

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF020719\
 Data File : VF061547.D
 Acq On : 7 Feb 2019 16:15
 Operator : VA/AP
 Sample : K1401-03
 Misc : 6.54g/5mL/MSVOA-F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Feb 09 04:35:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	13697	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	19629	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	14113	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	4418	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	4331	25.61	ug/l	0.00
Spiked Amount			Recovery	=	51.22%	
35) Dibromofluoromethane	4.10	113	5760	37.19	ug/l	0.00
Spiked Amount			Recovery	=	74.38%	
50) Toluene-d8	7.56	98	19590	46.16	ug/l	0.00
Spiked Amount			Recovery	=	92.32%	
62) 4-Bromofluorobenzene	11.41	95	5445	27.46	ug/l	0.00
Spiked Amount			Recovery	=	54.92%	

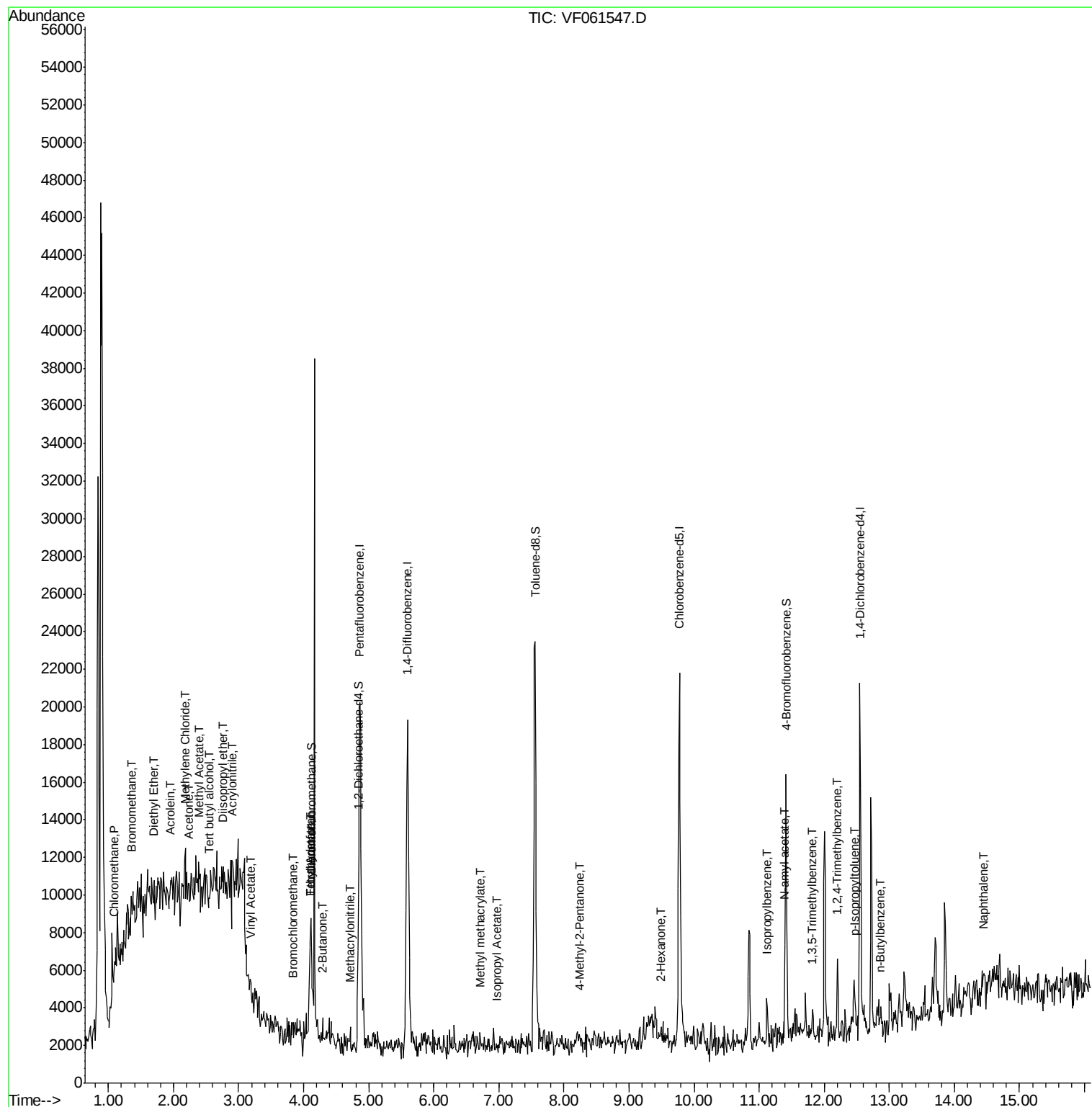
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.09	50	585	2.965	ug/l #	44
5) Bromomethane	1.34	94	192	1.677	ug/l #	2
8) Diethyl Ether	1.71	74	85	1.944	ug/l	95
11) Tert butyl alcohol	2.55	59	60	8.382	ug/l #	64
13) Acrolein	1.95	56	711	120.888	ug/l	88
14) Allyl chloride	2.07	41	264	Below Cal	#	58
15) Acrylonitrile	2.91	53	488	26.615	ug/l #	63
16) Acetone	2.24	43	299	8.814	ug/l	98
18) Methyl Acetate	2.40	43	1074	15.964	ug/l	93
20) Methylene Chloride	2.18	84	470	2.409	ug/l #	54
22) Diisopropyl ether	2.76	45	762	1.758	ug/l #	10
23) Vinyl Acetate	3.20	43	463	5.591	ug/l #	78
25) 2-Butanone	4.30	43	249	4.414	ug/l #	57
28) Bromochloromethane	3.84	49	156	1.276	ug/l #	8
29) Tetrahydrofuran	4.09	42	144	5.928	ug/l #	63
37) Ethyl Acetate	4.09	43	146	1.605	ug/l #	5
41) Methacrylonitrile	4.71	41	138	2.851	ug/l #	29
43) Isopropyl Acetate	6.97	43	244	2.137	ug/l #	51
48) Methyl methacrylate	6.72	41	288	3.756	ug/l #	19
51) 4-Methyl-2-Pentanone	8.23	43	491	5.849	ug/l #	60
59) 2-Hexanone	9.49	43	481	8.218	ug/l #	26
73) Isopropylbenzene	11.13	105	1270	3.534	ug/l	92
74) N-amyl acetate	11.38	43	251	2.954	ug/l #	47
80) 1,3,5-Trimethylbenzene	11.83	105	705	2.431	ug/l	90
84) 1,2,4-Trimethylbenzene	12.20	105	1457	4.878	ug/l	79
86) p-Isopropyltoluene	12.46	119	2129	6.363	ug/l	92
89) n-Butylbenzene	12.85	91	352	1.020	ug/l #	27
95) Naphthalene	14.45	128	835	4.419	ug/l #	71

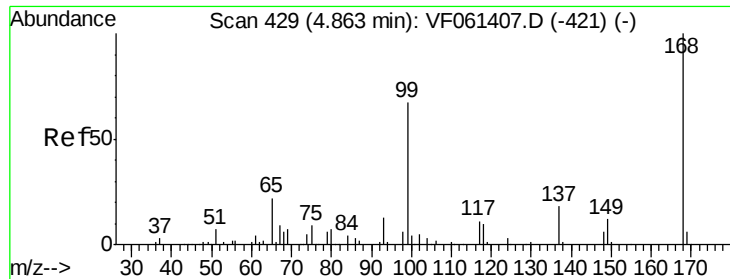
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jan 16 04:51:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.01 min

Lab File: VF061547.D

Acq: 7 Feb 2019 16:15

Instrument :

MSVOA_F

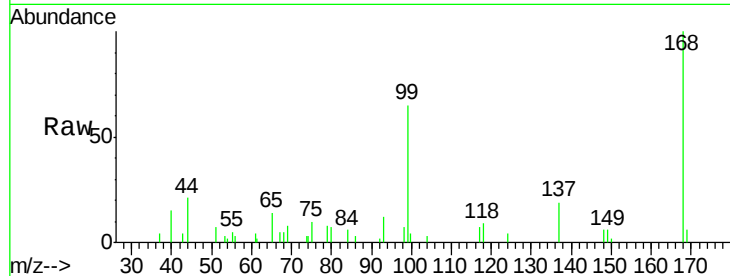
ClientSampleId :

Tot Ion:168 Resp: 13697

Ion Ratio Lower Upper

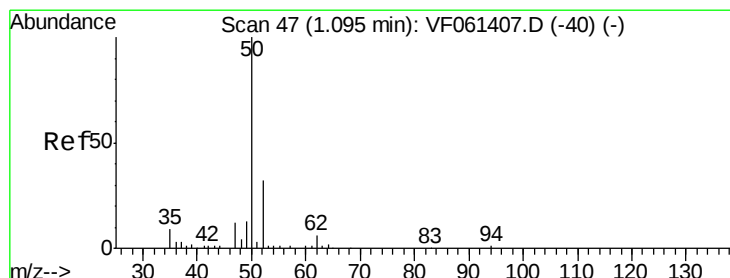
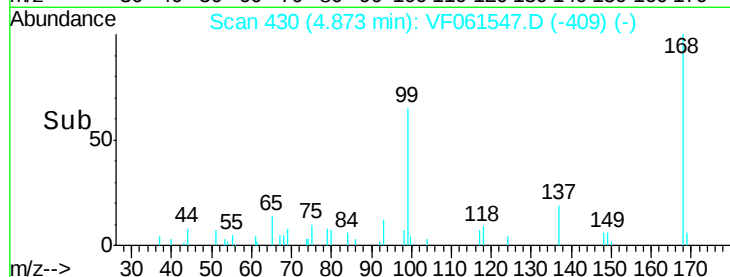
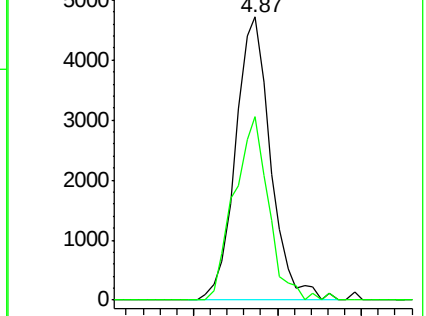
168 100

99 65.0 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#3

Chloromethane

Concen: 2.965 ug/l

RT: 1.09 min Scan# 46

Delta R.T. -0.01 min

Lab File: VF061547.D

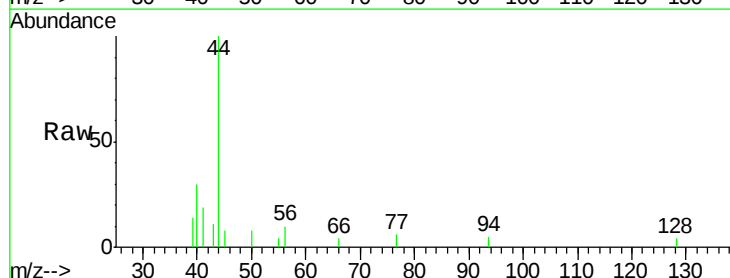
Acq: 7 Feb 2019 16:15

Tgt Ion: 50 Resp: 585

Ion Ratio Lower Upper

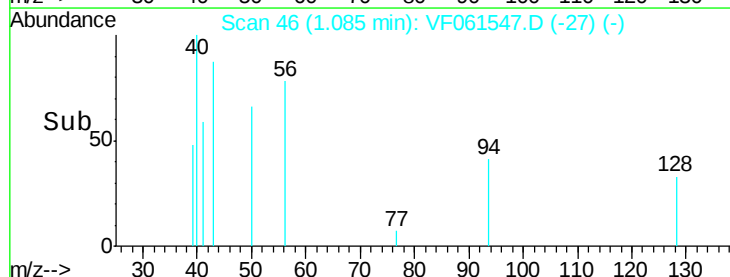
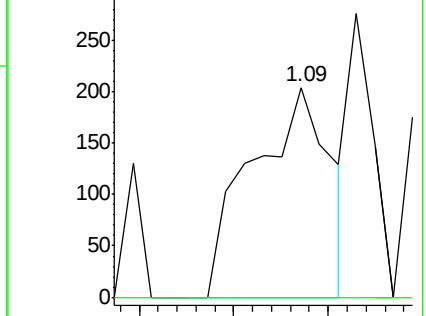
50 100

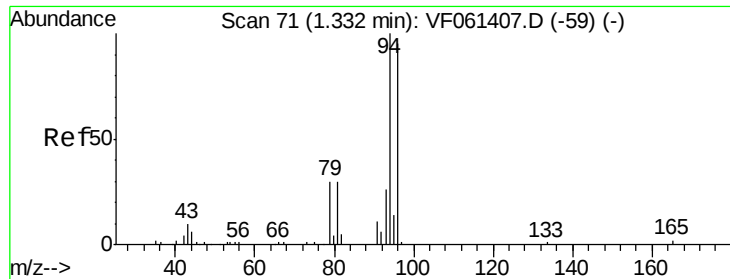
52 0.0 24.6 36.8#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0





