

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072920\
 Data File : VU039707.D
 Acq On : 29 Jul 2020 16:54
 Operator : SY/MD
 Sample : L3319-10
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-ADD-WS

Quant Time: Jul 30 01:48:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U072920DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Thu Jul 30 01:45:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.13	96	21172	1.00	ug/l	0.00

System Monitoring Compounds

57) 4-Bromofluorobenzene	10.63	95	6511	0.79	ug/l	0.00
Spiked Amount 1.000			Recovery	=	79.00%	
68) 1,2-Dichlorobenzene-d4	12.19	152	7353	0.91	ug/l	0.00
Spiked Amount 1.000			Recovery	=	91.00%	

Target Compounds

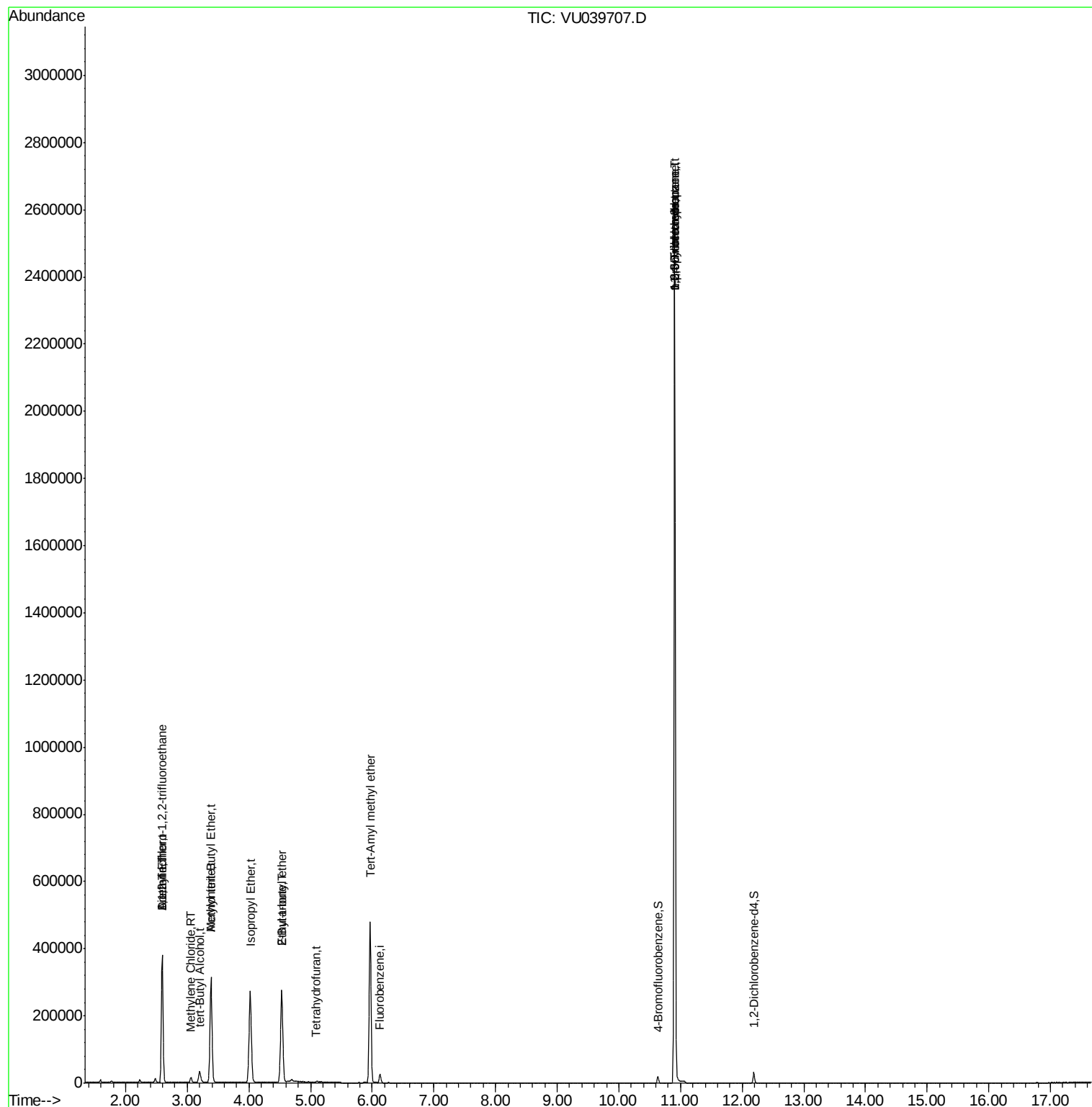
					Ovalue
8) 1,1,2-Trichloro-1,2,2-trif	2.59	101	146819	22.964	ug/l 99
12) Acrylonitrile	3.39	53	4465	2.162	ug/l # 33
13) Acetone	2.59	43	2930	1.508	ug/l # 77
15) Methylene Chloride	3.06	84	5390	0.657	ug/l 95
18) 2-Butanone	4.53	43	37718	11.545	ug/l # 1
23) Diethyl Ether	2.59	59	1728	0.287	ug/l # 16
24) tert-Butyl Alcohol	3.20	59	34112	42.883	ug/l 98
25) Methyl tert-Butyl Ether	3.39	73	318572	16.597	ug/l 99
31) Isopropyl Ether	4.02	45	295478	11.031	ug/l 99
32) Ethyl-t-butyl ether	4.53	59	274514	12.043	ug/l 98
33) Tert-Amyl methyl ether	5.97	73	361673	22.008	ug/l 100
41) Tetrahydrofuran	5.08	42	448	0.210	ug/l # 38
46) t-1,4-Dichloro-2-butene	10.91	75	12047	6.805	ug/l # 1
71) 1,2,3-Trichloropropane	10.91	75	12047	2.176	ug/l # 1
73) n-propylbenzene	10.91	120	398704	48.978	ug/l 93
75) 1,3,5-Trimethylbenzene	10.91	105	67173	2.684	ug/l # 1

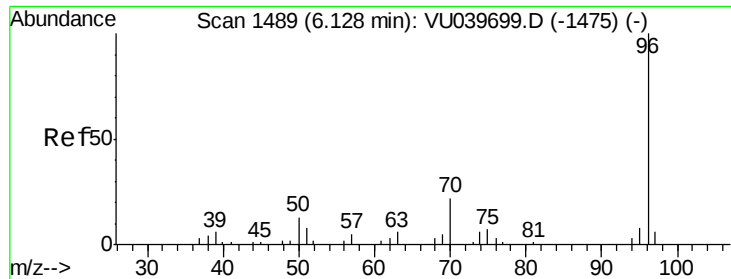
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jul 30 01:45:12 2020
Response via : Initial Calibration





#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 6.13 min Scan# 1489

Delta R.T. -0.00 min

Lab File: VU039707.D

Acq: 29 Jul 2020 16:54

Instrument :

MSVOA_U

ClientSampleId :

