

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU061818\
 Data File : VU024706.D
 Acq On : 18 Jun 2018 21:04
 Operator : MD/SY
 Sample : J3477-11
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 S36-EB-2018-1

Quant Time: Jun 19 05:16:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 13 13:55:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	193070	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	307218	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	286901	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	154286	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	140262	44.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.00%	
35) Dibromofluoromethane	4.89	113	120240	47.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.32%	
50) Toluene-d8	7.57	98	449096	48.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.58%	
62) 4-Bromofluorobenzene	10.31	95	161446	43.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.44%	

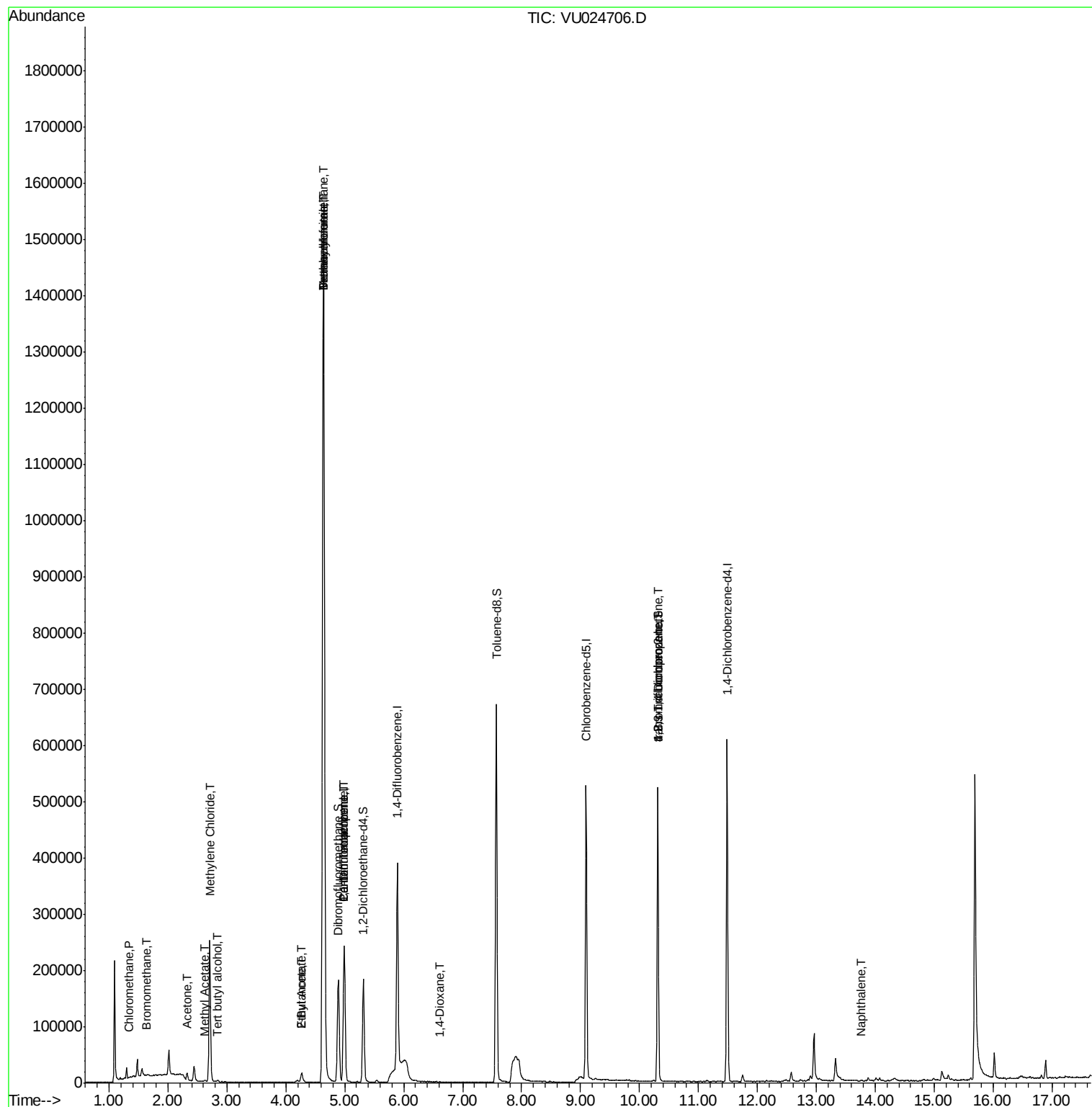
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1034	0.419	ug/l	93
5) Bromomethane	1.63	94	423	0.344	ug/l	91
6) Chloroethane	1.71	64	89	Below Cal	#	43
8) Diethyl Ether	2.14	74	21	Below Cal	#	1
11) Tert butyl alcohol	2.83	59	1423	1.856	ug/l #	72
16) Acetone	2.32	43	13152	7.766	ug/l #	88
18) Methyl Acetate	2.62	43	2648	0.729	ug/l #	88
20) Methylene Chloride	2.71	84	112225	42.234	ug/l	97
25) 2-Butanone	4.27	43	27344	12.021	ug/l	94
28) Bromochloromethane	4.63	49	2083	1.016	ug/l #	16
29) Tetrahydrofuran	4.64	42	1168404	829.423	ug/l	98
31) Cyclohexane	4.99	56	4168	Below Cal	#	34
36) 1,1-Dichloropropene	4.99	75	13720	3.801	ug/l #	51
37) Ethyl Acetate	4.27	43	27344	6.949	ug/l #	70
38) Carbon Tetrachloride	4.99	117	17582	4.429	ug/l #	17
41) Methacrylonitrile	4.64	41	650652	306.703	ug/l #	46
49) 1,4-Dioxane	6.61	88	74	1.143	ug/l #	26
76) 1,2,3-Trichloropropane	10.31	75	81600	24.022	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	81600	55.598	ug/l #	100
95) Naphthalene	13.75	128	676	0.738	ug/l #	69

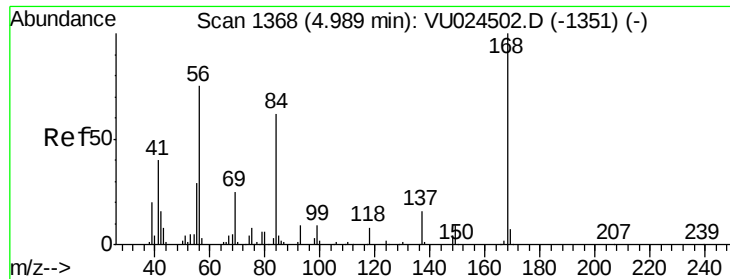
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1369

Delta R.T. 0.00 min

Lab File: VU024706.D

Acq: 18 Jun 2018 21:04

Instrument :

MSVOA_U

ClientSampleId :

