.75	117	34333	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.54	152	12537	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	6028	19.16	ug/l	-0.02
Spiked Amount			Recovery	=	38.32%	
35) Dibromofluoromethane	4.09	113	12447	34.06	ug/l	-0.02
Spiked Amount			Recovery	=	68.12%	
50) Toluene-d8	7.54	98	44868	42.71	ug/l	-0.02
Spiked Amount			Recovery	=	85.42%	
62) 4-Bromofluorobenzene	11.39	95	10883	25.60	ug/l	-0.02
Spiked Amount			Recovery	=	51.20%	

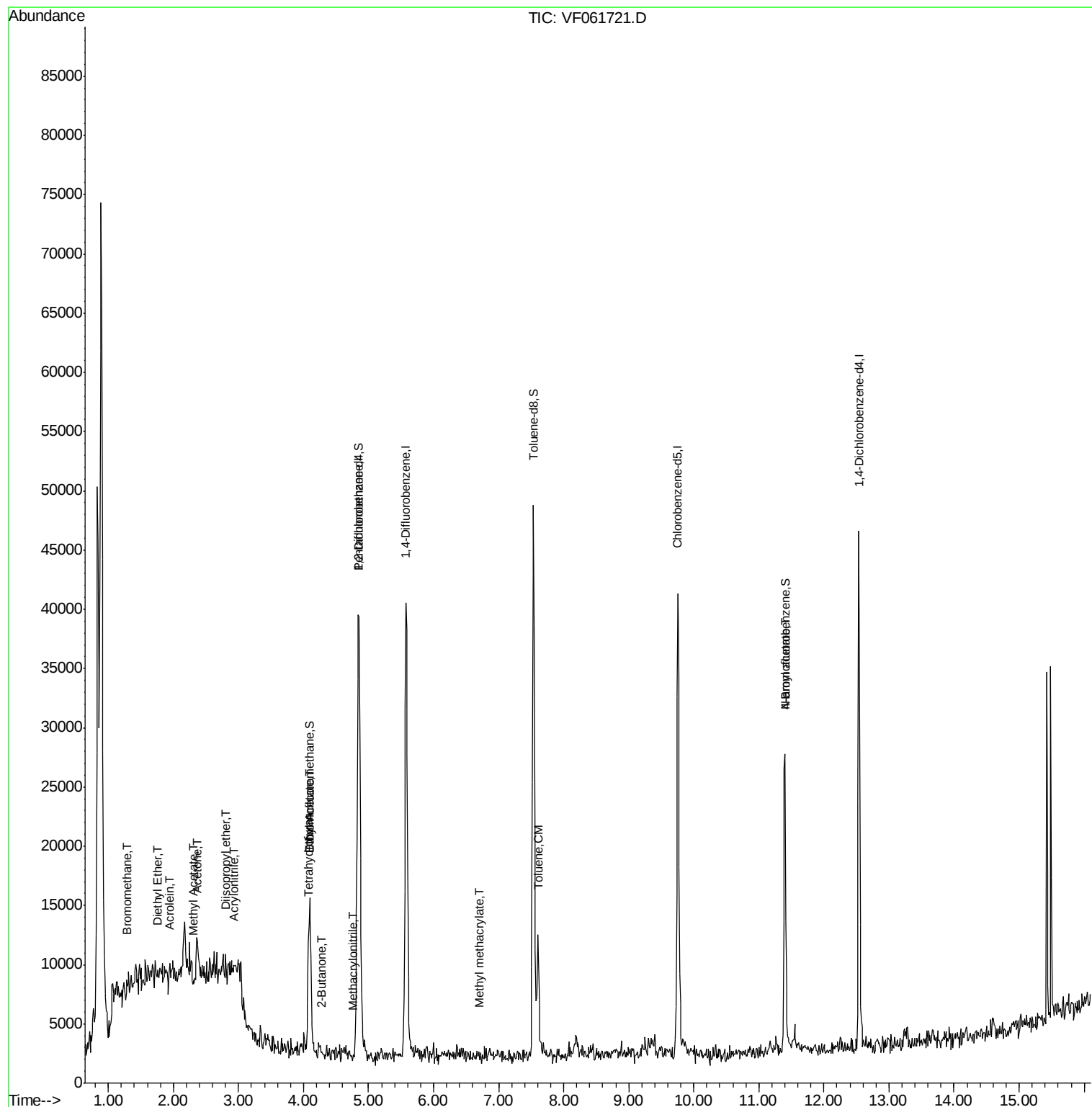
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.29	94	416	1.258	ug/l #	34
8) Diethyl Ether	1.76	74	156	1.068	ug/l	60
13) Acrolein	1.93	56	277	12.103	ug/l	98
15) Acrylonitrile	2.94	53	267	4.133	ug/l #	8
16) Acetone	2.36	43	931	13.790	ug/l	91
18) Methyl Acetate	2.30	43	720	4.734	ug/l #	59
22) Diisopropyl ether	2.79	45	1154	1.065	ug/l #	27
25) 2-Butanone	4.29	43	196	1.329	ug/l #	55
29) Tetrahydrofuran	4.07	42	231	3.446	ug/l #	33
37) Ethyl Acetate	4.08	43	458	2.023	ug/l #	30
41) Methacrylonitrile	4.76	41	155	1.339	ug/l #	49
48) Methyl methacrylate	6.71	41	170	1.054	ug/l #	17
52) Toluene	7.61	92	5491	7.100	ug/l	98
74) N-amyl acetate	11.41	43	265	1.237	ug/l #	31

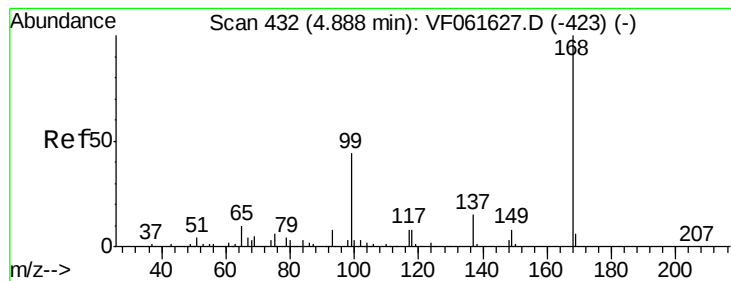
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 4.85 min Scan# 428

Delta R.T. -0.03 min

Lab File: VF061721.D

Acq: 22 Feb 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

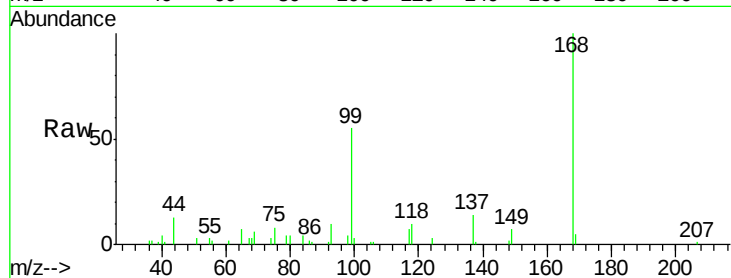
TP-MH-C02

Tot Ion:168 Resp: 42910

Ion Ratio Lower Upper

168 100

99 54.7 34.9 52.3#



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

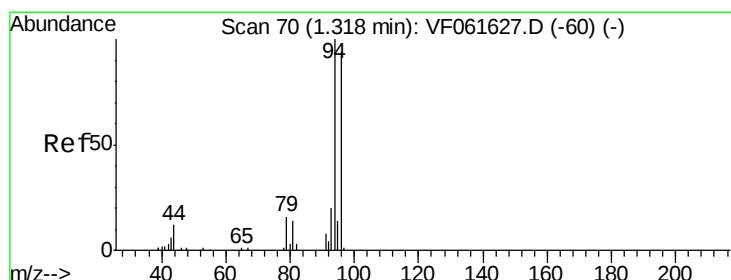
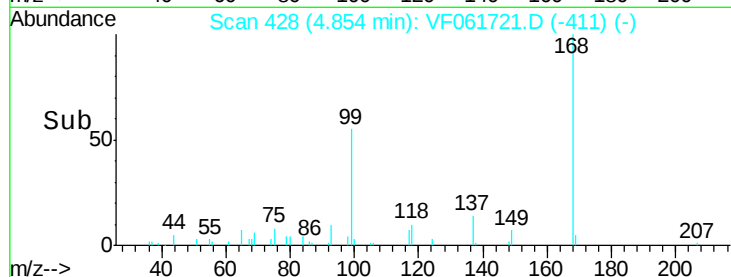
15000