PT-ADD-WS

Tot Ion: 96 Resp: 21172

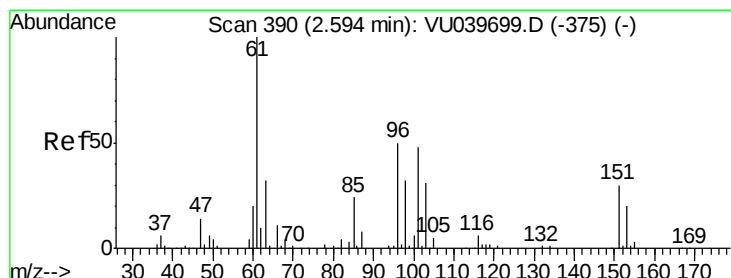
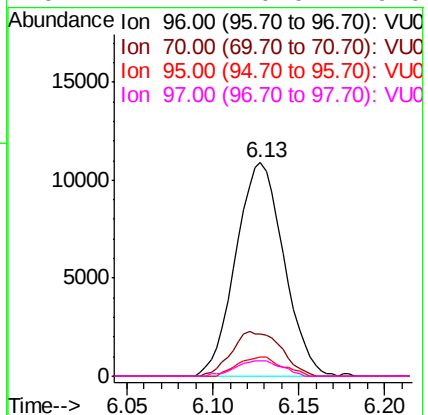
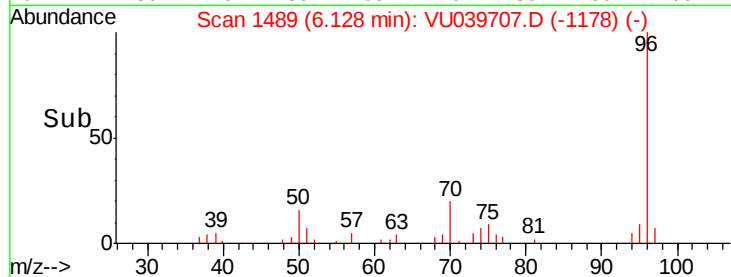
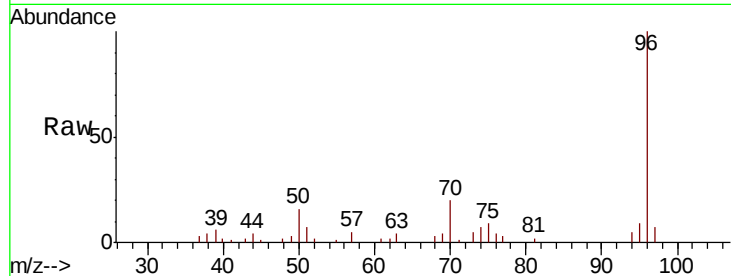
Ion Ratio Lower Upper

96 100

70 21.5 16.3 24.5

95 8.5 6.8 10.2

97 7.1 0.0 0.0#



#8

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

Concen: 22.964 ug/l

RT: 2.59 min Scan# 390

Delta R.T. -0.00 min

Lab File: VU039707.D

Acq: 29 Jul 2020 16:54

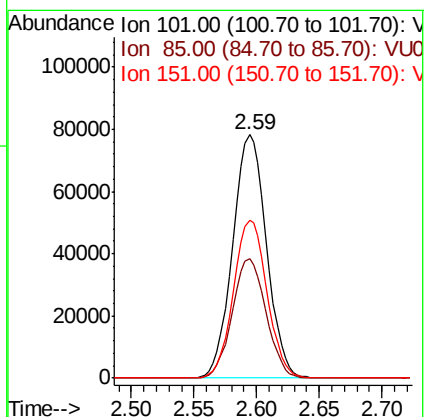
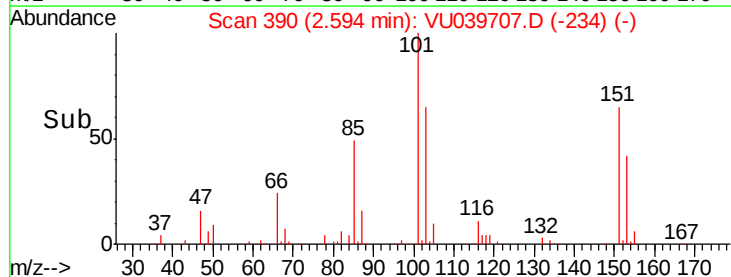
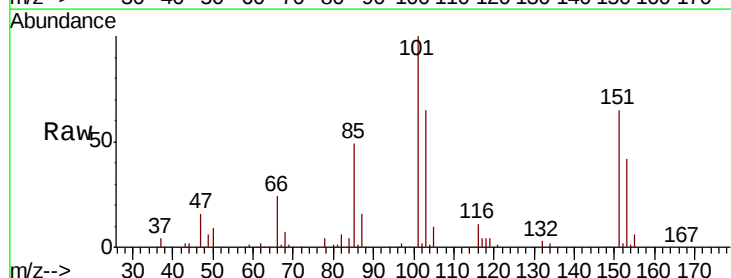
Tgt Ion:101 Resp: 146819

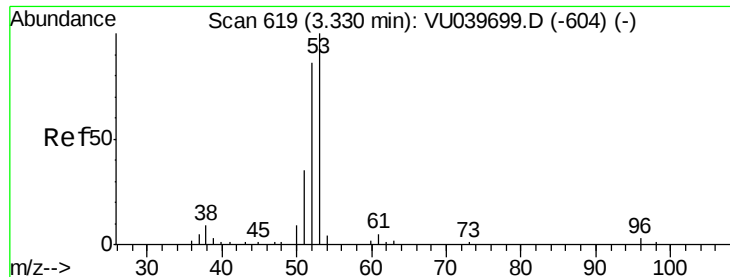
Ion Ratio Lower Upper

101 100

85 49.0 39.9 59.9

151 64.2 51.0 76.4





#12

Acrylonitrile

Concen: 2.162 ug/l

RT: 3.39 min Scan# 638

Delta R.T. 0.06 min

Lab File: VU039707.D

Acq: 29 Jul 2020 16:54

Instrument :

MSVOA_U

ClientSampleId :

PT-ADD-WS

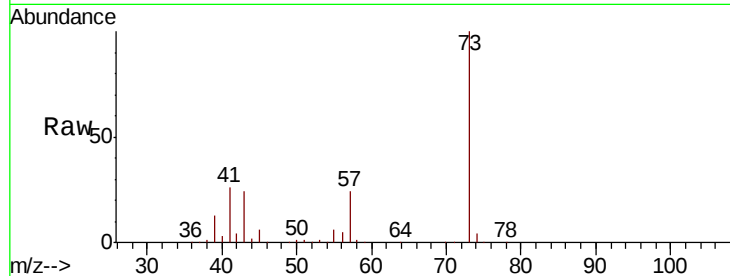
Tot Ion: 53 Resp: 4465

Ion Ratio Lower Upper

53 100

52 18.8 69.1 103.7#

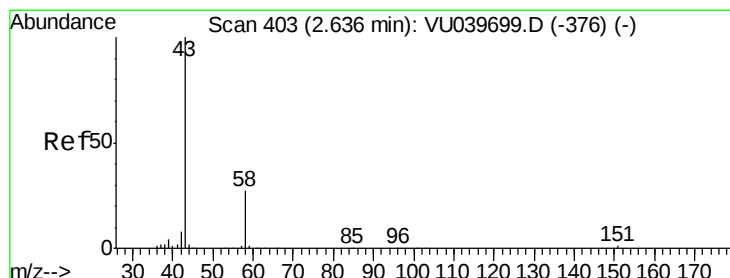
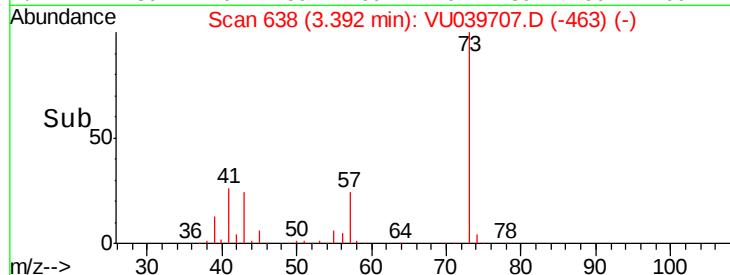
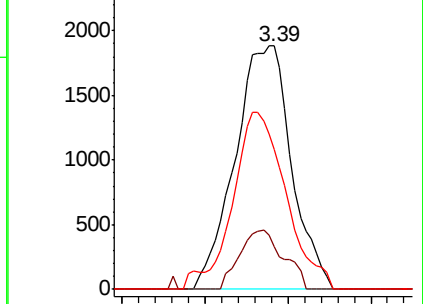
51 68.6 29.4 44.2#



