

Data File : VU029314.D
Acq On : 30 Jan 2019 14:23
Operator : JC/SP
Sample : K1161-10
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
PT-ADD-WS

Quant Time: Jan 31 06:22:56 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U012919DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Wed Jan 30 09:13:14 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	5.74	96	8321	1.00	ug/l	0.00

System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	2214	0.68	ug/l	0.00
Spiked Amount 1.000			Recovery	=	68.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	2643	0.82	ug/l	0.00
Spiked Amount 1.000			Recovery	=	82.00%	

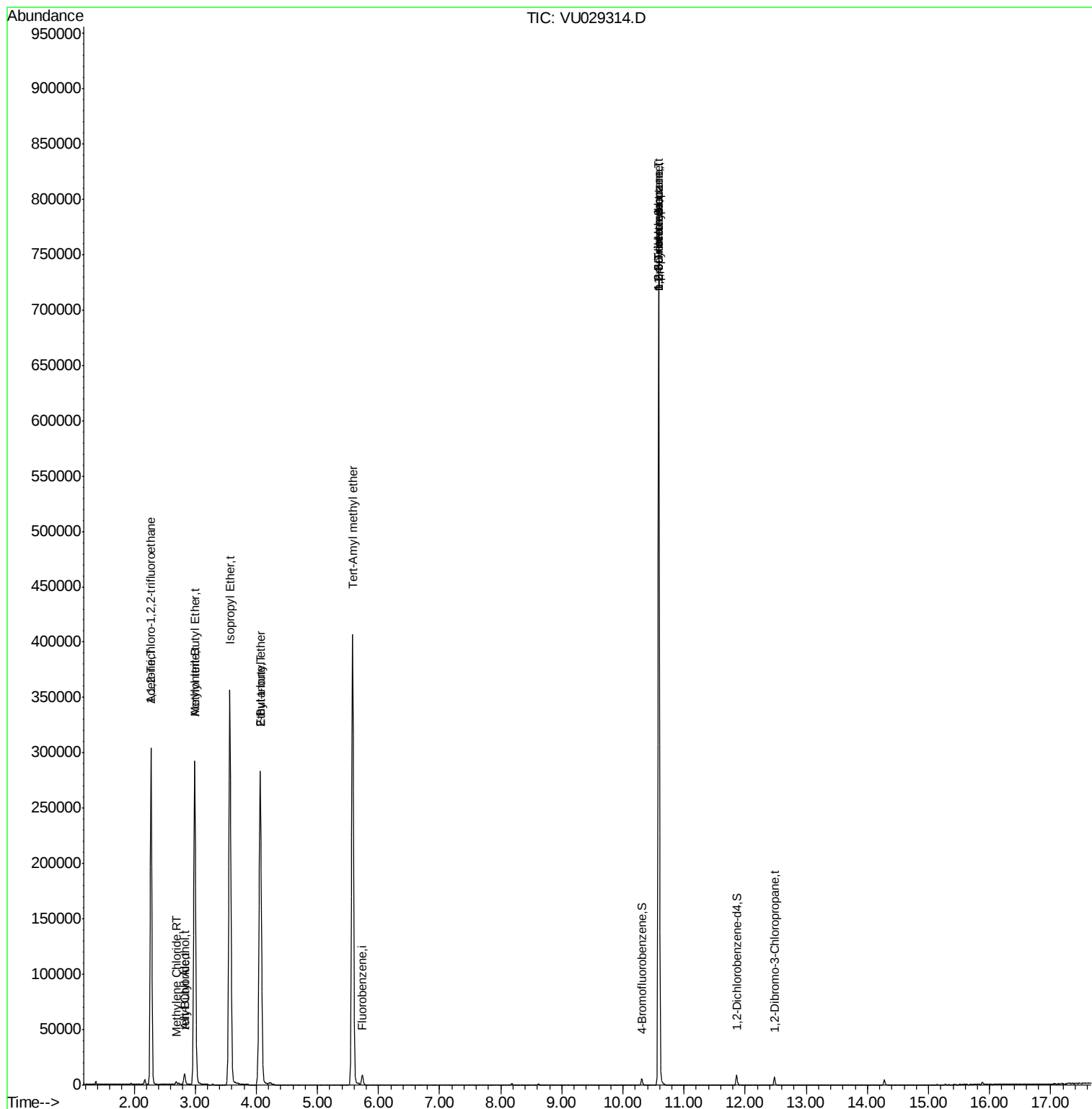
Target Compounds						Qvalue
8) 1,1,2-Trichloro-1,2,2-trif	2.28	101	106112	42.737	ug/l	98
11) Allyl Chloride	2.82	41	2758	0.507	ug/l #	60
12) Acrylonitrile	2.99	53	3590	5.189	ug/l #	25
13) Acetone	2.28	43	2150	2.510	ug/l #	76
15) Methylene Chloride	2.69	84	985	0.324	ug/l	85
18) 2-Butanone	4.06	43	41556	47.252	ug/l #	1
24) tert-Butyl Alcohol	2.83	59	10140	35.025	ug/l #	71
25) Methyl tert-Butyl Ether	2.99	73	285217	36.553	ug/l	99
31) Isopropyl Ether	3.57	45	348643	42.540	ug/l	98
32) Ethyl-t-butyl ether	4.06	59	315449	41.923	ug/l	99
33) Tert-Amyl methyl ether	5.58	73	317887	49.758	ug/l	98
46) t-1,4-Dichloro-2-butene	10.58	75	4436	6.566	ug/l #	1
71) 1,2,3-Trichloropropane	10.58	75	4436	2.059	ug/l #	49
73) n-propylbenzene	10.58	120	120726	38.466	ug/l	99
75) 1,3,5-Trimethylbenzene	10.58	105	20037	1.938	ug/l #	1
86) 1,2-Dibromo-3-Chloropropan	12.47	75	149	0.320	ug/l #	11

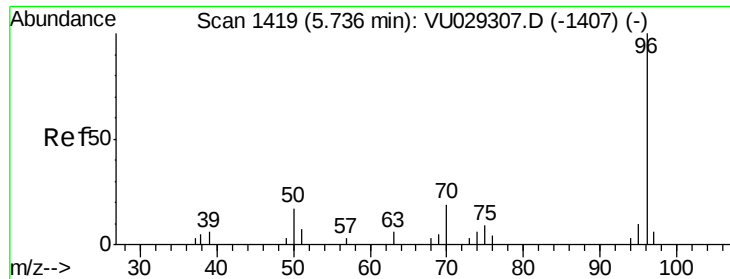
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
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#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1419

Delta R.T. -0.00 min

Lab File: VU029314.D

Acq: 30 Jan 2019 14:23

Instrument :

MSVOA_U

ClientSampleId :