10000

5000

0

Time--> 4.70 4.80 4.90 5.00



#5

Bromomethane

Concen: 1.258 ug/l

RT: 1.29 min Scan# 67

Delta R.T. -0.02 min

Lab File: VF061721.D

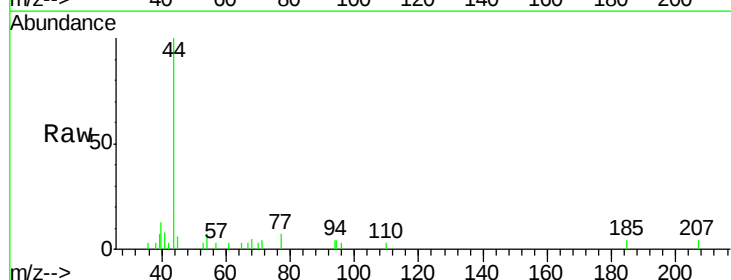
Acq: 22 Feb 2019 21:19

Tgt Ion: 94 Resp: 416

Ion Ratio Lower Upper

94 100

96 29.7 74.6 112.0#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.29

400

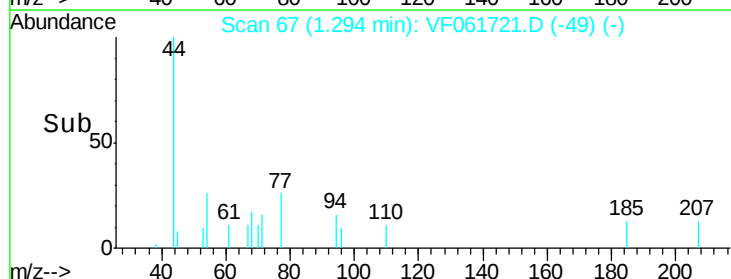
300

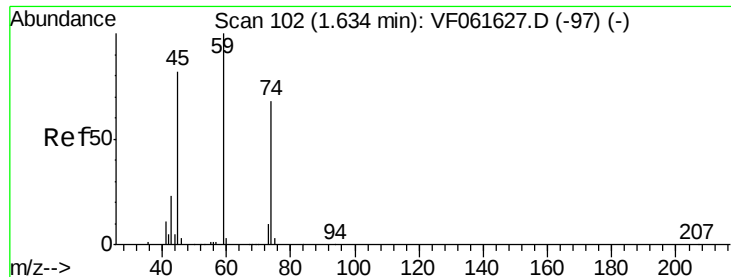
200

100

0

Time--> 1.26 1.28 1.30 1.32 1.34





#8

Diethyl Ether

Concen: 1.068 ug/l

RT: 1.76 min Scan# 114

Delta R.T. 0.12 min

Lab File: VF061721.D

Acq: 22 Feb 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

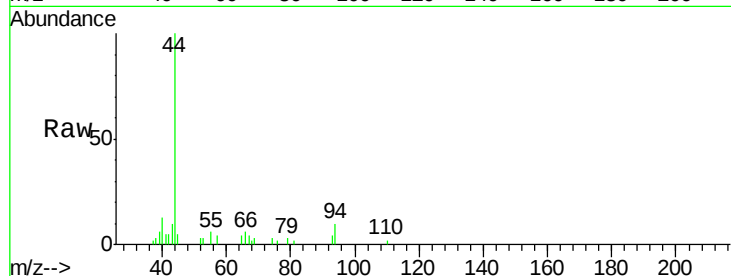
TP-MH-C02

Tot Ion: 74 Resp: 156

Ion Ratio Lower Upper

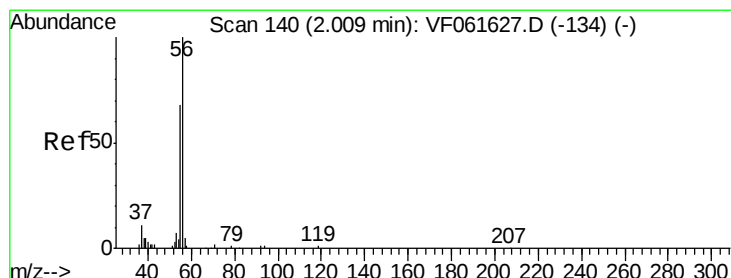
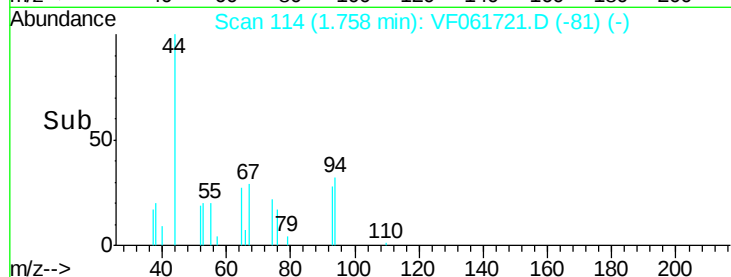
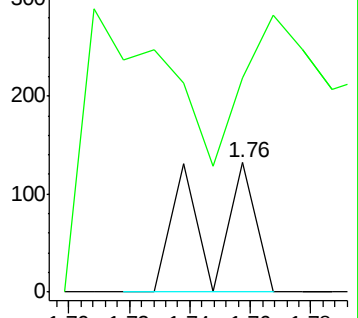
74 100

45 165.9 60.8 182.3



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



#13

Acrolein

Concen: 12.103 ug/l

RT: 1.93 min Scan# 131

Delta R.T. -0.08 min

Lab File: VF061721.D

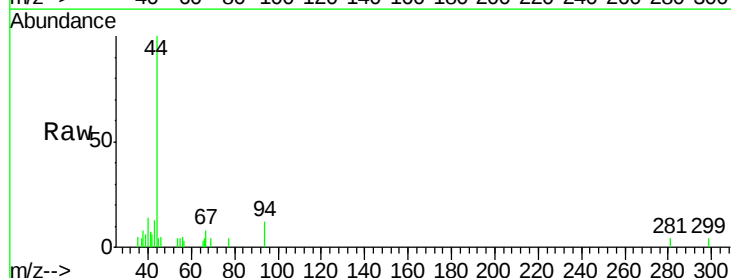
Acq: 22 Feb 2019 21:19

Tgt Ion: 56 Resp: 277

Ion Ratio Lower Upper

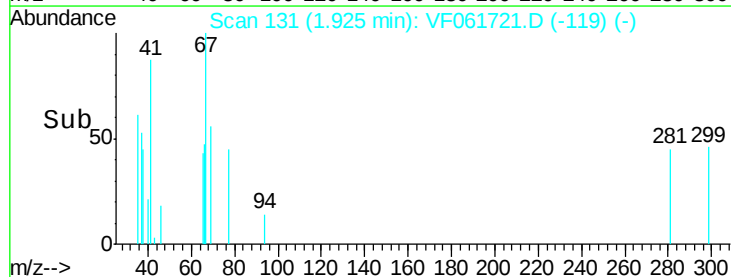
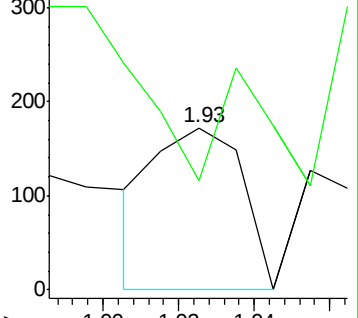
56 100