#5

Bromomethane

Concen: 1.677 ug/l

RT: 1.34 min Scan# 72

Delta R.T. 0.01 min

Lab File: VF061547.D

Acq: 7 Feb 2019 16:15

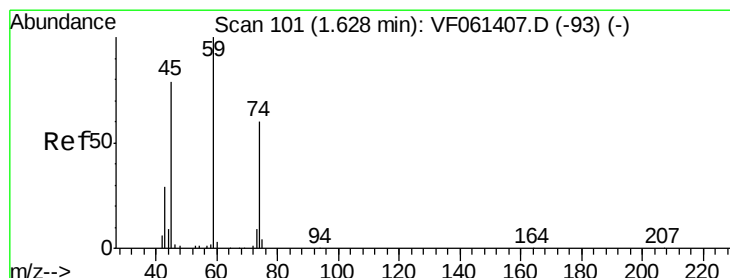
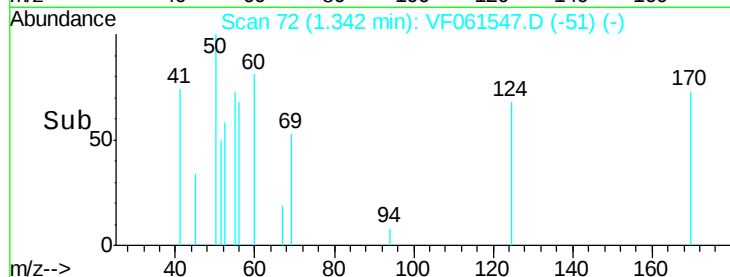
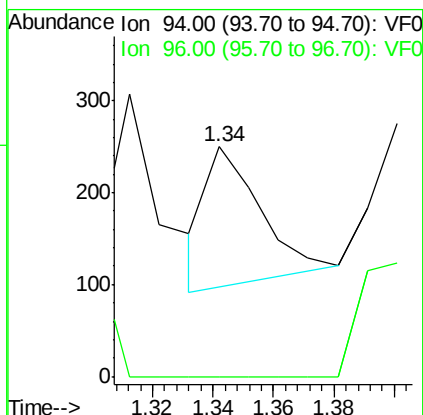
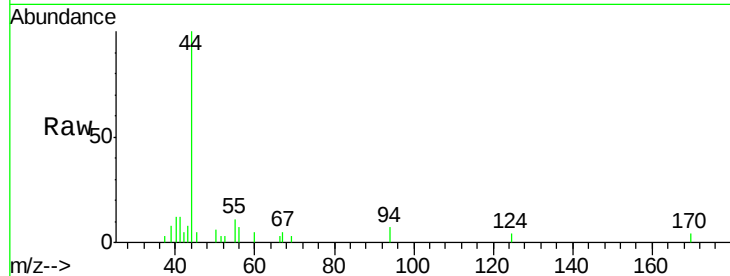
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 94 Resp: 192

Ion Ratio Lower Upper

94 100

96 0.0 76.0 114.0#



#8

Diethyl Ether

Concen: 1.944 ug/l

RT: 1.71 min Scan# 109

Delta R.T. 0.08 min

Lab File: VF061547.D

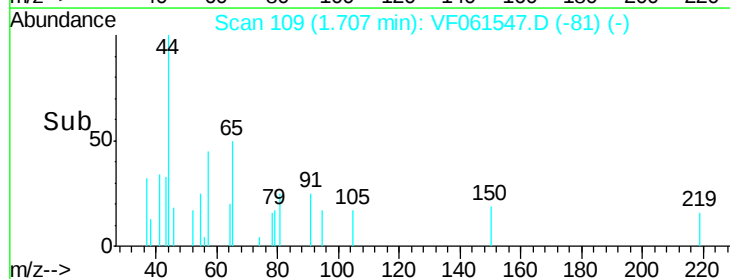
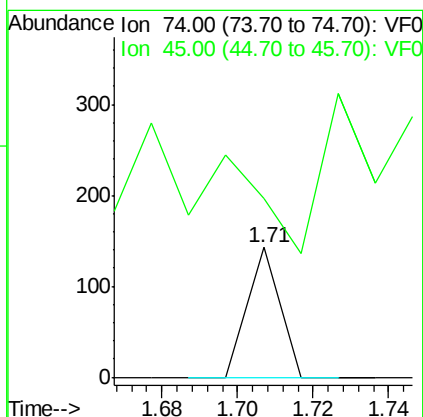
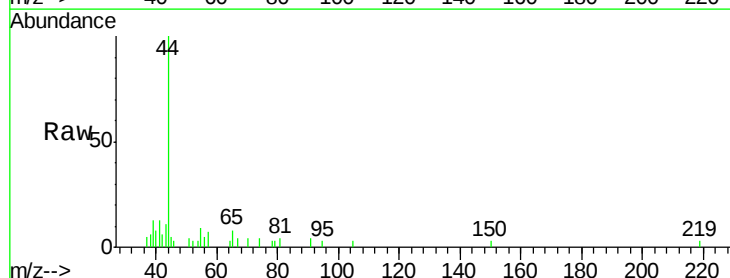
Acq: 7 Feb 2019 16:15

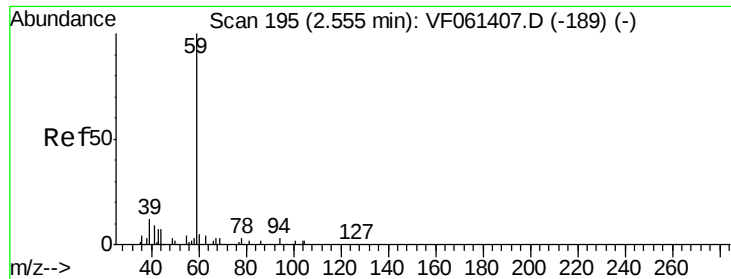
Tgt Ion: 74 Resp: 85

Ion Ratio Lower Upper

74 100

45 137.1 65.8 197.5



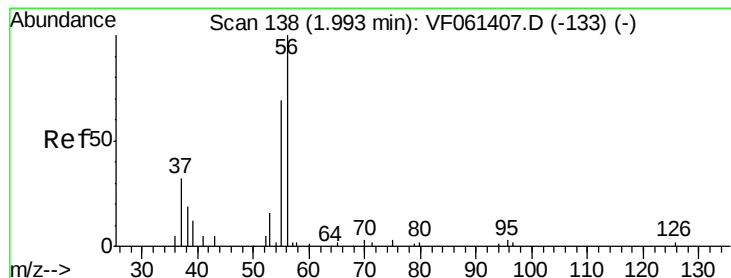
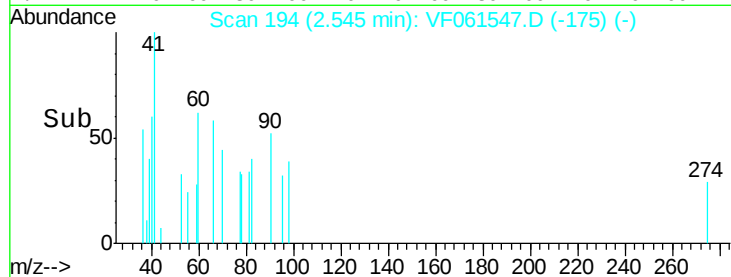
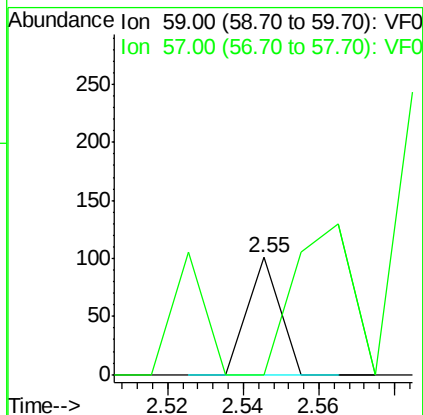
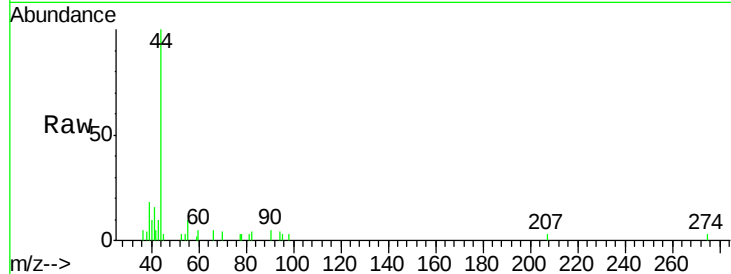


#11

Tert butyl alcohol
Concen: 8.382 ug/l
RT: 2.55 min Scan# 194
Delta R.T. -0.01 min
Lab File: VF061547.D
Acq: 7 Feb 2019 16:15

Instrument :
MSVOA_F
ClientSampleId :

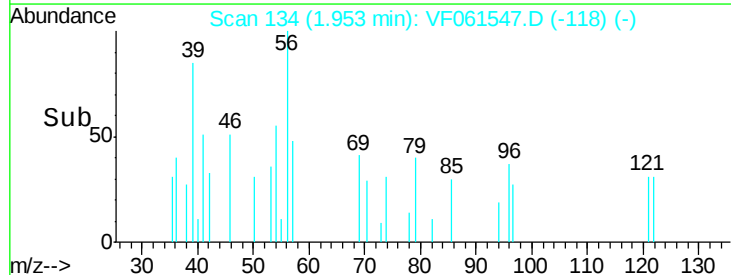
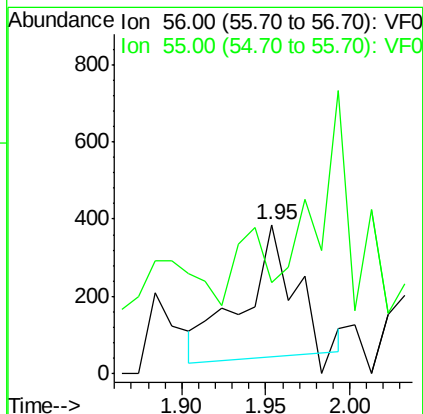
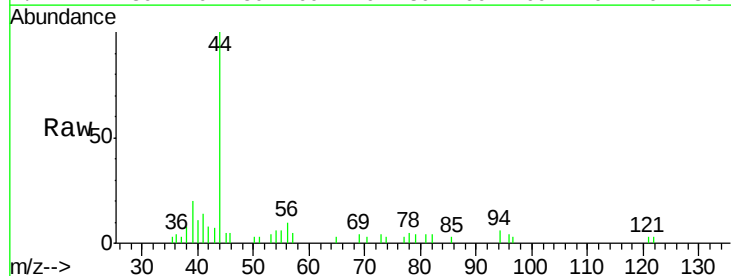
Tot Ion: 59 Resp: 60
Ion Ratio Lower Upper
59 100
57 0.0 11.9 17.9#

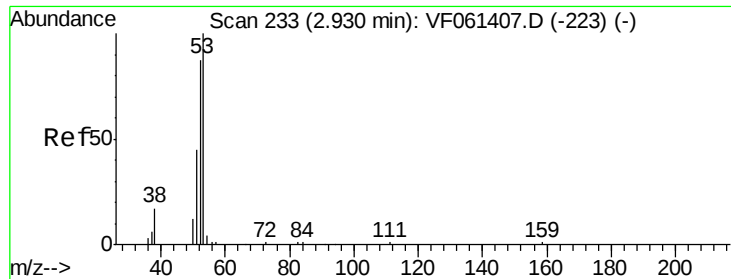


#13

Acrolein
Concen: 120.888 ug/l
RT: 1.95 min Scan# 134
Delta R.T. -0.04 min
Lab File: VF061547.D
Acq: 7 Feb 2019 16:15

Tgt Ion: 56 Resp: 711
Ion Ratio Lower Upper
56 100
55 61.6 57.5 86.3





#15

Acrylonitrile

Concen: 26.615 ug/l

RT: 2.91 min Scan# 231

Delta R.T. -0.02 min

Lab File: VF061547.D

Acq: 7 Feb 2019 16:15

Instrument :
MSVOA_F
ClientSampleId :

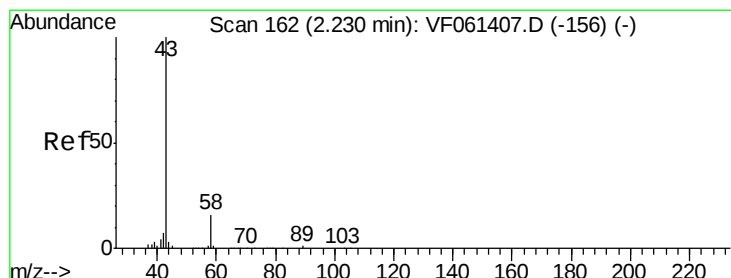
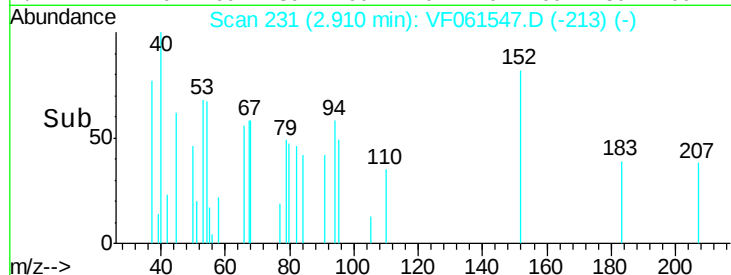
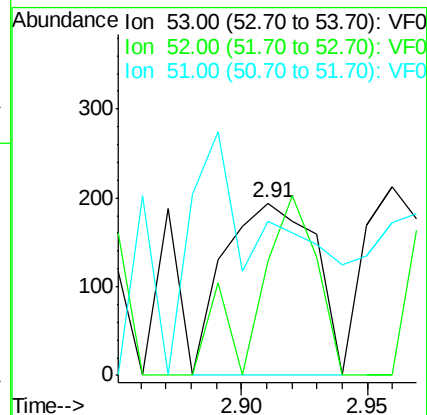
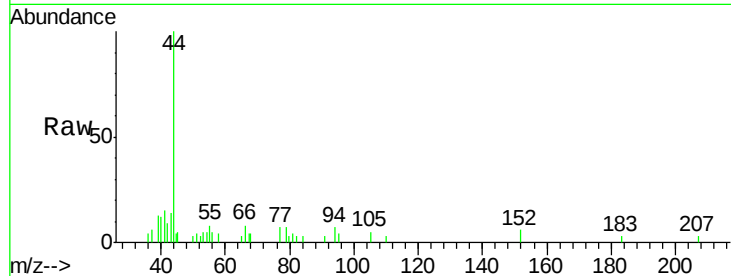
Tot Ion: 53 Resp: 488