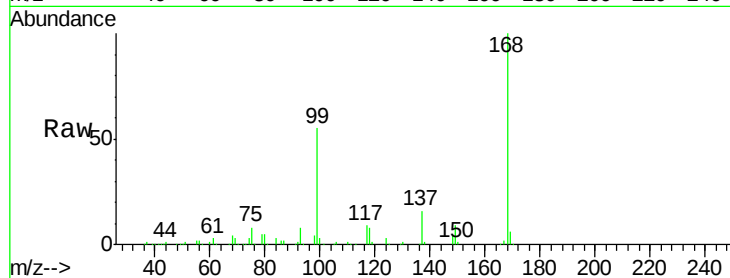
S36-EB-2018-1

Tgt Ion:168 Resp: 193070

Ion Ratio Lower Upper

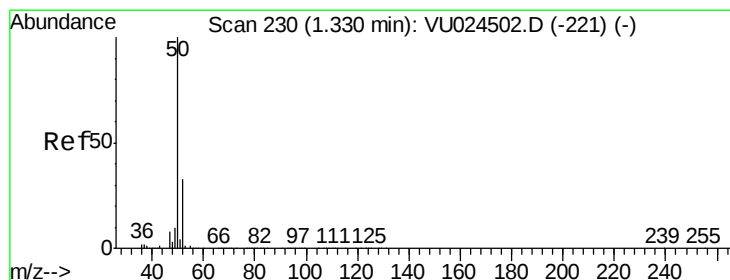
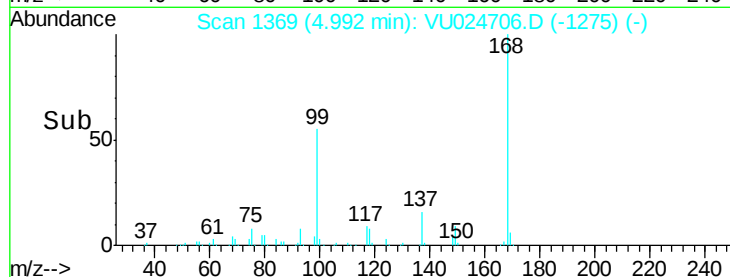
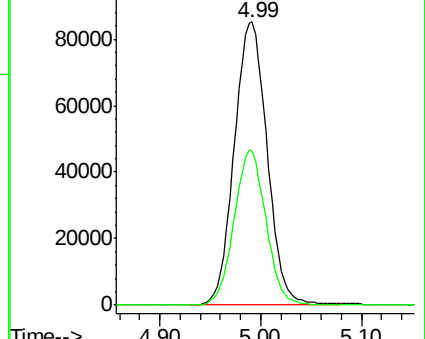
168 100

99 54.6 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024502.D (-1351) (-)

Ion 98.90 (98.60 to 99.60): VU024502.D (-1351) (-)



#3

Chloromethane

Concen: 0.419 ug/l

RT: 1.33 min Scan# 231

Delta R.T. 0.00 min

Lab File: VU024706.D

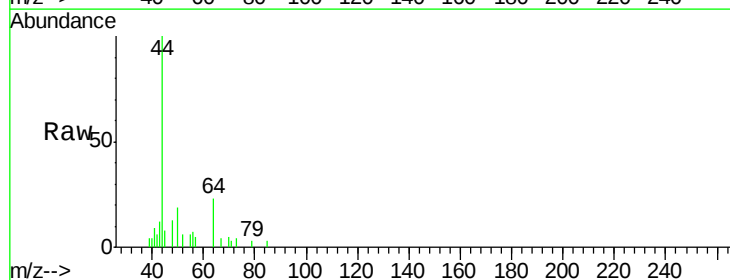
Acq: 18 Jun 2018 21:04

Tgt Ion: 50 Resp: 1034

Ion Ratio Lower Upper

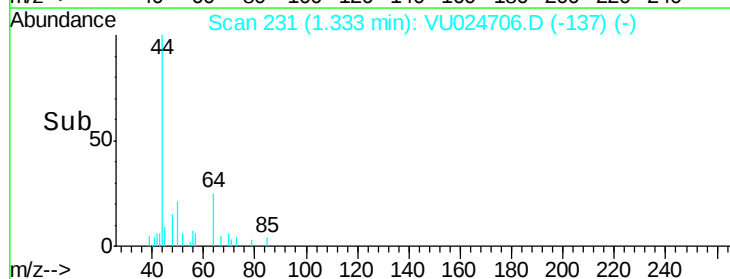
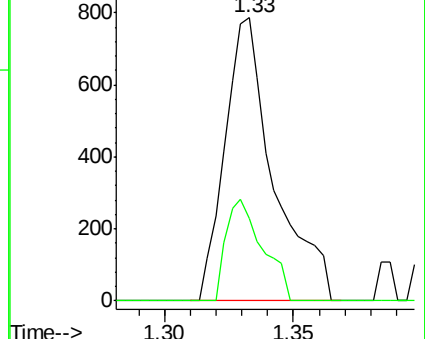
50 100

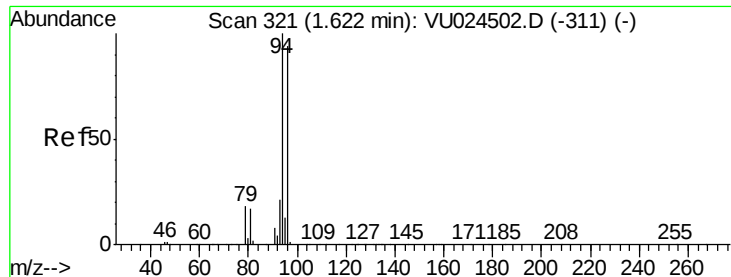
52 29.1 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VU024502.D (-221) (-)

Ion 51.90 (51.60 to 52.60): VU024502.D (-221) (-)





#5

Bromomethane

Concen: 0.344 ug/l

RT: 1.63 min Scan# 324

Delta R.T. 0.01 min

Lab File: VU024706.D

Acq: 18 Jun 2018 21:04

Instrument :

MSVOA_U

ClientSampleId :

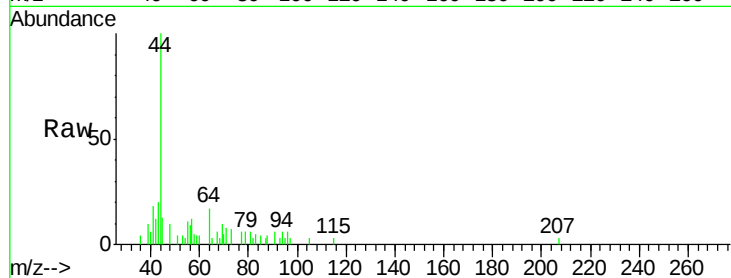
S36-EB-2018-1

Tgt Ion: 94 Resp: 423

Ion Ratio Lower Upper

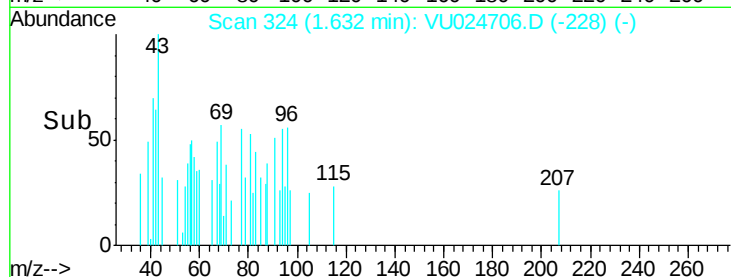
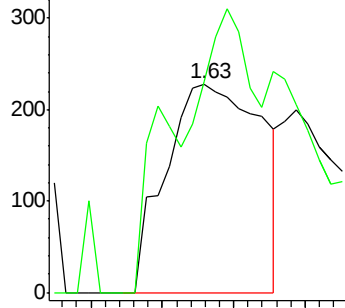
94 100