PT-ADD-WS

Tgt Ion: 96 Resp: 8321

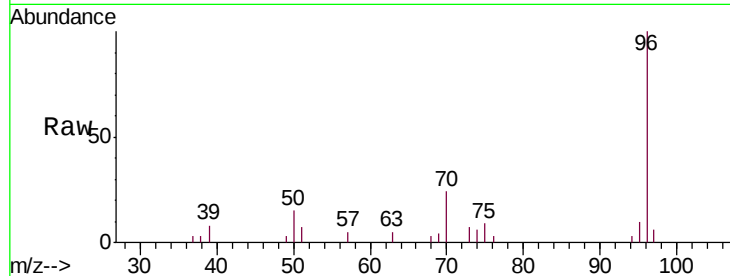
Ion Ratio Lower Upper

96 100

70 20.8 16.2 24.2

95 8.6 7.4 11.2

97 4.6 0.0 0.0#

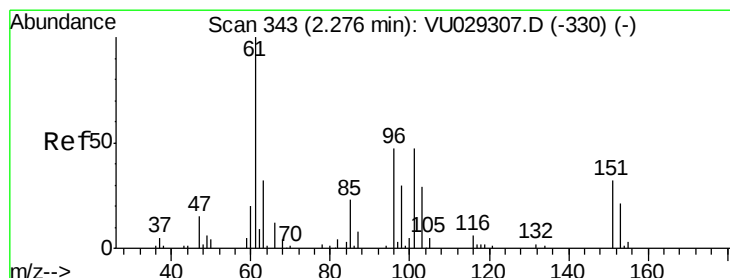
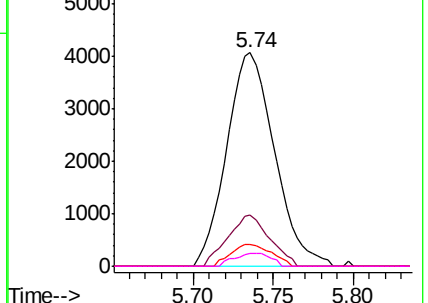
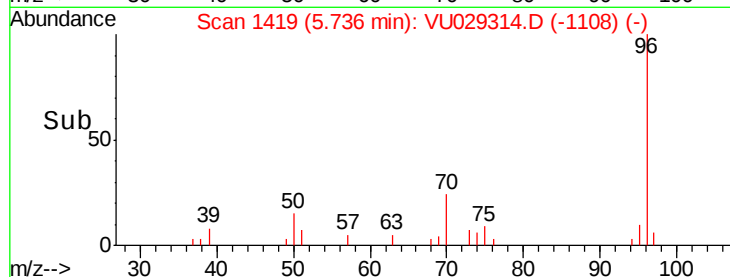


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0



#8

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 42.737 ug/l

RT: 2.28 min Scan# 343

Delta R.T. -0.00 min

Lab File: VU029314.D

Acq: 30 Jan 2019 14:23

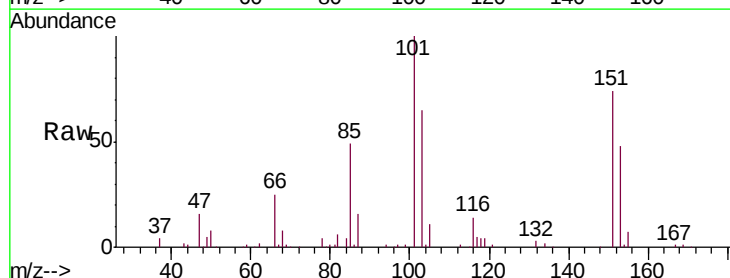
Tgt Ion: 101 Resp: 106112

Ion Ratio Lower Upper

101 100

85 49.7 40.3 60.5

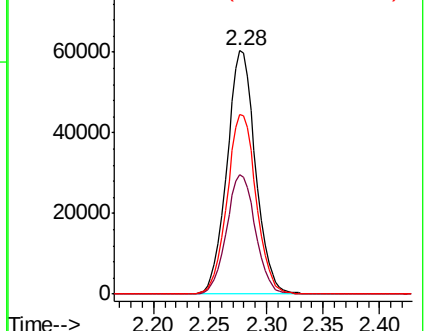
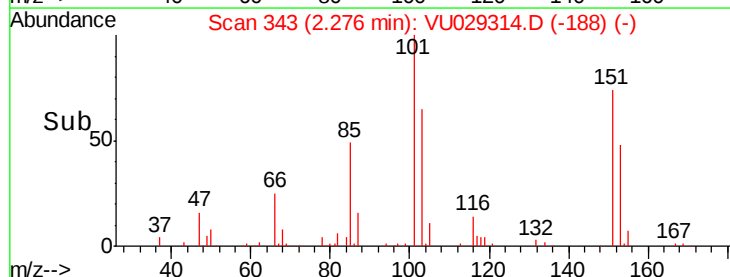
151 75.1 58.1 87.1

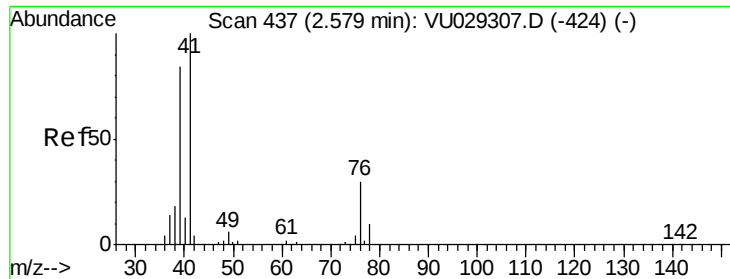


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V

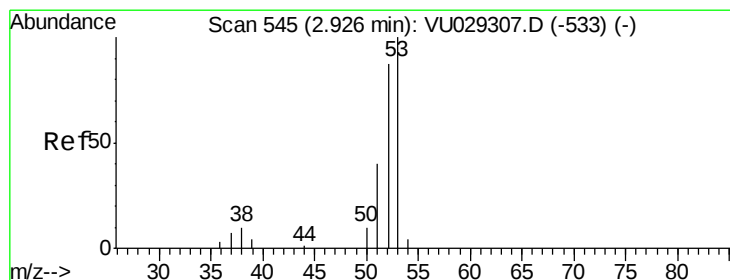
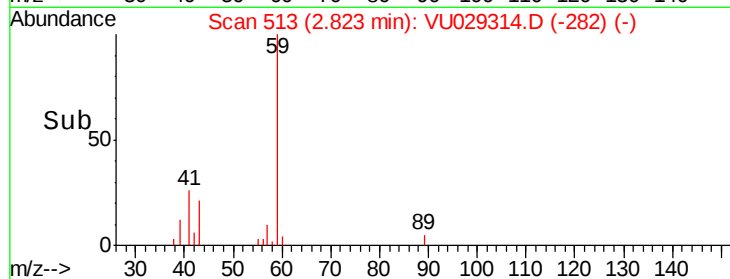
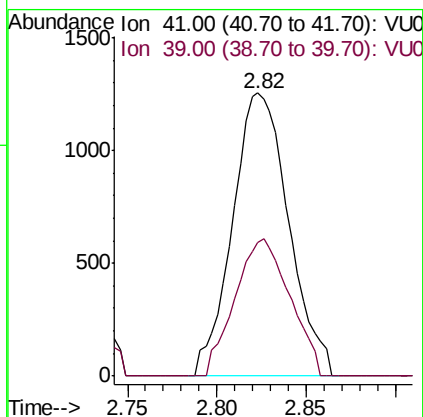
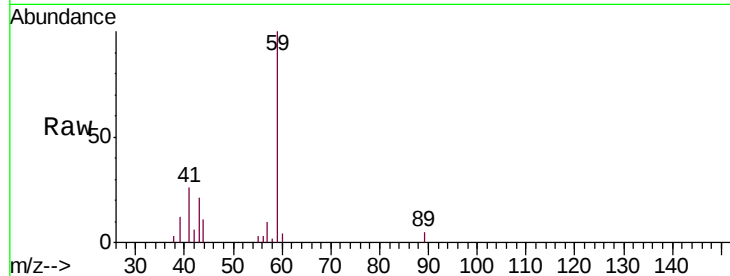




