

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092818\
 Data File : VU027291.D
 Acq On : 28 Sep 2018 23:37
 Operator : MD/SY
 Sample : PB113306ZHE#02
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB113306ZHE#02

Quant Time: Sep 29 00:11:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 22 01:31:57 2018
 Response via : Initial Calibration

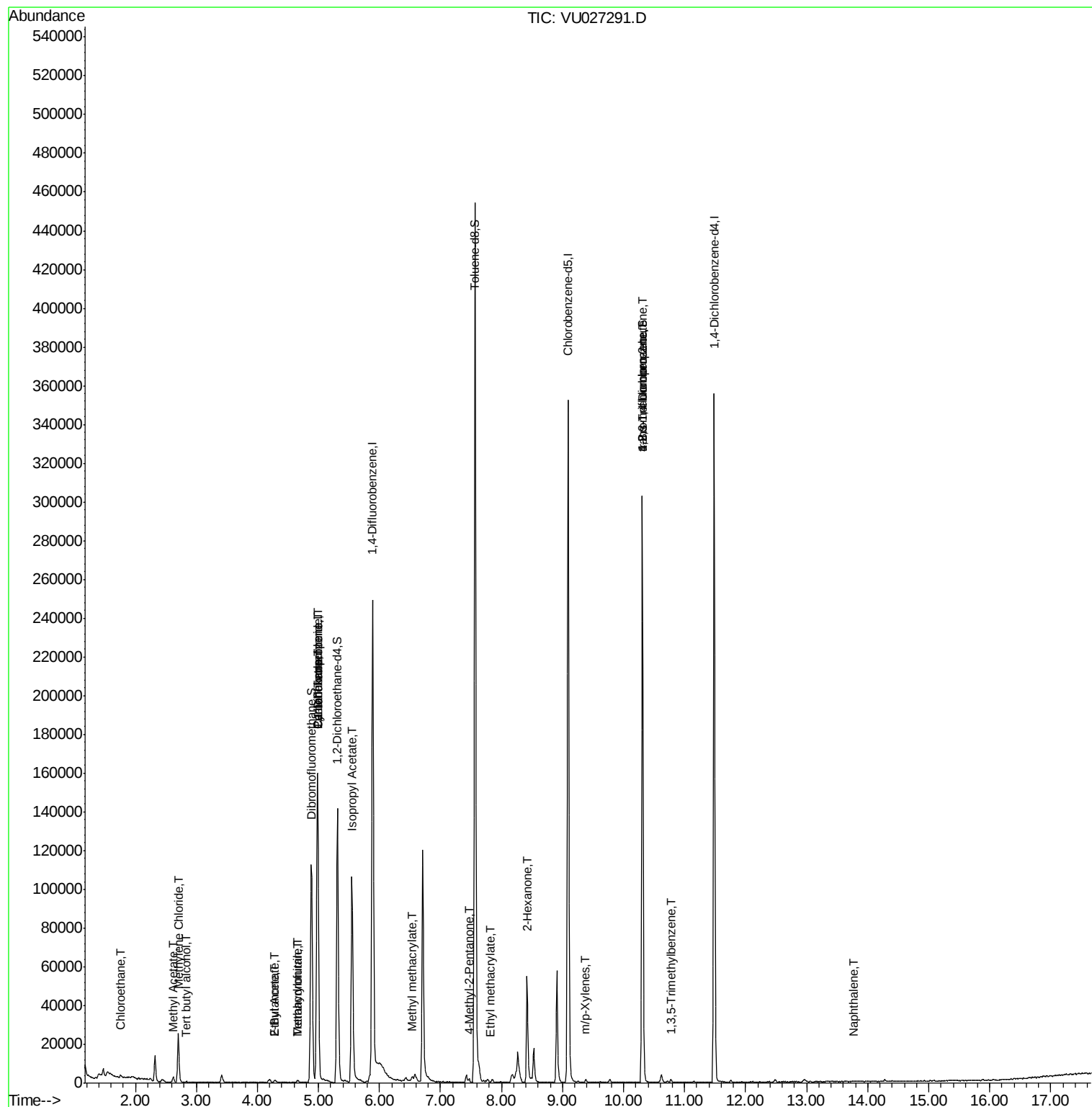
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	116830	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	198077	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	184311	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	86703	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	107149	45.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.14%	
35) Dibromofluoromethane	4.88	113	77514	45.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.30%	
50) Toluene-d8	7.57	98	304810	46.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.16%	
62) 4-Bromofluorobenzene	10.31	95	102004	45.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.86%	
Target Compounds						
					Qvalue	
6) Chloroethane	1.77	64	358	0.228	ug/l #	43
11) Tert butyl alcohol	2.83	59	196	0.364	ug/l #	72
16) Acetone	2.32	43	14669	Below Cal		100
18) Methyl Acetate	2.62	43	3386	1.012	ug/l	98
20) Methylene Chloride	2.70	84	10317	4.899	ug/l	99
25) 2-Butanone	4.28	43	1652	0.836	ug/l	95
29) Tetrahydrofuran	4.65	42	332	0.278	ug/l #	59
31) Cyclohexane	4.99	56	2766	0.217	ug/l #	1
36) 1,1-Dichloropropene	4.99	75	10334	3.909	ug/l #	50
37) Ethyl Acetate	4.28	43	1652	0.462	ug/l #	70
38) Carbon Tetrachloride	4.99	117	11979	4.762	ug/l #	17
41) Methacrylonitrile	4.66	41	507	0.273	ug/l #	35
43) Isopropyl Acetate	5.55	43	127772	24.482	ug/l	99
48) Methyl methacrylate	6.54	41	4694	2.631	ug/l #	20
51) 4-Methyl-2-Pentanone	7.47	43	822	0.234	ug/l #	80
56) Ethyl methacrylate	7.82	69	124	2.229	ug/l #	21
59) 2-Hexanone	8.42	43	8696	3.165	ug/l #	56
68) m/p-Xylenes	9.38	106	561	1.670	ug/l	99
76) 1,2,3-Trichloropropane	10.31	75	53114	20.165	ug/l #	36
80) 1,3,5-Trimethylbenzene	10.77	105	1209	0.222	ug/l	98
81) trans-1,4-Dichloro-2-buten	10.31	75	53114	64.530	ug/l #	100
95) Naphthalene	13.76	128	464	1.752	ug/l #	69

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027291.D

Acq: 28 Sep 2018 23:37

Instrument :

MSVOA_U

ClientSampleId :

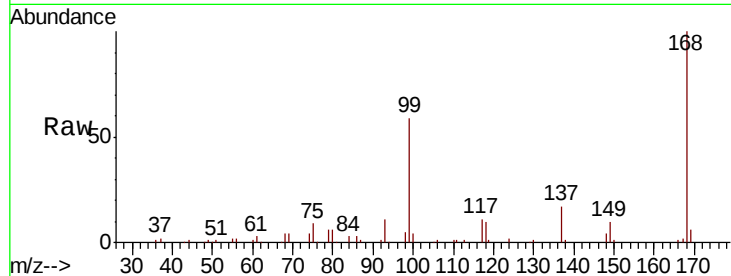
PB113306ZHE#02

Tgt Ion:168 Resp: 116830

Ion Ratio Lower Upper

168 100

99 58.8 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): VU026969.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU026969.D (-1169) (-)

4.99

60000

50000

40000

30000

20000

10000

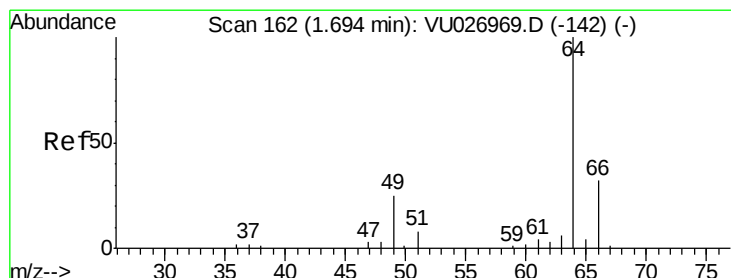
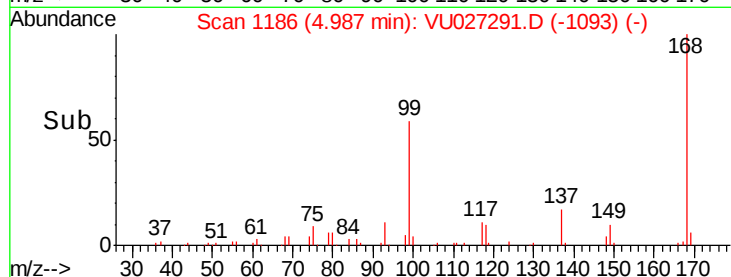
0

4.90

5.00

5.10

Time-->



#6

Chloroethane

Concen: 0.228 ug/l

RT: 1.77 min Scan# 184

Delta R.T. 0.07 min

Lab File: VU027291.D

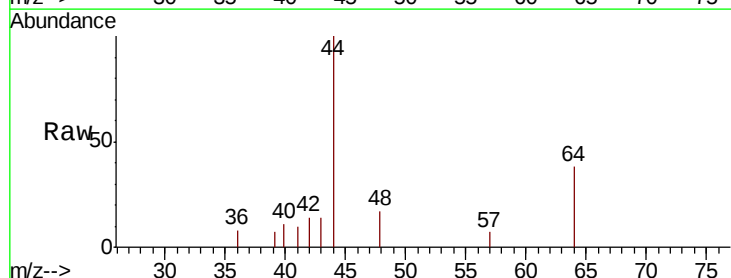
Acq: 28 Sep 2018 23:37

Tgt Ion: 64 Resp: 358

Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VU026969.D (-142) (-)

Ion 65.90 (65.60 to 66.60): VU026969.D (-142) (-)