96 101.3 74.5 111.7

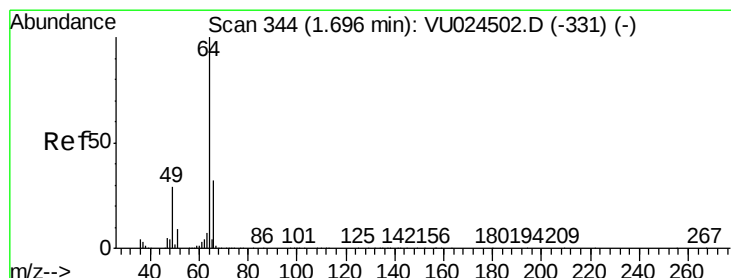


Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 347

Delta R.T. 0.01 min

Lab File: VU024706.D

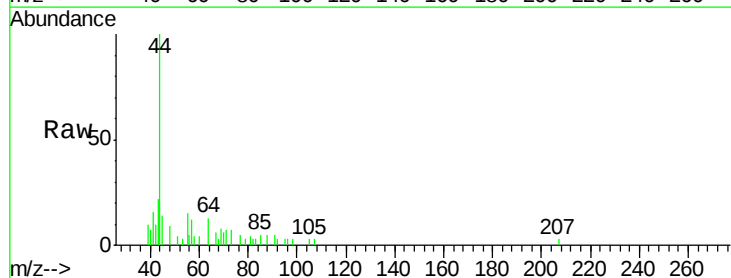
Acq: 18 Jun 2018 21:04

Tgt Ion: 64 Resp: 89

Ion Ratio Lower Upper

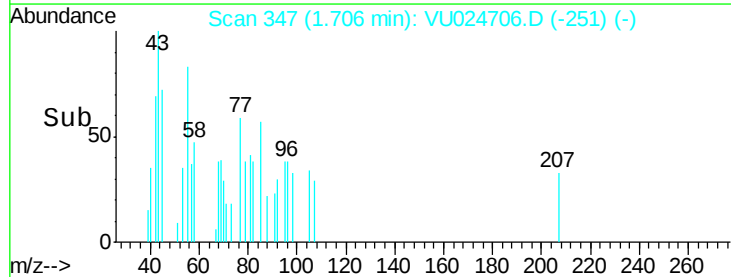
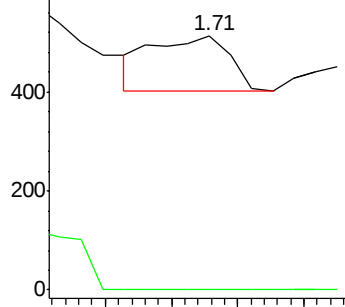
64 100

66 0.0 25.5 38.3#

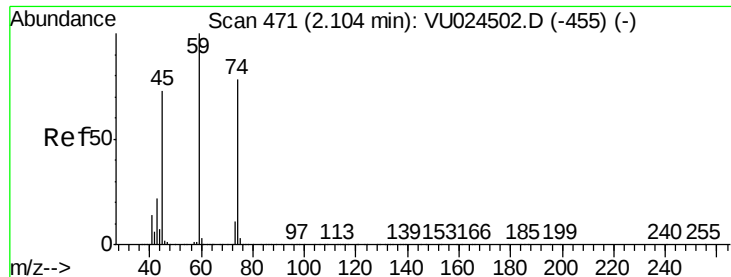


Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0



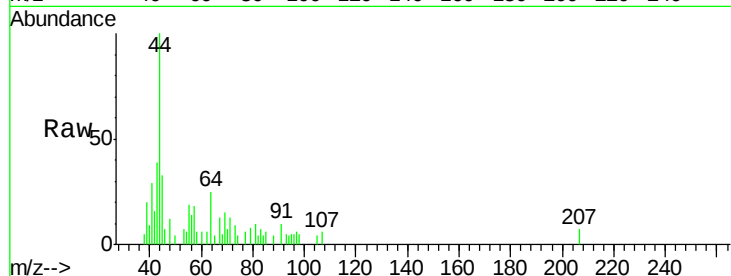
Time-->



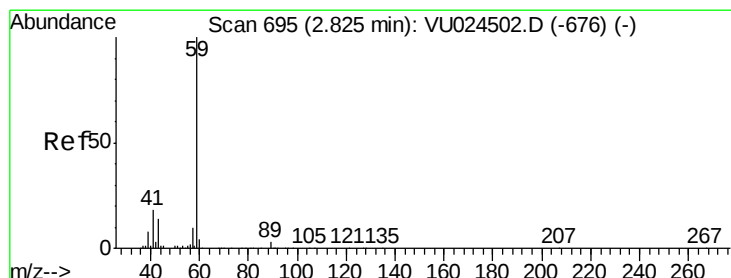
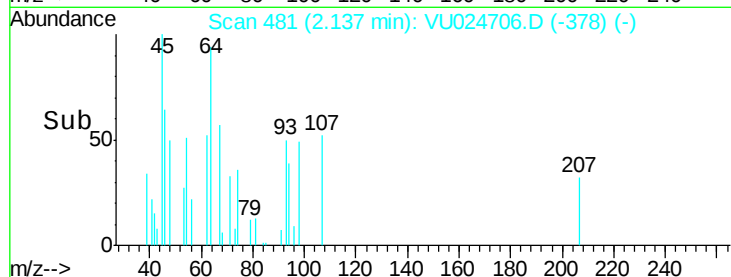
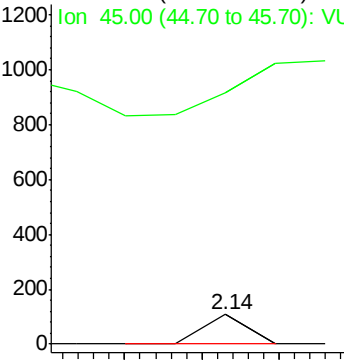
#8
Diethyl Ether
Concen: Below Cal
RT: 2.14 min Scan# 481
Delta R.T. 0.03 min
Lab File: VU024706.D
Acq: 18 Jun 2018 21:04