#11
 Allyl Chloride
 Concen: 0.507 ug/l
 RT: 2.82 min Scan# 513
 Delta R.T. 0.24 min
 Lab File: VU029314.D
 Acq: 30 Jan 2019 14:23

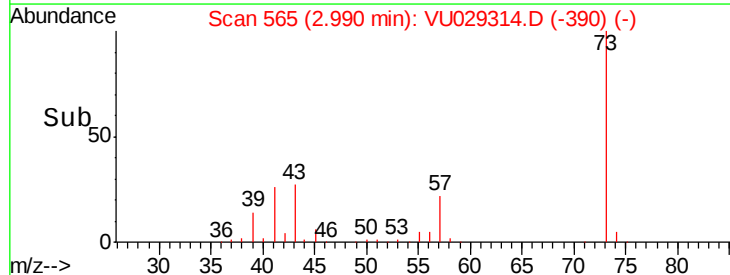
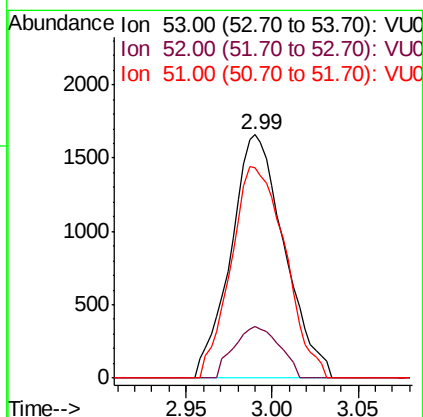
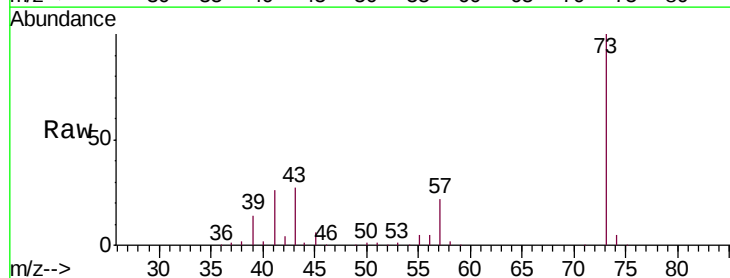
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-ADD-WS

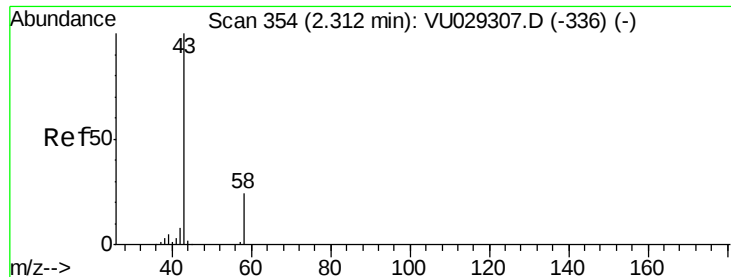
Tgt Ion: 41 Resp: 2758
 Ion Ratio Lower Upper
 41 100
 39 47.4 67.2 100.8#



#12
 Acrylonitrile
 Concen: 5.189 ug/l
 RT: 2.99 min Scan# 565
 Delta R.T. 0.06 min
 Lab File: VU029314.D
 Acq: 30 Jan 2019 14:23

Tgt Ion: 53 Resp: 3590
 Ion Ratio Lower Upper
 53 100
 52 18.1 67.6 101.4#
 51 87.7 31.0 46.4#





#13

Acetone

Concen: 2.510 ug/l

RT: 2.28 min Scan# 343

Delta R.T. -0.04 min

Lab File: VU029314.D

Acq: 30 Jan 2019 14:23

Instrument :

MSVOA_U

ClientSampleId :

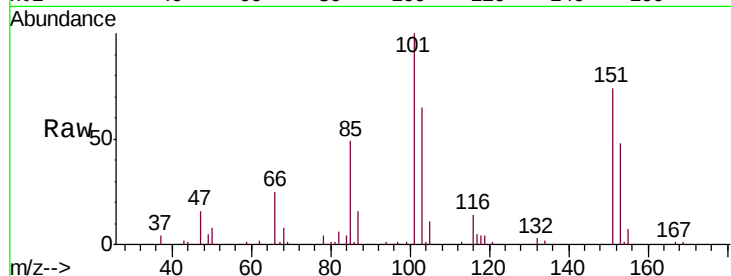
PT-ADD-WS

Tgt Ion: 43 Resp: 2150

Ion Ratio Lower Upper

43 100

58 12.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2.28

1200

1000

800

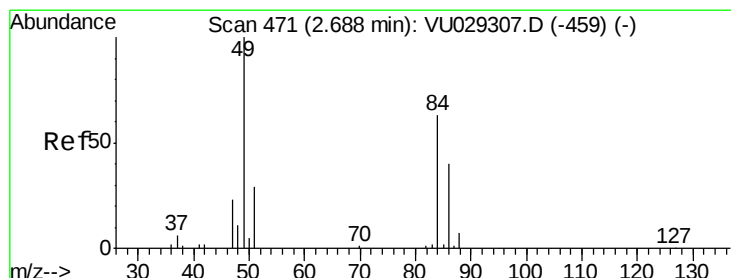
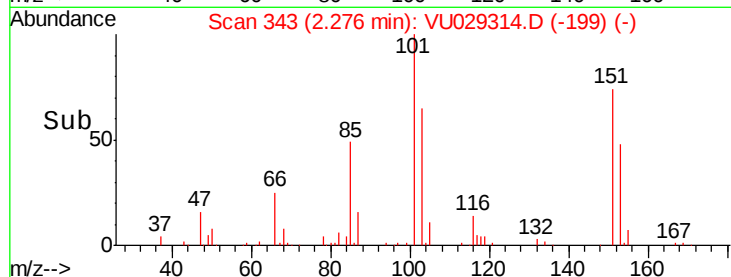
600

400

200

0

Time-->



#15

Methylene Chloride

Concen: 0.324 ug/l

RT: 2.69 min Scan# 471

Delta R.T. -0.00 min

Lab File: VU029314.D

Acq: 30 Jan 2019 14:23

Tgt Ion: 84 Resp: 985

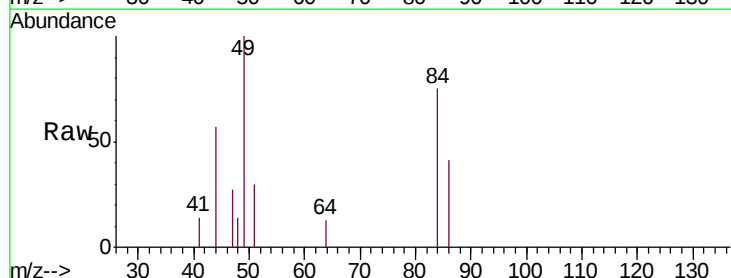
Ion Ratio Lower Upper

84 100

49 133.7 127.0 190.6

51 40.6 0.0 93.4

86 54.8 50.6 75.8



Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 49.00 (48.70 to 49.70): VU0