1.77

600

400

200

0

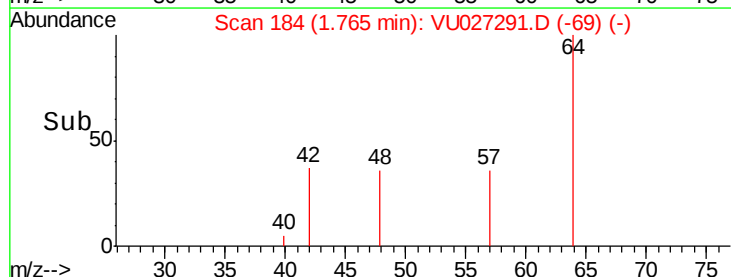
1.74

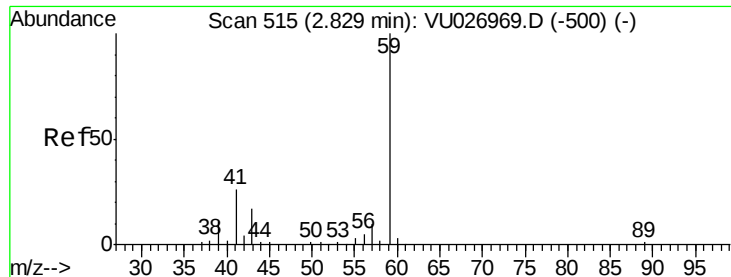
1.76

1.78

1.80

Time-->

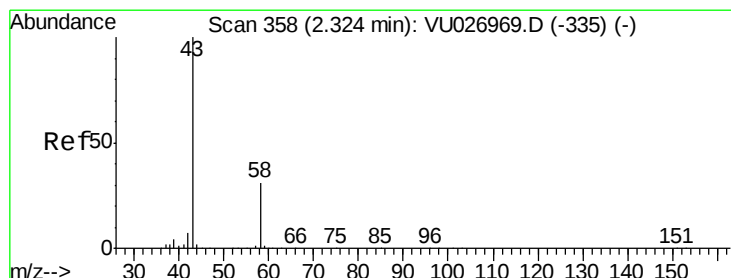
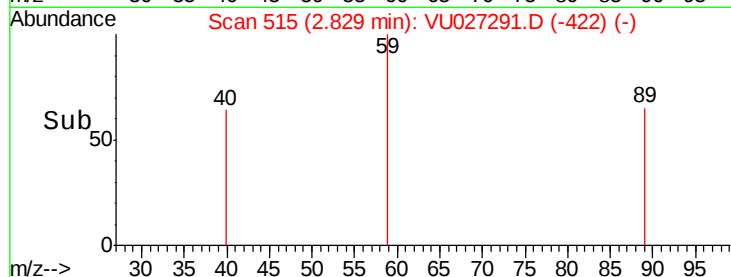
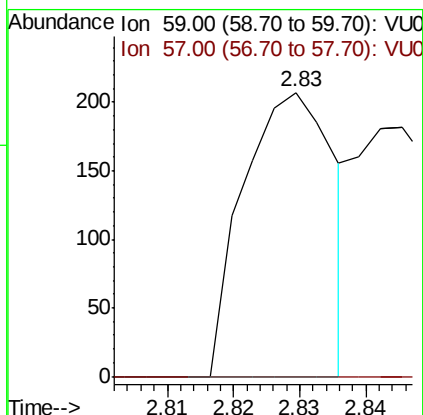
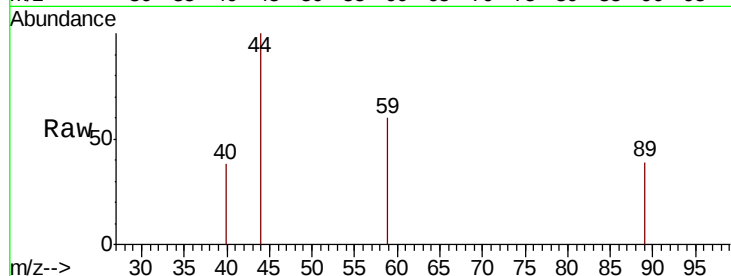




#11
Tert butyl alcohol
Concen: 0.364 ug/l
RT: 2.83 min Scan# 515
Delta R.T. 0.00 min
Lab File: VU027291.D
Acq: 28 Sep 2018 23:37

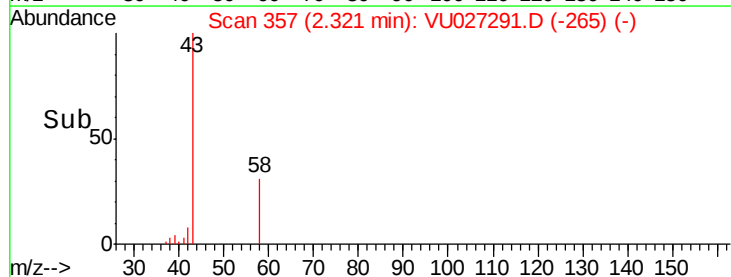
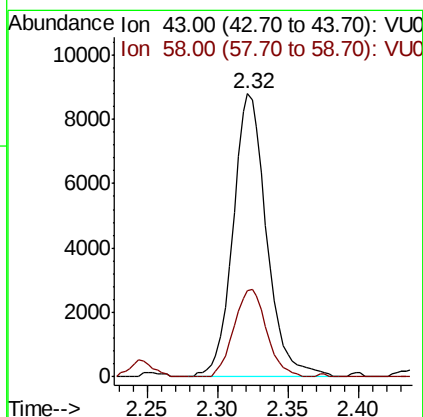
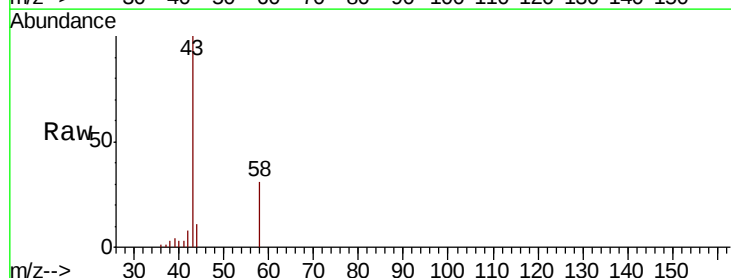
Instrument :
MSVOA_U
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PB113306ZHE#02

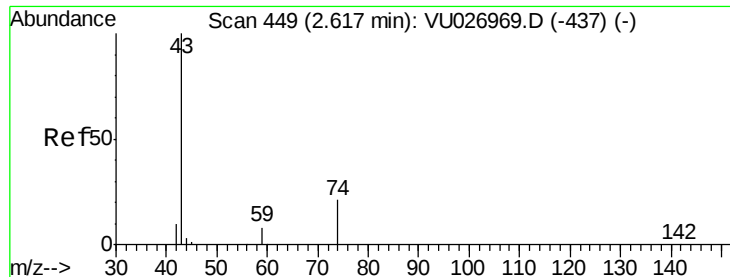
Tgt Ion: 59 Resp: 196
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#16
Acetone
Concen: Below Cal
RT: 2.32 min Scan# 357
Delta R.T. -0.00 min
Lab File: VU027291.D
Acq: 28 Sep 2018 23:37

Tgt Ion: 43 Resp: 14669
Ion Ratio Lower Upper
43 100
58 30.6 24.6 36.8

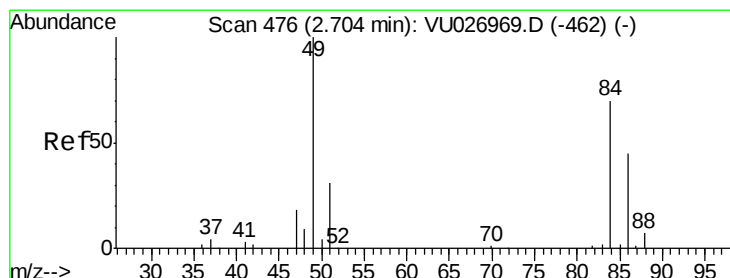
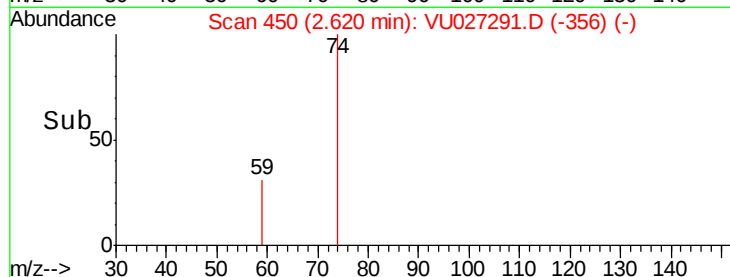
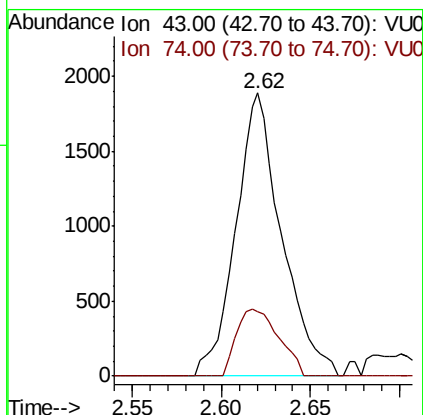
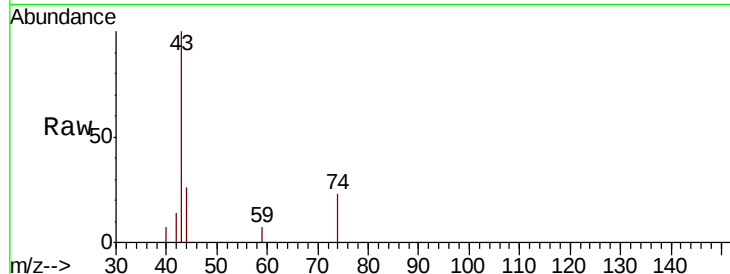




#18
Methyl Acetate
Concen: 1.012 ug/l
RT: 2.62 min Scan# 450
Delta R.T. 0.00 min
Lab File: VU027291.D
Acq: 28 Sep 2018 23:37

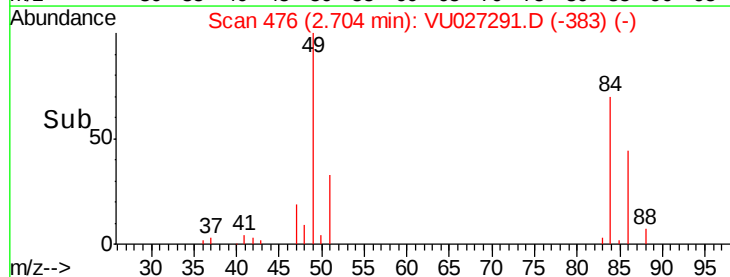
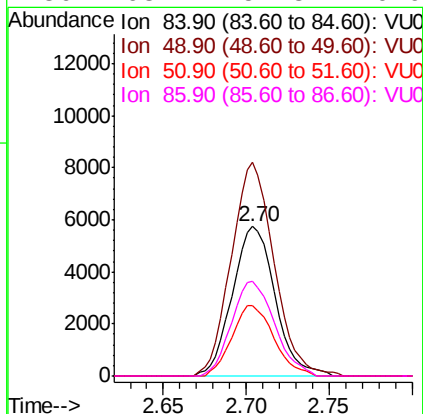
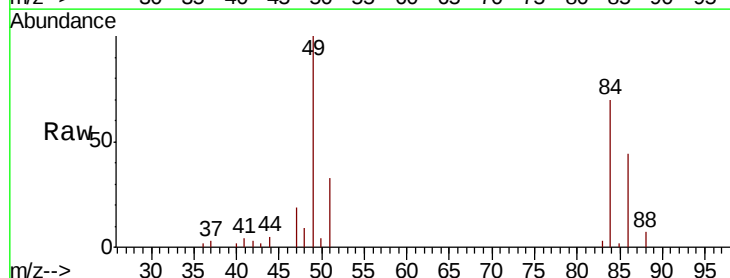
Instrument :
MSVOA_U
ClientSampleId :
PB113306ZHE#02

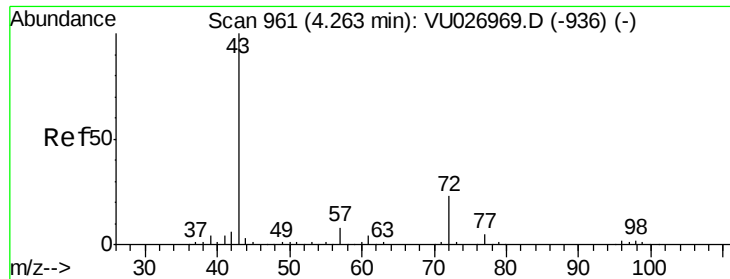
Tgt Ion: 43 Resp: 3386
Ion Ratio Lower Upper
43 100
74 21.9 16.6 25.0