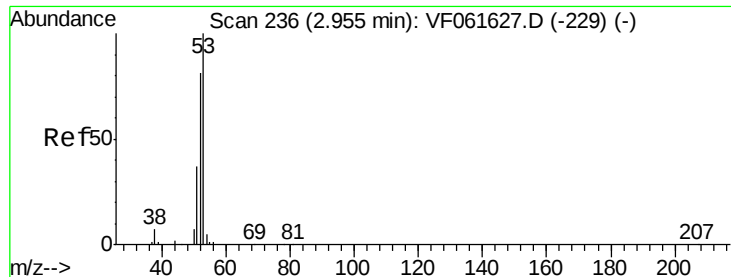
55 67.4 55.0 82.6



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0





#15

Acrylonitrile

Concen: 4.133 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.01 min

Lab File: VF061721.D

Acq: 22 Feb 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

TP-MH-C02

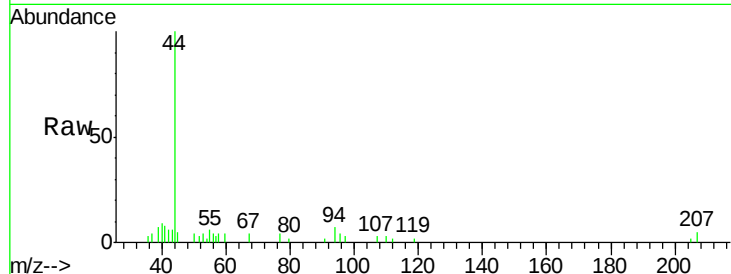
Tot Ion: 53 Resp: 267

Ion Ratio Lower Upper

53 100

52 0.0 64.6 97.0#

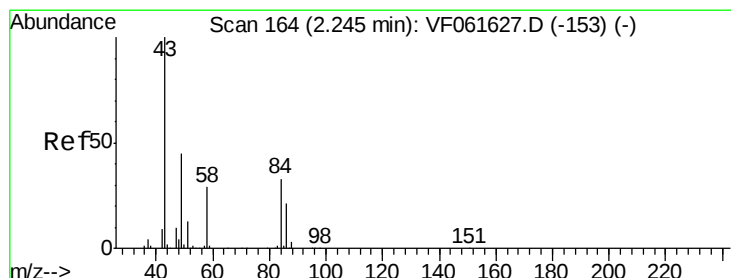
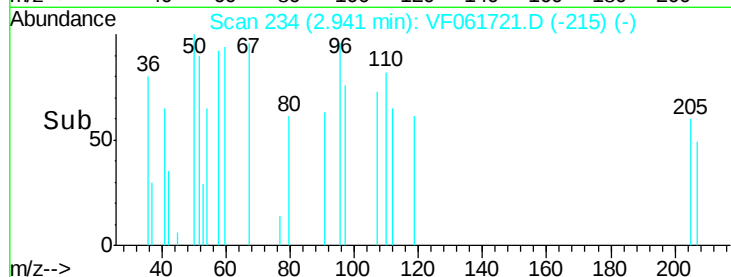
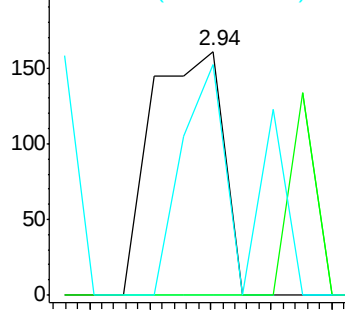
51 94.4 29.8 44.8#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 13.790 ug/l

RT: 2.36 min Scan# 175

Delta R.T. 0.11 min

Lab File: VF061721.D

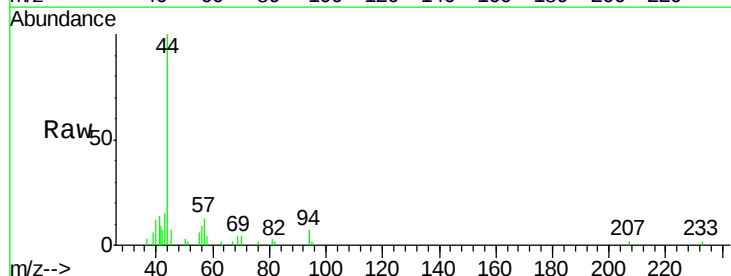
Acq: 22 Feb 2019 21:19

Tgt Ion: 43 Resp: 931

Ion Ratio Lower Upper

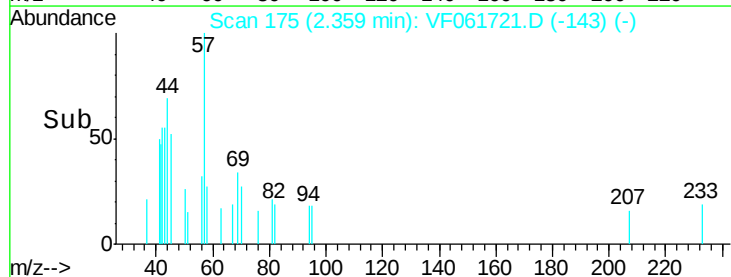
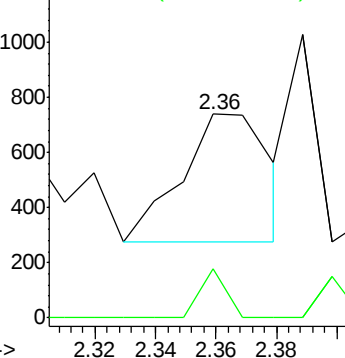
43 100

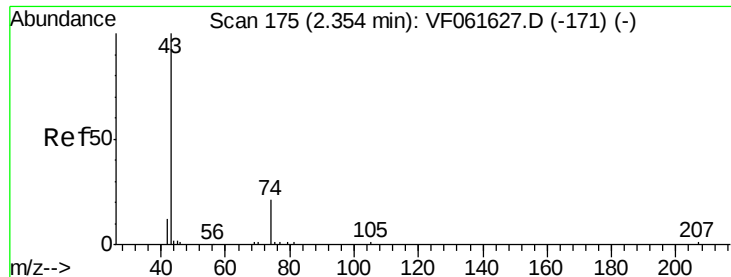
58 24.1 22.9 34.3



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

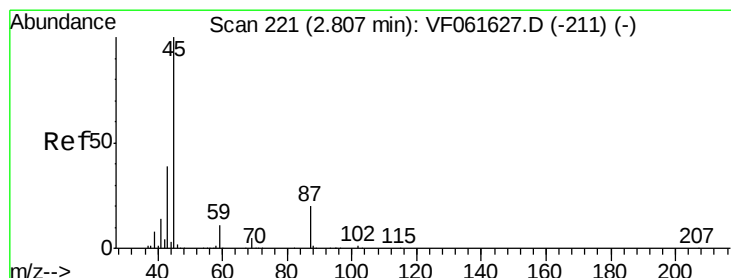
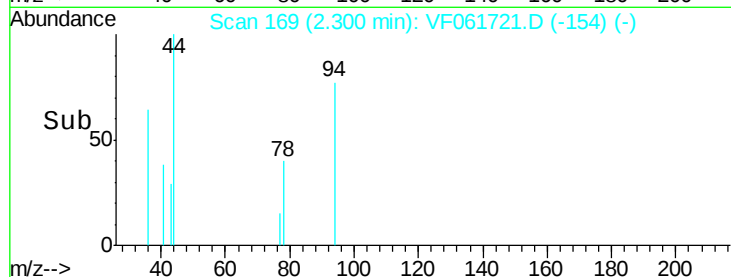
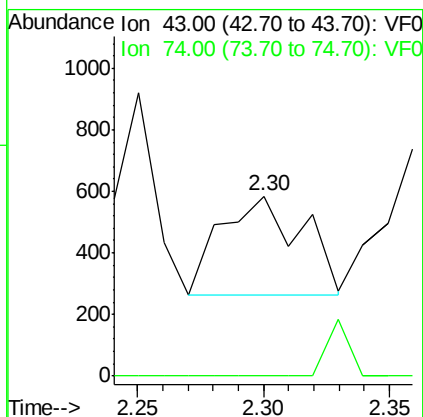
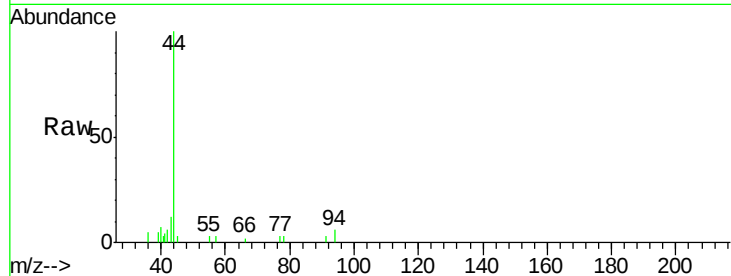




#18
Methyl Acetate
Concen: 4.734 ug/l
RT: 2.30 min Scan# 169
Delta R.T. -0.05 min
Lab File: VF061721.D
Acq: 22 Feb 2019 21:19