Ion Ratio Lower Upper

53 100

52 66.5 69.6 104.4#

51 89.2 36.8 55.2#



#16

Acetone

Concen: 8.814 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.01 min

Lab File: VF061547.D

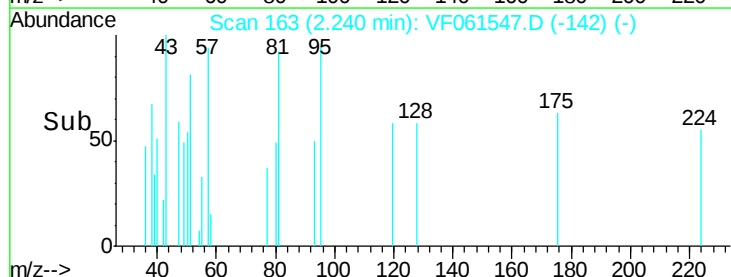
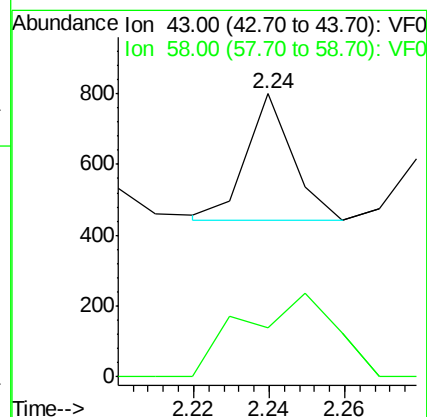
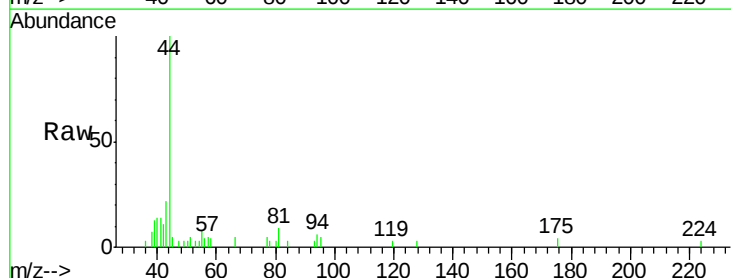
Acq: 7 Feb 2019 16:15

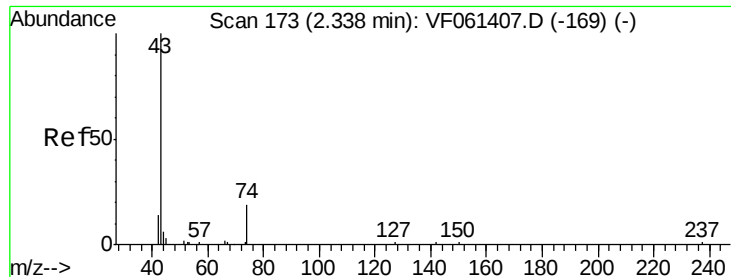
Tgt Ion: 43 Resp: 299

Ion Ratio Lower Upper

43 100

58 17.4 13.3 19.9





#18

Methyl Acetate

Concen: 15.964 ug/l

RT: 2.40 min Scan# 179

Delta R.T. 0.06 min

Lab File: VF061547.D

Acq: 7 Feb 2019 16:15

Instrument :

MSVOA_F

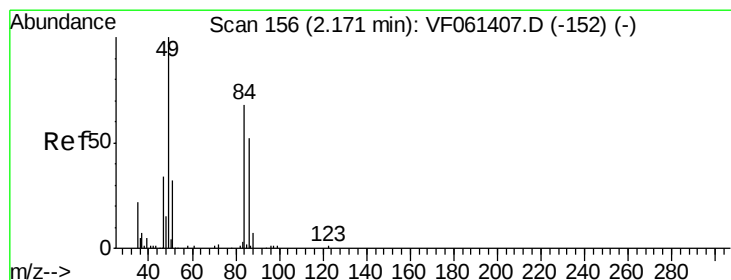
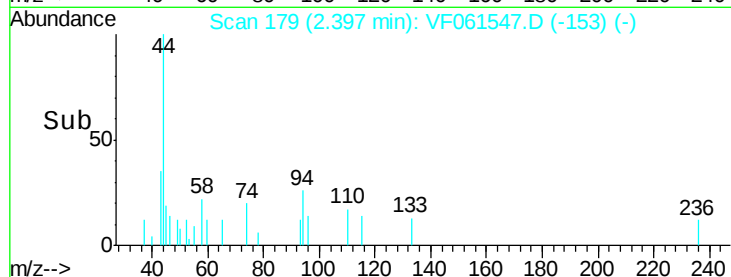
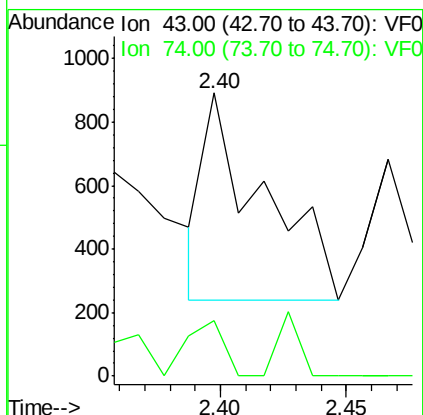
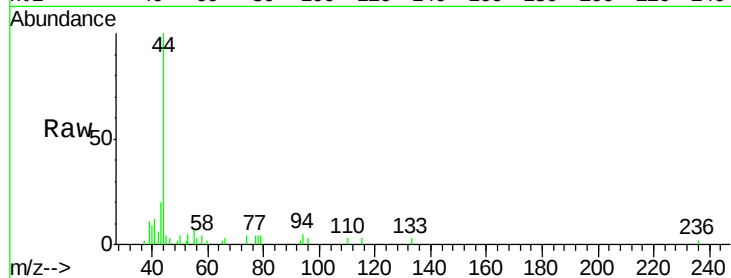
ClientSampleId :

Tot Ion: 43 Resp: 1074

Ion Ratio Lower Upper

43 100

74 19.7 13.4 20.0



#20

Methylene Chloride

Concen: 2.409 ug/l

RT: 2.18 min Scan# 157

Delta R.T. 0.01 min

Lab File: VF061547.D

Acq: 7 Feb 2019 16:15

Tgt Ion: 84 Resp: 470

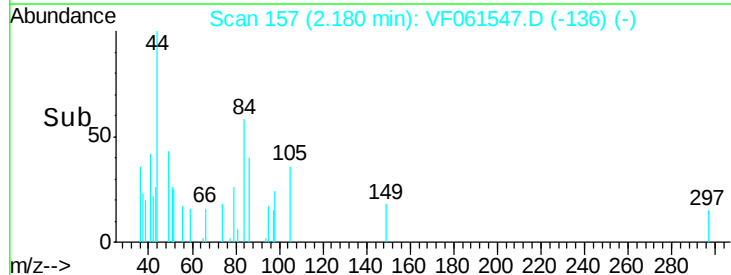
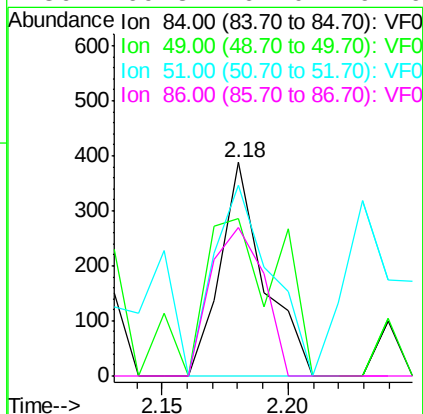
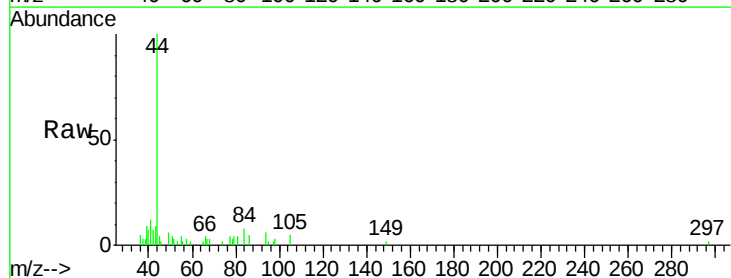
Ion Ratio Lower Upper

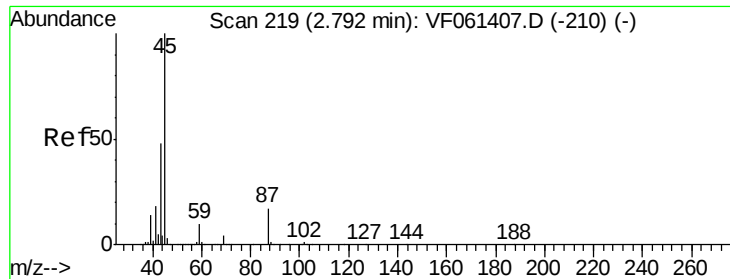
84 100

49 74.0 120.0 180.0#

51 89.4 38.6 58.0#

86 69.3 61.0 91.6

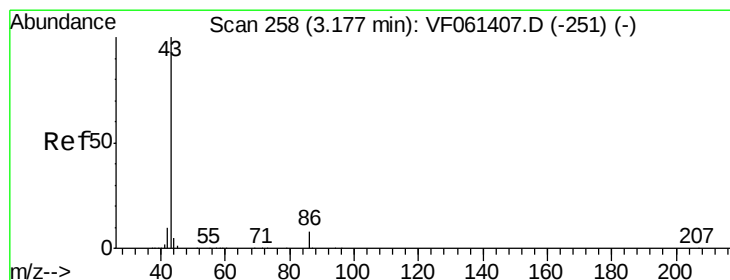
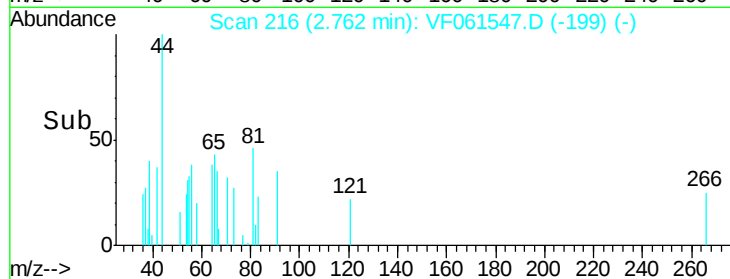
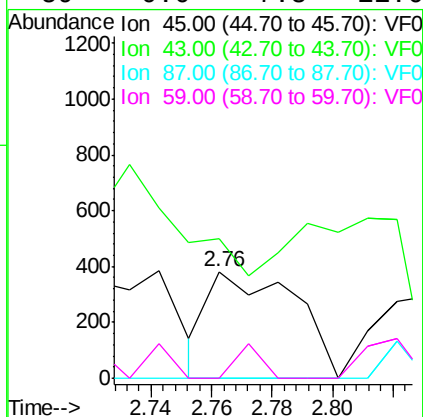
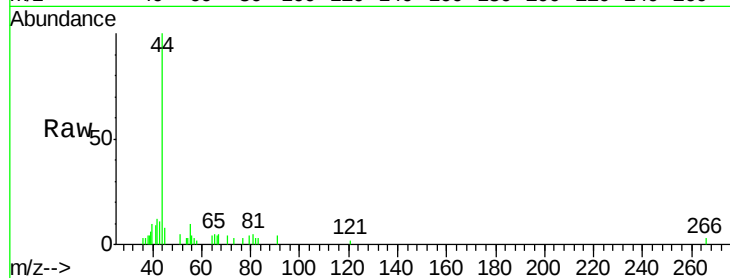




#22
Diisopropyl ether
Concen: 1.758 ug/l
RT: 2.76 min Scan# 216
Delta R.T. -0.03 min
Lab File: VF061547.D
Acq: 7 Feb 2019 16:15