Ion 51.00 (50.70 to 51.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

1200

1000

800

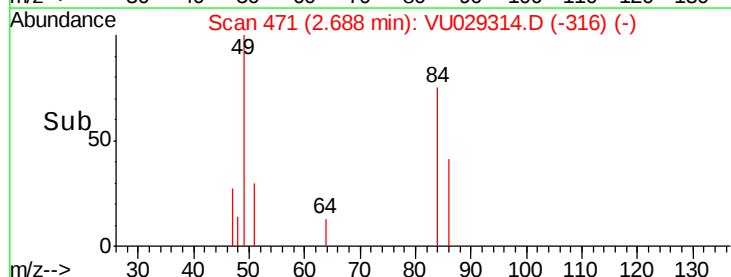
600

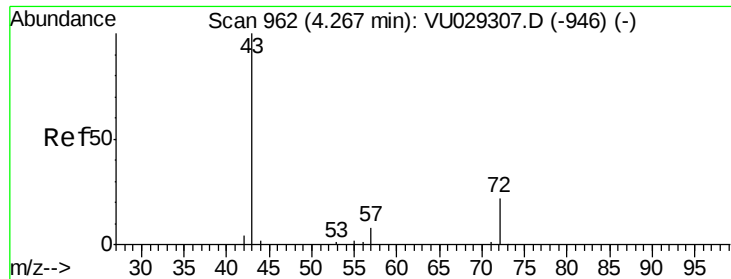
400

200

0

Time-->

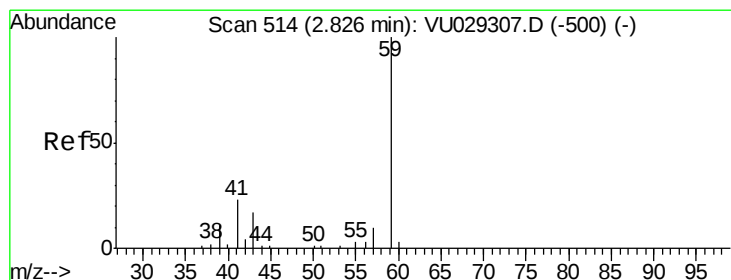
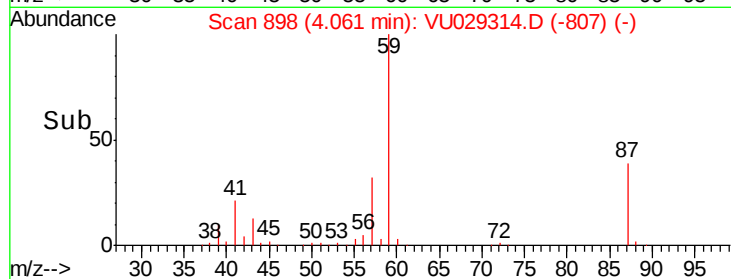
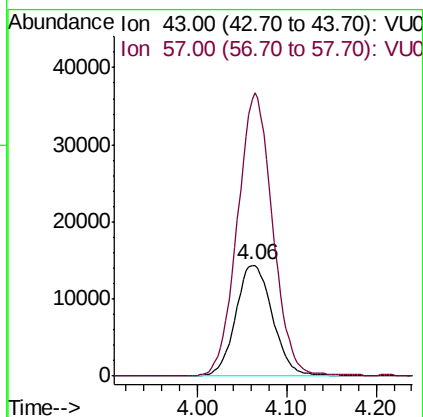
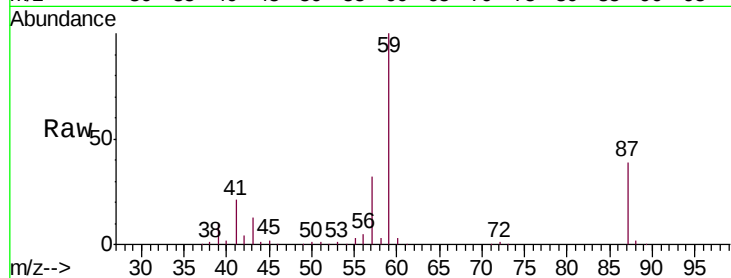




#18
2-Butanone
Concen: 47.252 ug/l
RT: 4.06 min Scan# 898
Delta R.T. -0.21 min
Lab File: VU029314.D
Acq: 30 Jan 2019 14:23

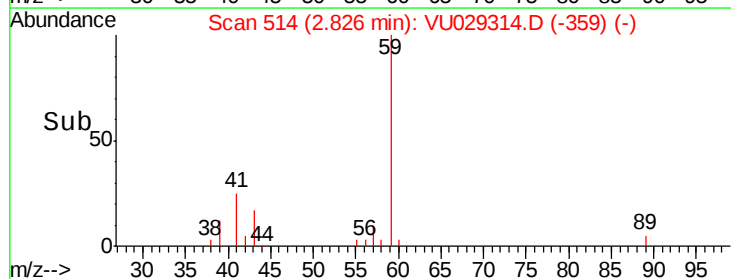
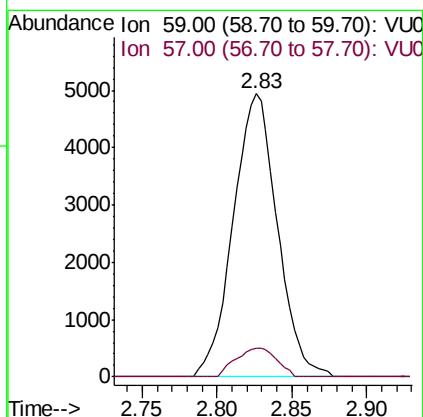
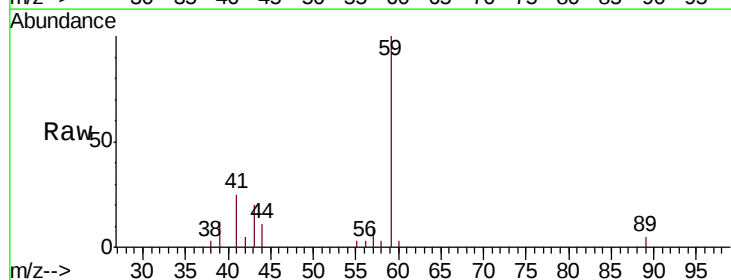
Instrument :
MSVOA_U
ClientSampleId :
PT-ADD-WS

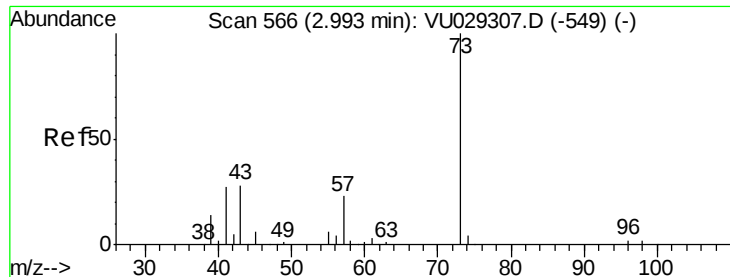
Tgt Ion: 43 Resp: 41556
Ion Ratio Lower Upper
43 100
57 249.3 0.0 15.8#



#24
tert-Butyl Alcohol
Concen: 35.025 ug/l
RT: 2.83 min Scan# 514
Delta R.T. -0.00 min
Lab File: VU029314.D
Acq: 30 Jan 2019 14:23