Instrument :
MSVOA_U
ClientSampleId :
S36-EB-2018-1

Tgt Ion: 74 Resp: 21
Ion Ratio Lower Upper
74 100
45 0.0 55.0 165.0#

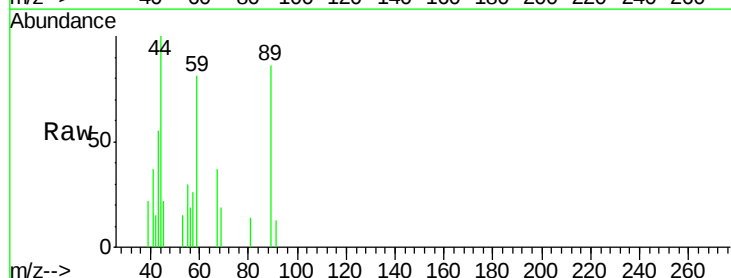


Abundance Ion 74.00 (73.70 to 74.70): VU0
Ion 45.00 (44.70 to 45.70): VU0

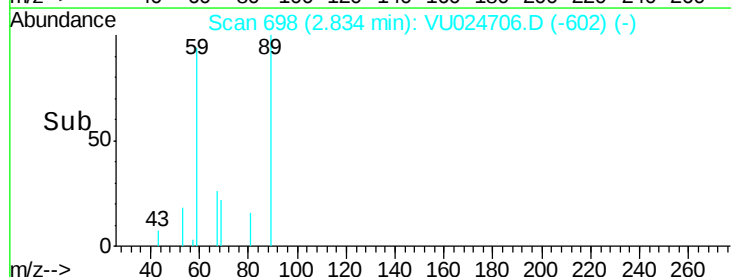
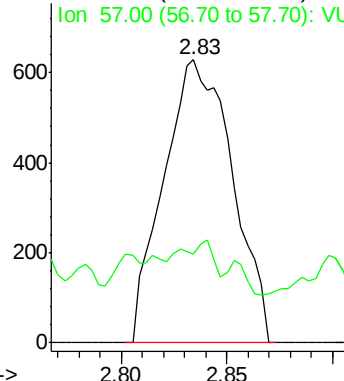


#11
Tert butyl alcohol
Concen: 1.856 ug/l
RT: 2.83 min Scan# 698
Delta R.T. 0.01 min
Lab File: VU024706.D
Acq: 18 Jun 2018 21:04

Tgt Ion: 59 Resp: 1423
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



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





#16

Acetone

Concen: 7.766 ug/l

RT: 2.32 min Scan# 539

Delta R.T. -0.00 min

Lab File: VU024706.D

Acq: 18 Jun 2018 21:04

Instrument :

MSVOA_U

ClientSampleId :

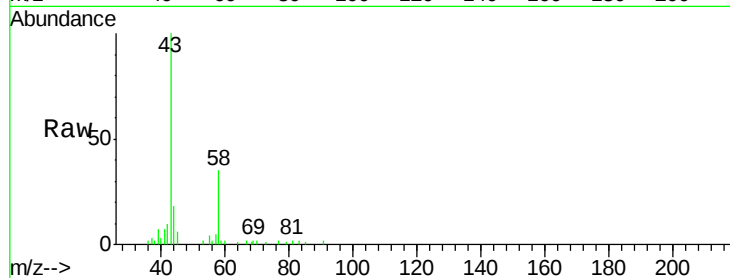
S36-EB-2018-1

Tgt Ion: 43 Resp: 13152

Ion Ratio Lower Upper

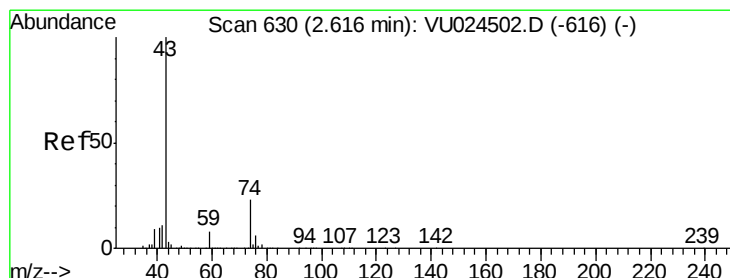
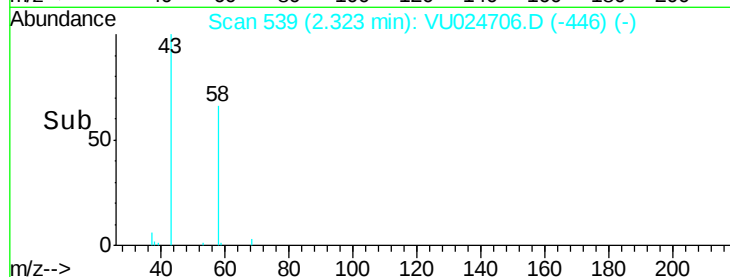
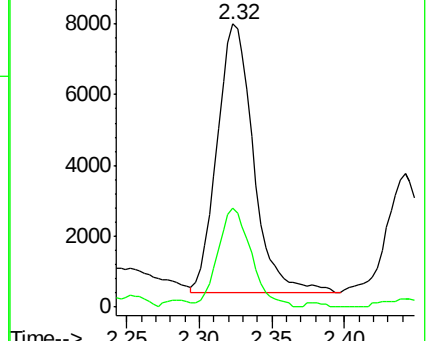
43 100

58 36.9 24.4 36.6#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#18

Methyl Acetate

Concen: 0.729 ug/l

RT: 2.62 min Scan# 632

Delta R.T. 0.01 min

Lab File: VU024706.D

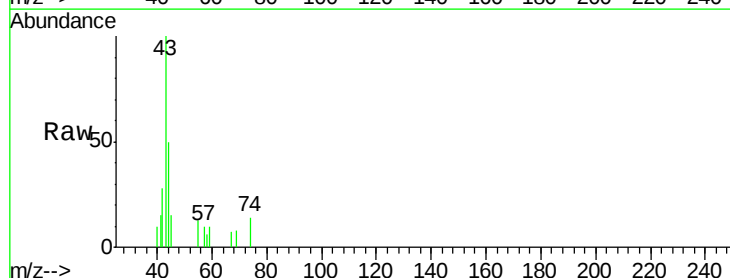
Acq: 18 Jun 2018 21:04

Tgt Ion: 43 Resp: 2648

Ion Ratio Lower Upper

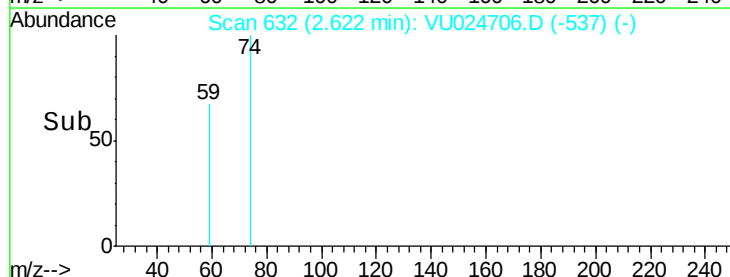
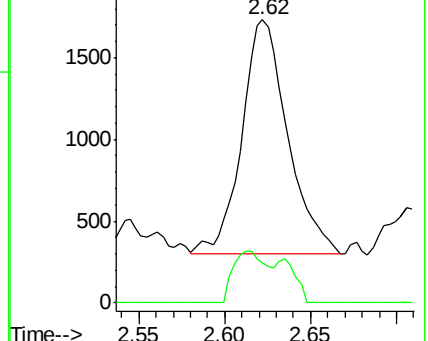
43 100

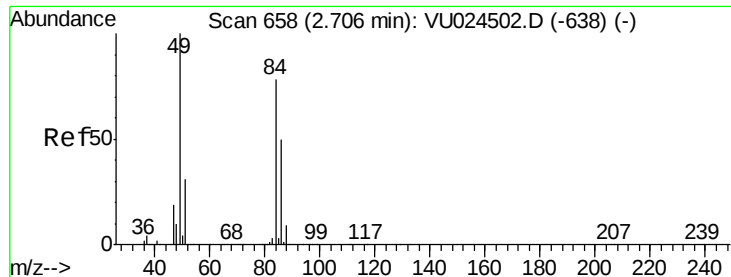
74 16.7 18.0 27.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