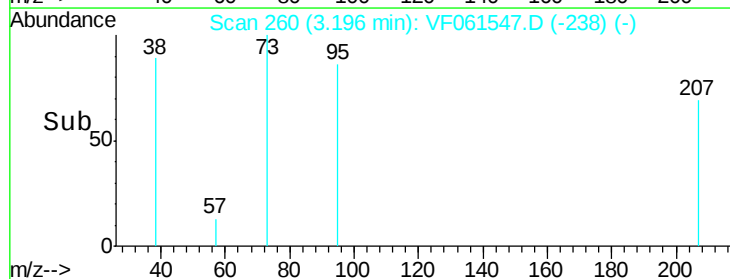
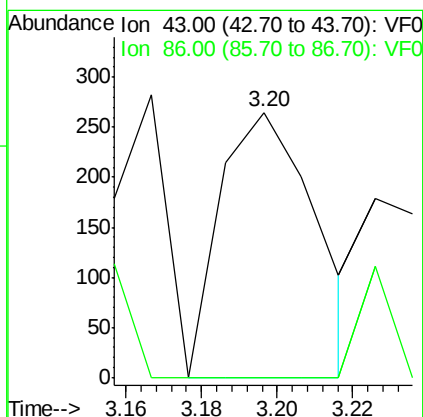
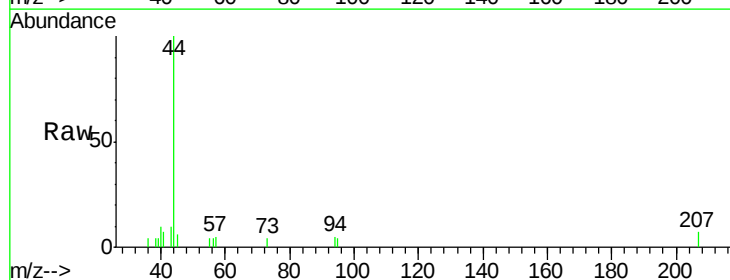
Instrument :
MSVOA_F
ClientSampled :

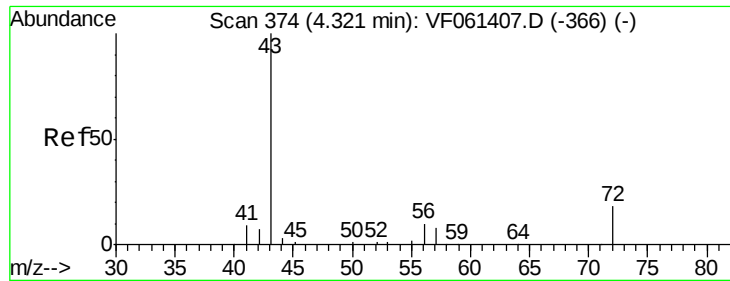
Tot Ion:	45	Resp:	762
Ion	Ratio	Lower	Upper
45	100		
43	131.2	39.0	58.6#
87	0.0	13.9	20.9#
59	0.0	7.8	11.6#



#23
Vinyl Acetate
Concen: 5.591 ug/l
RT: 3.20 min Scan# 260
Delta R.T. 0.02 min
Lab File: VF061547.D
Acq: 7 Feb 2019 16:15

Tgt Ion:	43	Resp:	463
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.2	9.4#





#25

2-Butanone

Concen: 4.414 ug/l

RT: 4.30 min Scan# 372

Delta R.T. -0.02 min

Lab File: VF061547.D

Acq: 7 Feb 2019 16:15

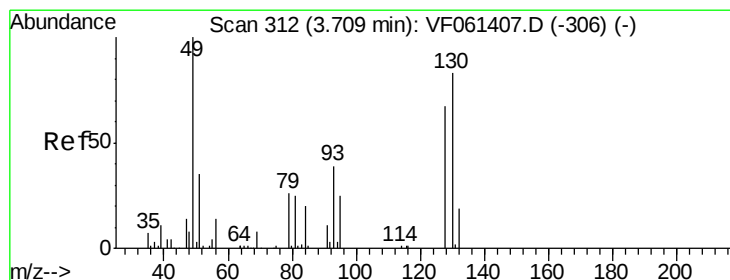
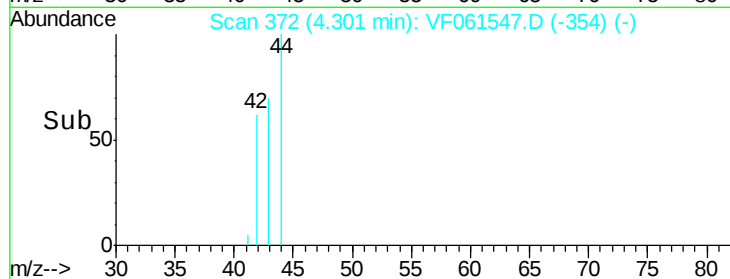
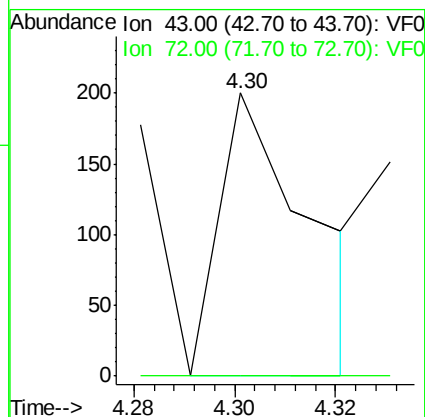
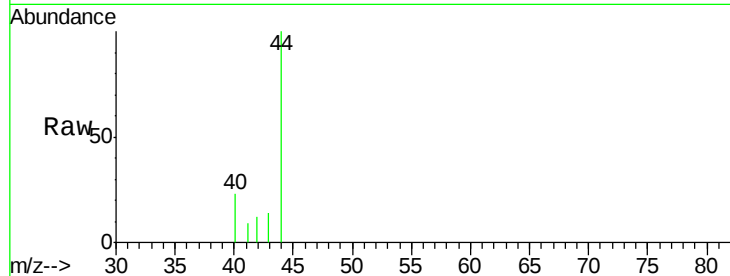
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 249

Ion Ratio Lower Upper

43 100

72 0.0 15.8 23.6#



#28

Bromochloromethane

Concen: 1.276 ug/l

RT: 3.84 min Scan# 325

Delta R.T. 0.13 min

Lab File: VF061547.D

Acq: 7 Feb 2019 16:15

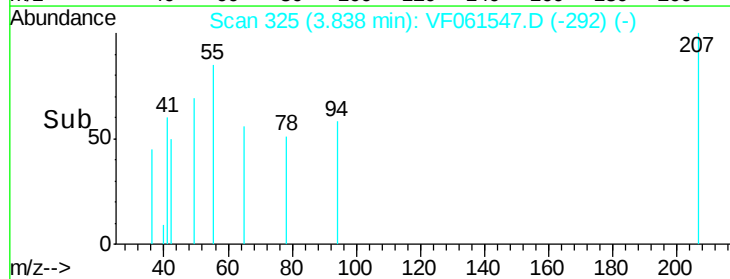
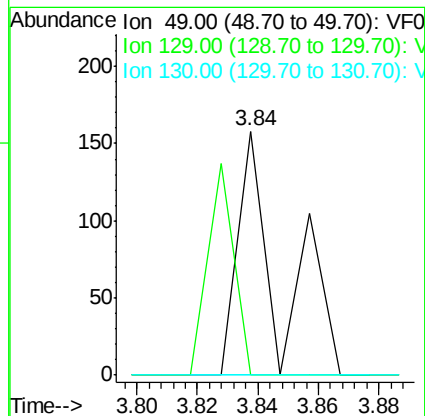
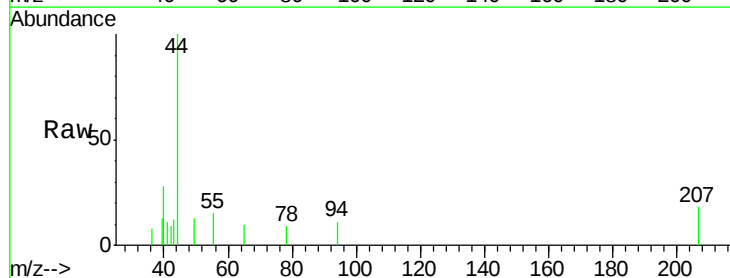
Tgt Ion: 49 Resp: 156

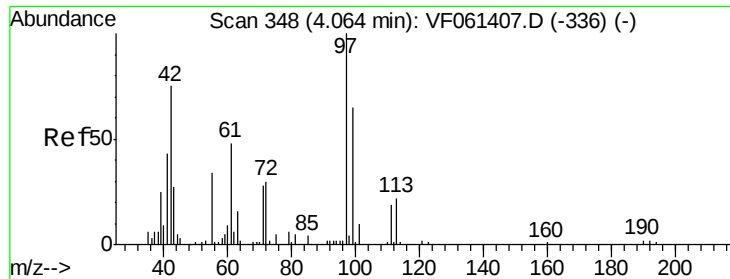
Ion Ratio Lower Upper

49 100

129 0.0 0.0 0.0

130 0.0 65.4 98.2#

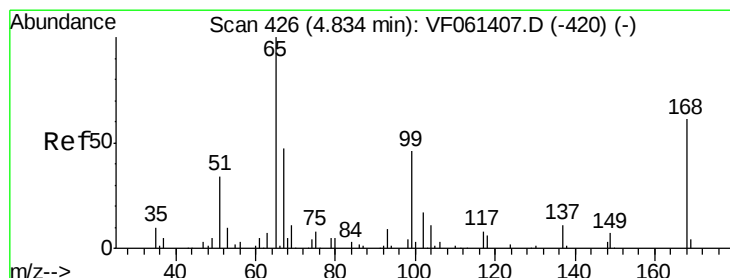
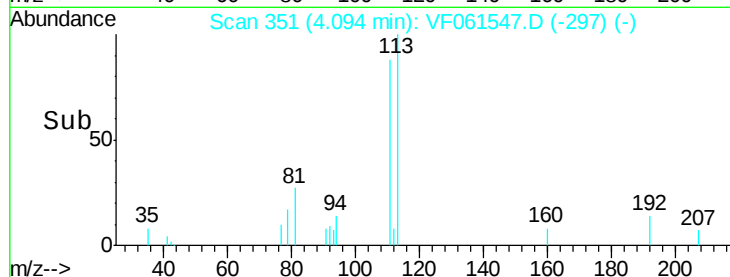
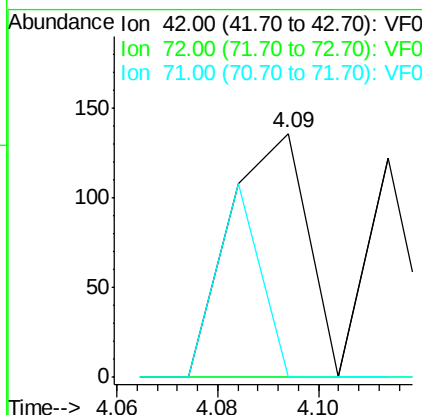
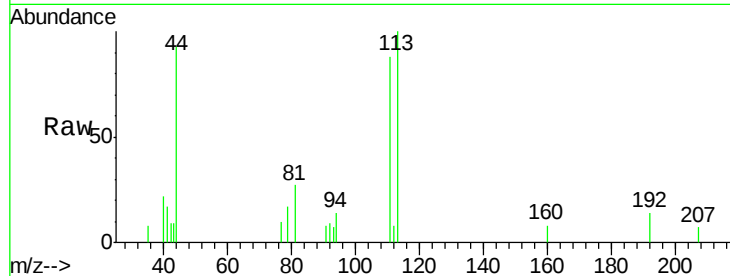




#29
Tetrahydrofuran
Concen: 5.928 ug/l
RT: 4.09 min Scan# 351
Delta R.T. 0.03 min
Lab File: VF061547.D
Acq: 7 Feb 2019 16:15

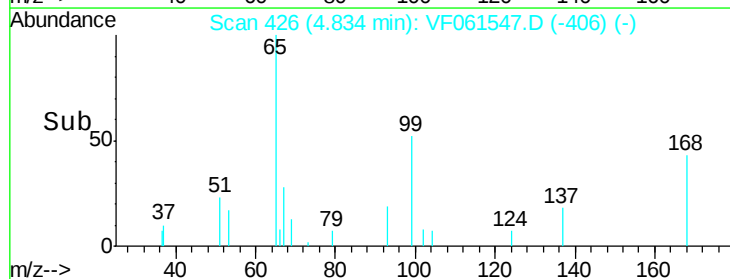
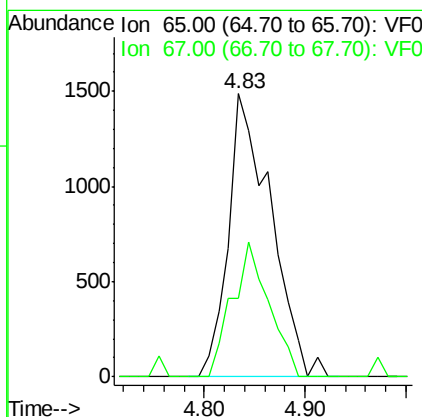
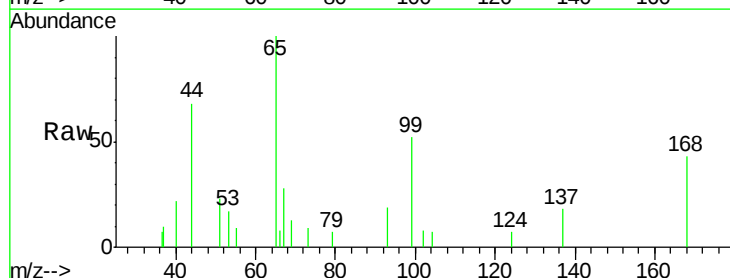
Instrument :
MSVOA_F
ClientSampled :