#20
Methylene Chloride
Concen: 4.899 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU027291.D
Acq: 28 Sep 2018 23:37

Tgt Ion: 84 Resp: 10317
Ion Ratio Lower Upper
84 100
49 142.8 114.9 172.3
51 47.2 35.8 53.8
86 63.2 51.3 76.9

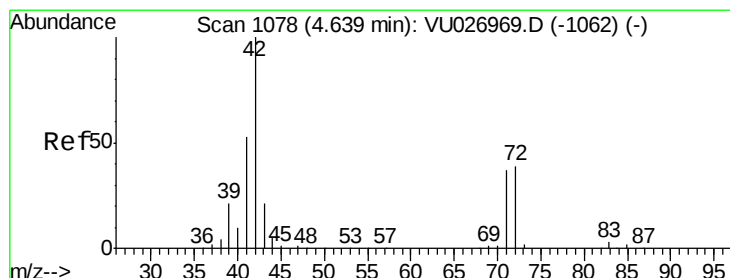
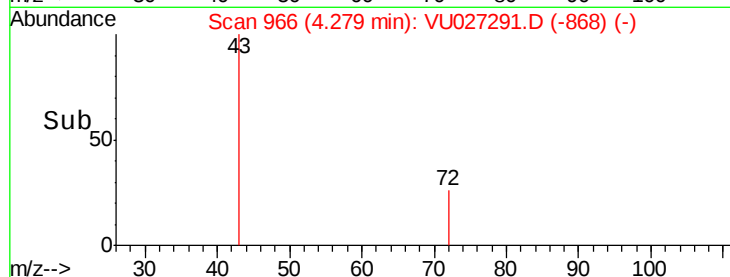
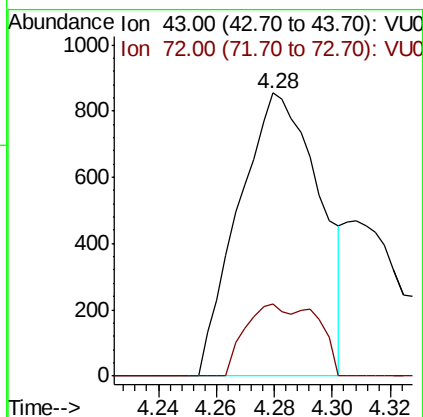
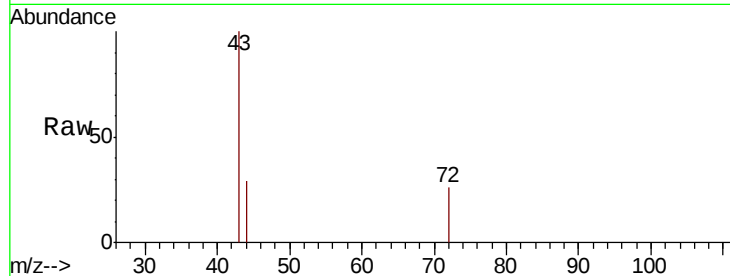




#25
 2-Butanone
 Concen: 0.836 ug/l
 RT: 4.28 min Scan# 966
 Delta R.T. 0.02 min
 Lab File: VU027291.D
 Acq: 28 Sep 2018 23:37

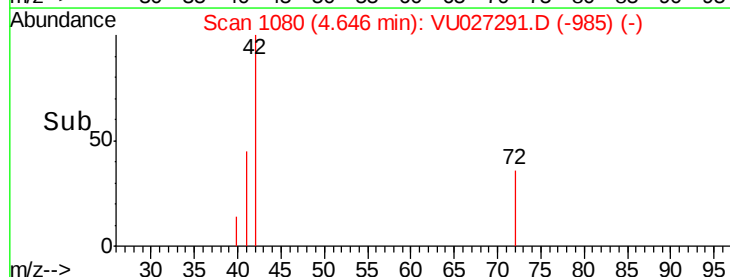
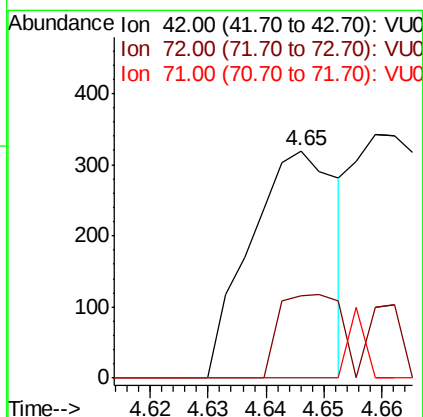
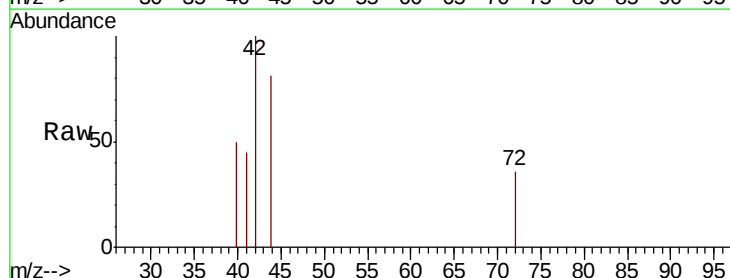
Instrument :
 MSVOA_U
 ClientSampleId :
 PB113306ZHE#02

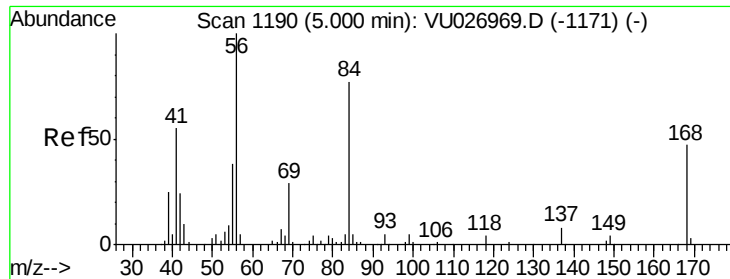
Tgt Ion: 43 Resp: 1652
 Ion Ratio Lower Upper
 43 100
 72 25.6 18.4 27.6



#29
 Tetrahydrofuran
 Concen: 0.278 ug/l
 RT: 4.65 min Scan# 1080
 Delta R.T. 0.01 min
 Lab File: VU027291.D
 Acq: 28 Sep 2018 23:37

Tgt Ion: 42 Resp: 332
 Ion Ratio Lower Upper
 42 100
 72 26.2 31.7 47.5#
 71 0.0 29.6 44.4#

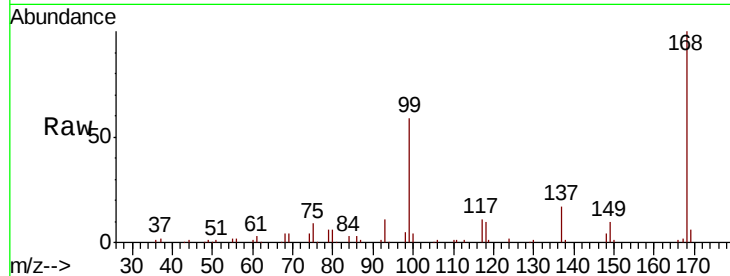




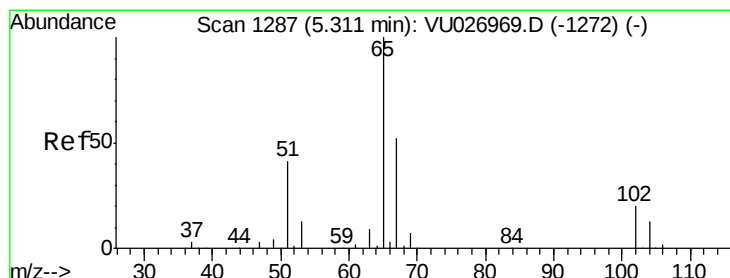
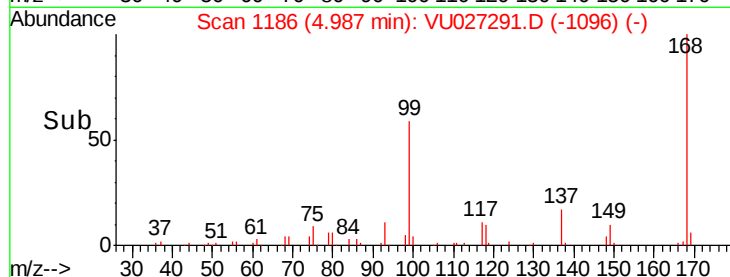
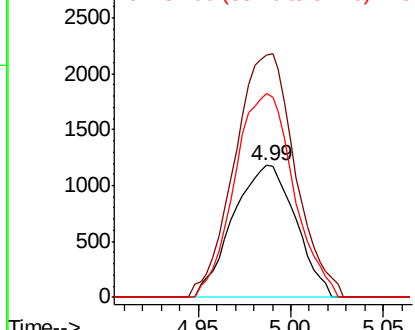
#31
Cyclohexane
Concen: 0.217 ug/l
RT: 4.99 min Scan# 1186
Delta R.T. -0.01 min
Lab File: VU027291.D
Acq: 28 Sep 2018 23:37

Instrument :
MSVOA_U
ClientSampleId :
PB113306ZHE#02

Tgt Ion: 56 Resp: 2766
Ion Ratio Lower Upper
56 100
69 183.1 23.0 34.4#
84 154.0 61.4 92.2#

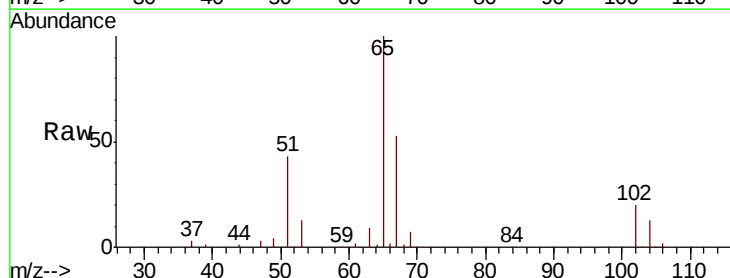


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

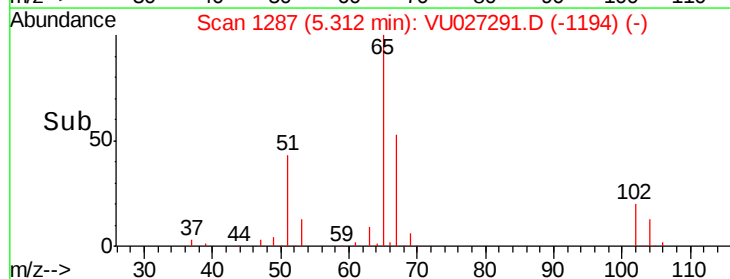
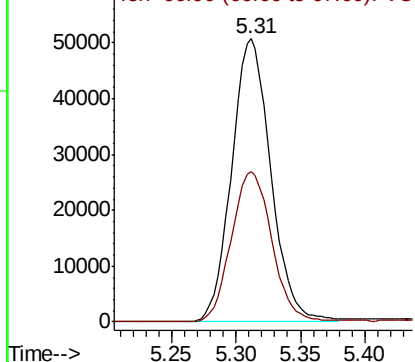