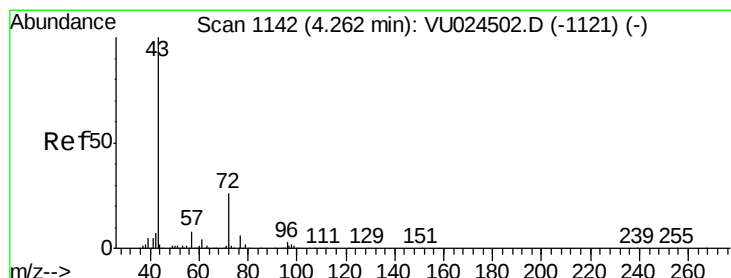
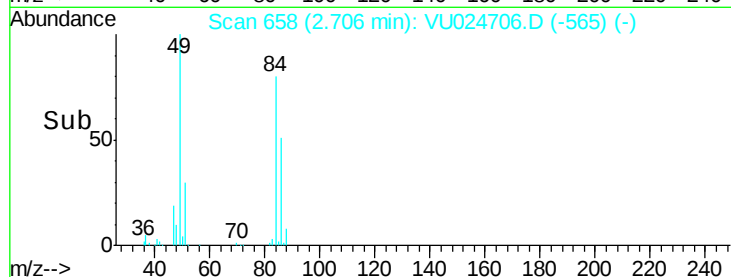
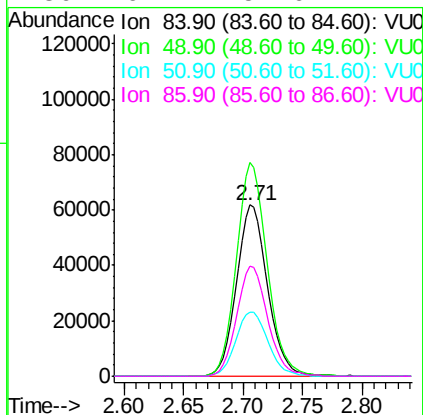
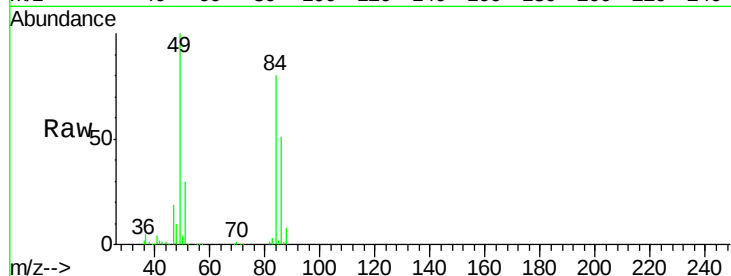




#20
Methylene Chloride
Concen: 42.234 ug/l
RT: 2.71 min Scan# 658
Delta R.T. -0.00 min
Lab File: VU024706.D
Acq: 18 Jun 2018 21:04

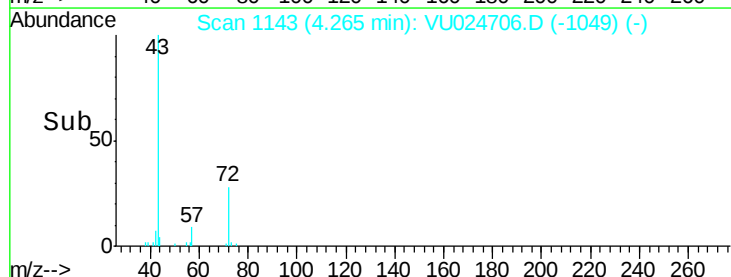
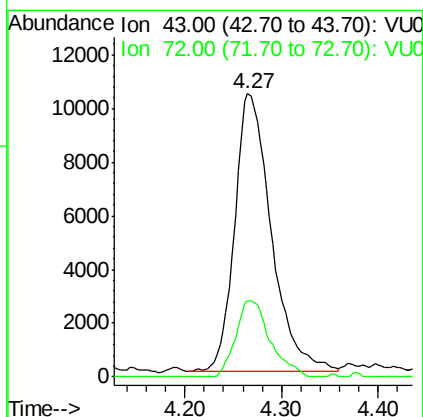
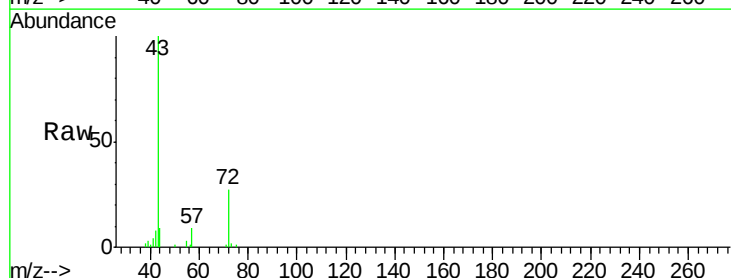
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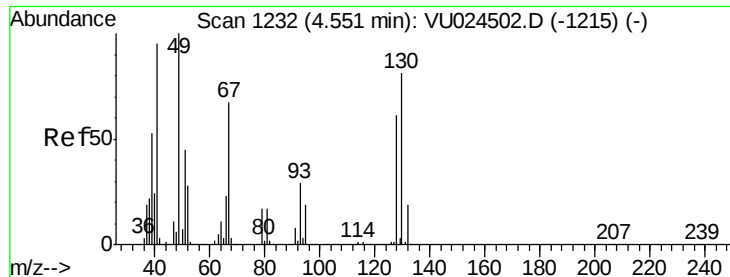
Tgt Ion:	84	Resp:	112225
Ion	Ratio	Lower	Upper
84	100		
49	124.7	103.8	155.8
51	37.6	32.0	48.0
86	64.1	51.6	77.4



#25
2-Butanone
Concen: 12.021 ug/l
RT: 4.27 min Scan# 1143
Delta R.T. 0.00 min
Lab File: VU024706.D
Acq: 18 Jun 2018 21:04

Tgt Ion:	43	Resp:	27344
Ion	Ratio	Lower	Upper
43	100		
72	27.5	19.6	29.4





#28

Bromochloromethane

Concen: 1.016 ug/l

RT: 4.63 min Scan# 1258

Delta R.T. 0.08 min

Lab File: VU024706.D

Acq: 18 Jun 2018 21:04

Instrument :

MSVOA_U

ClientSampleId :