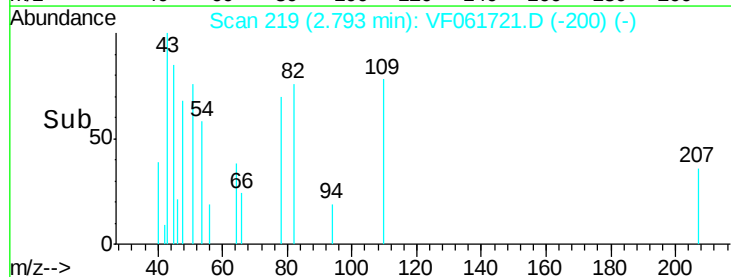
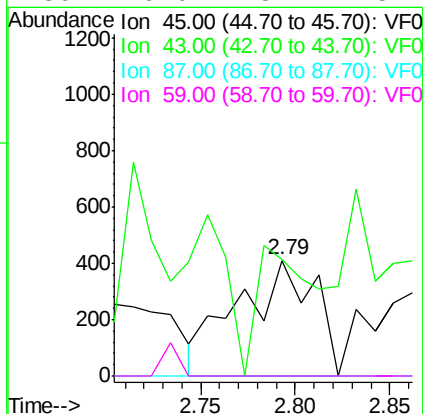
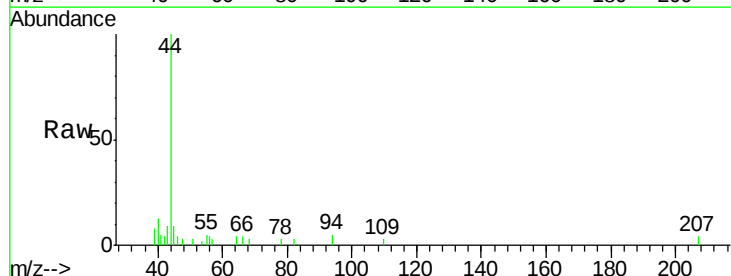
Instrument :
MSVOA_F
ClientSampleId :
TP-MH-C02

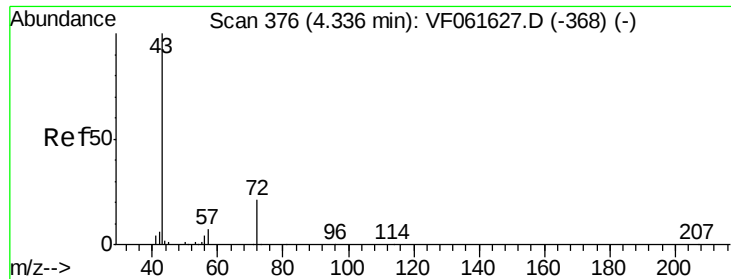
Tot Ion: 43 Resp: 720
Ion Ratio Lower Upper
43 100
74 0.0 14.6 21.8#



#22
Diisopropyl ether
Concen: 1.065 ug/l
RT: 2.79 min Scan# 219
Delta R.T. -0.01 min
Lab File: VF061721.D
Acq: 22 Feb 2019 21:19

Tgt Ion: 45 Resp: 1154
Ion Ratio Lower Upper
45 100
43 100.7 31.4 47.2#
87 0.0 16.3 24.5#
59 0.0 8.7 13.1#





#25

2-Butanone

Concen: 1.329 ug/l

RT: 4.29 min Scan# 371

Delta R.T. -0.04 min

Lab File: VF061721.D

Acq: 22 Feb 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

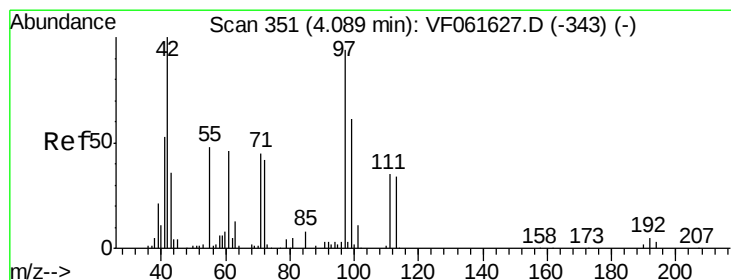
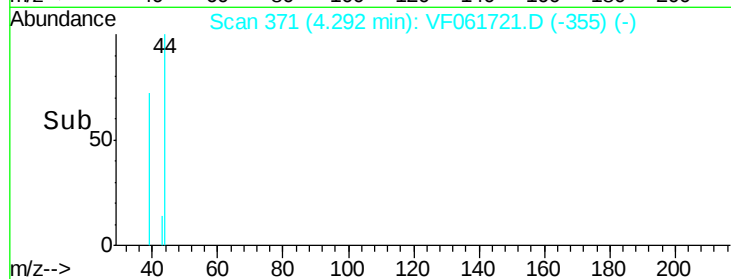
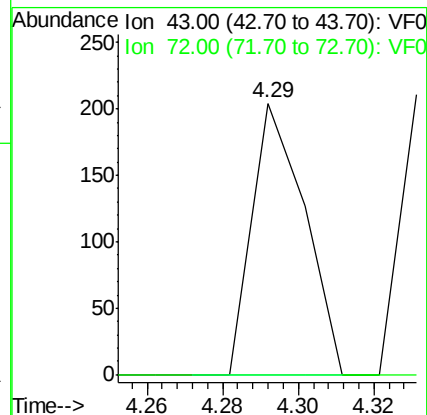
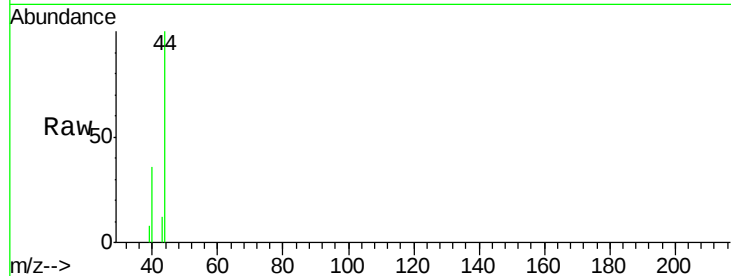
TP-MH-C02

Tot Ion: 43 Resp: 196

Ion Ratio Lower Upper

43 100

72 0.0 17.1 25.7#



#29

Tetrahydrofuran

Concen: 3.446 ug/l

RT: 4.07 min Scan# 348

Delta R.T. -0.02 min

Lab File: VF061721.D

Acq: 22 Feb 2019 21:19

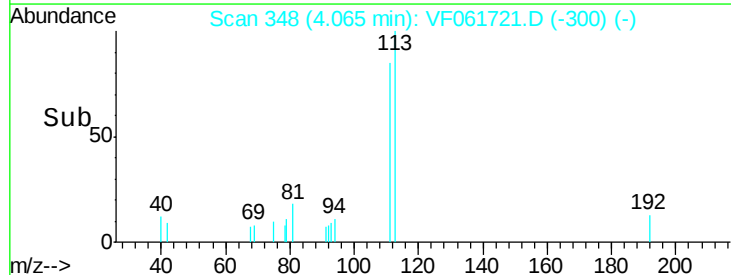
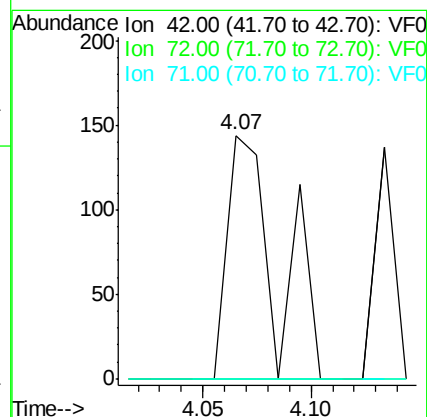
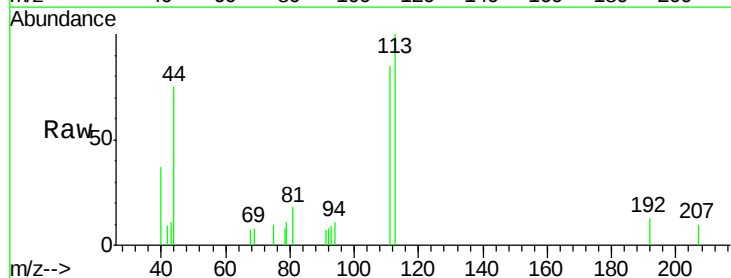
Tgt Ion: 42 Resp: 231