Tgt Ion: 59 Resp: 10140
Ion Ratio Lower Upper
59 100
57 0.0 8.8 13.2#



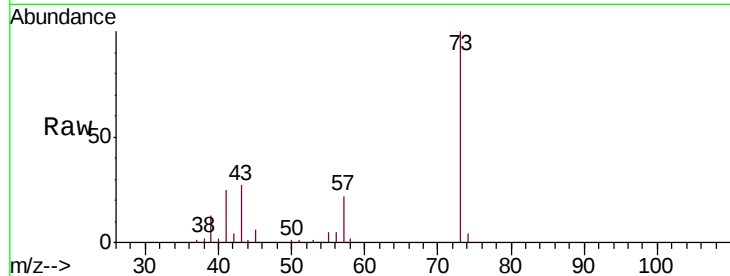


#25

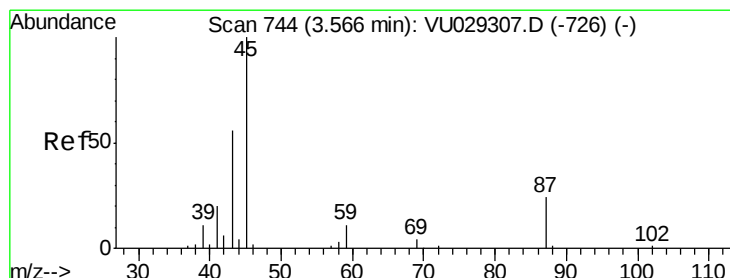
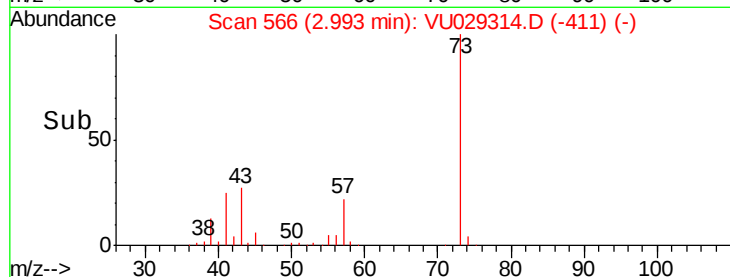
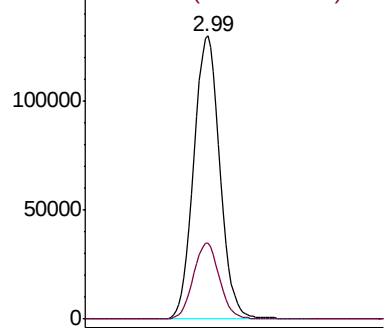
Methyl tert-Butyl Ether
 Concen: 36.553 ug/l
 RT: 2.99 min Scan# 566
 Delta R.T. -0.00 min
 Lab File: VU029314.D
 Acq: 30 Jan 2019 14:23

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-ADD-WS

Tgt Ion: 73 Resp: 285217
 Ion Ratio Lower Upper
 73 100
 43 26.9 22.1 33.1



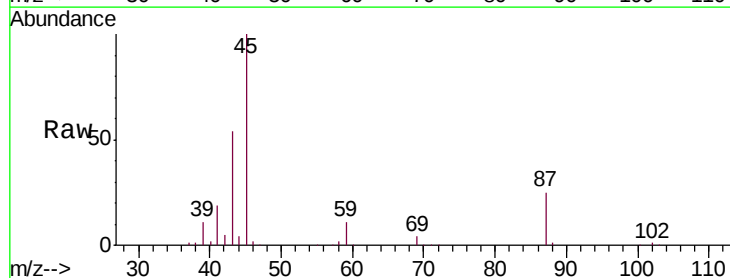
Abundance Ion 73.00 (72.70 to 73.70): VU0
 Ion 43.00 (42.70 to 43.70): VU0



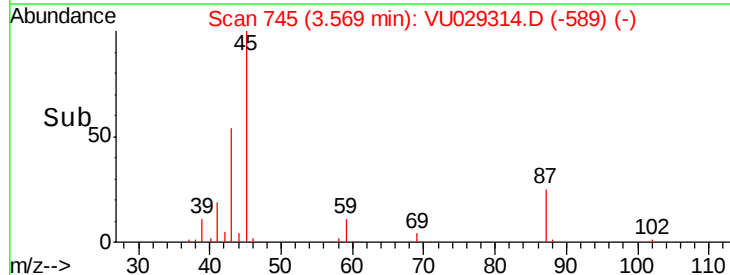
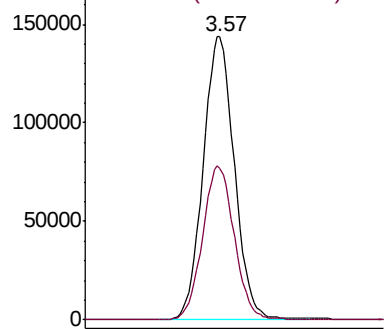
#31

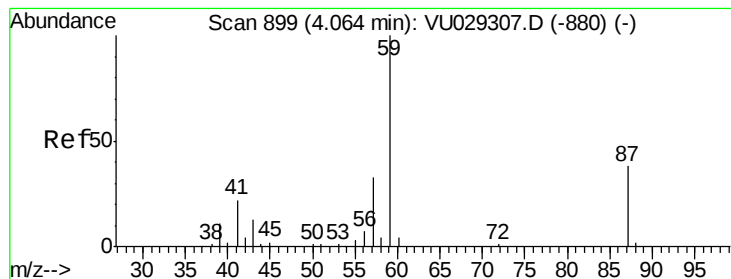
Isopropyl Ether
 Concen: 42.540 ug/l
 RT: 3.57 min Scan# 745
 Delta R.T. 0.00 min
 Lab File: VU029314.D
 Acq: 30 Jan 2019 14:23

Tgt Ion: 45 Resp: 348643
 Ion Ratio Lower Upper
 45 100
 43 55.4 28.4 85.3



Abundance Ion 45.00 (44.70 to 45.70): VU0
 Ion 43.00 (42.70 to 43.70): VU0





#32

Ethyl-t-butyl ether

Concen: 41.923 ug/l

RT: 4.06 min Scan# 899

Delta R.T. -0.00 min

Lab File: VU029314.D

Acq: 30 Jan 2019 14:23

Instrument :

MSVOA_U

ClientSampleId :

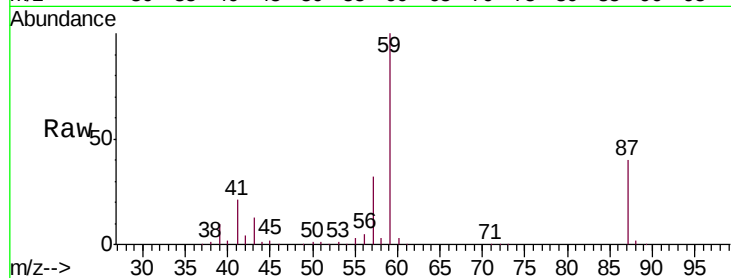
PT-ADD-WS

Tgt Ion: 59 Resp: 315449

Ion Ratio Lower Upper

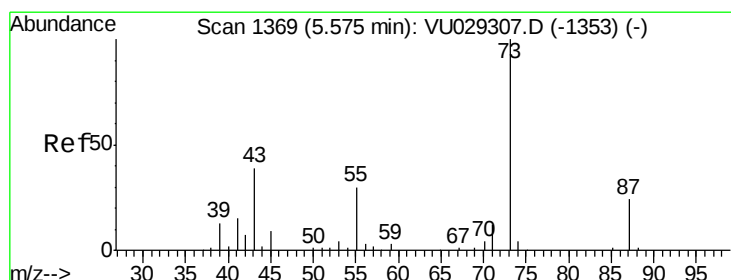
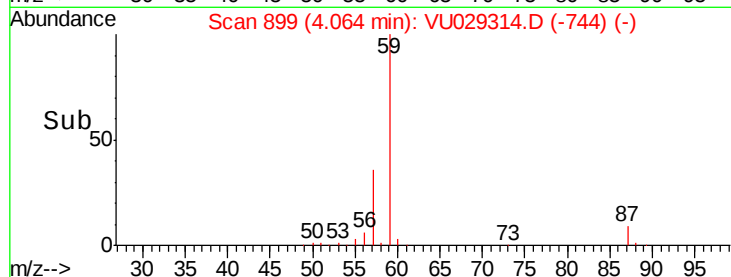
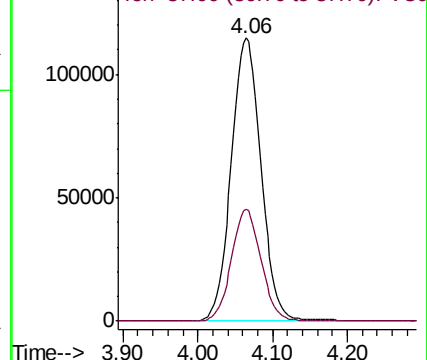
59 100