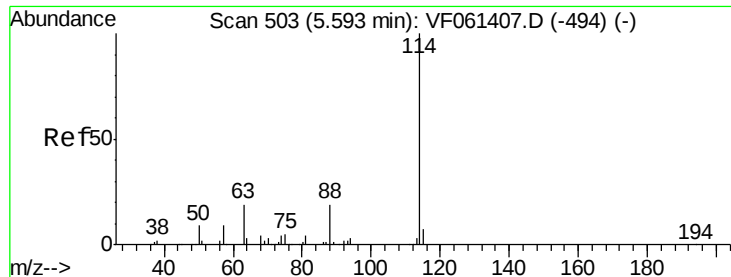
Tot Ion: 42 Resp: 144
Ion Ratio Lower Upper
42 100
72 0.0 28.9 43.3#
71 44.4 29.6 44.4#



#33
1,2-Dichloroethane-d4
Concen: 25.611 ug/l
RT: 4.83 min Scan# 426
Delta R.T. -0.00 min
Lab File: VF061547.D
Acq: 7 Feb 2019 16:15

Tgt Ion: 65 Resp: 4331
Ion Ratio Lower Upper
65 100
67 27.6 0.0 99.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. 0.01 min

Lab File: VF061547.D

Acq: 7 Feb 2019 16:15

Instrument :

MSVOA_F

ClientSampleId :

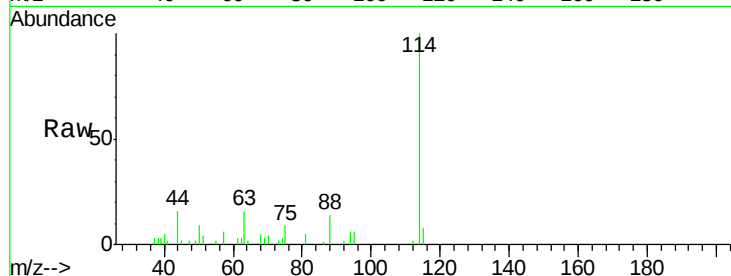
Tot Ion:114 Resp: 19629

Ion Ratio Lower Upper

114 100

63 16.4 0.0 39.0

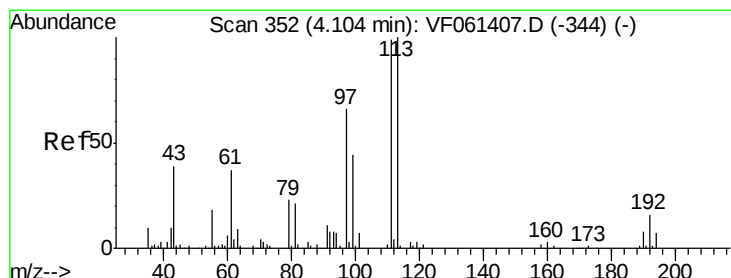
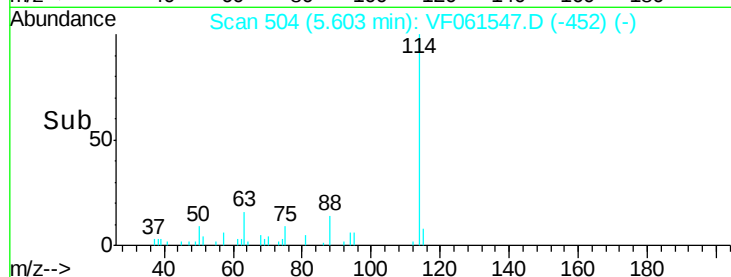
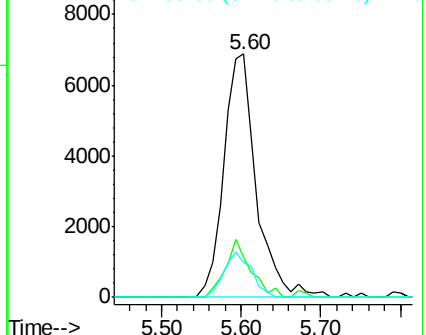
88 14.1 0.0 37.4



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: 37.188 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.00 min

Lab File: VF061547.D

Acq: 7 Feb 2019 16:15

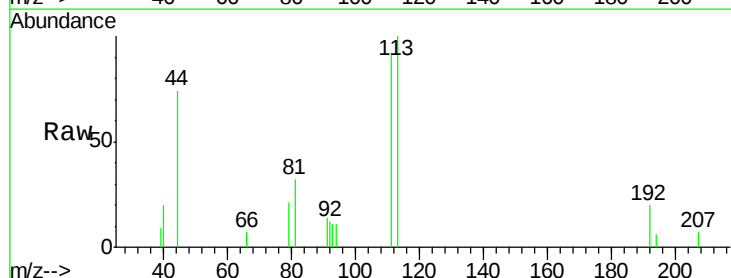
Tgt Ion:113 Resp: 5760

Ion Ratio Lower Upper

113 100

111 91.9 79.4 119.0

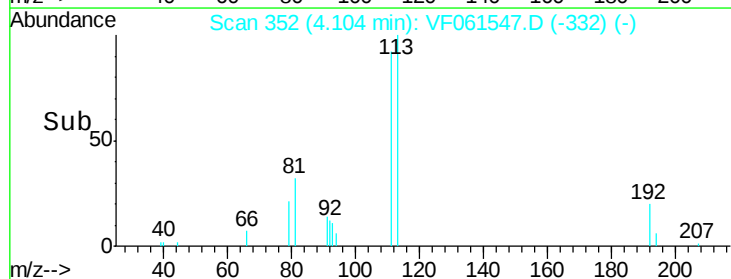
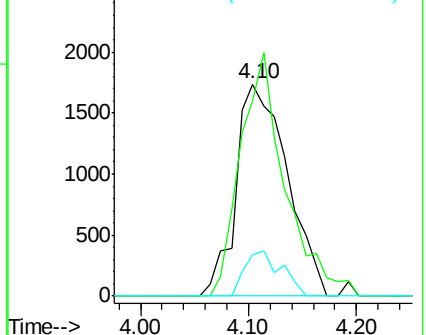
192 19.8 12.4 18.6#

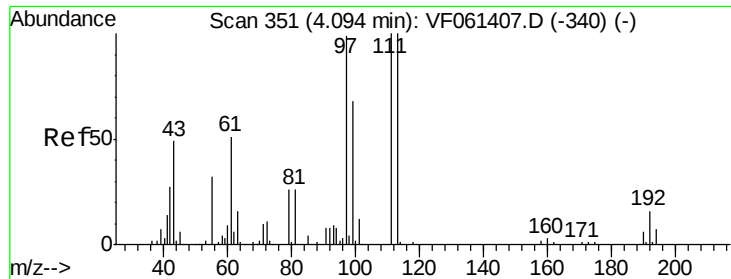


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#37

Ethyl Acetate

Concen: 1.605 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.00 min

Lab File: VF061547.D

Acq: 7 Feb 2019 16:15

Instrument :
MSVOA_F
ClientSampleId :

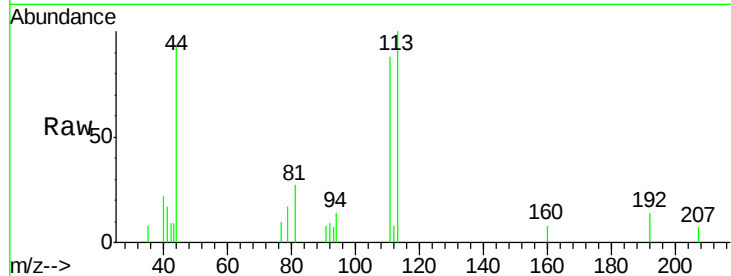
Tot Ion: 43 Resp: 146

Ion Ratio Lower Upper

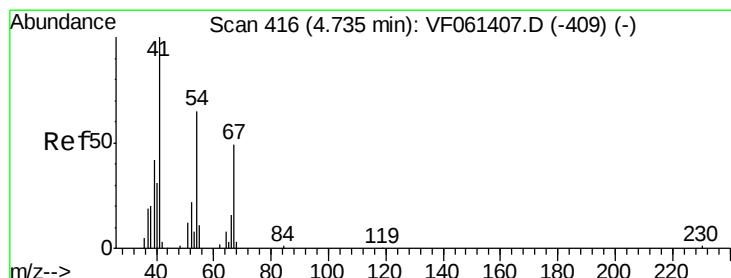
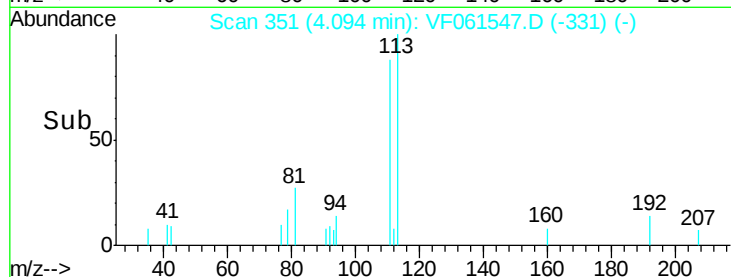
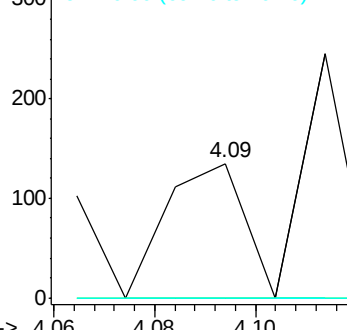
43 100

61 0.0 81.7 122.5#

70 0.0 6.2 9.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0



#41

Methacrylonitrile

Concen: 2.851 ug/l

RT: 4.71 min Scan# 413

Delta R.T. -0.03 min

Lab File: VF061547.D

Acq: 7 Feb 2019 16:15

Tgt Ion: 41 Resp: 138

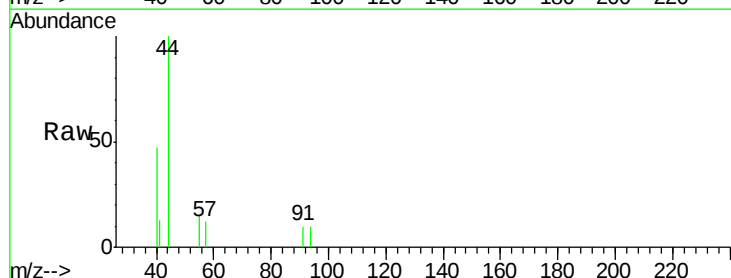
Ion Ratio Lower Upper

41 100

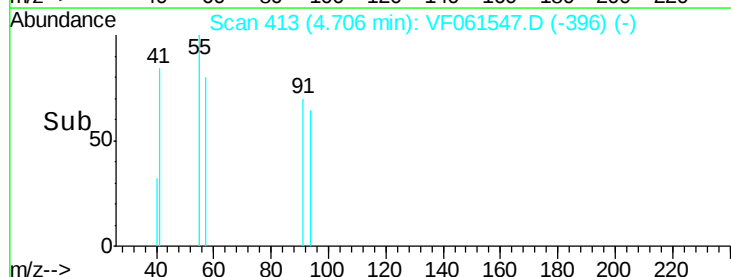
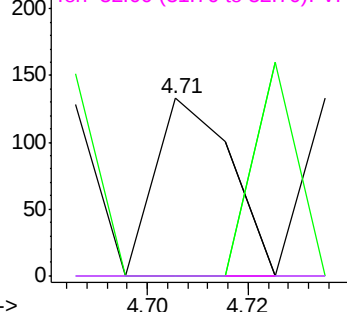
39 0.0 43.1 64.7#

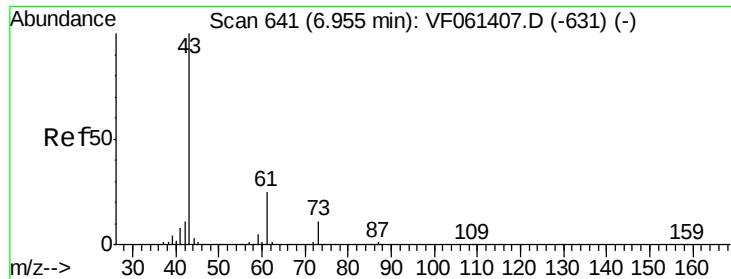
67 0.0 38.8 58.2#

52 0.0 33.2 49.8#



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0



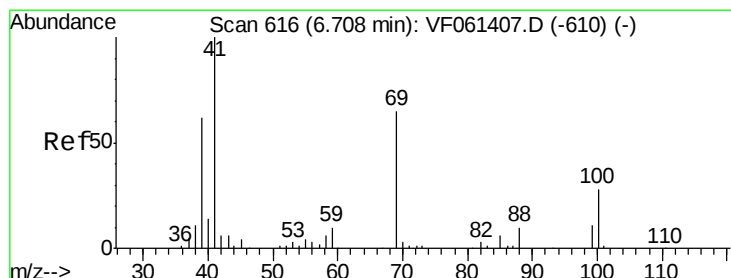
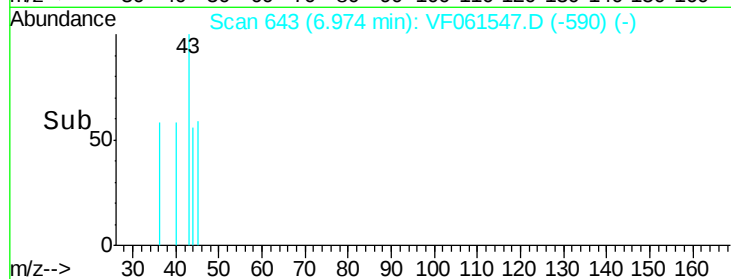
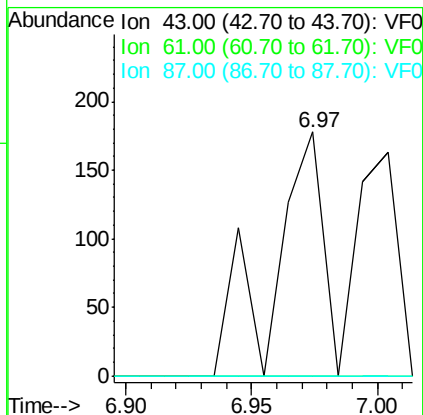
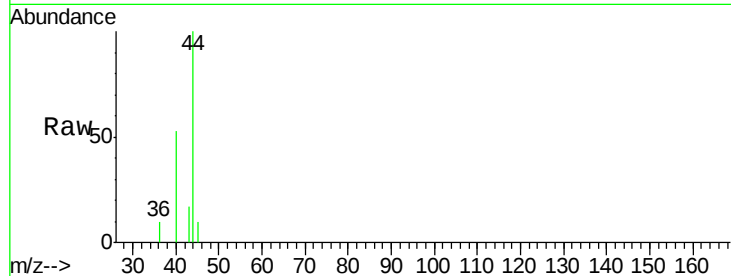