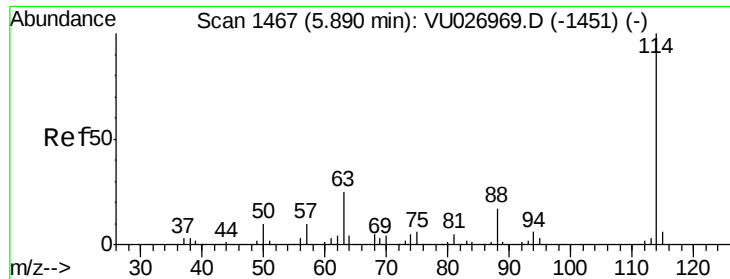
#33
1,2-Dichloroethane-d4
Concen: 45.568 ug/l
RT: 5.31 min Scan# 1287
Delta R.T. 0.00 min
Lab File: VU027291.D
Acq: 28 Sep 2018 23:37

Tgt Ion: 65 Resp: 107149
Ion Ratio Lower Upper
65 100
67 54.7 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0

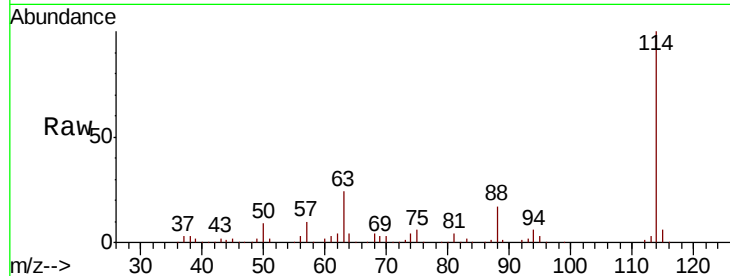




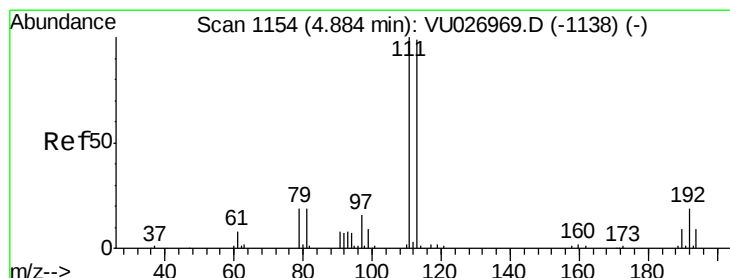
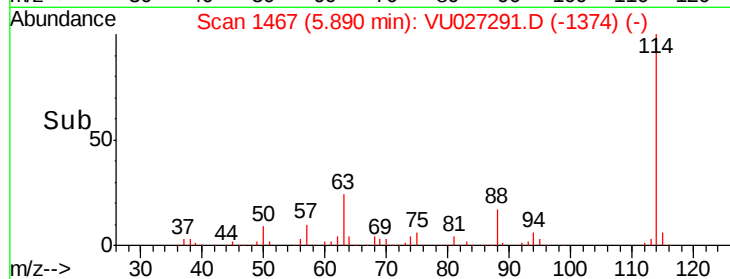
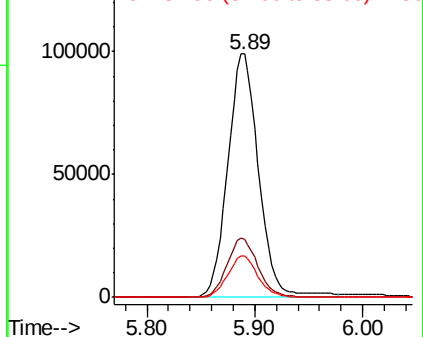
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: VU027291.D
 Acq: 28 Sep 2018 23:37

Instrument :
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 PB113306ZHE#02

Tgt Ion	Ratio	Lower	Upper
114	100		
63	23.9	0.0	49.2
88	17.0	0.0	33.8

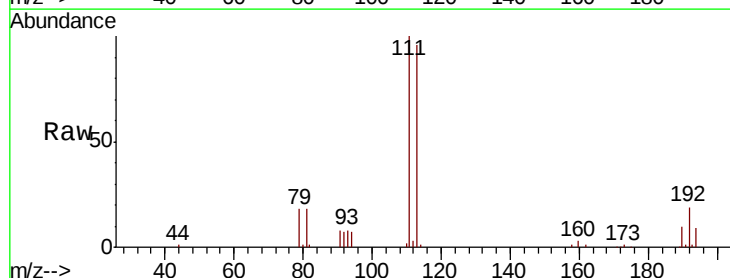


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

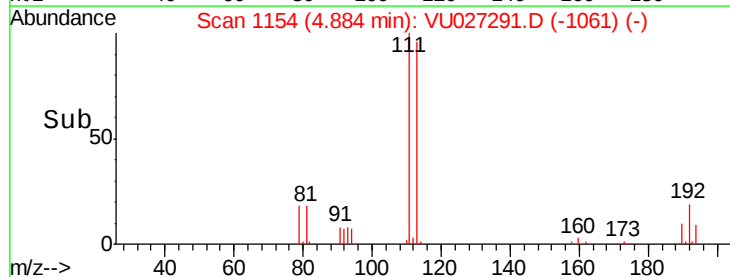
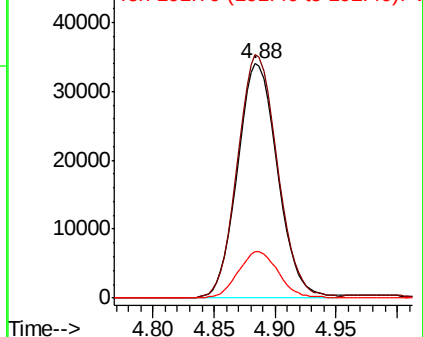


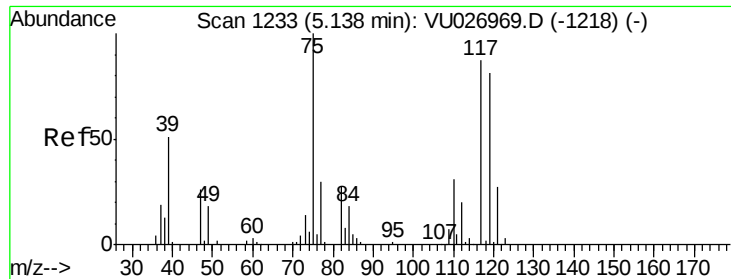
#35
 Dibromofluoromethane
 Concen: 45.147 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: VU027291.D
 Acq: 28 Sep 2018 23:37

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.5	82.2	123.4
192	19.9	15.2	22.8



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

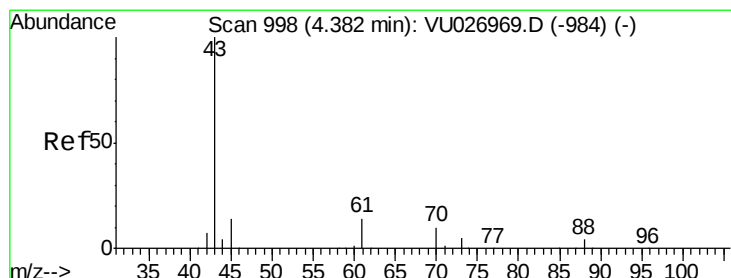
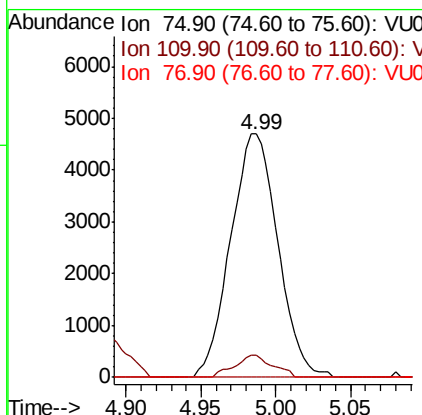
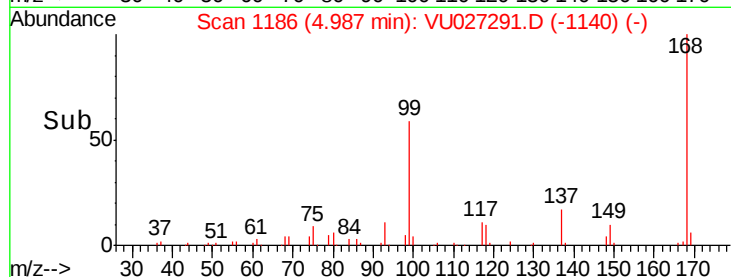
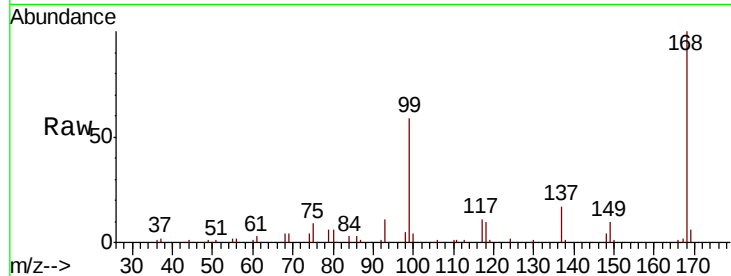




#36
 1,1-Dichloropropene
 Concen: 3.909 ug/l
 RT: 4.99 min Scan# 1186
 Delta R.T. -0.15 min
 Lab File: VU027291.D
 Acq: 28 Sep 2018 23:37

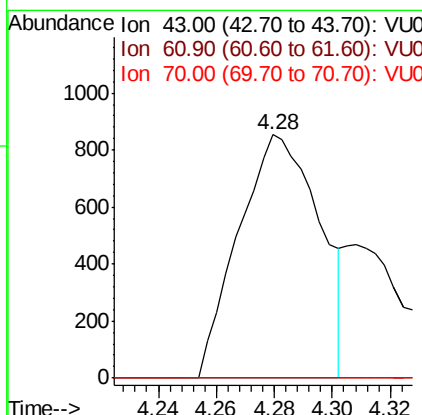
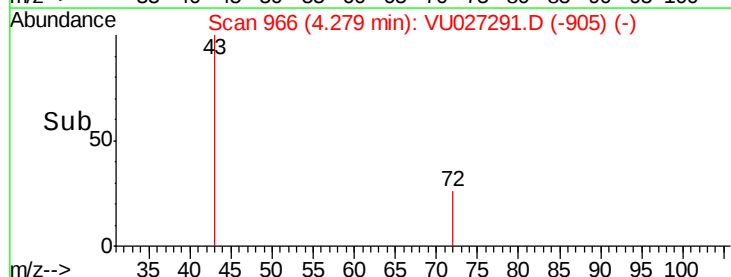
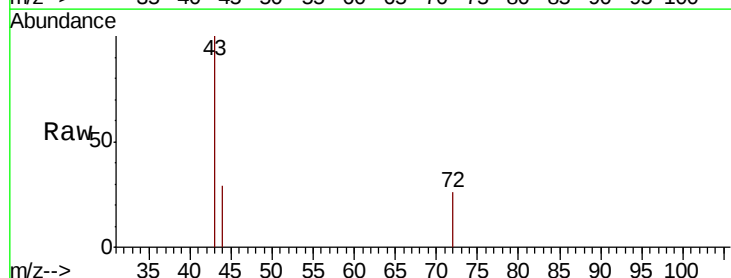
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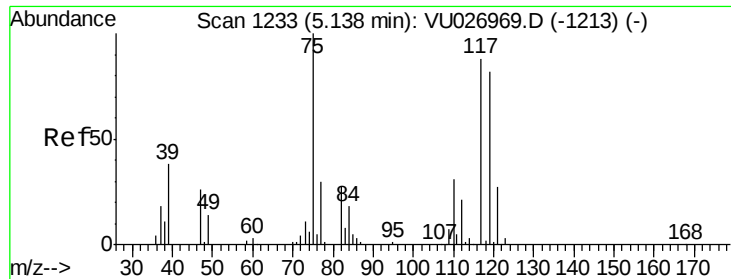
Tgt Ion: 75 Resp: 10334
 Ion Ratio Lower Upper
 75 100
 110 7.3 16.1 48.2#
 77 0.0 24.6 36.8#