87 39.2 31.1 46.7



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#33

Tert-Amyl methyl ether

Concen: 49.758 ug/l

RT: 5.58 min Scan# 1369

Delta R.T. -0.00 min

Lab File: VU029314.D

Acq: 30 Jan 2019 14:23

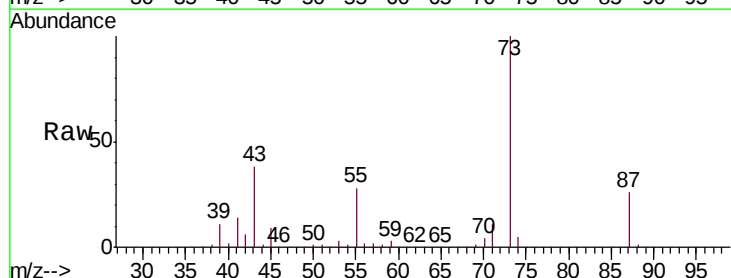
Tgt Ion: 73 Resp: 317887

Ion Ratio Lower Upper

73 100

87 25.7 19.4 29.0

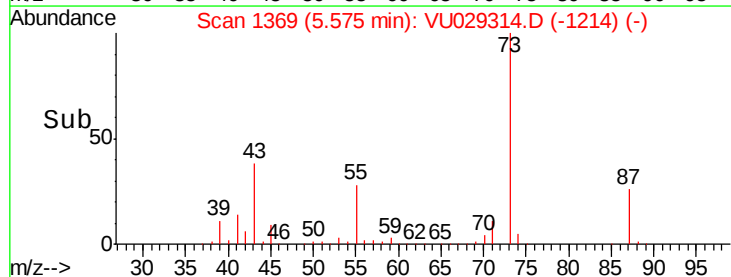
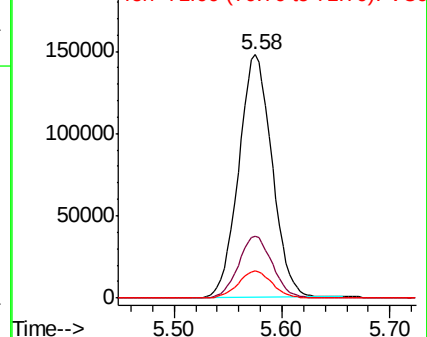
71 11.4 9.0 13.4

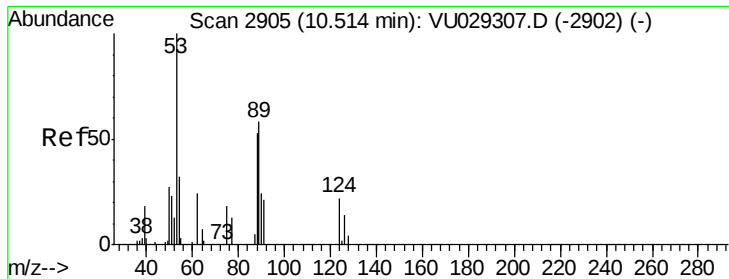


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

Ion 71.00 (70.70 to 71.70): VU0

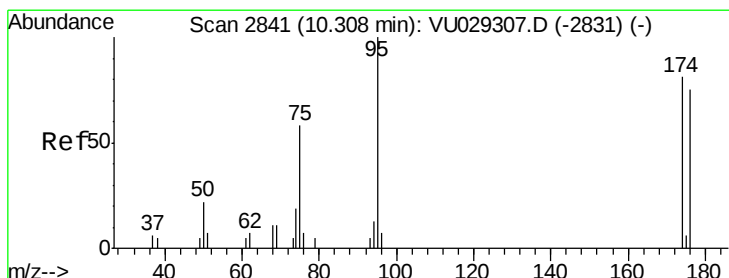
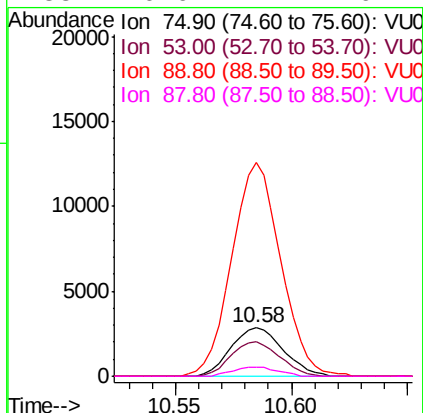
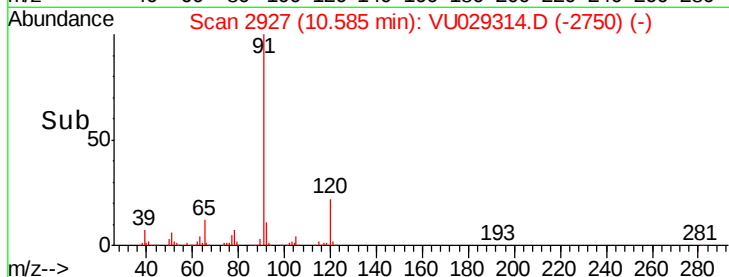
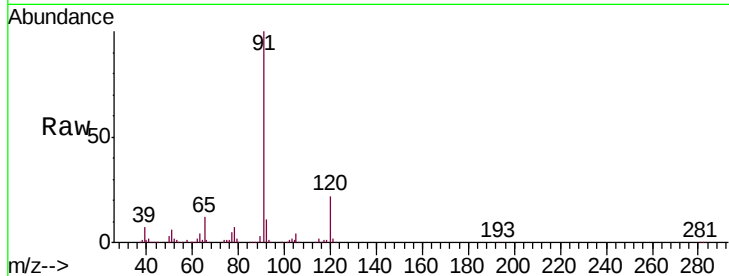




#46
t-1,4-Dichloro-2-butene
Concen: 6.566 ug/l
RT: 10.58 min Scan# 2927
Delta R.T. 0.07 min
Lab File: VU029314.D
Acq: 30 Jan 2019 14:23