Abundance Ion 53.00 (52.70 to 53.70): VU039707.D (-463) (-)

Ion 52.00 (51.70 to 52.70): VU039707.D (-463) (-)

Ion 51.00 (50.70 to 51.70): VU039707.D (-463) (-)



#13

Acetone

Concen: 1.508 ug/l

RT: 2.59 min Scan# 389

Delta R.T. -0.05 min

Lab File: VU039707.D

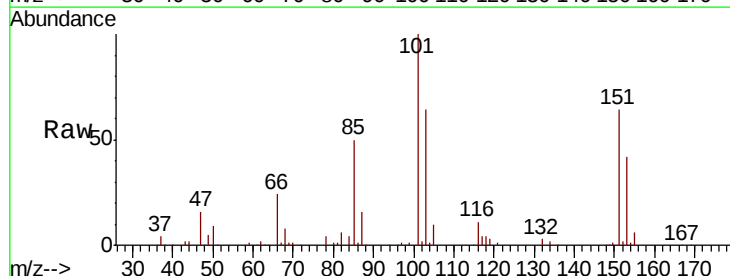
Acq: 29 Jul 2020 16:54

Tgt Ion: 43 Resp: 2930

Ion Ratio Lower Upper

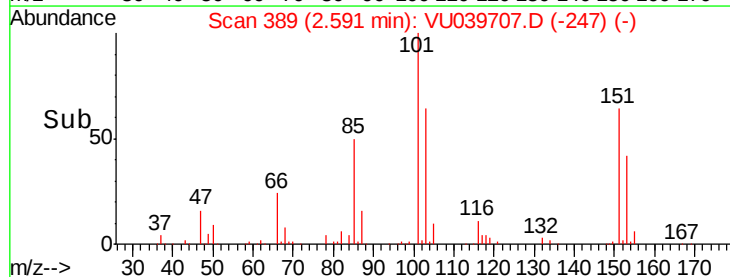
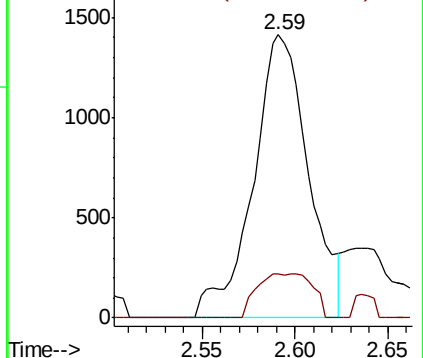
43 100

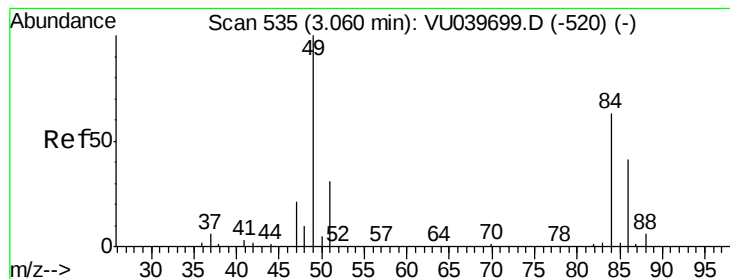
58 15.5 21.8 32.6#



Abundance Ion 43.00 (42.70 to 43.70): VU039707.D (-247) (-)

Ion 58.00 (57.70 to 58.70): VU039707.D (-247) (-)





#15

Methylene Chloride

Concen: 0.657 ug/l

RT: 3.06 min Scan# 534

Delta R.T. -0.00 min

Lab File: VU039707.D

Acq: 29 Jul 2020 16:54

Instrument :

MSVOA_U

ClientSampleId :

PT-ADD-WS

Tot Ion: 84 Resp: 5390

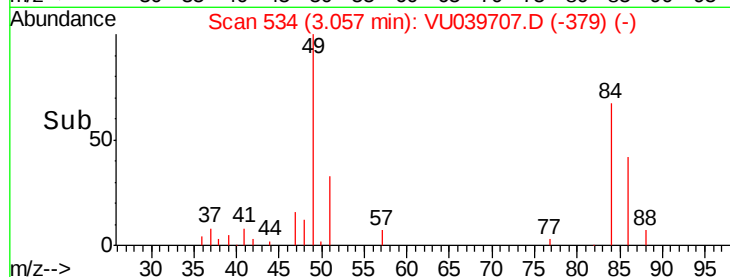
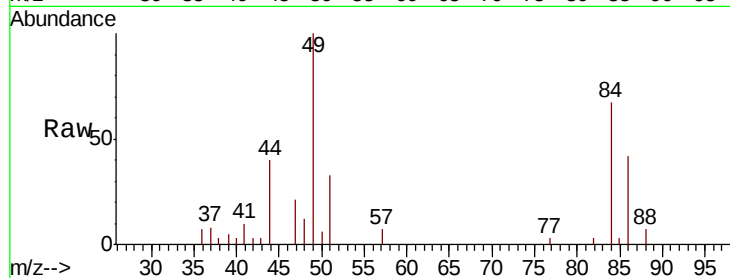
Ion Ratio Lower Upper

84 100

49 149.3 126.8 190.2

51 48.7 0.0 97.2

86 62.7 51.4 77.2

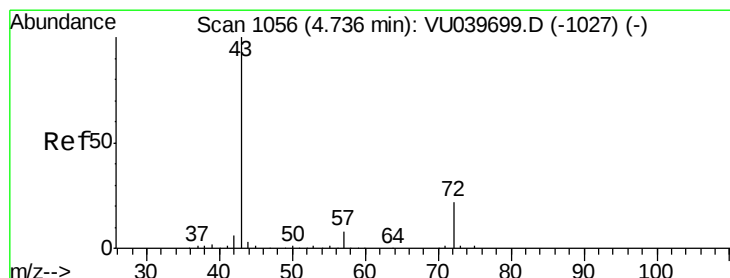
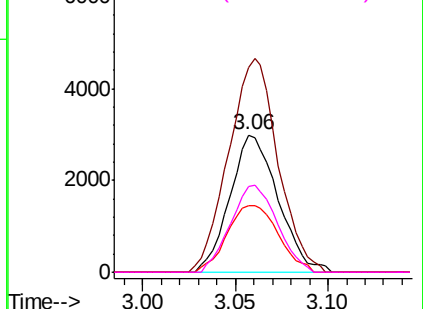


Abundance Ion 84.00 (83.70 to 84.70): VU039707.D (-379) (-)

Ion 49.00 (48.70 to 49.70): VU039707.D (-379) (-)

Ion 51.00 (50.70 to 51.70): VU039707.D (-379) (-)

Ion 86.00 (85.70 to 86.70): VU039707.D (-379) (-)



#18

2-Butanone

Concen: 11.545 ug/l

RT: 4.53 min Scan# 992

Delta R.T. -0.21 min

Lab File: VU039707.D

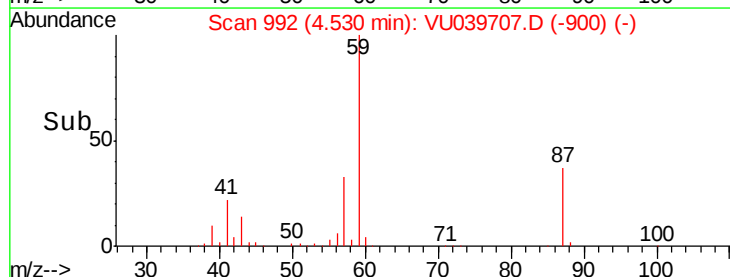
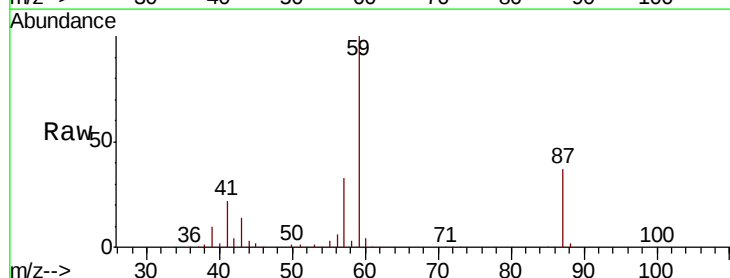
Acq: 29 Jul 2020 16:54