S36-EB-2018-1

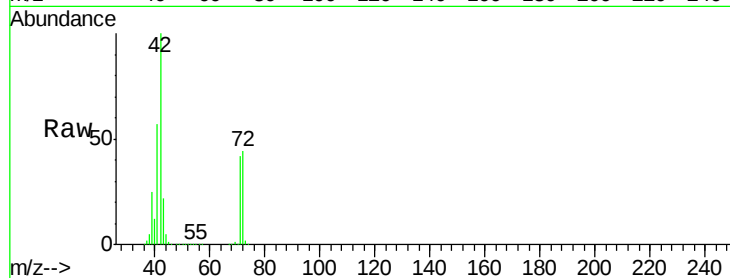
Tgt Ion: 49 Resp: 2083

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

130 0.0 57.8 86.6#

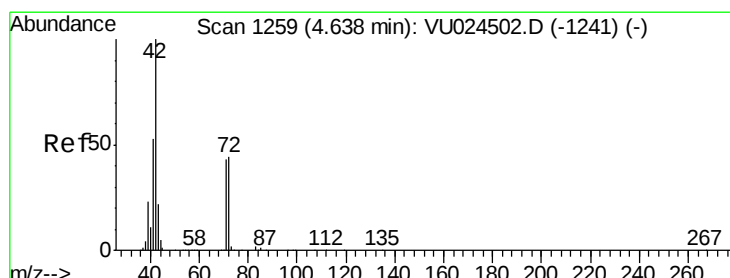
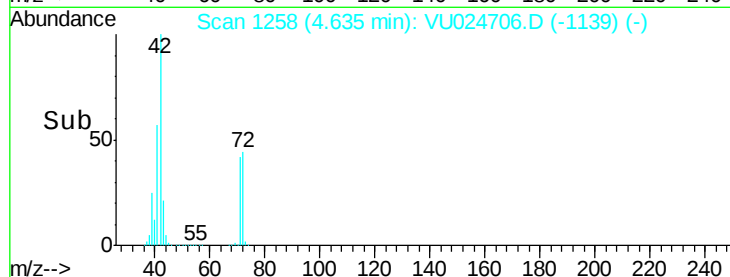
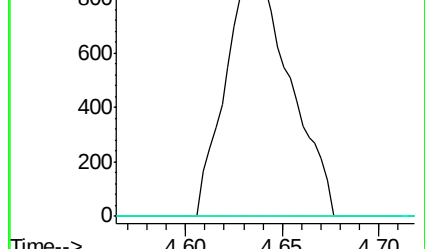


Abundance Ion 48.90 (48.60 to 49.60): VU024706.D (-1139) (-)

Ion 128.80 (128.50 to 129.50): VU024706.D (-1139) (-)

Ion 129.80 (129.50 to 130.50): VU024706.D (-1139) (-)

Time-->



#29

Tetrahydrofuran

Concen: 829.423 ug/l

RT: 4.64 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VU024706.D

Acq: 18 Jun 2018 21:04

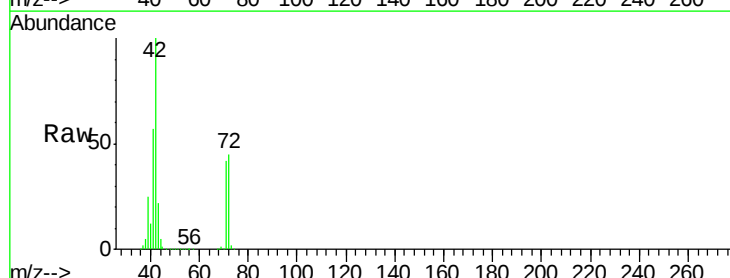
Tgt Ion: 42 Resp: 1168404

Ion Ratio Lower Upper

42 100

72 43.9 34.5 51.7

71 41.6 32.2 48.4

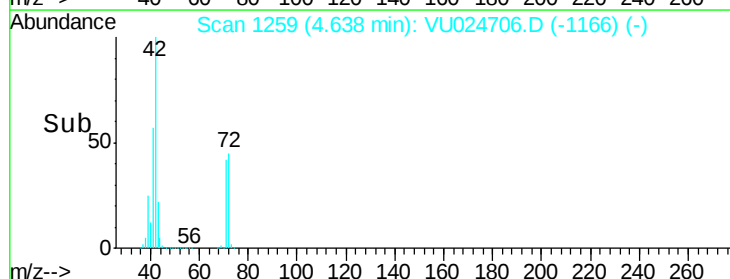
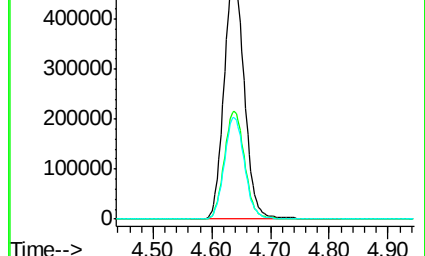


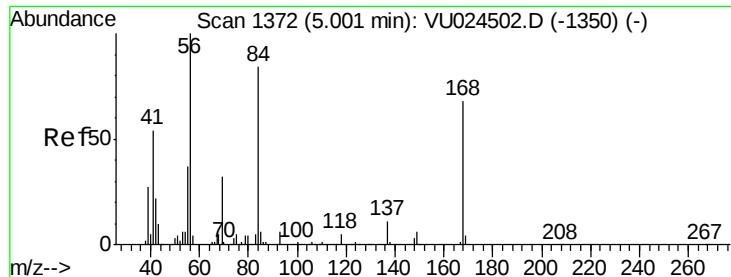
Abundance Ion 42.00 (41.70 to 42.70): VU024706.D (-1166) (-)

Ion 72.00 (71.70 to 72.70): VU024706.D (-1166) (-)

Ion 71.00 (70.70 to 71.70): VU024706.D (-1166) (-)

Time-->

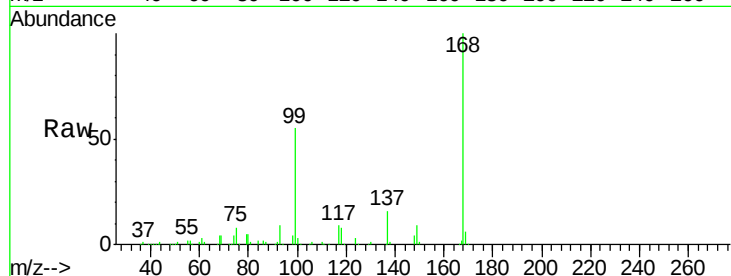




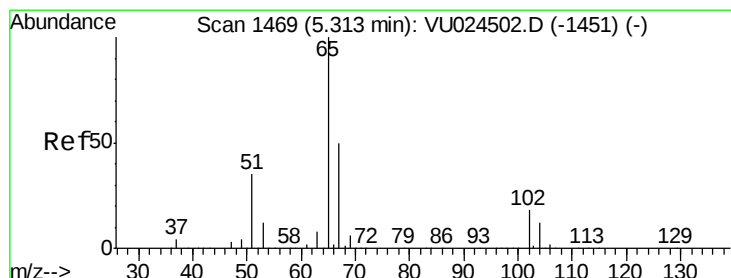
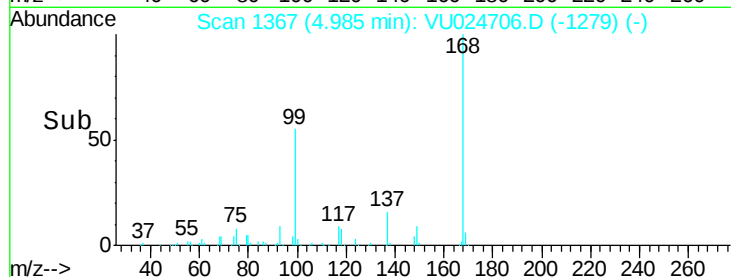
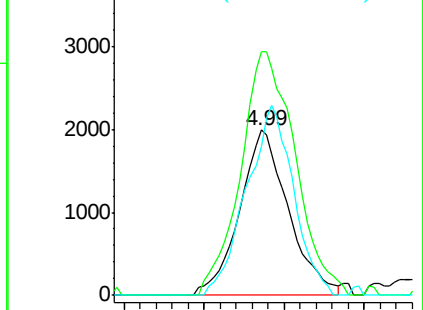
#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1367
Delta R.T. -0.02 min
Lab File: VU024706.D
Acq: 18 Jun 2018 21:04