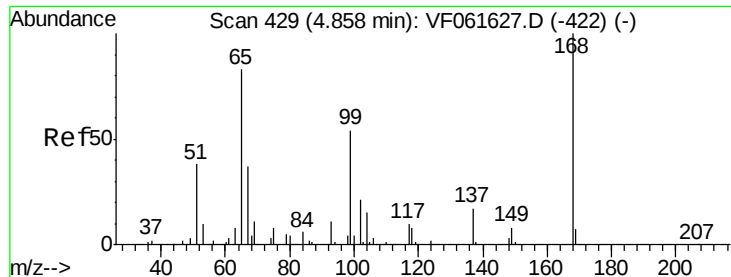
Ion Ratio Lower Upper

42 100

72 0.0 35.2 52.8#

71 0.0 32.9 49.3#





#33

1,2-Dichloroethane-d4

Concen: 19.157 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.02 min

Lab File: VF061721.D

Acq: 22 Feb 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

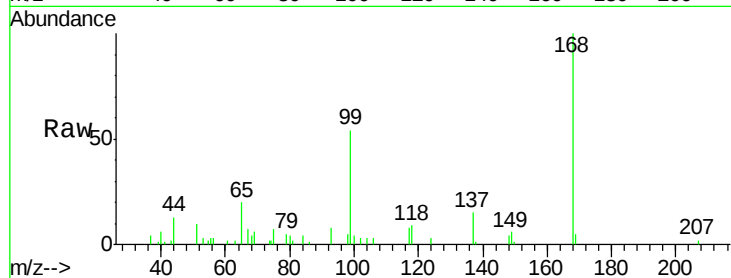
TP-MH-C02

Tot Ion: 65 Resp: 6028

Ion Ratio Lower Upper

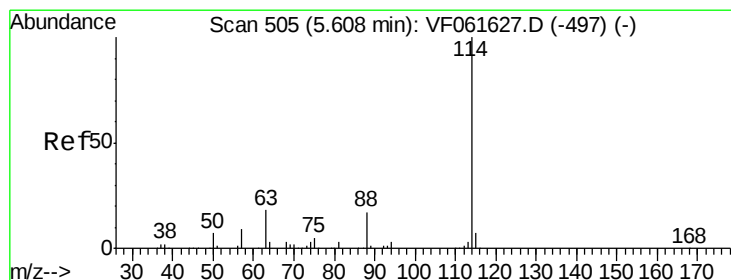
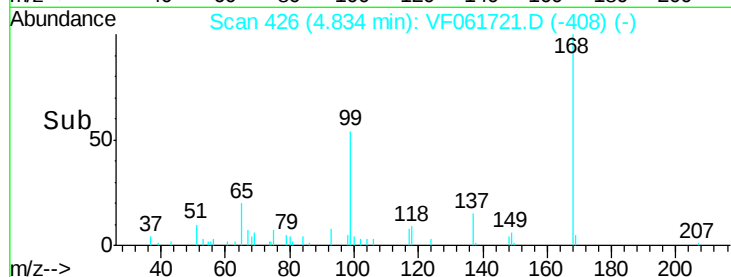
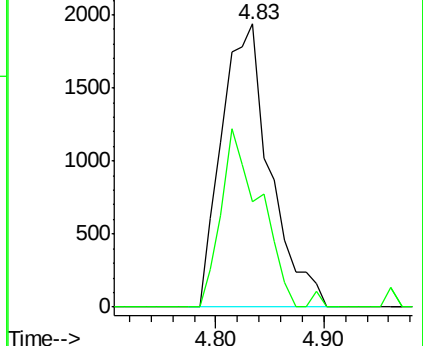
65 100

67 37.5 0.0 104.0



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: 5.57 min Scan# 501

Delta R.T. -0.03 min

Lab File: VF061721.D

Acq: 22 Feb 2019 21:19

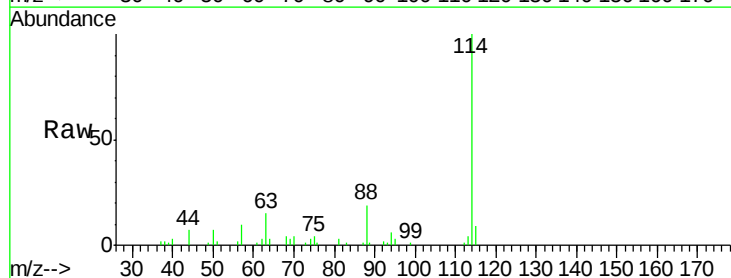
Tgt Ion: 114 Resp: 49212

Ion Ratio Lower Upper

114 100

63 15.4 0.0 36.6

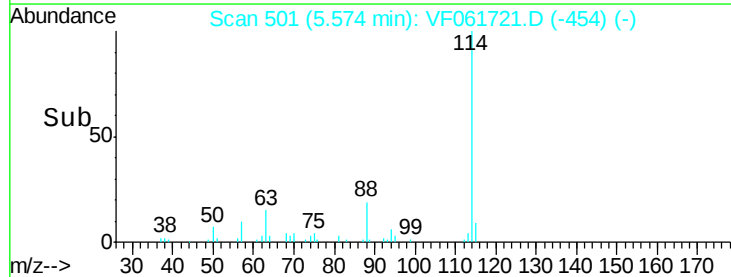
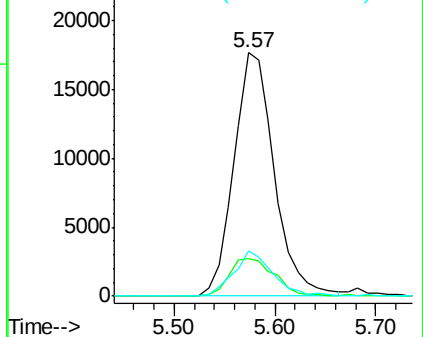
88 18.8 0.0 34.4

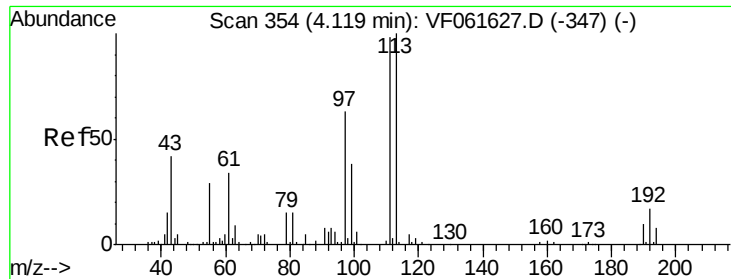


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

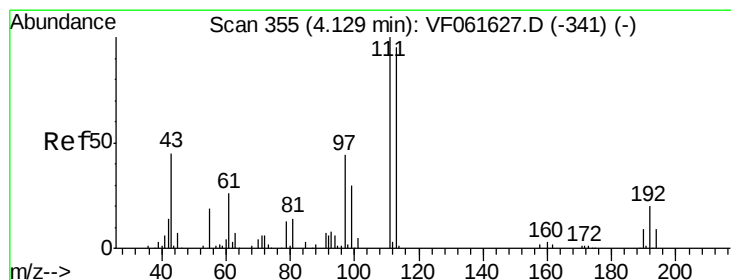
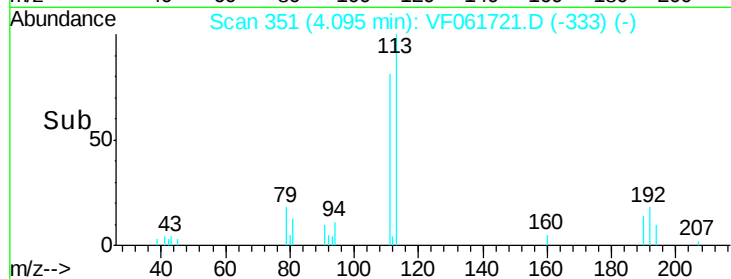
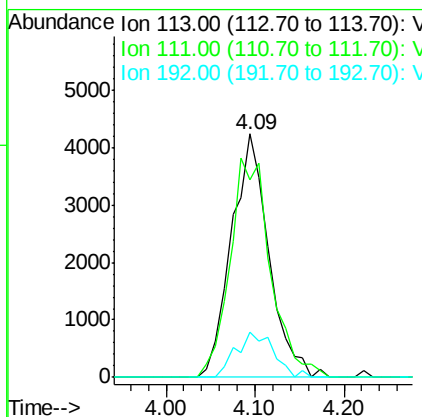
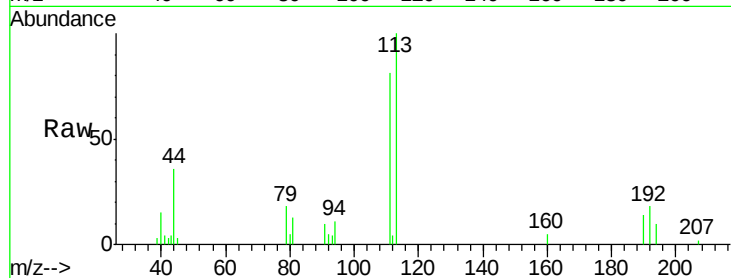