Tgt Ion: 43 Resp: 37718

Ion Ratio Lower Upper

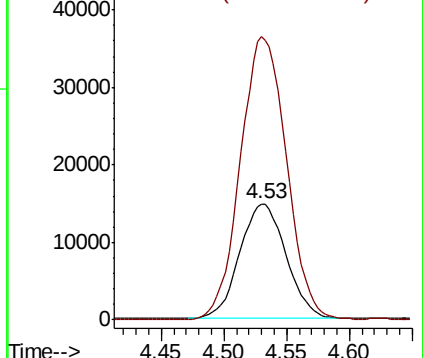
43 100

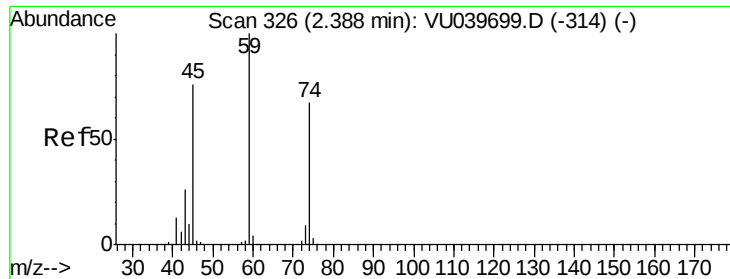
57 246.2 0.0 15.2#



Abundance Ion 43.00 (42.70 to 43.70): VU039707.D (-900) (-)

Ion 57.00 (56.70 to 57.70): VU039707.D (-900) (-)

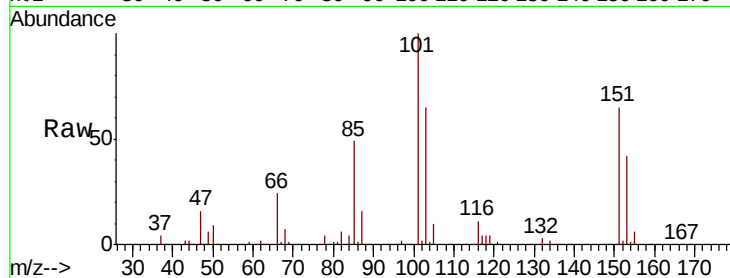




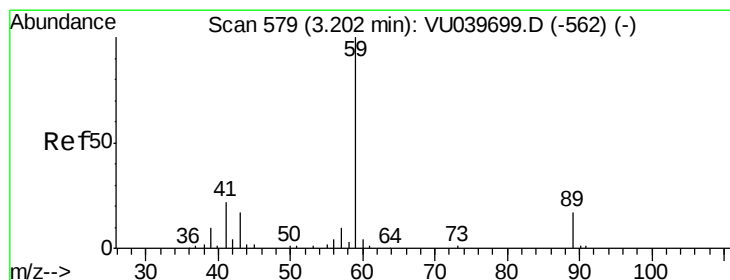
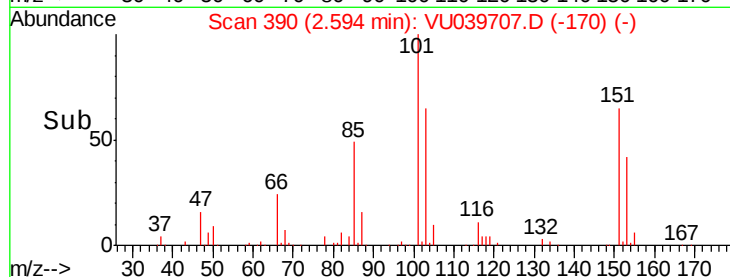
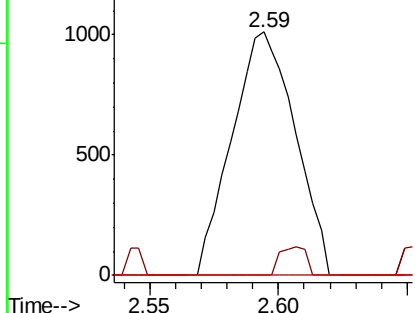
#23
Diethyl Ether
Concen: 0.287 ug/l
RT: 2.59 min Scan# 390
Delta R.T. 0.21 min
Lab File: VU039707.D
Acq: 29 Jul 2020 16:54

Instrument :
MSVOA_U
ClientSampleId :
PT-ADD-WS

Tot Ion: 59 Resp: 1728
Ion Ratio Lower Upper
59 100
45 4.9 61.5 92.3#
74 0.0 54.3 81.5#

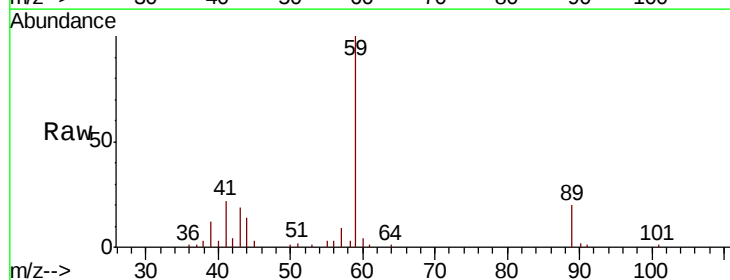


Abundance Ion 59.00 (58.70 to 59.70): VU0
Ion 45.00 (44.70 to 45.70): VU0
Ion 74.00 (73.70 to 74.70): VU0

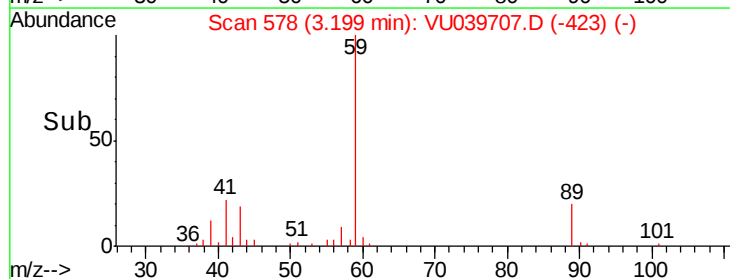
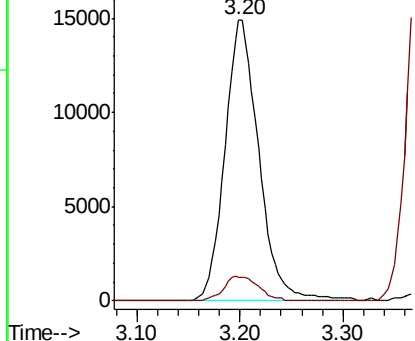


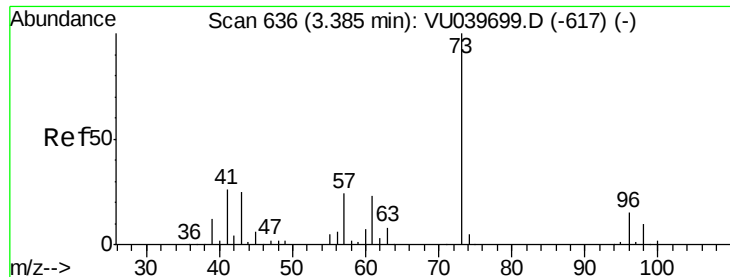
#24
tert-Butyl Alcohol
Concen: 42.883 ug/l
RT: 3.20 min Scan# 578
Delta R.T. -0.00 min
Lab File: VU039707.D
Acq: 29 Jul 2020 16:54