Instrument :
MSVOA_U
ClientSampleId :
S36-EB-2018-1

Tgt Ion: 56 Resp: 4168
Ion Ratio Lower Upper
56 100
69 147.5 24.8 37.2#
84 90.3 65.2 97.8

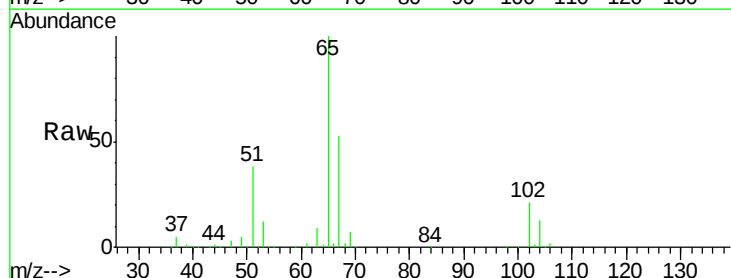


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

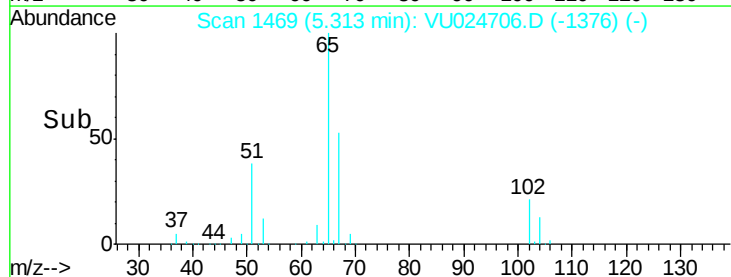
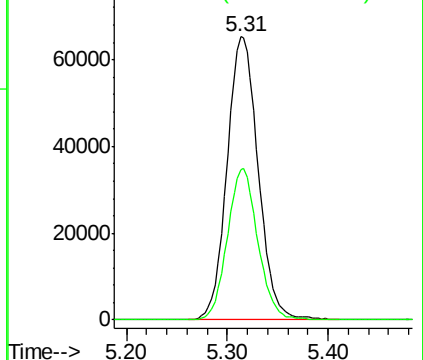


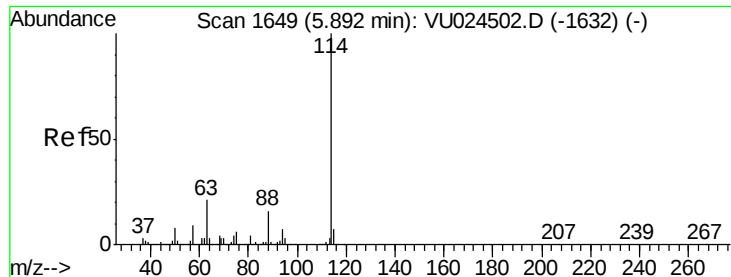
#33
1,2-Dichloroethane-d4
Concen: 44.501 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VU024706.D
Acq: 18 Jun 2018 21:04

Tgt Ion: 65 Resp: 140262
Ion Ratio Lower Upper
65 100
67 52.5 0.0 107.0



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

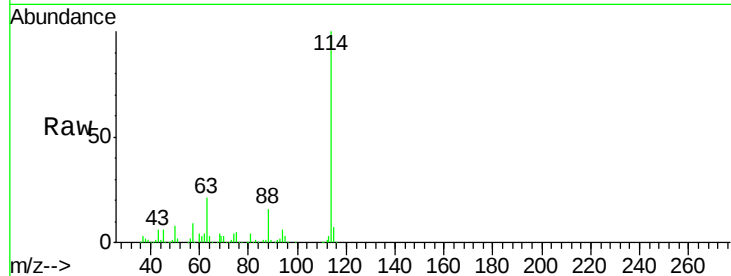




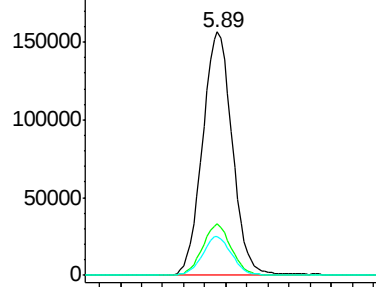
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. -0.00 min
 Lab File: VU024706.D
 Acq: 18 Jun 2018 21:04

Instrument :
 MSVOA_U
 ClientSampleId :
 S36-EB-2018-1

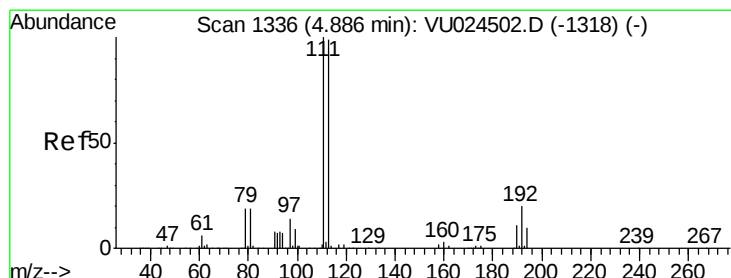
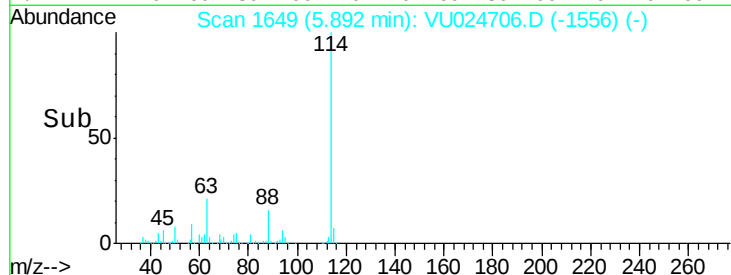
Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	45.4
88	15.9	0.0	31.0



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

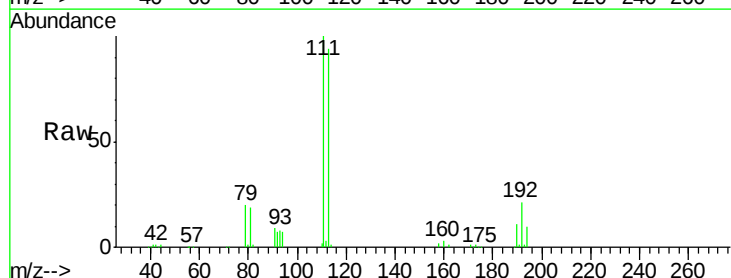


Time-->

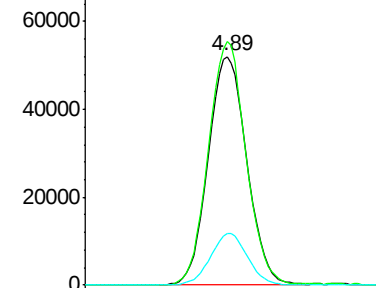


#35
 Dibromofluoromethane
 Concen: 47.159 ug/l
 RT: 4.89 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VU024706.D
 Acq: 18 Jun 2018 21:04