#35
 Dibromofluoromethane
 Concen: 34.059 ug/l
 RT: 4.09 min Scan# 351
 Delta R.T. -0.02 min
 Lab File: VF061721.D
 Acq: 22 Feb 2019 21:19

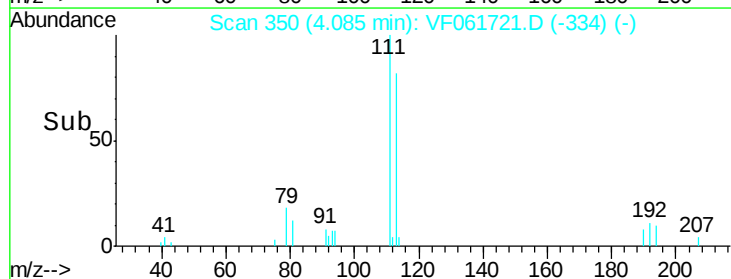
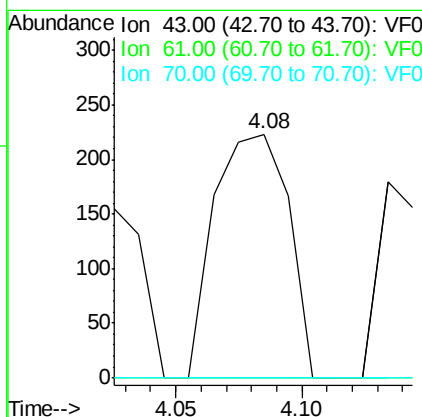
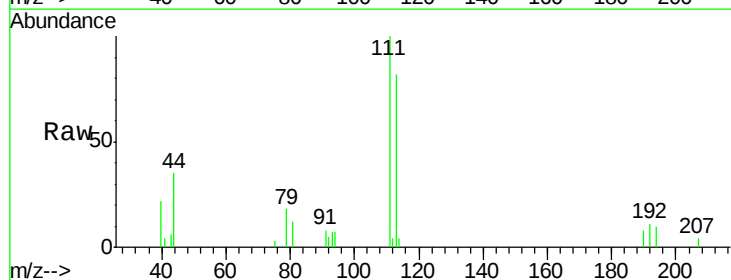
Instrument :
 MSVOA_F
 ClientSampled :
 TP-MH-C02

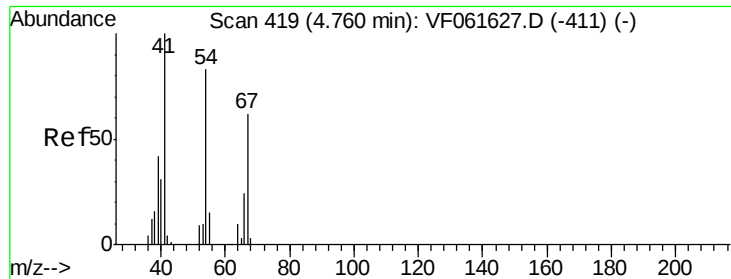
Tot Ion:113 Resp: 12447
 Ion Ratio Lower Upper
 113 100
 111 81.1 78.8 118.2
 192 18.5 13.4 20.0



#37
 Ethyl Acetate
 Concen: 2.023 ug/l
 RT: 4.08 min Scan# 350
 Delta R.T. -0.04 min
 Lab File: VF061721.D
 Acq: 22 Feb 2019 21:19

Tgt Ion: 43 Resp: 458
 Ion Ratio Lower Upper
 43 100
 61 0.0 45.7 68.5#
 70 0.0 8.5 12.7#

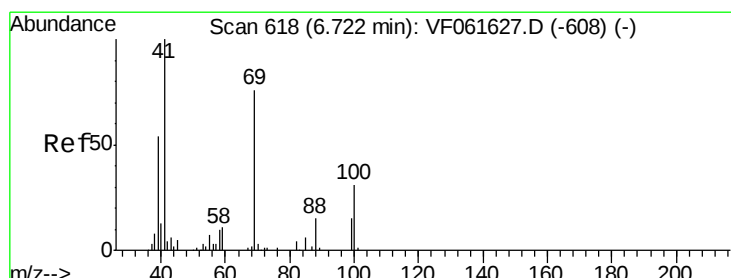
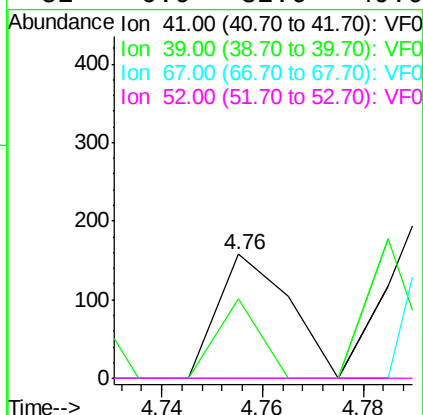
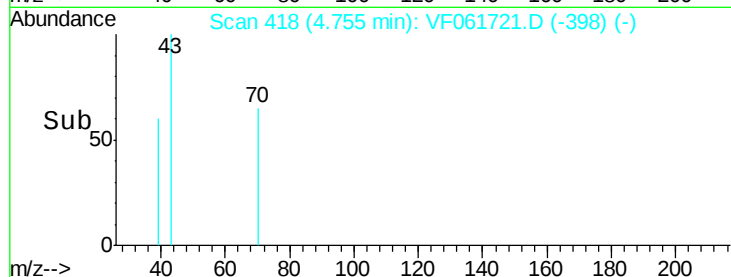
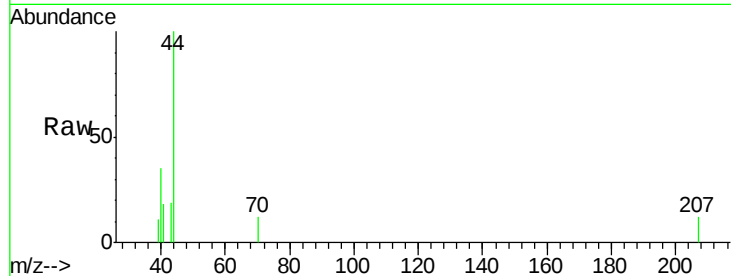




#41
Methacrylonitrile
Concen: 1.339 ug/l
RT: 4.76 min Scan# 418
Delta R.T. -0.00 min
Lab File: VF061721.D
Acq: 22 Feb 2019 21:19

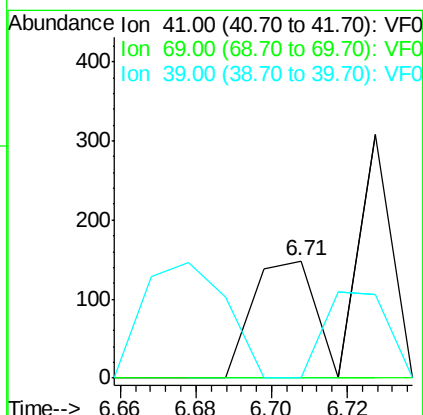
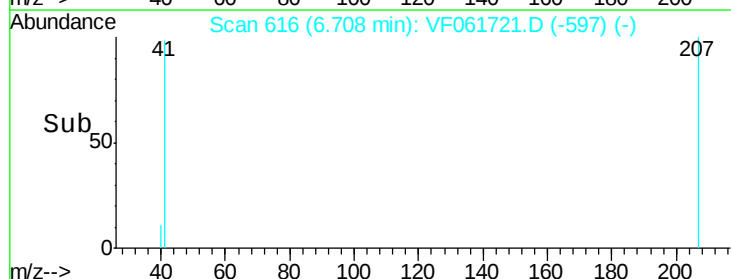
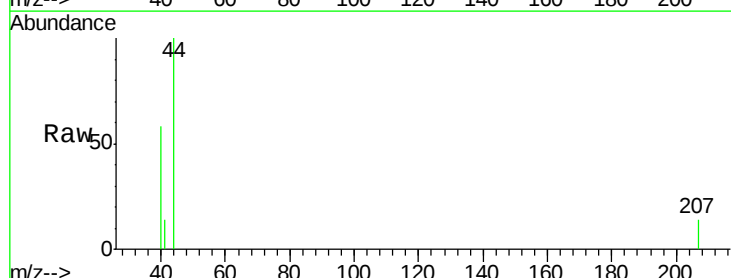
Instrument :
MSVOA_F
ClientSampled :
TP-MH-C02