Tgt Ion: 59 Resp: 34112
Ion Ratio Lower Upper
59 100
57 9.0 7.8 11.6



Abundance Ion 59.00 (58.70 to 59.70): VU0
Ion 57.00 (56.70 to 57.70): VU0



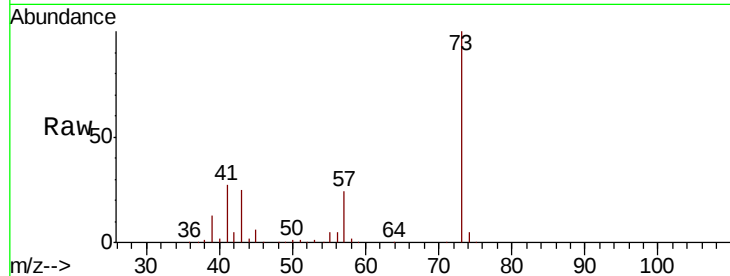


#25

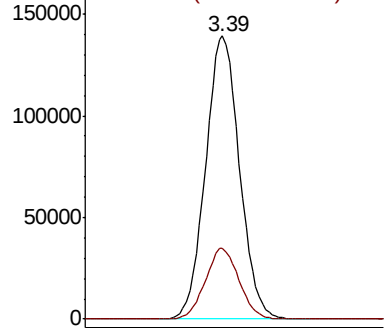
Methyl tert-Butyl Ether
 Concen: 16.597 ug/l
 RT: 3.39 min Scan# 636
 Delta R.T. -0.00 min
 Lab File: VU039707.D
 Acq: 29 Jul 2020 16:54

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-ADD-WS

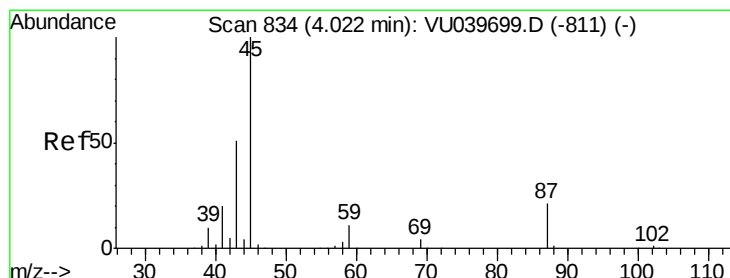
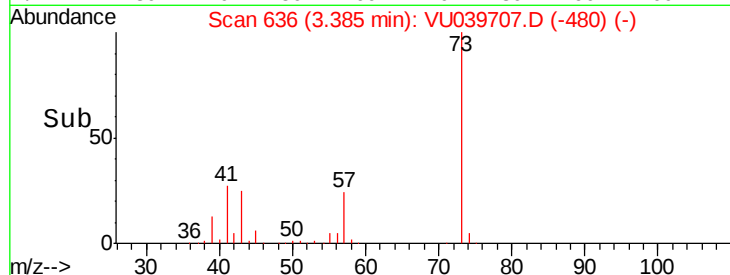
Tot Ion: 73 Resp: 318572
 Ion Ratio Lower Upper
 73 100
 43 24.6 20.1 30.1



Abundance Ion 73.00 (72.70 to 73.70): VU039699.D (-617) (-)
 Ion 43.00 (42.70 to 43.70): VU039707.D (-679) (-)



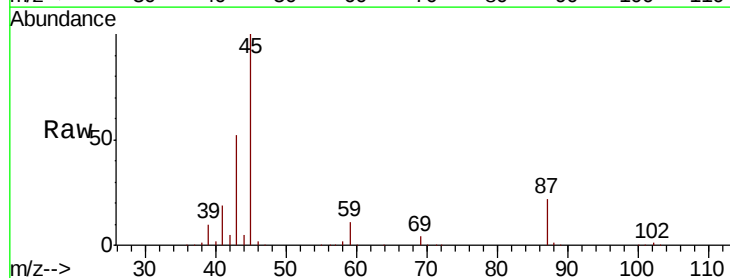
Time-->



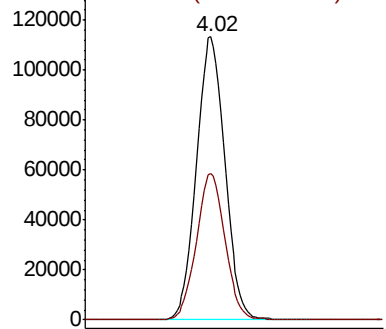
#31

Isopropyl Ether
 Concen: 11.031 ug/l
 RT: 4.02 min Scan# 834
 Delta R.T. -0.00 min
 Lab File: VU039707.D
 Acq: 29 Jul 2020 16:54

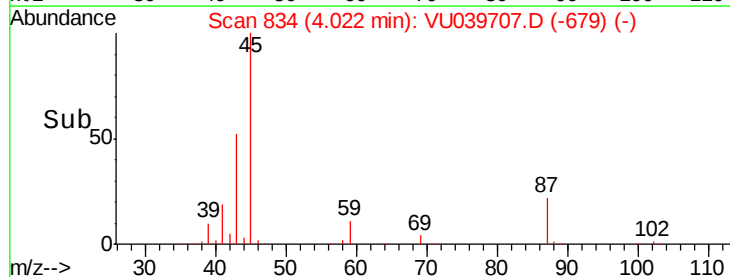
Tgt Ion: 45 Resp: 295478
 Ion Ratio Lower Upper
 45 100
 43 51.9 26.5 79.4

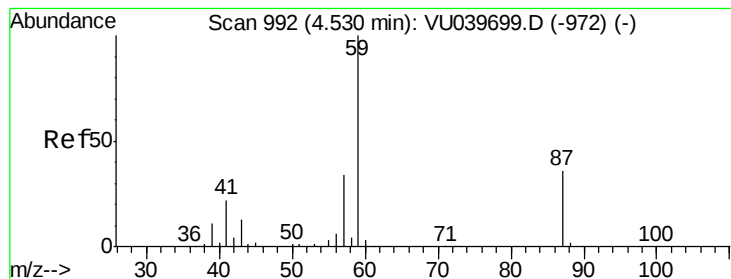


Abundance Ion 45.00 (44.70 to 45.70): VU039699.D (-811) (-)
 Ion 43.00 (42.70 to 43.70): VU039707.D (-679) (-)



Time-->





#32

Ethyl-t-butyl ether

Concen: 12.043 ug/l

RT: 4.53 min Scan# 992

Delta R.T. -0.00 min

Lab File: VU039707.D

Acq: 29 Jul 2020 16:54

Instrument :

MSVOA_U

ClientSampleId :