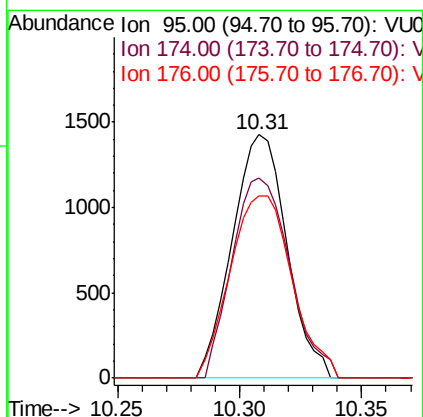
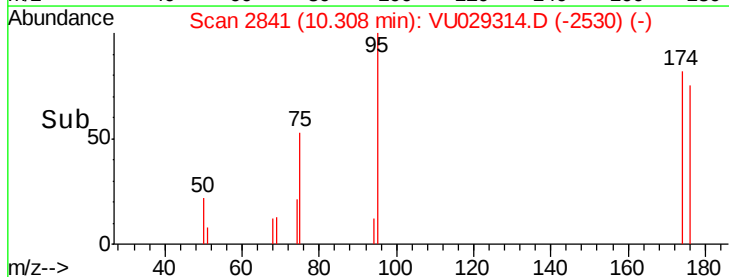
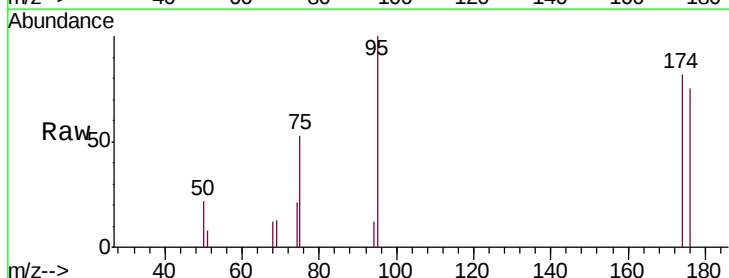
Instrument :
MSVOA_U
ClientSampleId :
PT-ADD-WS

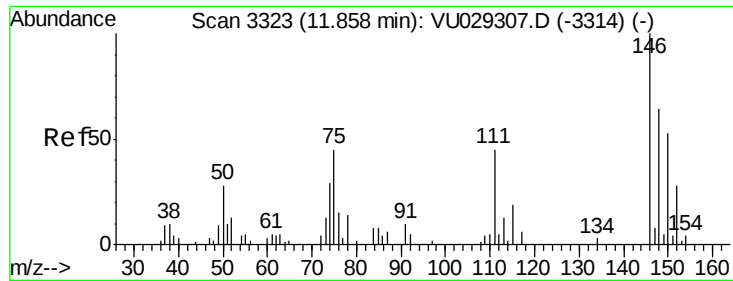
Tgt Ion: 75 Resp: 4436
Ion Ratio Lower Upper
75 100
53 66.7 78.2 117.4#
89 415.5 44.2 66.4#
88 16.6 41.4 62.2#



#57
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.00 min
Lab File: VU029314.D
Acq: 30 Jan 2019 14:23

Tgt Ion: 95 Resp: 2214
Ion Ratio Lower Upper
95 100
174 87.5 64.2 96.2
176 84.8 62.3 93.5





#68

1,2-Dichlorobenzene-d4

Concen: N.D. ug/l

RT: 11.86 min Scan# 3323

Delta R.T. -0.00 min

Lab File: VU029314.D

Acq: 30 Jan 2019 14:23

Instrument :

MSVOA_U

ClientSampleId :

PT-ADD-WS

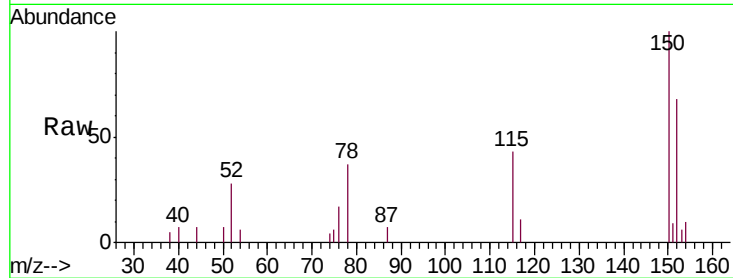
Tgt Ion:152 Resp: 2643

Ion Ratio Lower Upper

152 100

115 64.7 0.0 133.4

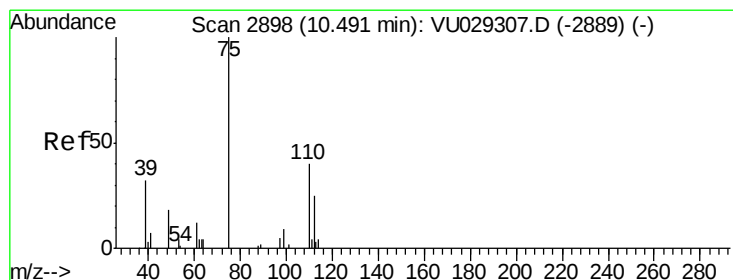
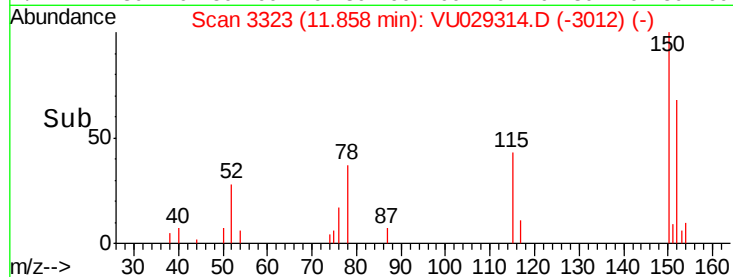
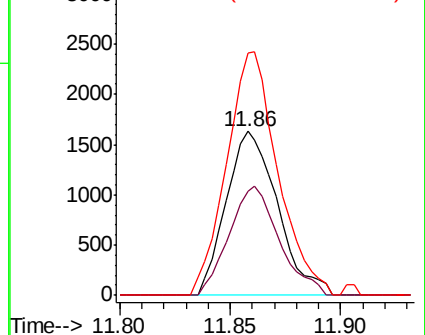
150 147.9 0.0 670.8



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



#71

1,2,3-Trichloropropane

Concen: 2.059 ug/l

RT: 10.58 min Scan# 2927

Delta R.T. 0.09 min

Lab File: VU029314.D

Acq: 30 Jan 2019 14:23

Tgt Ion: 75 Resp: 4436

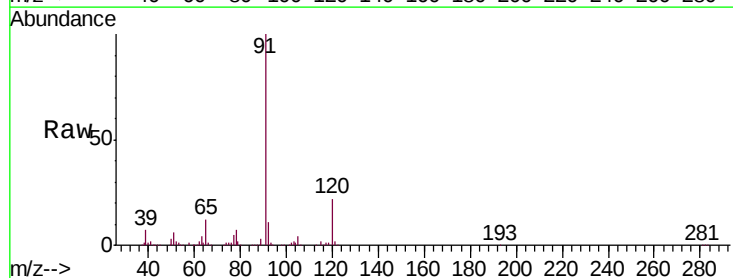
Ion Ratio Lower Upper

75 100

77 571.6 0.0 0.0#

110 0.0 0.0 63.6

97 0.0 0.0 31.4

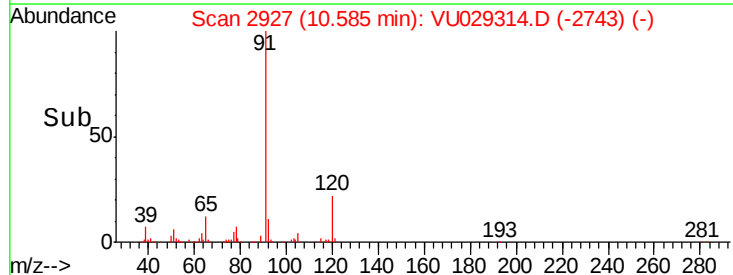
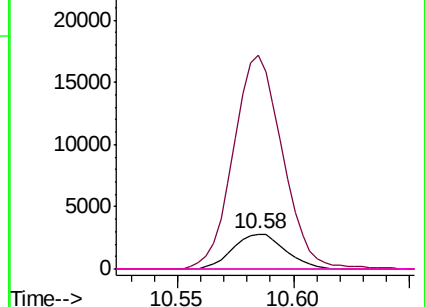