#43

Isopropyl Acetate
 Concen: 2.137 ug/l
 RT: 6.97 min Scan# 643
 Delta R.T. 0.02 min
 Lab File: VF061547.D
 Acq: 7 Feb 2019 16:15

Instrument :
 MSVOA_F
 ClientSampled :

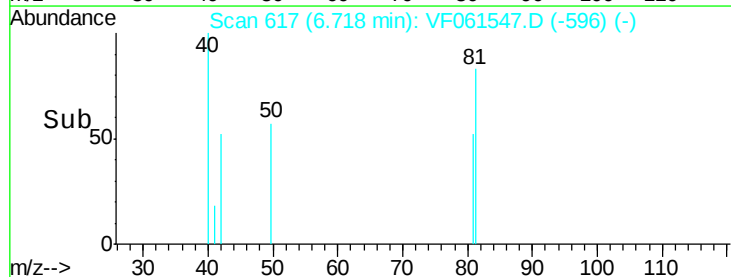
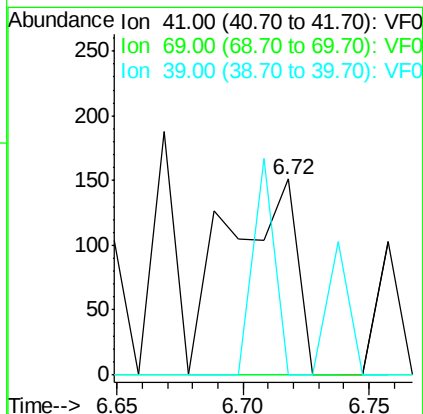
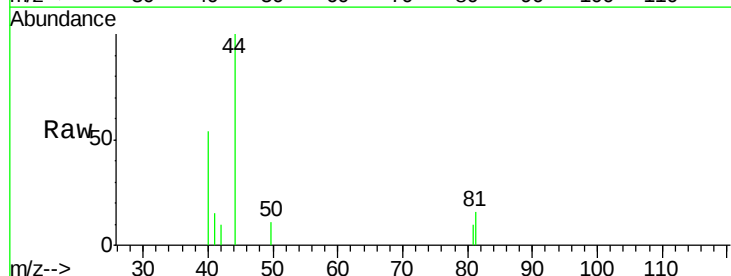
Tot Ion: 43 Resp: 244
 Ion Ratio Lower Upper
 43 100
 61 0.0 20.3 30.5#
 87 0.0 0.5 0.7#

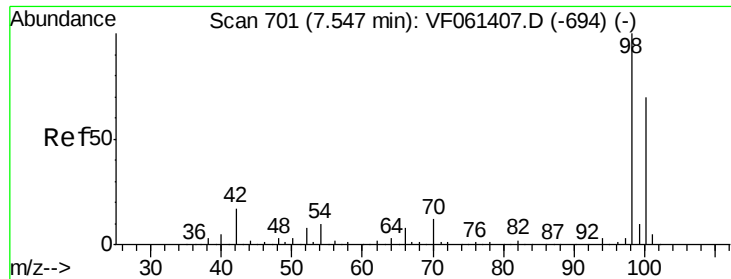


#48

Methyl methacrylate
 Concen: 3.756 ug/l
 RT: 6.72 min Scan# 617
 Delta R.T. 0.01 min
 Lab File: VF061547.D
 Acq: 7 Feb 2019 16:15

Tgt Ion: 41 Resp: 288
 Ion Ratio Lower Upper
 41 100
 69 0.0 51.7 77.5#
 39 0.0 49.2 73.8#





#50

Toluene-d8

Concen: 46.163 ug/l

RT: 7.56 min Scan# 702

Delta R.T. 0.01 min

Lab File: VF061547.D

Acq: 7 Feb 2019 16:15

Instrument :

MSVOA_F

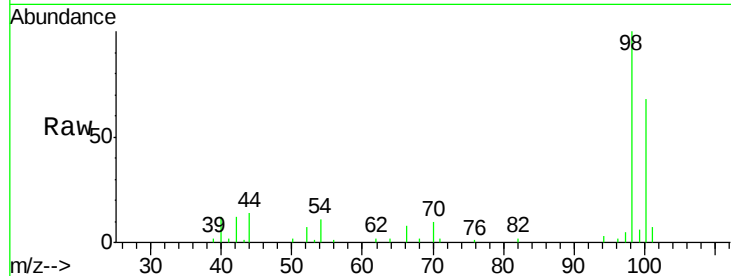
ClientSampleId :

Tot Ion: 98 Resp: 19590

Ion Ratio Lower Upper

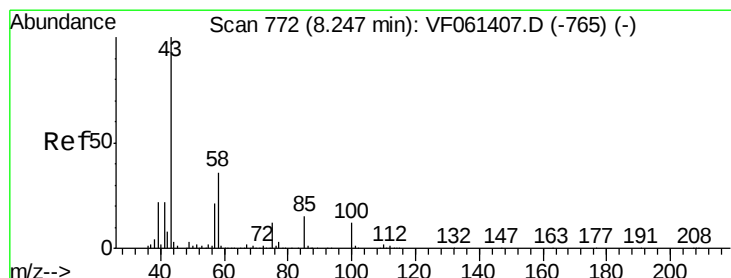
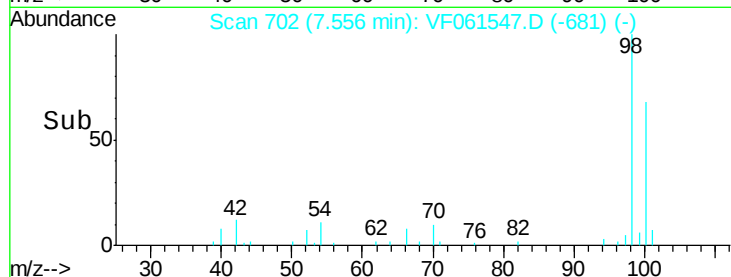
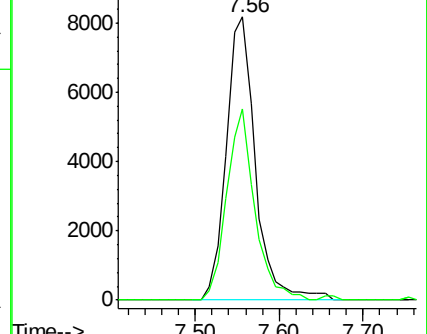
98 100

100 67.7 55.6 83.4



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: 5.849 ug/l

RT: 8.23 min Scan# 770

Delta R.T. -0.02 min

Lab File: VF061547.D

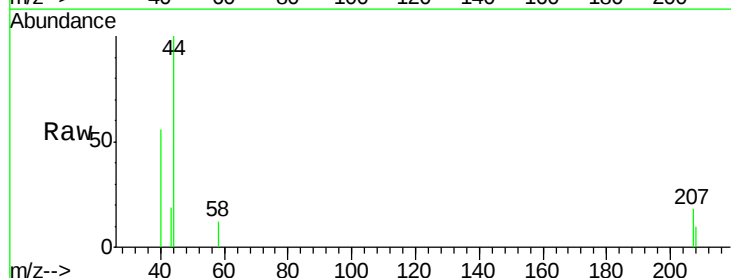
Acq: 7 Feb 2019 16:15

Tgt Ion: 43 Resp: 491

Ion Ratio Lower Upper

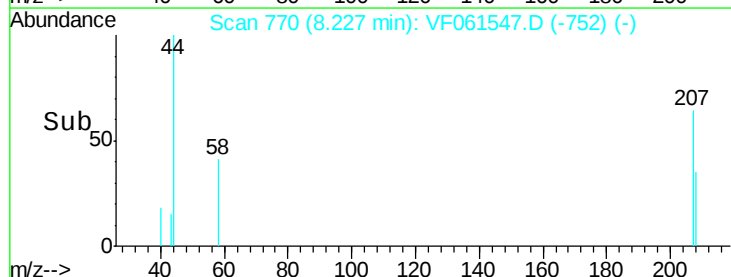
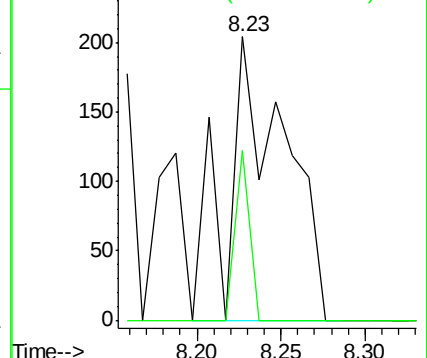
43 100

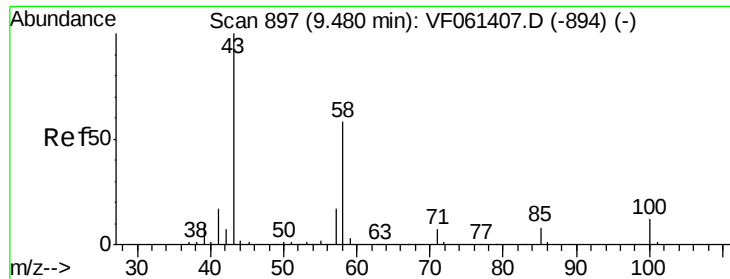
58 59.8 28.8 43.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

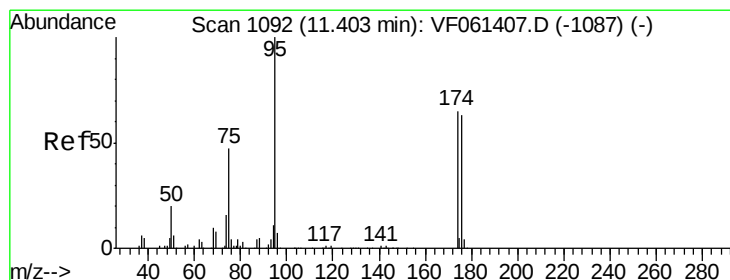
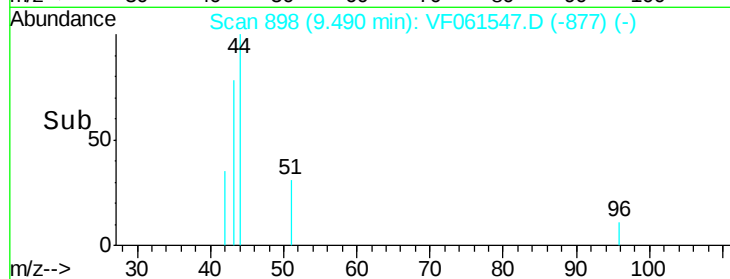
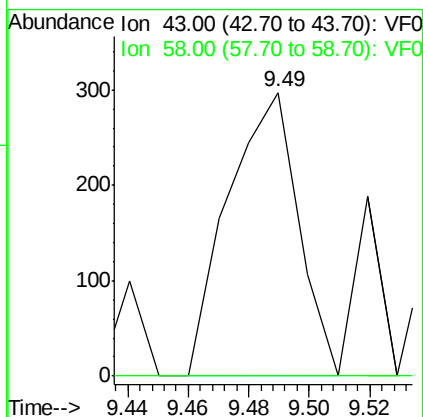
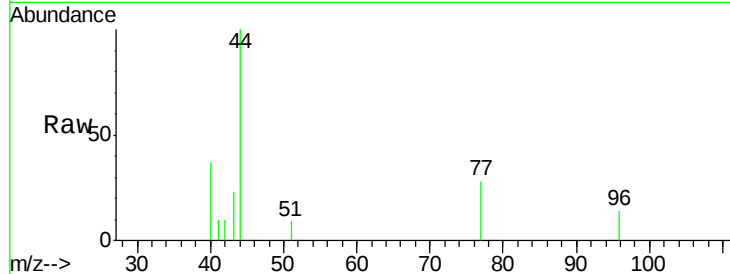




#59
2-Hexanone
Concen: 8.218 ug/l
RT: 9.49 min Scan# 898
Delta R.T. 0.01 min
Lab File: VF061547.D
Acq: 7 Feb 2019 16:15