#37
 Ethyl Acetate
 Concen: 0.462 ug/l
 RT: 4.28 min Scan# 966
 Delta R.T. -0.10 min
 Lab File: VU027291.D
 Acq: 28 Sep 2018 23:37

Tgt Ion: 43 Resp: 1652
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.5 15.7#
 70 0.0 7.4 11.0#





#38

Carbon Tetrachloride

Concen: 4.762 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU027291.D

Acq: 28 Sep 2018 23:37

Instrument :

MSVOA_U

ClientSampleId :

PB113306ZHE#02

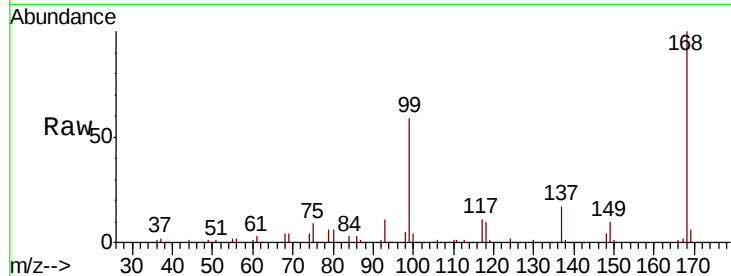
Tgt Ion:117 Resp: 11979

Ion Ratio Lower Upper

117 100

119 4.9 74.4 111.6#

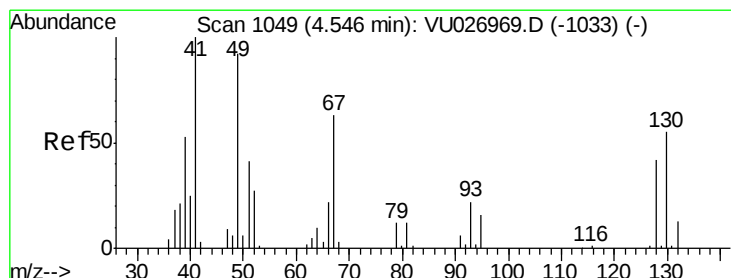
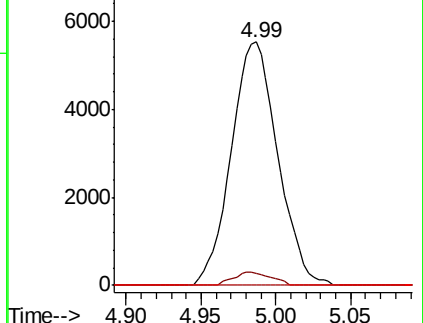
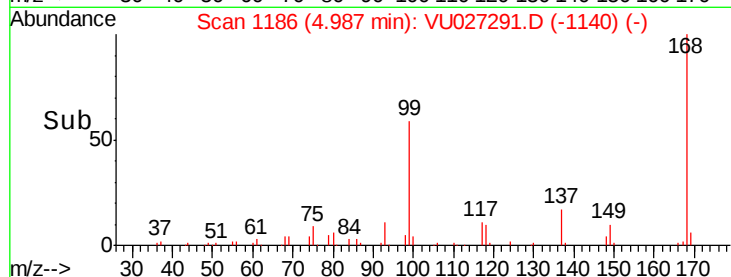
121 0.0 24.2 36.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 0.273 ug/l

RT: 4.66 min Scan# 1084

Delta R.T. 0.11 min

Lab File: VU027291.D

Acq: 28 Sep 2018 23:37

Tgt Ion: 41 Resp: 507

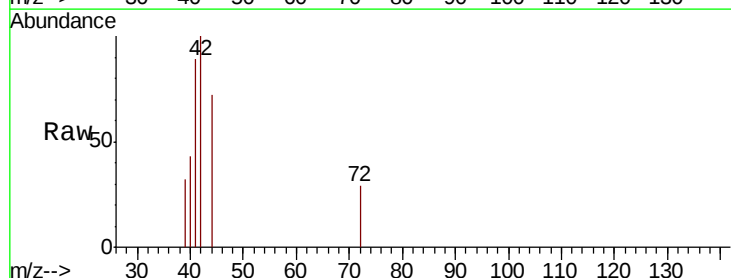
Ion Ratio Lower Upper

41 100

39 18.5 42.9 64.3#

67 0.0 52.4 78.6#

52 0.0 21.3 31.9#

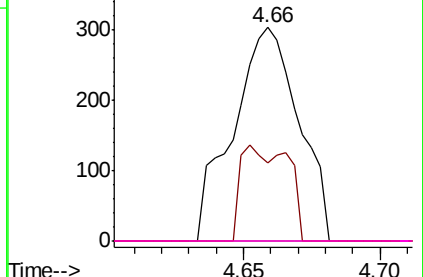
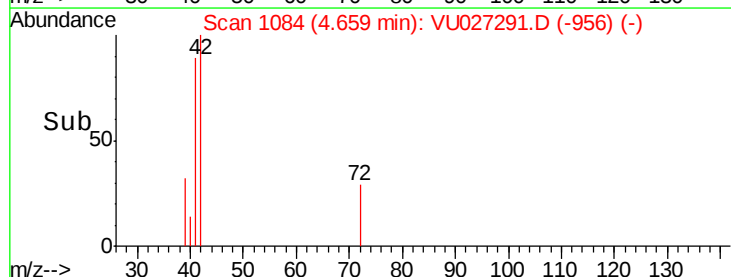


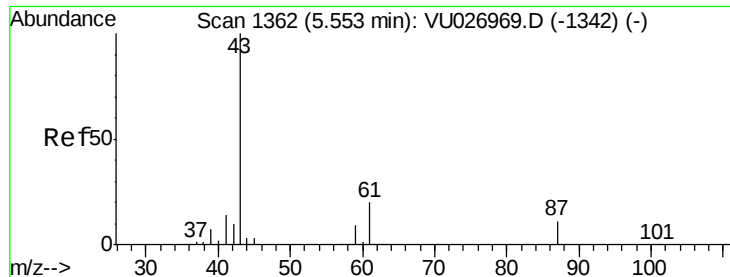
Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 67.00 (66.70 to 67.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

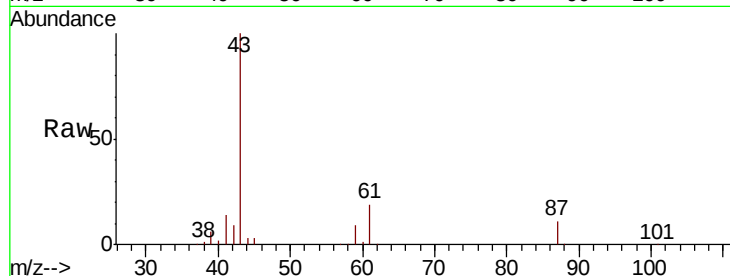




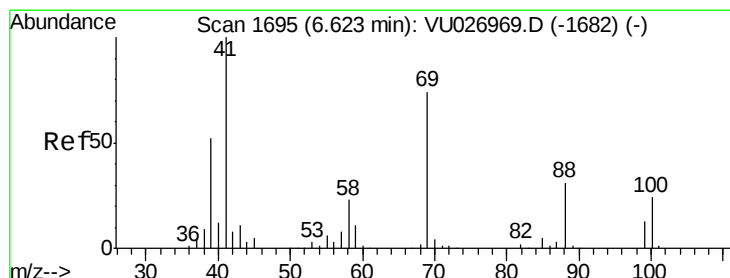
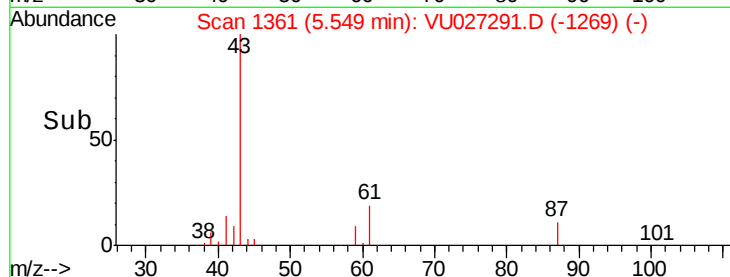
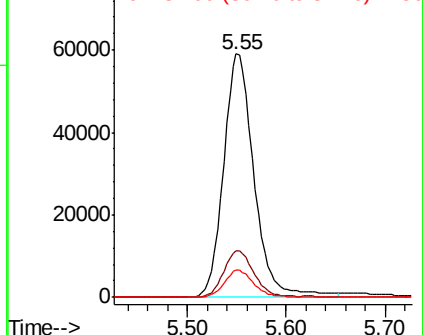
#43
Isopropyl Acetate
Concen: 24.482 ug/l
RT: 5.55 min Scan# 1361
Delta R.T. -0.00 min
Lab File: VU027291.D
Acq: 28 Sep 2018 23:37

Instrument :
MSVOA_U
ClientSampleId :
PB113306ZHE#02

Tgt Ion: 43 Resp: 127772
Ion Ratio Lower Upper
43 100
61 18.9 15.7 23.5
87 10.8 9.0 13.4

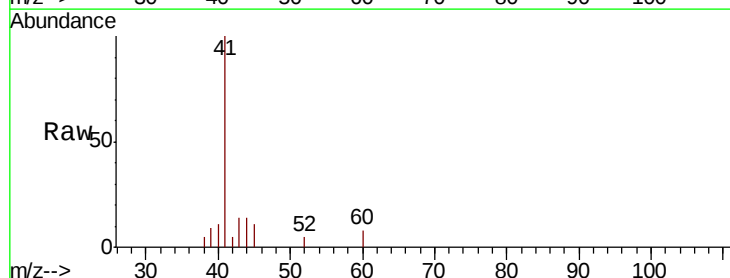


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 87.00 (86.70 to 87.70): VU0