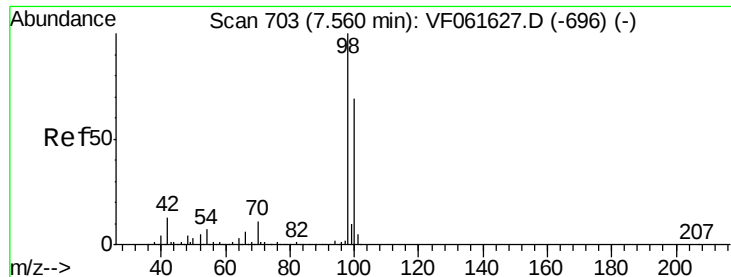
Tot Ion:	41	Resp:	155
Ion	Ratio	Lower	Upper
41	100		
39	63.9	45.3	67.9
67	0.0	49.3	73.9#
52	0.0	32.6	49.0#



#48
Methyl methacrylate
Concen: 1.054 ug/l
RT: 6.71 min Scan# 616
Delta R.T. -0.01 min
Lab File: VF061721.D
Acq: 22 Feb 2019 21:19

Tgt Ion:	41	Resp:	170
Ion	Ratio	Lower	Upper
41	100		
69	0.0	60.4	90.6#
39	0.0	43.7	65.5#

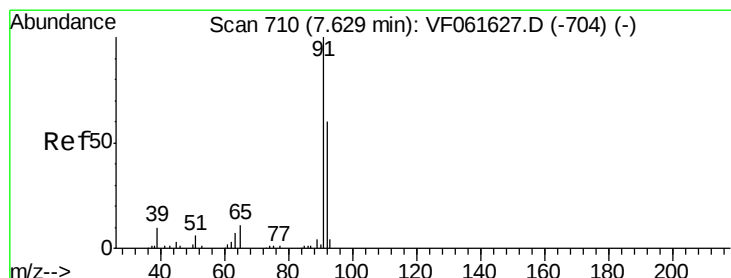
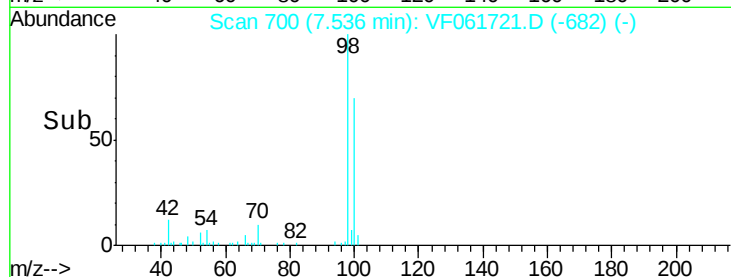
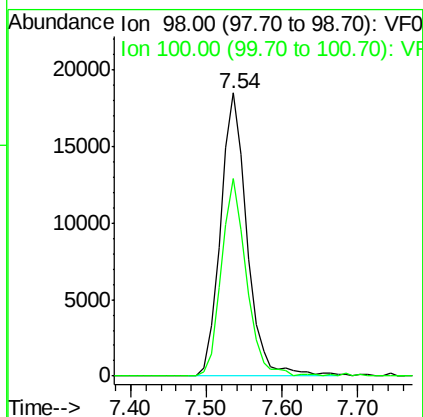
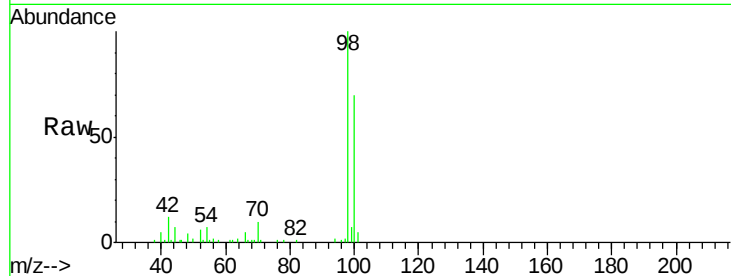




#50
Toluene-d8
Concen: 42.708 ug/l
RT: 7.54 min Scan# 700
Delta R.T. -0.02 min
Lab File: VF061721.D
Acq: 22 Feb 2019 21:19

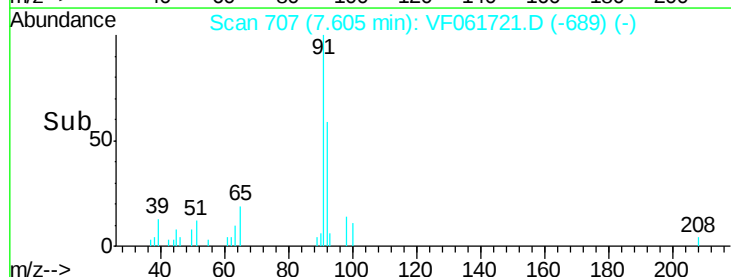
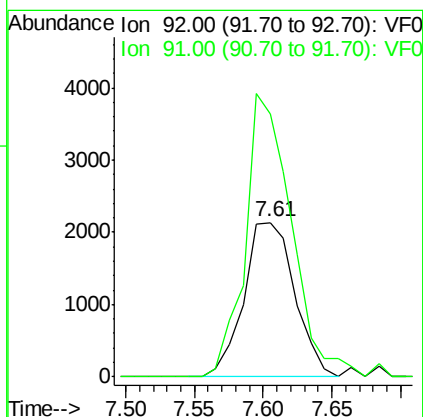
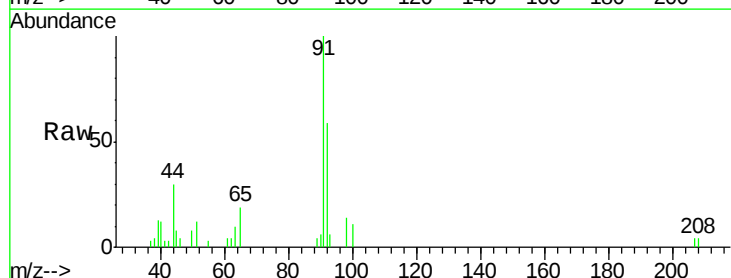
Instrument :
MSVOA_F
ClientSampleId :
TP-MH-C02

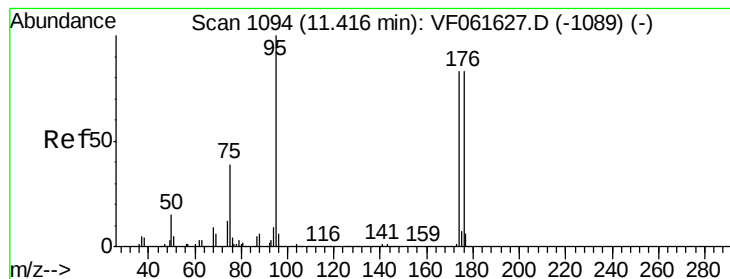
Tot Ion: 98 Resp: 44868
Ion Ratio Lower Upper
98 100
100 69.8 55.4 83.2



#52
Toluene
Concen: 7.100 ug/l
RT: 7.61 min Scan# 707
Delta R.T. -0.02 min
Lab File: VF061721.D
Acq: 22 Feb 2019 21:19