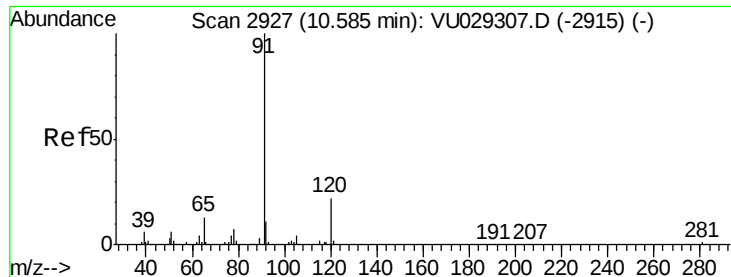
Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

Ion 110.00 (109.70 to 110.70): V

Ion 97.00 (96.70 to 97.70): VU0

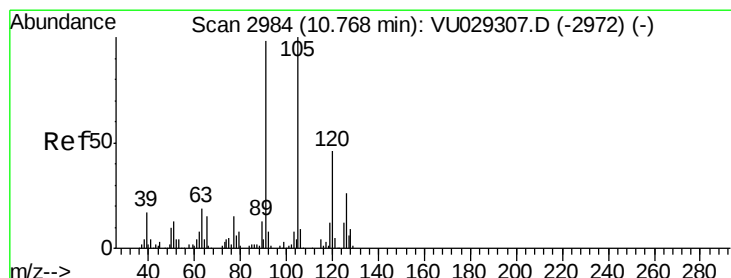
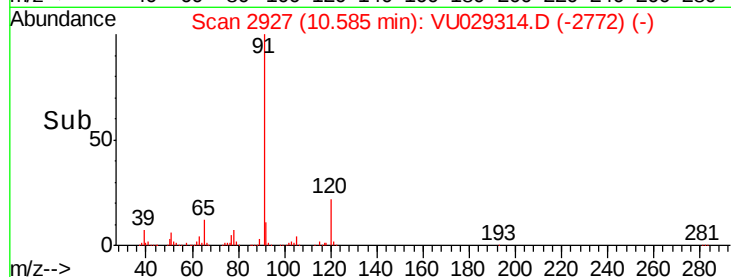
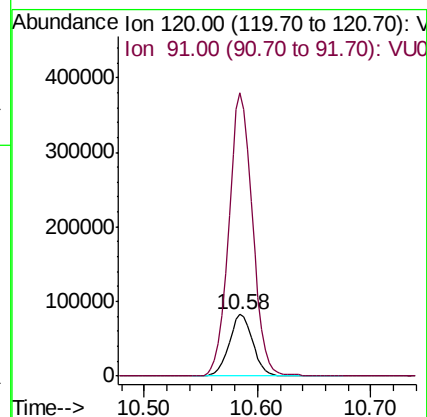
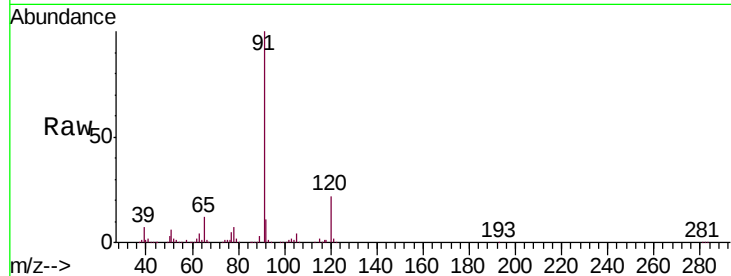




#73
n-propylbenzene
Concen: 38.466 ug/l
RT: 10.58 min Scan# 2927
Delta R.T. -0.00 min
Lab File: VU029314.D
Acq: 30 Jan 2019 14:23

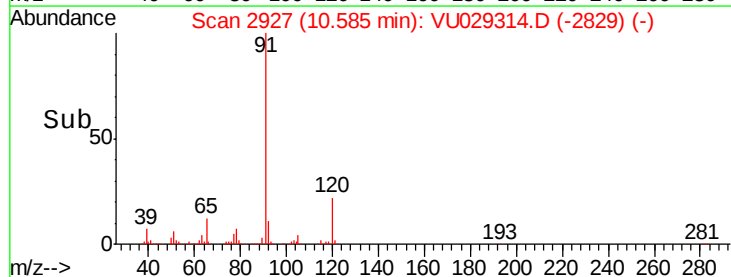
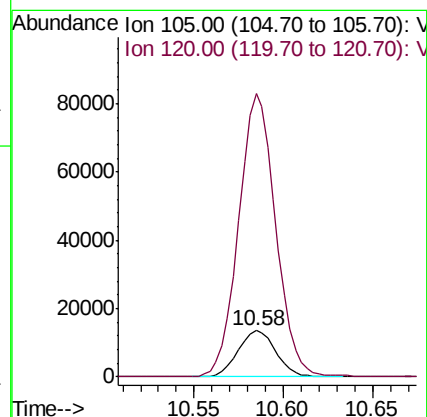
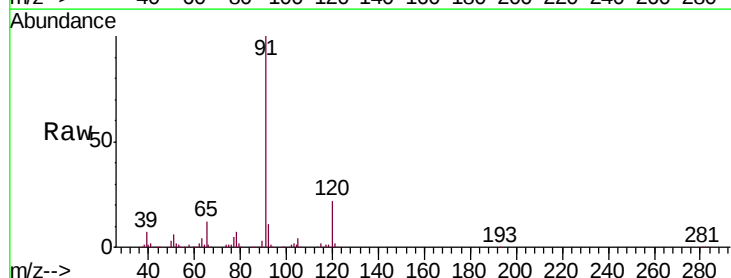
Instrument :
MSVOA_U
ClientSampleId :
PT-ADD-WS

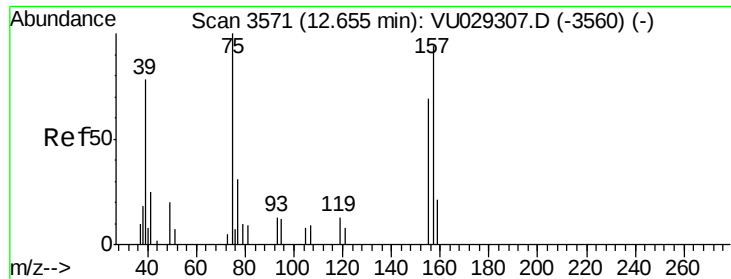
Tgt Ion:120 Resp: 120726
Ion Ratio Lower Upper
120 100
91 459.0 370.0 555.0



#75
1,3,5-Trimethylbenzene
Concen: 1.938 ug/l
RT: 10.58 min Scan# 2927
Delta R.T. -0.18 min
Lab File: VU029314.D
Acq: 30 Jan 2019 14:23

Tgt Ion:105 Resp: 20037
Ion Ratio Lower Upper
105 100
120 602.5 37.3 55.9#





#86

1,2-Dibromo-3-Chloropropane

Concen: 0.320 ug/l

RT: 12.47 min Scan# 3514

Delta R.T. -0.18 min

Lab File: VU029314.D

Acq: 30 Jan 2019 14:23

Instrument :

MSVOA_U

ClientSampleId :

PT-ADD-WS

Tgt Ion: 75 Resp: 149

Ion Ratio Lower Upper

75 100

155 0.0 53.8 80.8#

157 0.0 69.2 103.8#