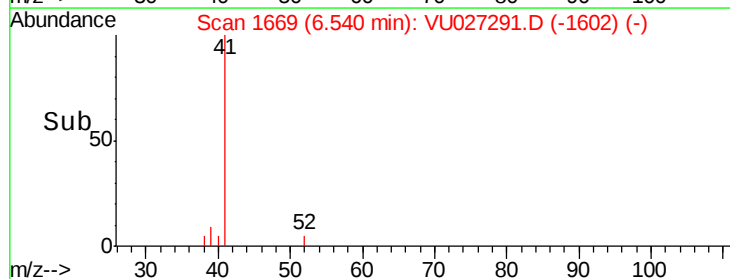
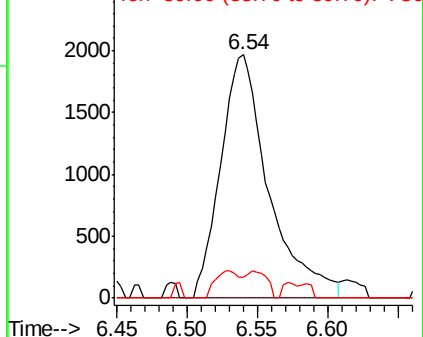


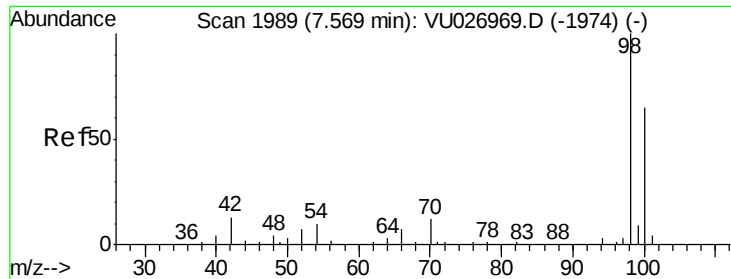
#48
Methyl methacrylate
Concen: 2.631 ug/l
RT: 6.54 min Scan# 1669
Delta R.T. -0.08 min
Lab File: VU027291.D
Acq: 28 Sep 2018 23:37

Tgt Ion: 41 Resp: 4694
Ion Ratio Lower Upper
41 100
69 0.0 60.6 90.8#
39 4.6 42.8 64.2#



Abundance Ion 41.00 (40.70 to 41.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 39.00 (38.70 to 39.70): VU0





#50

Toluene-d8

Concen: 46.583 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU027291.D

Acq: 28 Sep 2018 23:37

Instrument :

MSVOA_U

ClientSampleId :

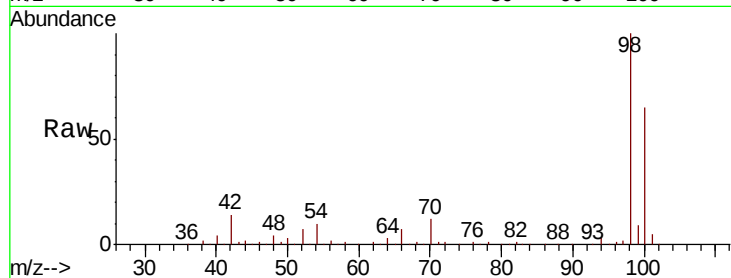
PB113306ZHE#02

Tgt Ion: 98 Resp: 304810

Ion Ratio Lower Upper

98 100

100 64.2 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VU026969.D (-1974) (-)

Ion 100.00 (99.70 to 100.70): VU026969.D (-1974) (-)

7.57

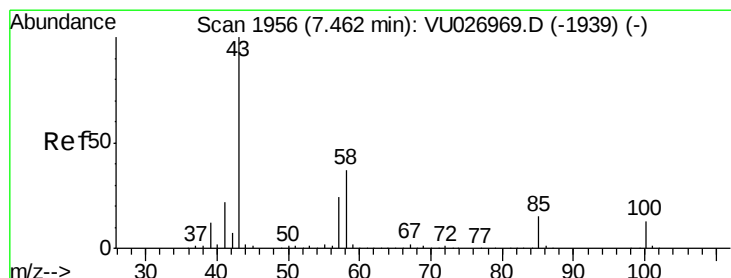
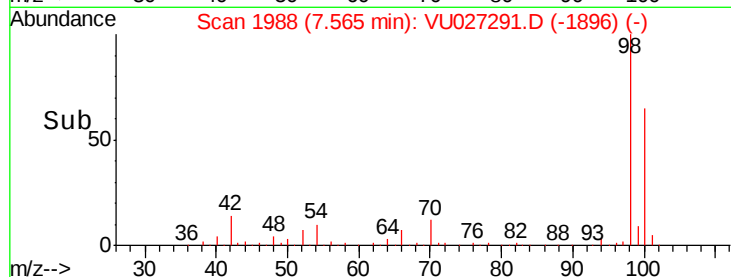
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.234 ug/l

RT: 7.47 min Scan# 1958

Delta R.T. 0.01 min

Lab File: VU027291.D

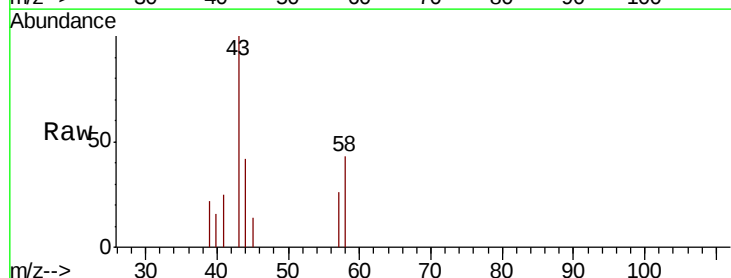
Acq: 28 Sep 2018 23:37

Tgt Ion: 43 Resp: 822

Ion Ratio Lower Upper

43 100

58 48.9 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VU026969.D (-1939) (-)

Ion 58.00 (57.70 to 58.70): VU026969.D (-1939) (-)

1000

800

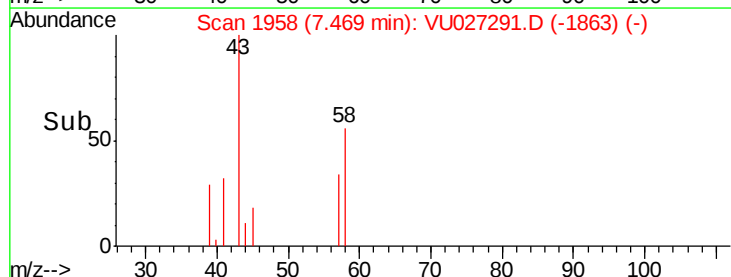
600

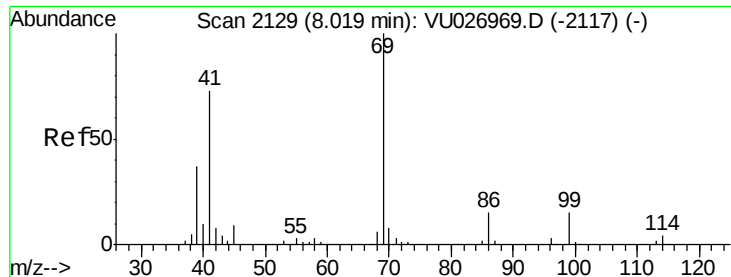
400

200

0

Time-->

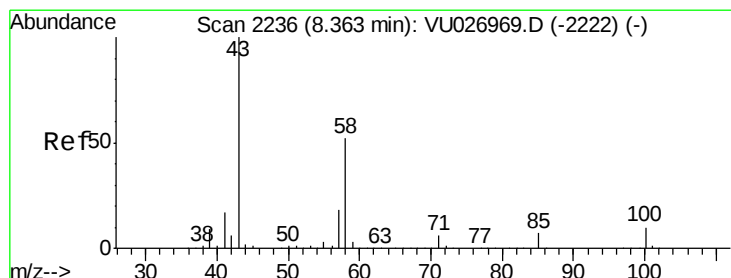
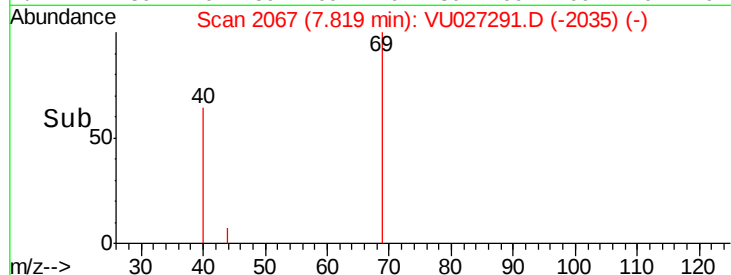
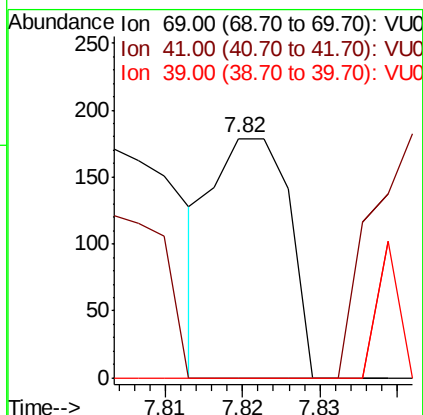
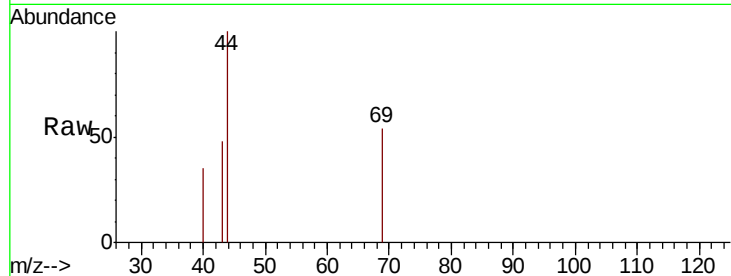




#56
Ethyl methacrylate
Concen: 2.229 ug/l
RT: 7.82 min Scan# 2067
Delta R.T. -0.20 min
Lab File: VU027291.D
Acq: 28 Sep 2018 23:37

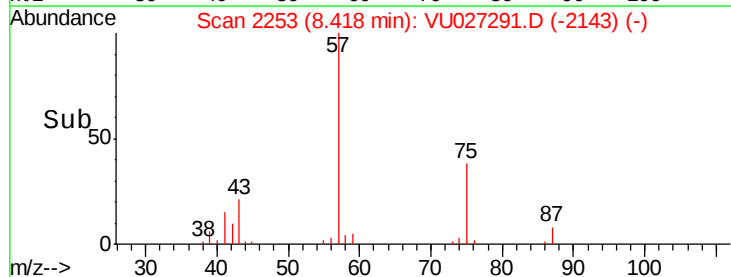
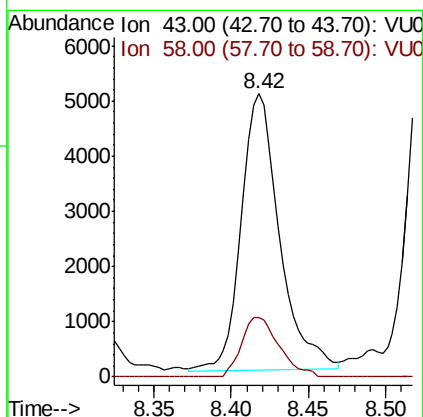
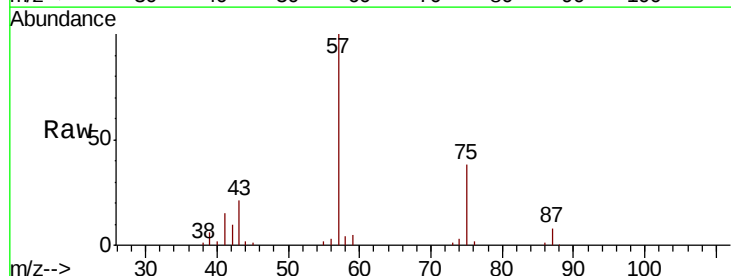
Instrument :
MSVOA_U
ClientSampleId :
PB113306ZHE#02