Tgt Ion: 92 Resp: 5491
Ion Ratio Lower Upper
92 100
91 170.3 133.9 200.9





#62

4-Bromofluorobenzene

Concen: 25.602 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. -0.02 min

Lab File: VF061721.D

Acq: 22 Feb 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

TP-MH-C02

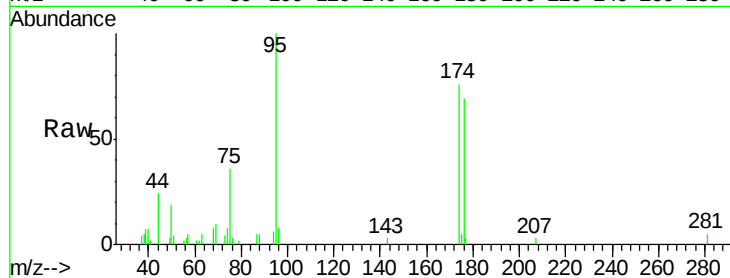
Tot Ion: 95 Resp: 10883

Ion Ratio Lower Upper

95 100

174 76.0 0.0 165.8

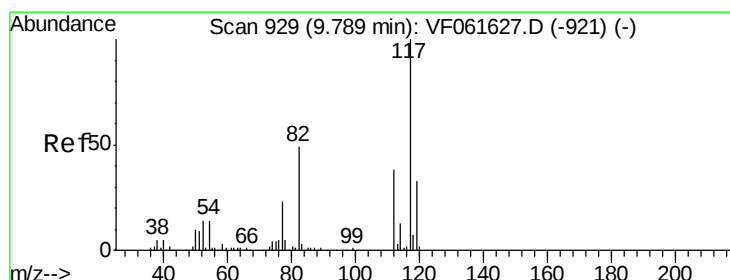
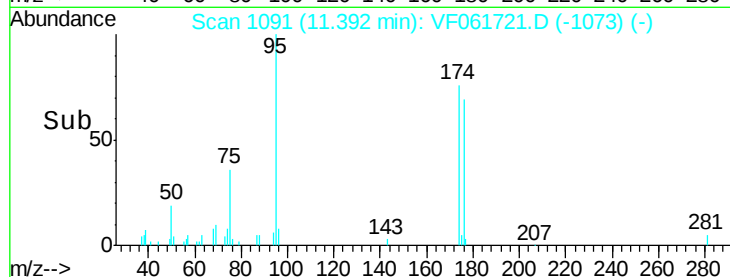
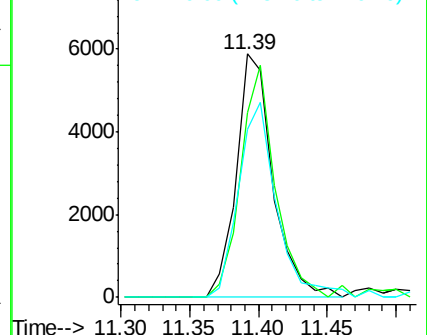
176 68.9 0.0 167.0



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.75 min Scan# 925

Delta R.T. -0.03 min

Lab File: VF061721.D

Acq: 22 Feb 2019 21:19

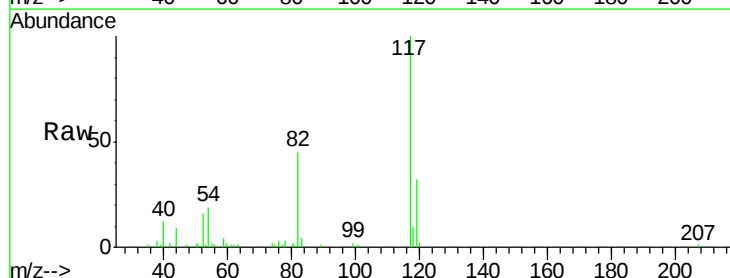
Tgt Ion: 117 Resp: 34333

Ion Ratio Lower Upper

117 100

82 45.3 39.3 58.9

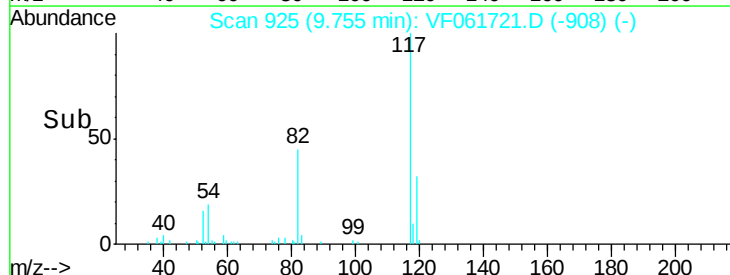
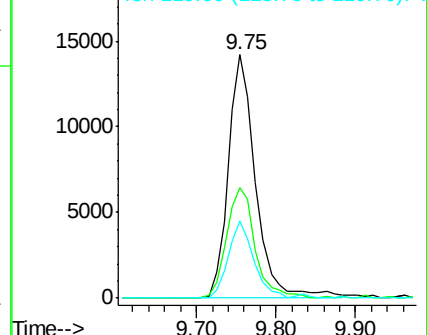
119 32.0 26.6 40.0

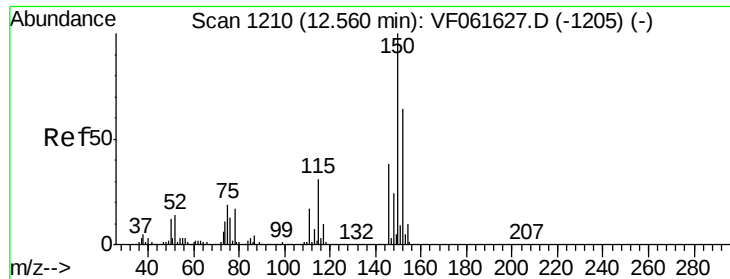


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0



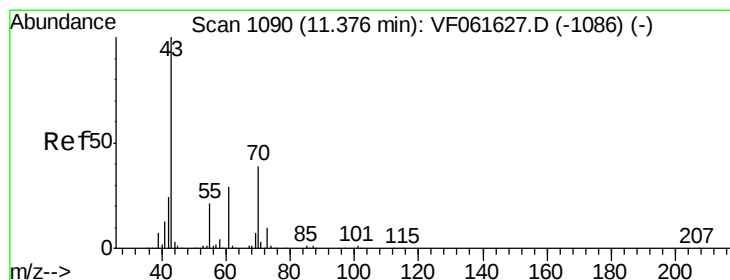
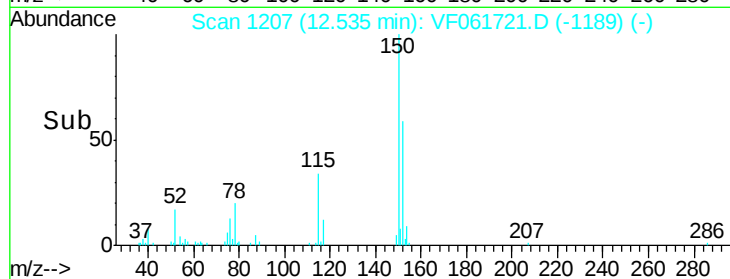
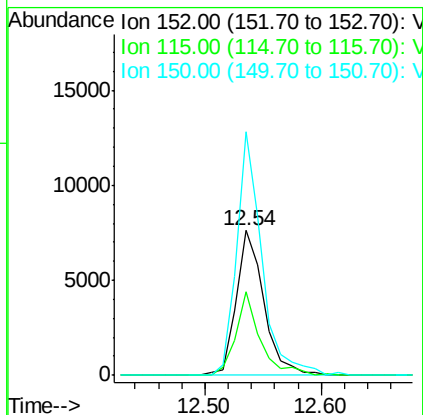
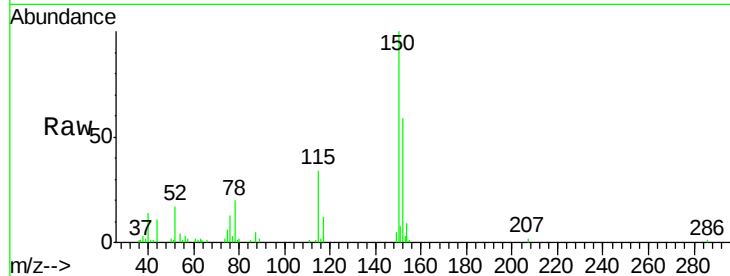


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1207
Delta R.T. -0.02 min
Lab File: VF061721.D
Acq: 22 Feb 2019 21:19

Instrument :
MSVOA_F
ClientSampleId :
TP-MH-C02

Tot Ion:152 Resp: 12537
Ion Ratio Lower Upper
152 100
115 58.1 24.3 72.8
150 168.6 0.0 312.0



#74

N-aryl acetate
Concen: 1.237 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. 0.03 min
Lab File: VF061721.D
Acq: 22 Feb 2019 21:19

Tgt Ion: 43 Resp: 265
Ion Ratio Lower Upper
43 100
70 0.0 31.5 47.3#
55 67.0 16.7 25.1#
61 0.0 23.0 34.6#