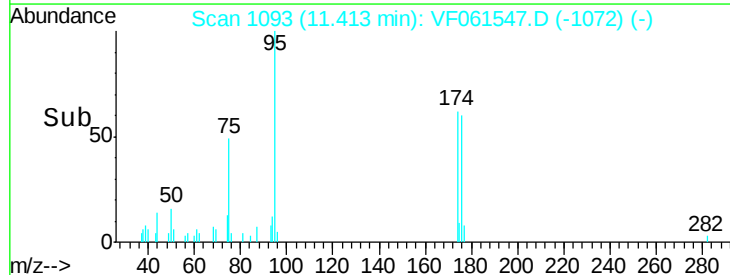
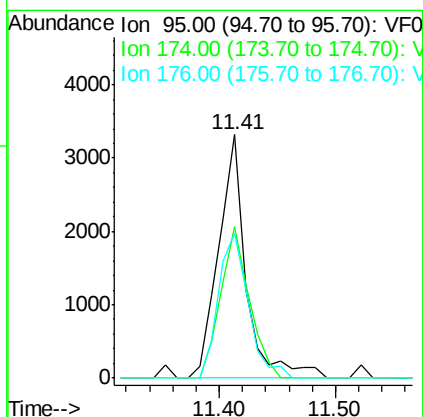
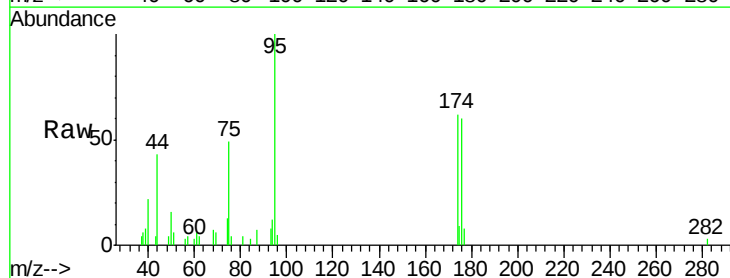
Instrument :
MSVOA_F
ClientSampleId :

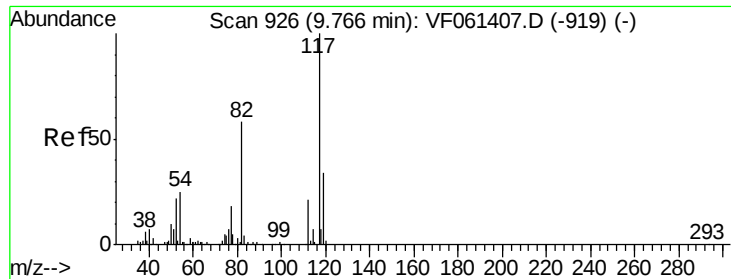
Tot Ion: 43 Resp: 481
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.6#



#62
4-Bromofluorobenzene
Concen: 27.462 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. 0.01 min
Lab File: VF061547.D
Acq: 7 Feb 2019 16:15

Tgt Ion: 95 Resp: 5445
Ion Ratio Lower Upper
95 100
174 62.2 0.0 130.4
176 59.8 0.0 126.2

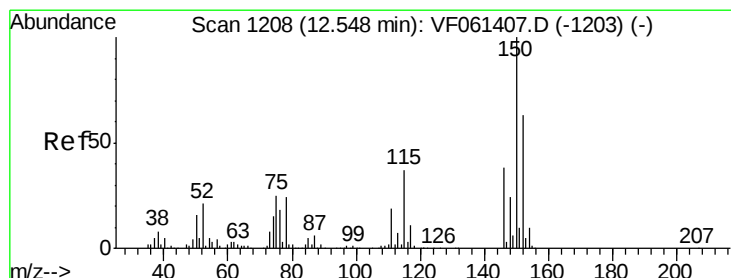
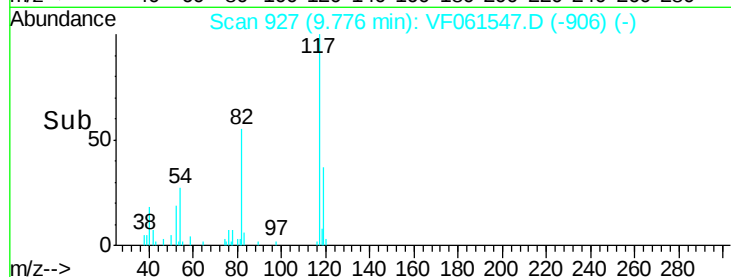
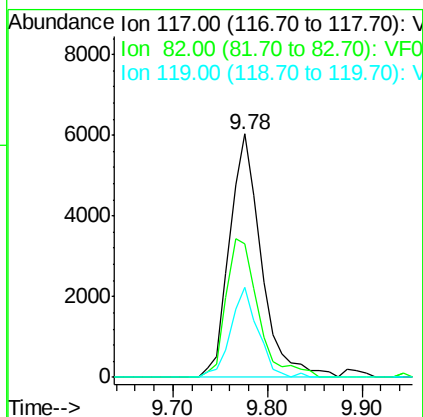
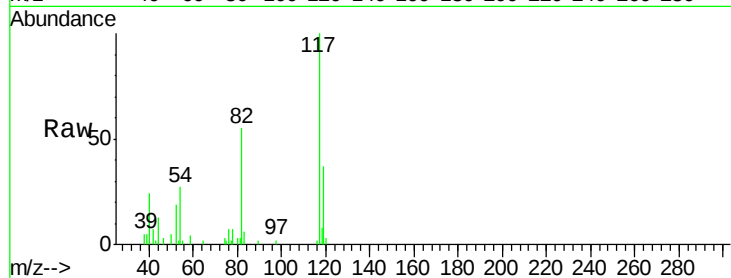




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 927
Delta R.T. 0.01 min
Lab File: VF061547.D
Acq: 7 Feb 2019 16:15

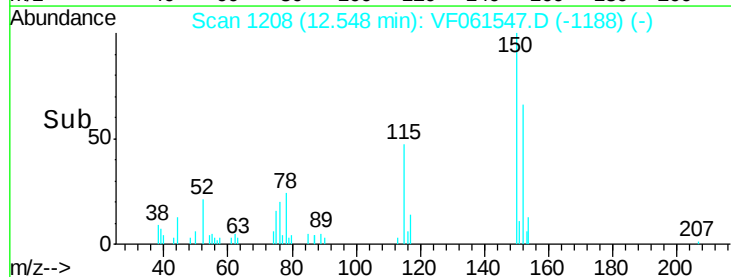
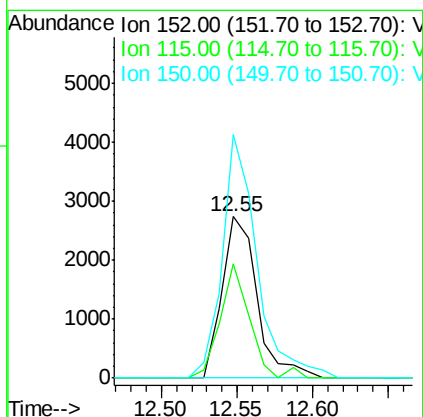
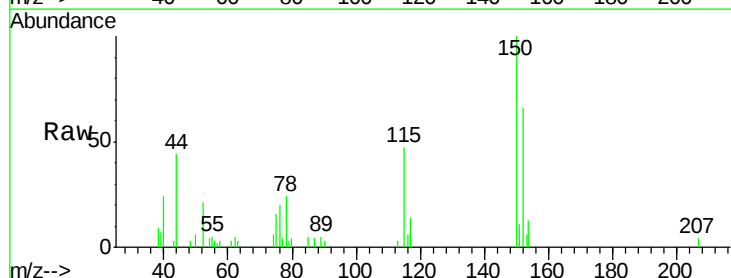
Instrument :
MSVOA_F
ClientSampleId :

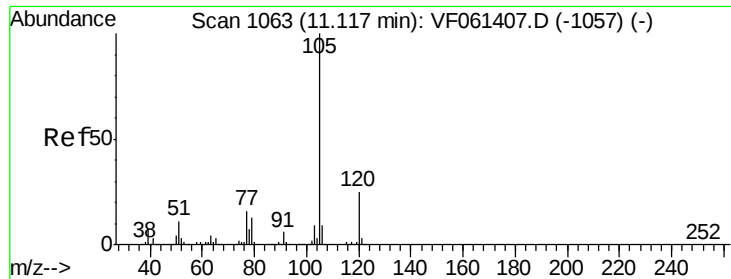
Tot Ion:117 Resp: 14113
Ion Ratio Lower Upper
117 100
82 54.7 46.4 69.6
119 36.8 27.2 40.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1208
Delta R.T. -0.00 min
Lab File: VF061547.D
Acq: 7 Feb 2019 16:15

Tgt Ion:152 Resp: 4418
Ion Ratio Lower Upper
152 100
115 70.6 30.0 90.0
150 150.8 0.0 321.4





#73

Isopropylbenzene

Concen: 3.534 ug/l

RT: 11.13 min Scan# 1064

Delta R.T. 0.01 min

Lab File: VF061547.D

Acq: 7 Feb 2019 16:15

Instrument :

MSVOA_F

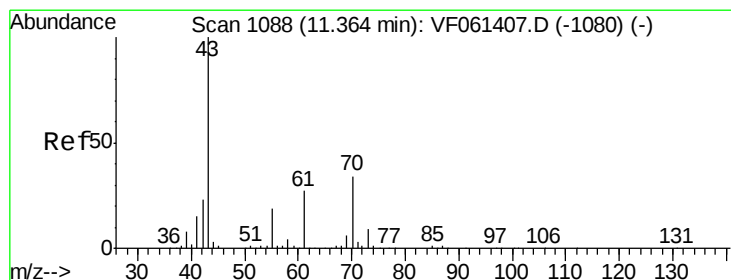
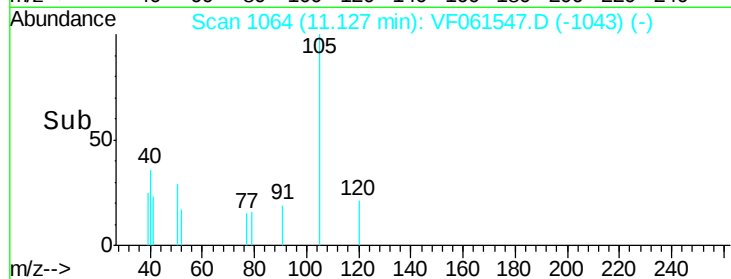
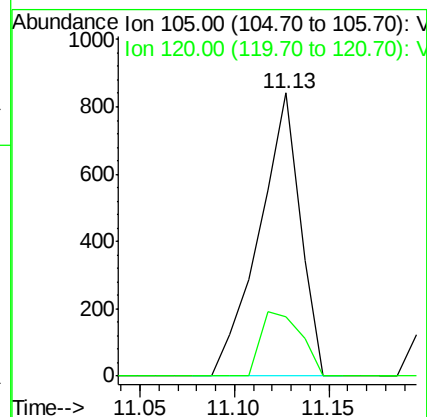
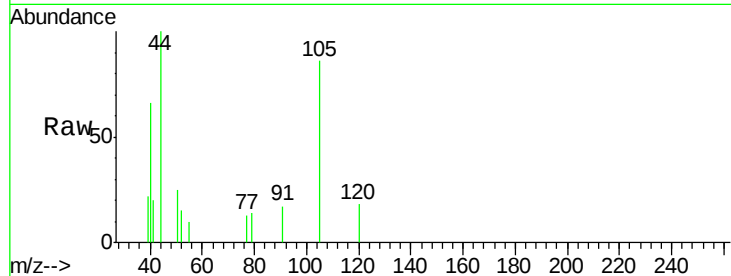
ClientSampled :

Tot Ion: 105 Resp: 1270

Ion Ratio Lower Upper

105 100

120 20.9 12.6 37.8



#74

N-ethyl acetate

Concen: 2.954 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. 0.02 min

Lab File: VF061547.D

Acq: 7 Feb 2019 16:15

Tgt Ion: 43 Resp: 251

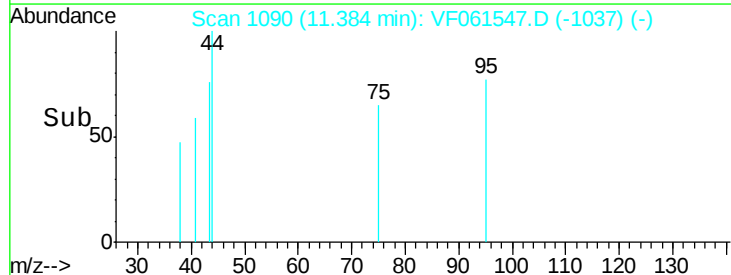
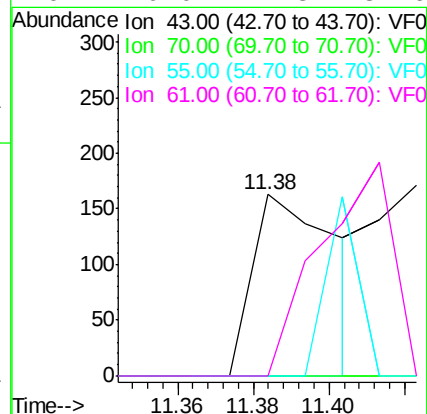
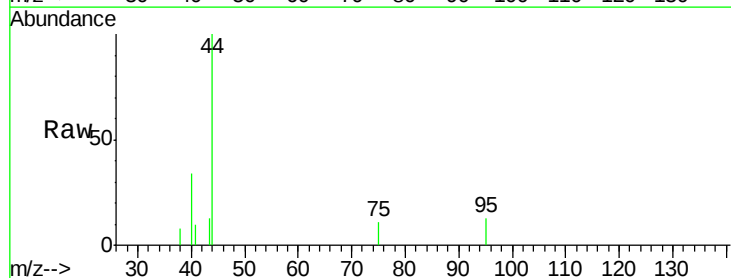
Ion Ratio Lower Upper