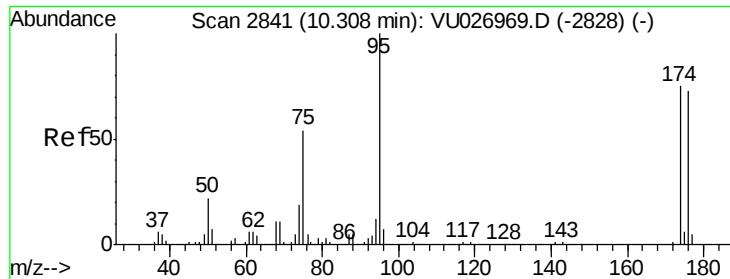
Tgt Ion: 69 Resp: 124
Ion Ratio Lower Upper
69 100
41 0.0 59.0 88.4#
39 0.0 30.2 45.4#



#59
2-Hexanone
Concen: 3.165 ug/l
RT: 8.42 min Scan# 2253
Delta R.T. 0.05 min
Lab File: VU027291.D
Acq: 28 Sep 2018 23:37

Tgt Ion: 43 Resp: 8696
Ion Ratio Lower Upper
43 100
58 21.0 26.1 78.2#

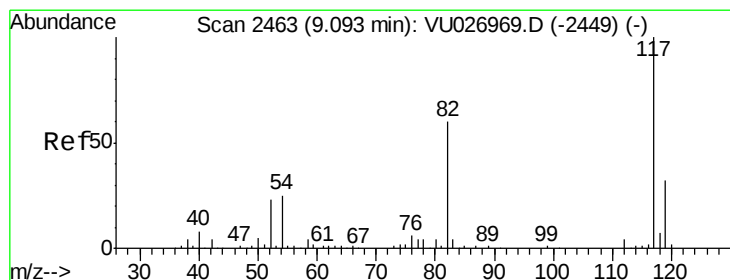
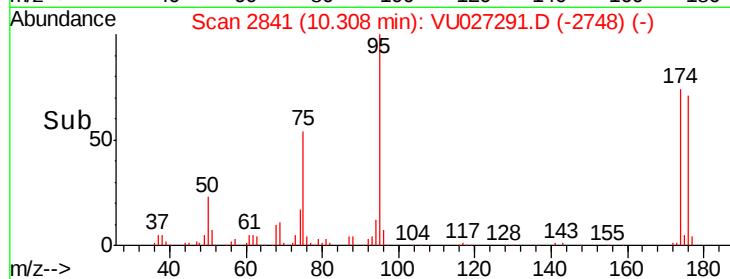
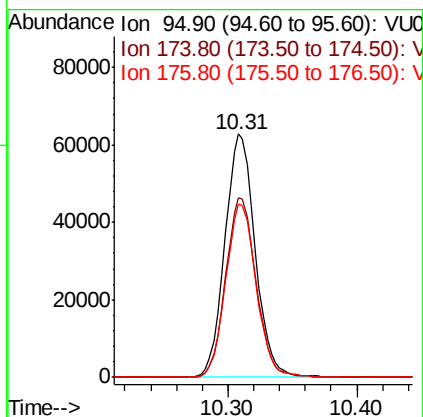
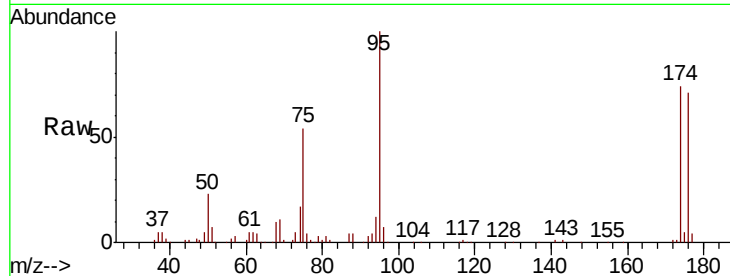




#62
 4-Bromofluorobenzene
 Concen: 45.432 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. 0.00 min
 Lab File: VU027291.D
 Acq: 28 Sep 2018 23:37

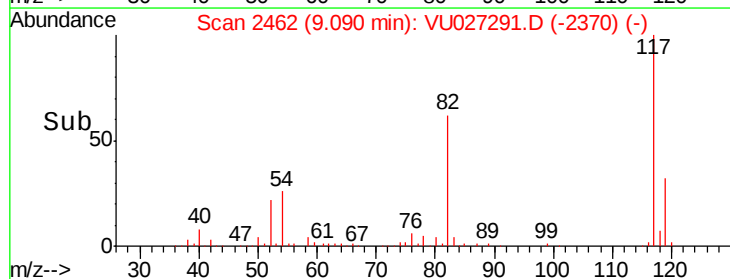
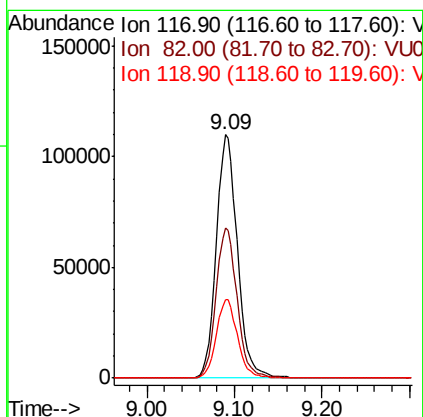
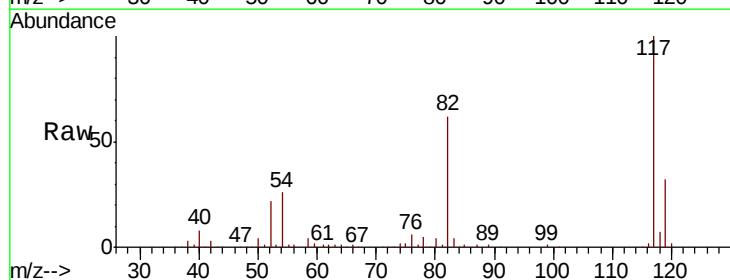
Instrument :
 MSVOA_U
 ClientSampleId :
 PB113306ZHE#02

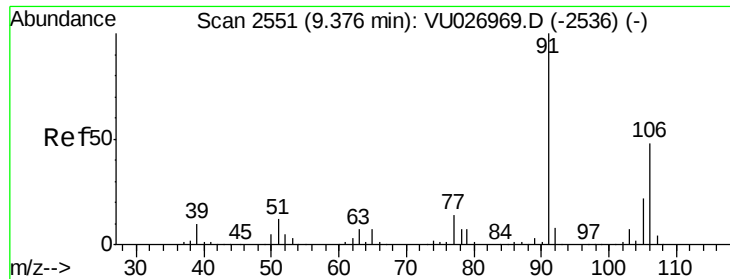
Tgt Ion: 95 Resp: 102004
 Ion Ratio Lower Upper
 95 100
 174 74.2 0.0 150.2
 176 72.0 0.0 145.2



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 9.09 min Scan# 2462
 Delta R.T. -0.00 min
 Lab File: VU027291.D
 Acq: 28 Sep 2018 23:37

Tgt Ion: 117 Resp: 184311
 Ion Ratio Lower Upper
 117 100
 82 61.6 48.0 72.0
 119 32.5 25.8 38.8

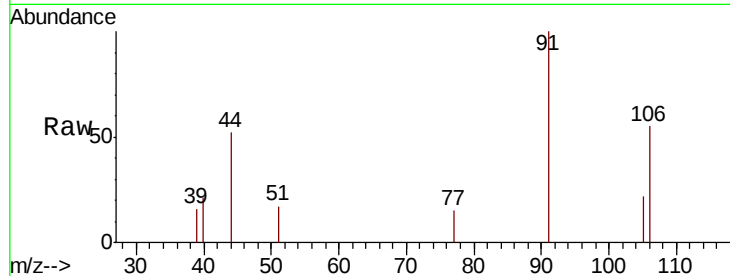




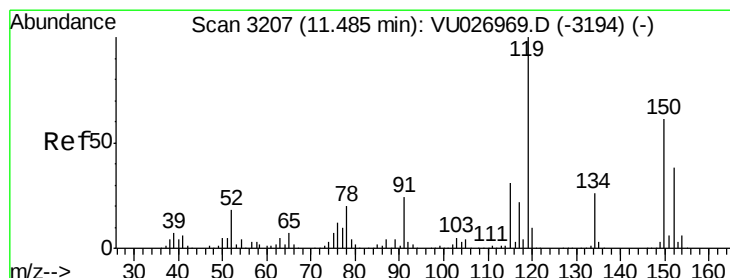
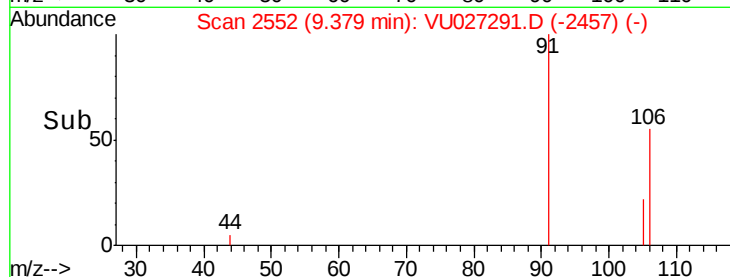
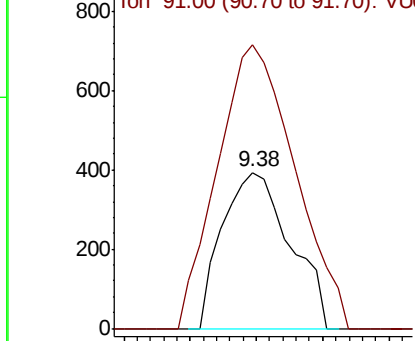
#68
m/p-Xylenes
Concen: 1.670 ug/l
RT: 9.38 min Scan# 2552
Delta R.T. 0.00 min
Lab File: VU027291.D
Acq: 28 Sep 2018 23:37