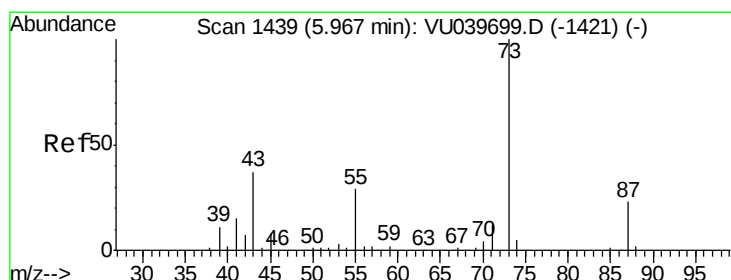
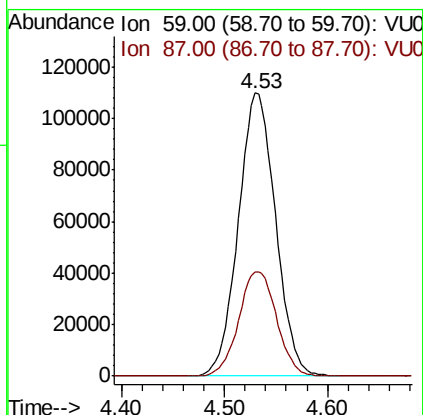
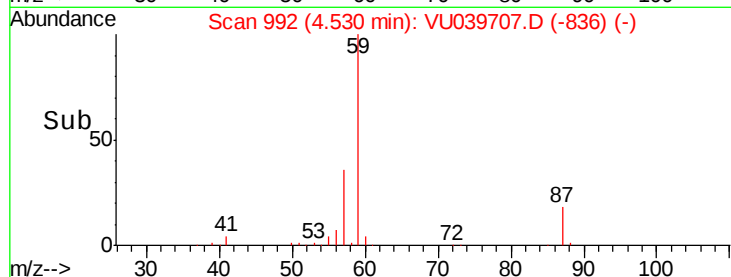
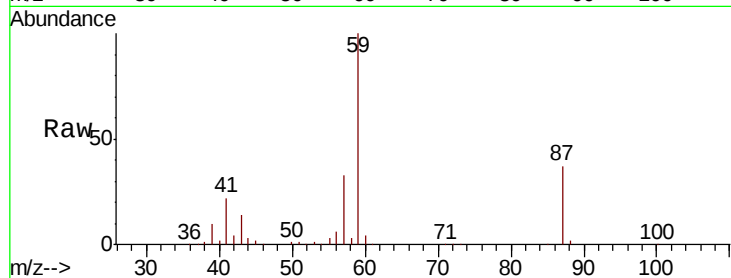
PT-ADD-WS

Tot Ion: 59 Resp: 274514

Ion Ratio Lower Upper

59 100

87 37.7 29.4 44.0



#33

Tert-Amyl methyl ether

Concen: 22.008 ug/l

RT: 5.97 min Scan# 1439

Delta R.T. -0.00 min

Lab File: VU039707.D

Acq: 29 Jul 2020 16:54

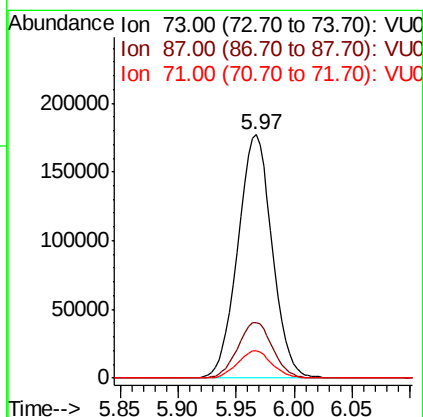
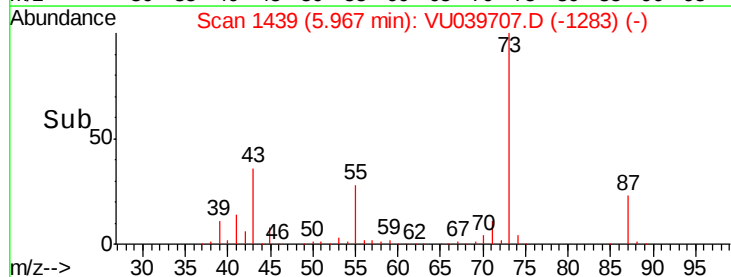
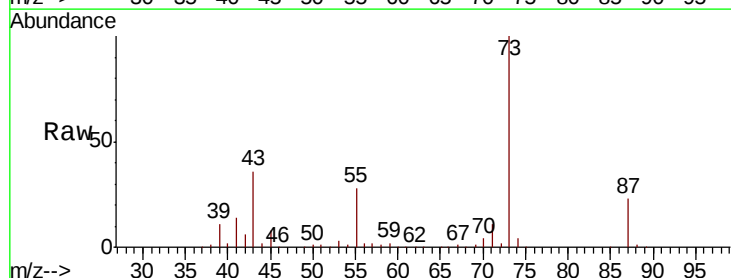
Tgt Ion: 73 Resp: 361673

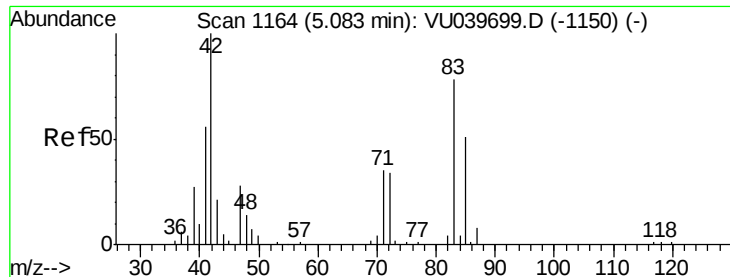
Ion Ratio Lower Upper

73 100

87 23.1 18.7 28.1

71 11.3 9.1 13.7





#41

Tetrahydrofuran

Concen: 0.210 ug/l

RT: 5.08 min Scan# 1164

Delta R.T. -0.00 min

Lab File: VU039707.D

Acq: 29 Jul 2020 16:54

Instrument :

MSVOA_U

ClientSampleId :

PT-ADD-WS

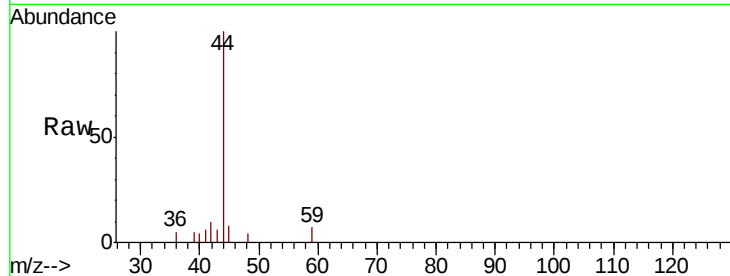
Tot Ion: 42 Resp: 448

Ion Ratio Lower Upper

42 100

72 0.0 31.0 46.6#

71 0.0 28.2 42.4#



Abundance Ion 42.00 (41.70 to 42.70): VU039699.D (-1150) (-)

Ion 72.00 (71.70 to 72.70): VU039699.D (-1150) (-)

Ion 71.00 (70.70 to 71.70): VU039699.D (-1150) (-)

5.08

300

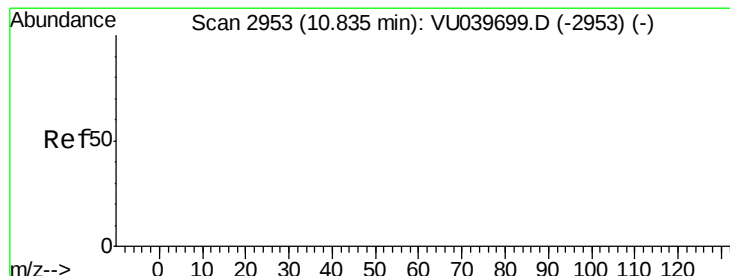
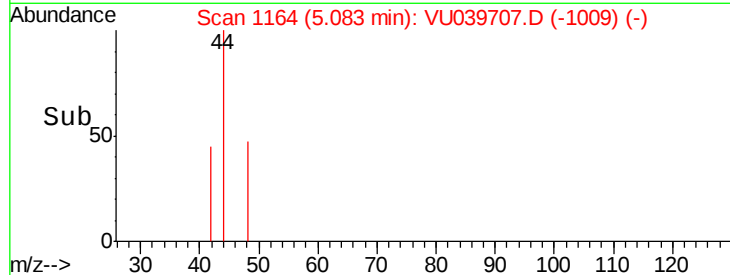
200