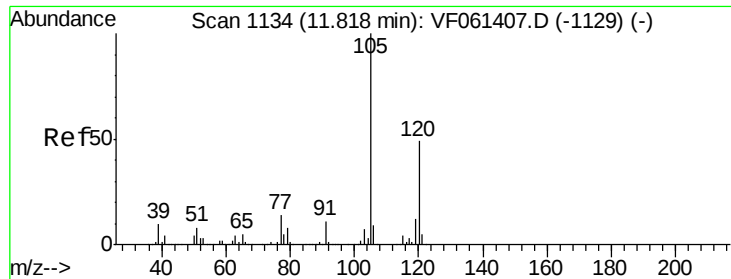
43 100

70 0.0 27.6 41.4#

55 0.0 15.4 23.2#

61 0.0 21.8 32.6#





#80

1,3,5-Trimethylbenzene

Concen: 2.431 ug/l

RT: 11.83 min Scan# 1135

Delta R.T. 0.01 min

Lab File: VF061547.D

Acq: 7 Feb 2019 16:15

Instrument :

MSVOA_F

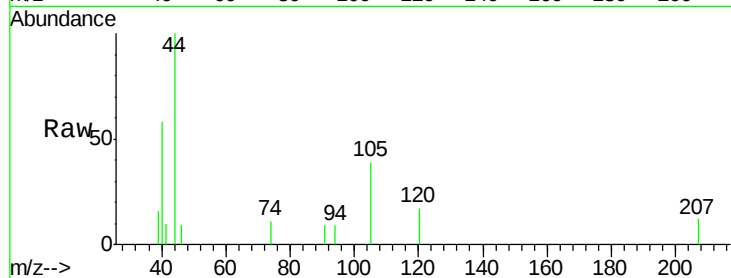
ClientSampled :

Tot Ion:105 Resp: 705

Ion Ratio Lower Upper

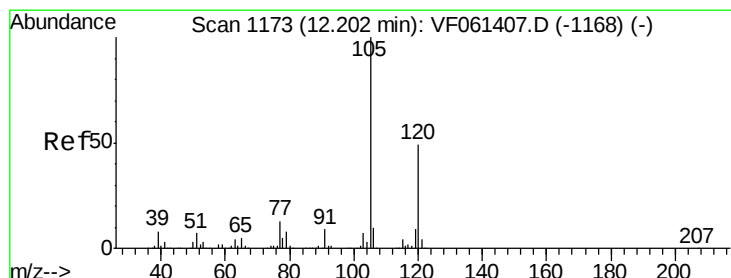
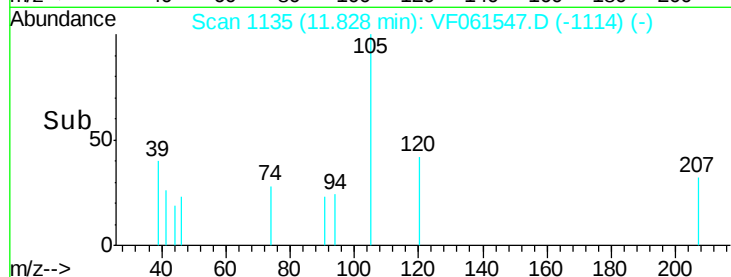
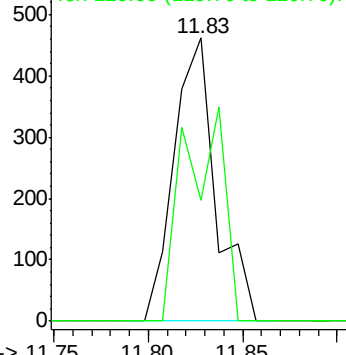
105 100

120 42.4 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#84

1,2,4-Trimethylbenzene

Concen: 4.878 ug/l

RT: 12.20 min Scan# 1173

Delta R.T. -0.00 min

Lab File: VF061547.D

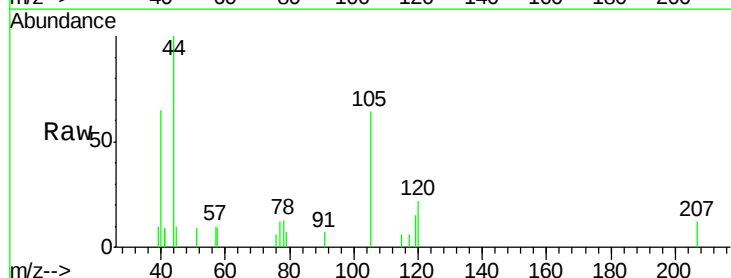
Acq: 7 Feb 2019 16:15

Tgt Ion:105 Resp: 1457

Ion Ratio Lower Upper

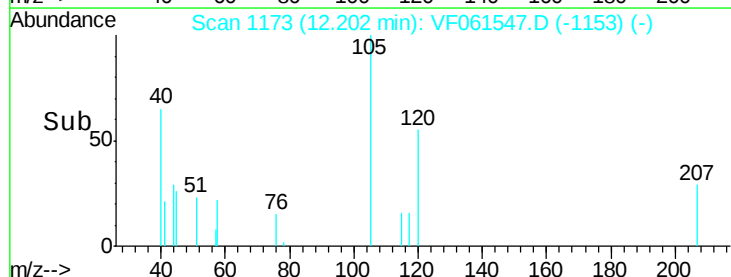
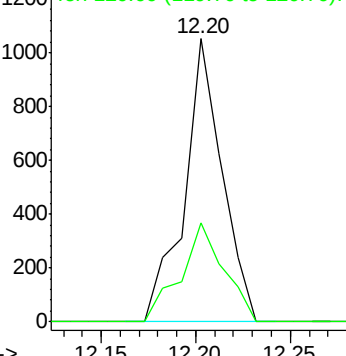
105 100

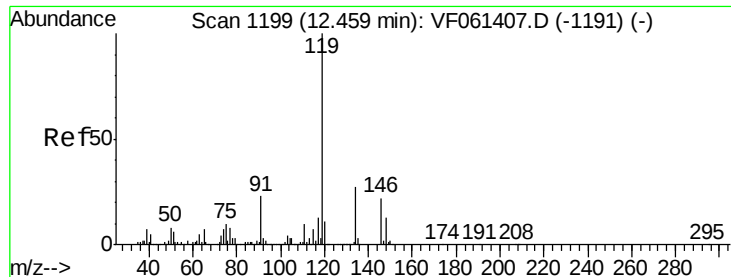
120 35.0 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

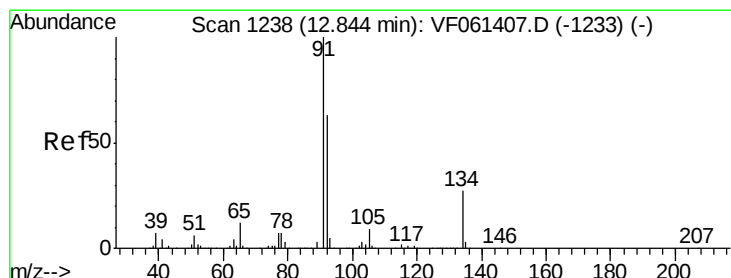
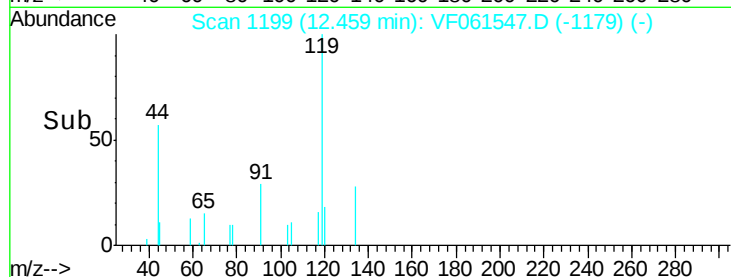
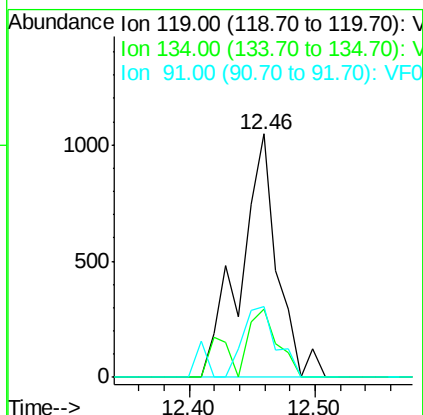
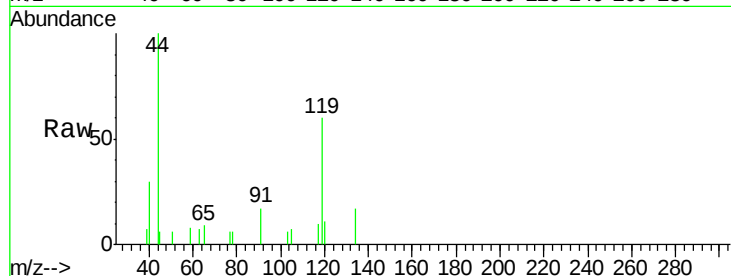




#86
 p-Isopropyltoluene
 Concen: 6.363 ug/l
 RT: 12.46 min Scan# 1199
 Delta R.T. -0.00 min
 Lab File: VF061547.D
 Acq: 7 Feb 2019 16:15

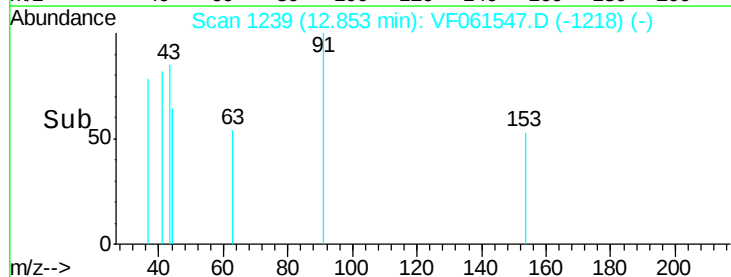
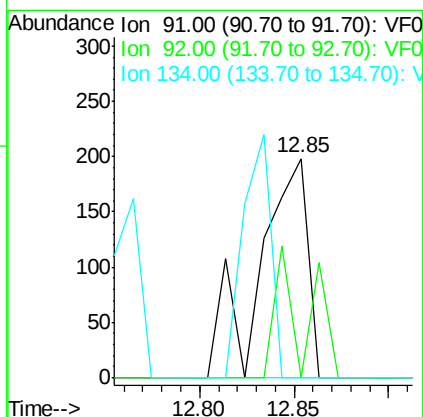
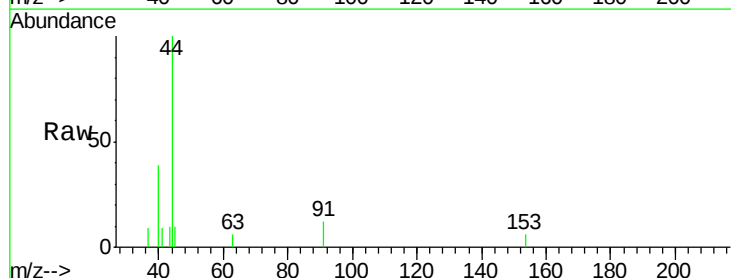
Instrument :
 MSVOA_F
 ClientSampleID :

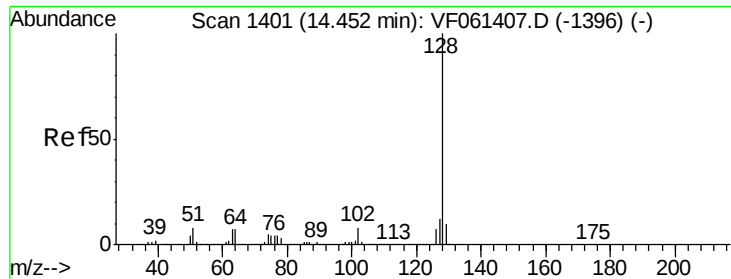
Tot Ion	Ratio	Lower	Upper
119	100		
134	28.2	13.4	40.2
91	29.2	11.4	34.2



#89
 n-Butylbenzene
 Concen: 1.020 ug/l
 RT: 12.85 min Scan# 1239
 Delta R.T. 0.01 min
 Lab File: VF061547.D
 Acq: 7 Feb 2019 16:15

Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	31.6	94.7#
134	0.0	13.6	40.8#

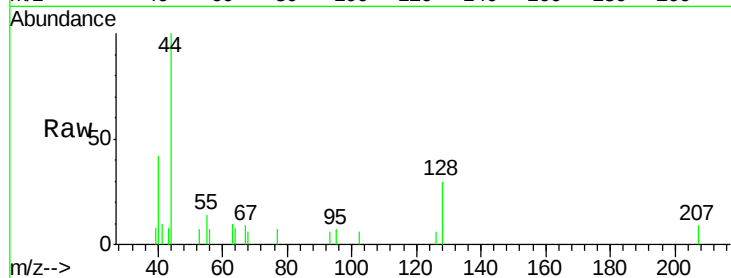




#95
Naphthalene
Concen: 4.419 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. -0.00 min
Lab File: VF061547.D
Acq: 7 Feb 2019 16:15

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	9.5	14.3#
129	0.0	8.4	12.6#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