Instrument :
MSVOA_U
ClientSampleId :
PB113306ZHE#02

Tgt Ion:106 Resp: 561
Ion Ratio Lower Upper
106 100
91 206.8 166.5 249.7

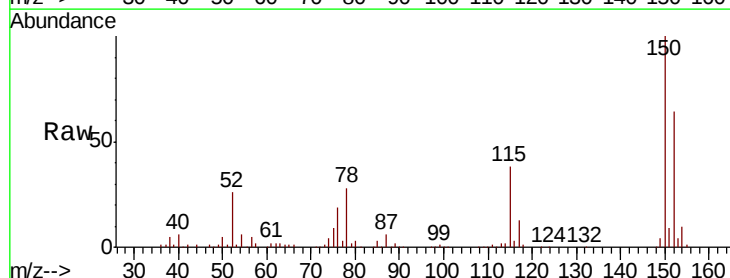


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

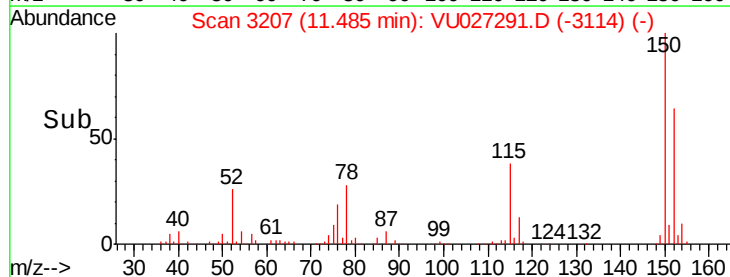
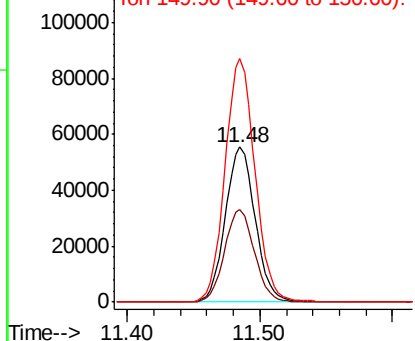


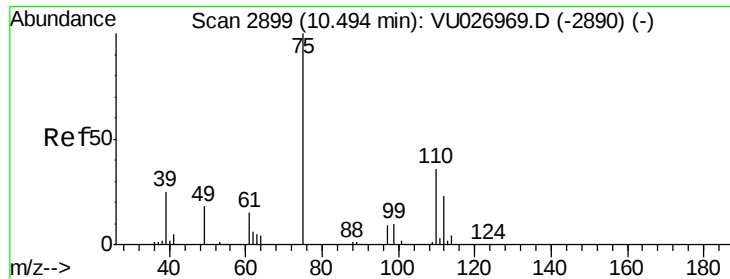
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3207
Delta R.T. 0.00 min
Lab File: VU027291.D
Acq: 28 Sep 2018 23:37

Tgt Ion:152 Resp: 86703
Ion Ratio Lower Upper
152 100
115 59.7 44.9 134.5
150 158.2 0.0 355.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V

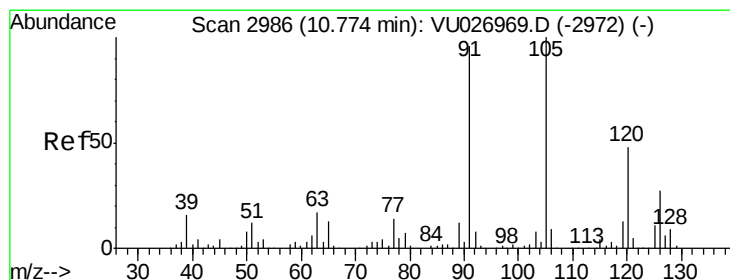
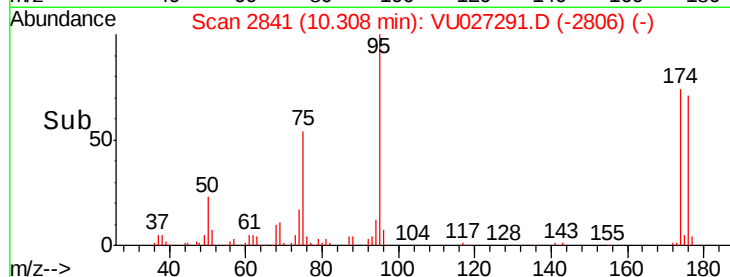
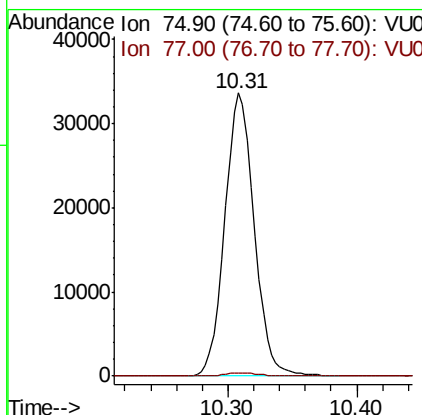
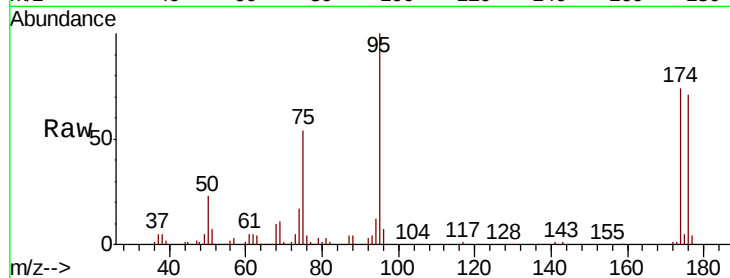




#76
 1,2,3-Trichloropropane
 Concen: 20.165 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. -0.19 min
 Lab File: VU027291.D
 Acq: 28 Sep 2018 23:37

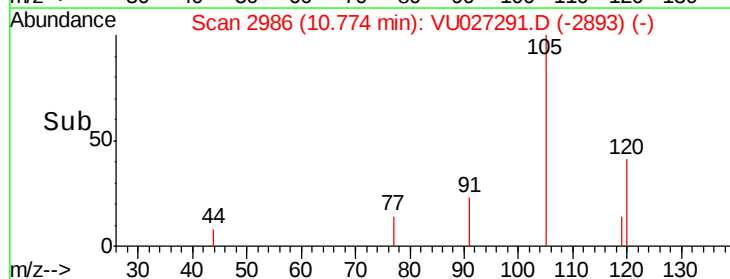
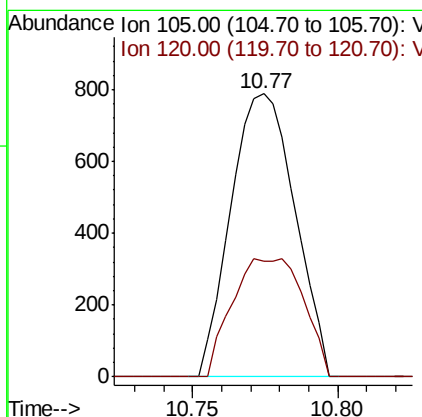
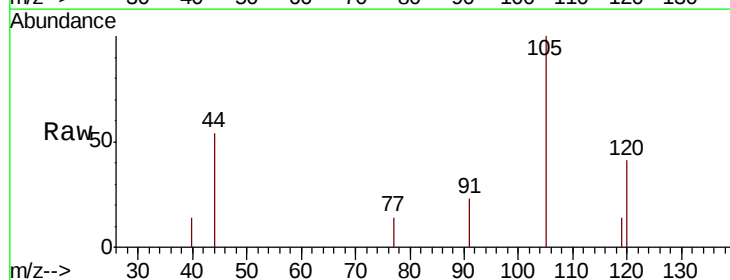
Instrument :
 MSVOA_U
 ClientSampleId :
 PB113306ZHE#02

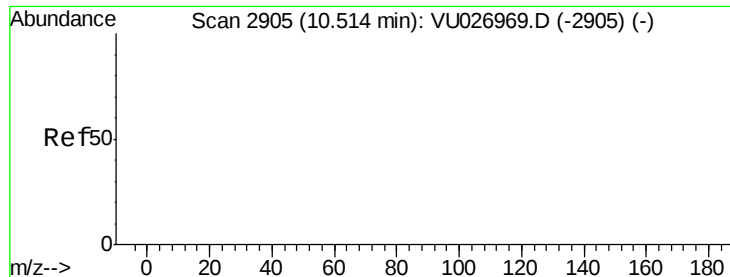
Tgt Ion: 75 Resp: 53114
 Ion Ratio Lower Upper
 75 100
 77 1.2 20.9 62.8#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.222 ug/l
 RT: 10.77 min Scan# 2986
 Delta R.T. 0.00 min
 Lab File: VU027291.D
 Acq: 28 Sep 2018 23:37

Tgt Ion: 105 Resp: 1209
 Ion Ratio Lower Upper
 105 100
 120 46.3 23.9 71.7

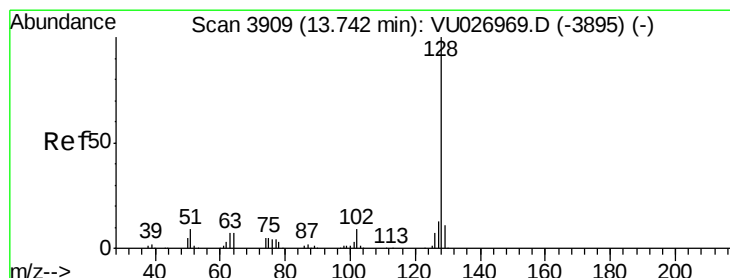
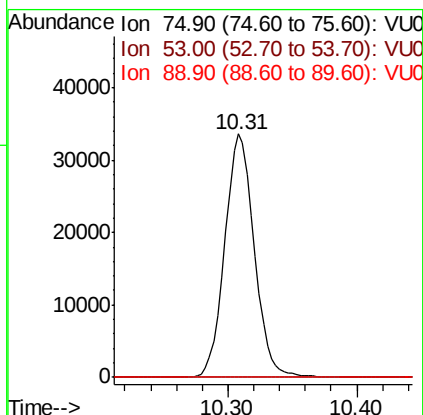
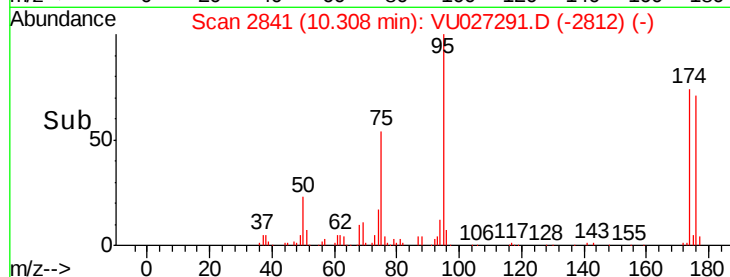
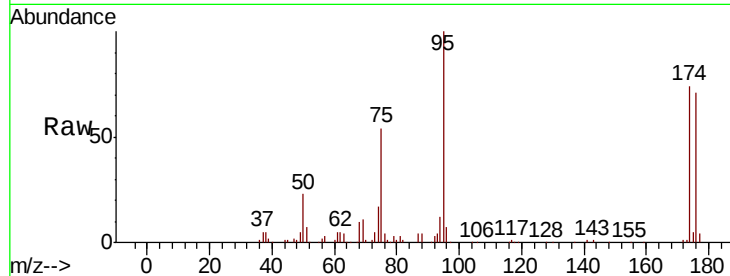




#81
trans-1,4-Dichloro-2-butene
Concen: 64.530 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.21 min
Lab File: VU027291.D
Acq: 28 Sep 2018 23:37

Instrument :
MSVOA_U
ClientSampleId :
PB113306ZHE#02

Tgt Ion: 75 Resp: 53114
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0



#95
Naphthalene
Concen: 1.752 ug/l
RT: 13.76 min Scan# 3916
Delta R.T. 0.02 min
Lab File: VU027291.D
Acq: 28 Sep 2018 23:37

Tgt Ion: 128 Resp: 464
Ion Ratio Lower Upper
128 100
127 0.0 10.6 15.8#
129 0.0 8.6 12.8#