100

0

5.04 5.06 5.08 5.10 5.12

Time-->



#46

t-1,4-Dichloro-2-butene

Concen: 6.805 ug/l

RT: 10.91 min Scan# 2975

Delta R.T. 0.07 min

Lab File: VU039707.D

Acq: 29 Jul 2020 16:54

Tgt Ion: 75 Resp: 12047

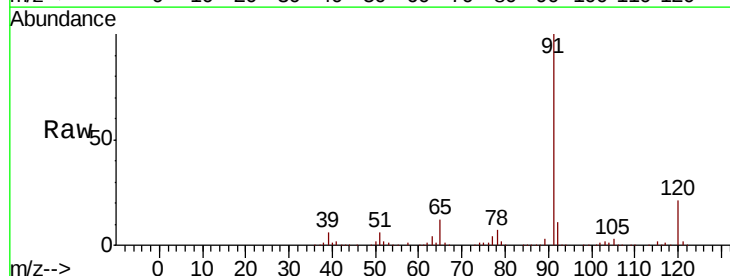
Ion Ratio Lower Upper

75 100

53 88.9 78.6 118.0

89 472.4 40.3 60.5#

88 17.0 34.0 51.0#



Abundance Ion 74.90 (74.60 to 75.60): VU039699.D (-2953) (-)

Ion 53.00 (52.70 to 53.70): VU039699.D (-2953) (-)

Ion 88.80 (88.50 to 89.50): VU039699.D (-2953) (-)

Ion 87.80 (87.50 to 88.50): VU039699.D (-2953) (-)

10.91

60000

50000

40000

30000

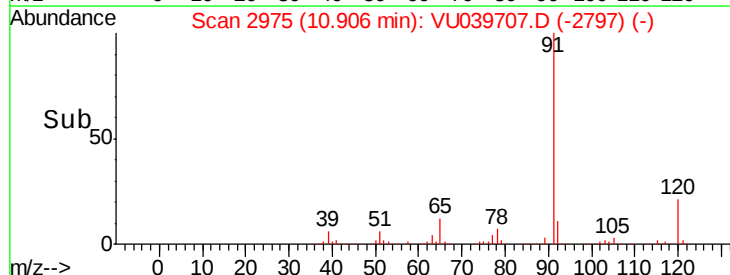
20000

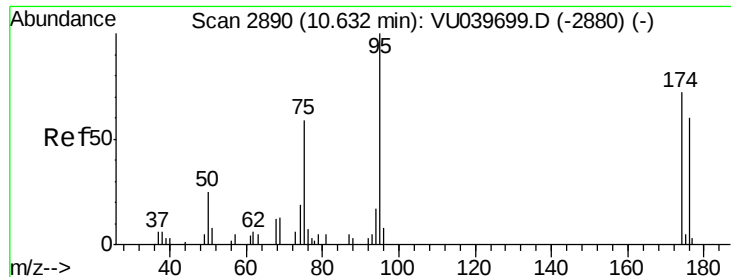
10000

0

10.85 10.90 10.95

Time-->

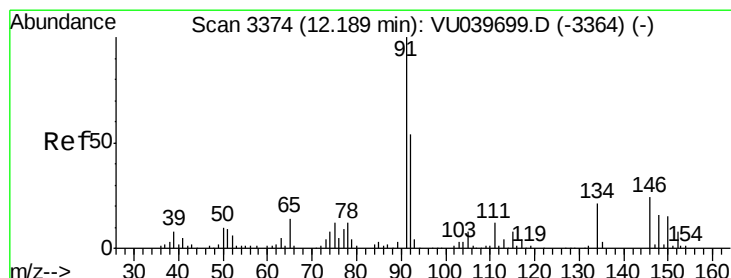
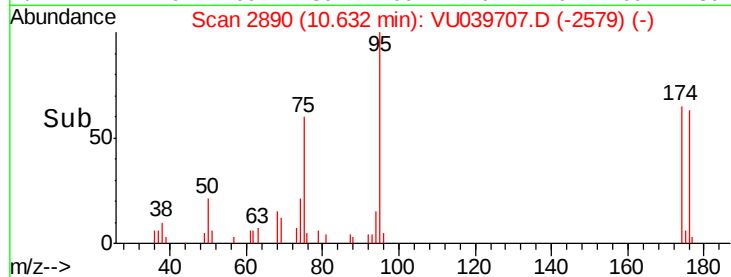
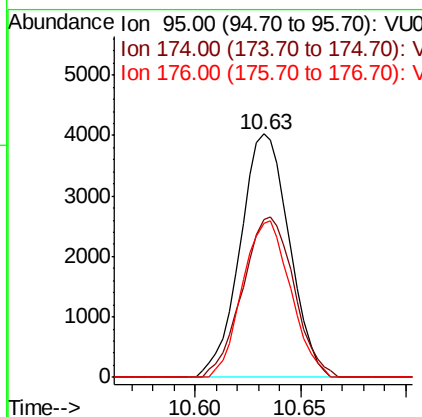
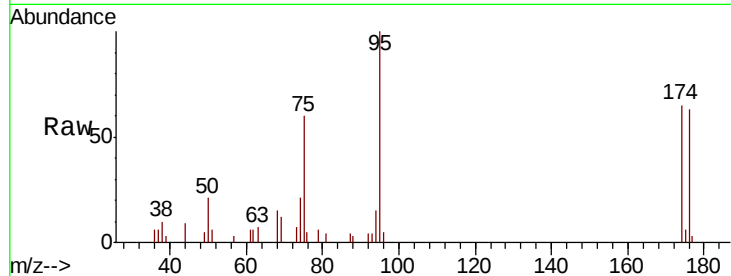




#57
 4-Bromofluorobenzene
 Concen: 0.787 ug/l
 RT: 10.63 min Scan# 2890
 Delta R.T. 0.00 min
 Lab File: VU039707.D
 Acq: 29 Jul 2020 16:54

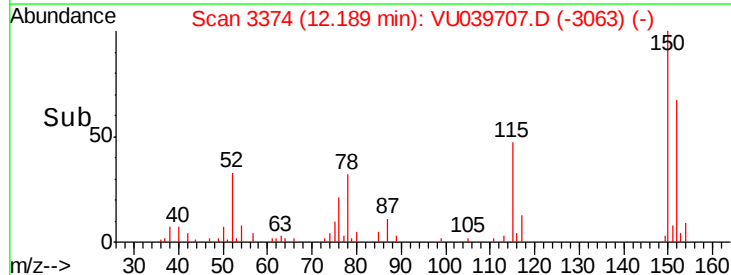
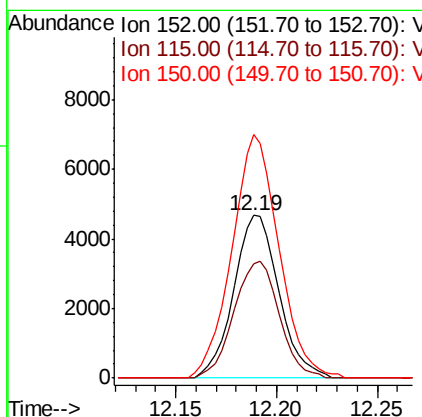
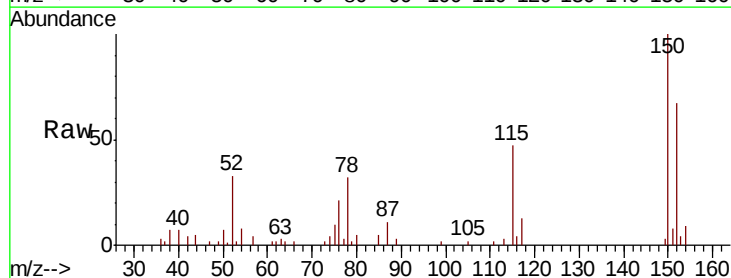
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-ADD-WS

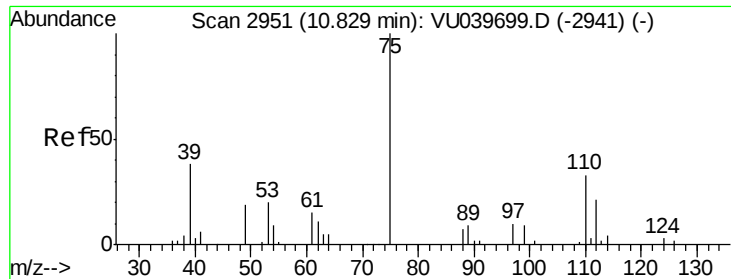
Tot Ion: 95 Resp: 6511
 Ion Ratio Lower Upper
 95 100
 174 69.0 57.0 85.4
 176 63.0 50.2 75.2



#68
 1,2-Dichlorobenzene-d4
 Concen: 0.908 ug/l
 RT: 12.19 min Scan# 3374
 Delta R.T. -0.00 min
 Lab File: VU039707.D
 Acq: 29 Jul 2020 16:54

Tgt Ion: 152 Resp: 7353
 Ion Ratio Lower Upper
 152 100
 115 71.7 0.0 302.4
 150 155.1 0.0 645.8

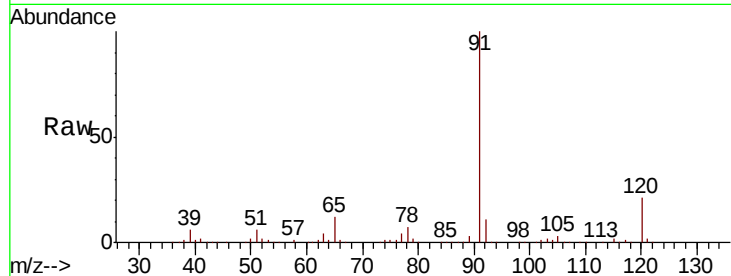




#71
 1,2,3-Trichloropropane
 Concen: 2.176 ug/l
 RT: 10.91 min Scan# 2975
 Delta R.T. 0.08 min
 Lab File: VU039707.D
 Acq: 29 Jul 2020 16:54

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-ADD-WS

Tot Ion:	75	Resp:	12047
Ion	Ratio	Lower	Upper
75	100		
77	691.7	0.0	91.0#
110	1.2	0.0	64.2
97	2.1	0.0	32.6



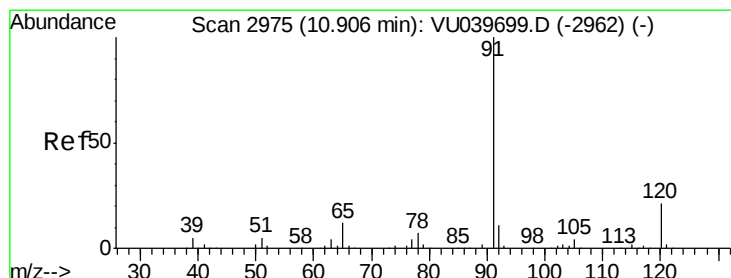
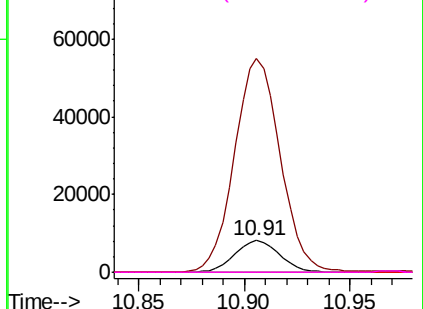
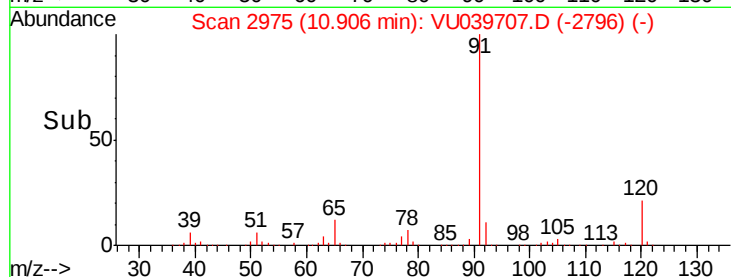
Abundance

Ion 75.00 (74.70 to 75.70): VU039699.D (-2941) (-)

Ion 77.00 (76.70 to 77.70): VU039699.D (-2941) (-)

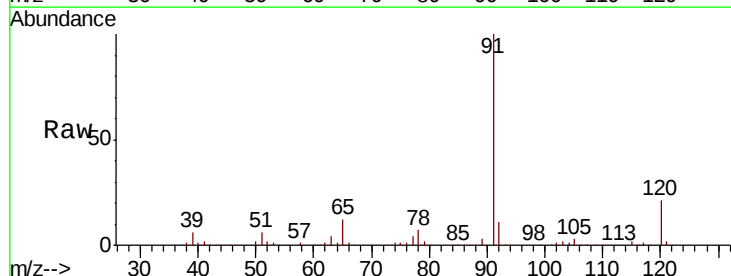
Ion 110.00 (109.70 to 110.70): VU039699.D (-2941) (-)

Ion 97.00 (96.70 to 97.70): VU039699.D (-2941) (-)



#73
 n-propylbenzene
 Concen: 48.978 ug/l
 RT: 10.91 min Scan# 2975
 Delta R.T. -0.00 min
 Lab File: VU039707.D
 Acq: 29 Jul 2020 16:54

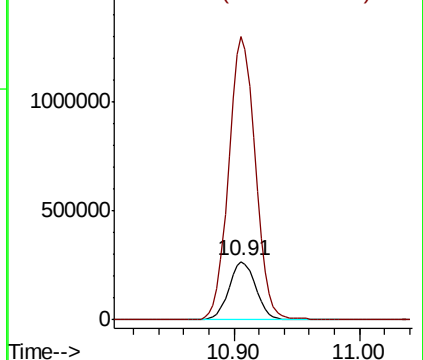
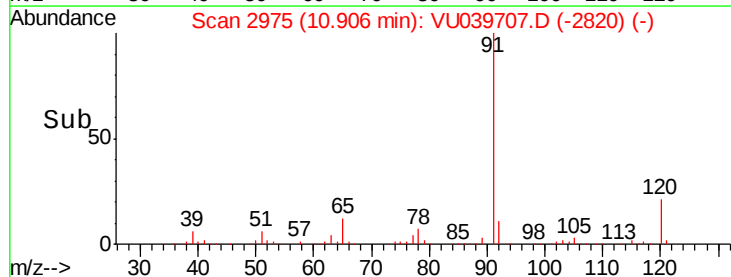
Tgt Ion:	120	Resp:	398704
Ion	Ratio	Lower	Upper
120	100		
91	482.7	371.7	557.5

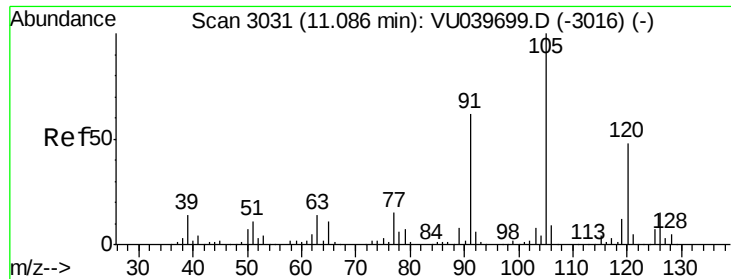


Abundance

Ion 120.00 (119.70 to 120.70): VU039699.D (-2962) (-)

Ion 91.00 (90.70 to 91.70): VU039699.D (-2962) (-)





#75
 1,3,5-Trimethylbenzene
 Concen: 2.684 ug/l
 RT: 10.91 min Scan# 2975
 Delta R.T. -0.18 min
 Lab File: VU039707.D
 Acq: 29 Jul 2020 16:54

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-ADD-WS

Tot Ion:105 Resp: 67173
 Ion Ratio Lower Upper
 105 100
 120 593.5 38.0 57.0#