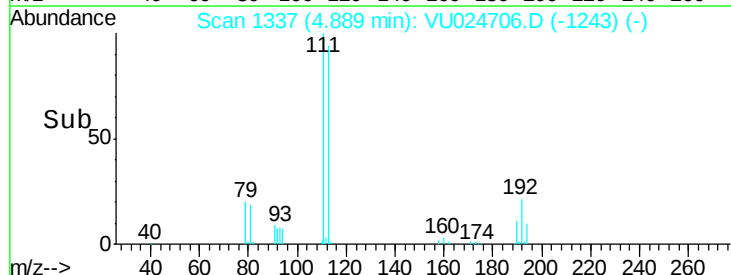
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.2	123.4
192	21.8	16.2	24.4

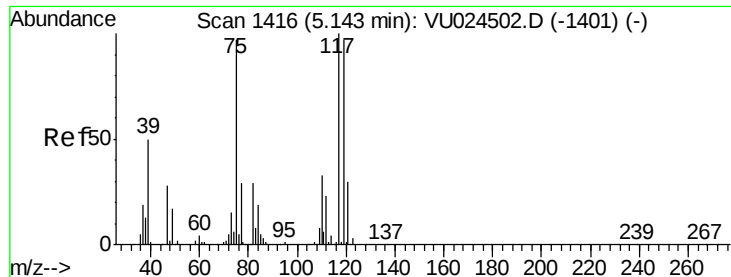


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V



Time-->





#36

1,1-Dichloropropene

Concen: 3.801 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024706.D

Acq: 18 Jun 2018 21:04

Instrument :

MSVOA_U

ClientSampleId :

S36-EB-2018-1

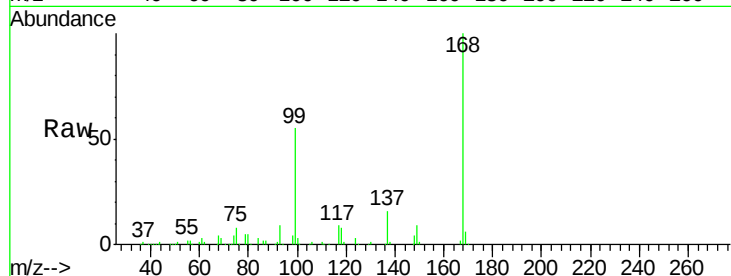
Tgt Ion: 75 Resp: 13720

Ion Ratio Lower Upper

75 100

110 9.3 17.0 50.9#

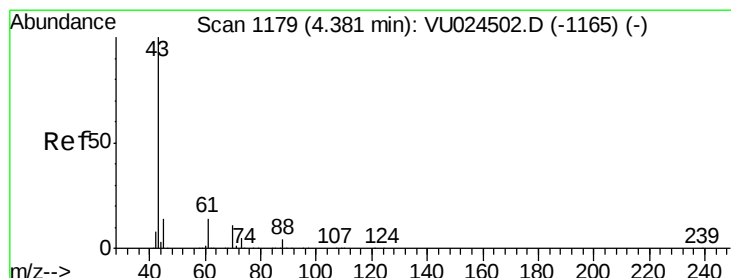
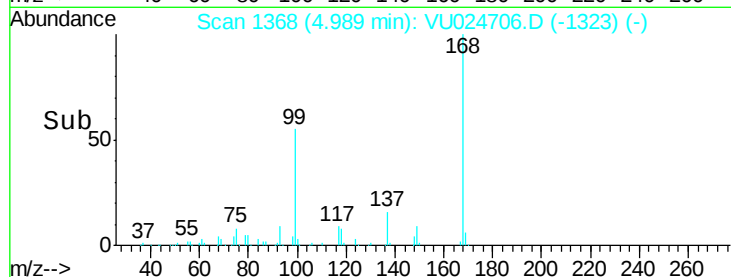
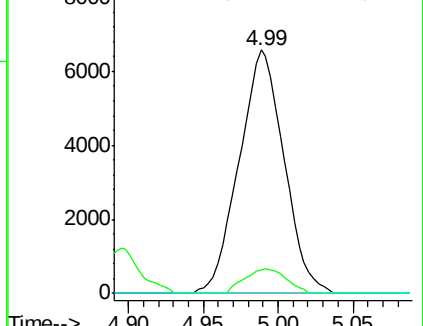
77 0.0 24.2 36.4#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): VU0

Ion 76.90 (76.60 to 77.60): VU0



#37

Ethyl Acetate

Concen: 6.949 ug/l

RT: 4.27 min Scan# 1143

Delta R.T. -0.12 min

Lab File: VU024706.D

Acq: 18 Jun 2018 21:04

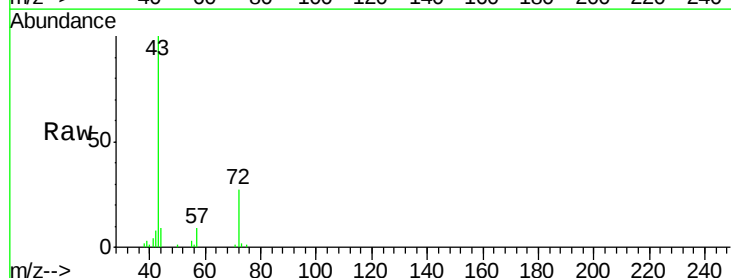
Tgt Ion: 43 Resp: 27344

Ion Ratio Lower Upper

43 100

61 0.0 10.5 15.7#

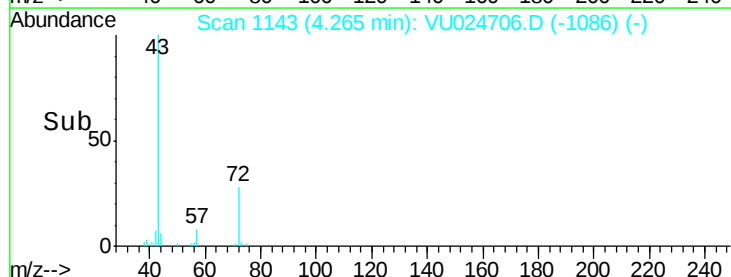
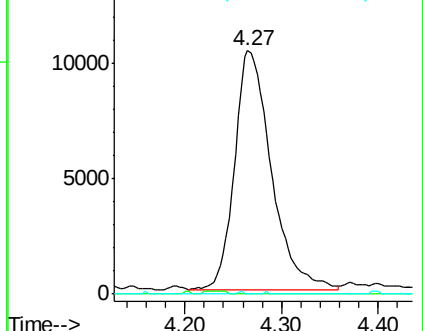
70 0.0 7.4 11.2#

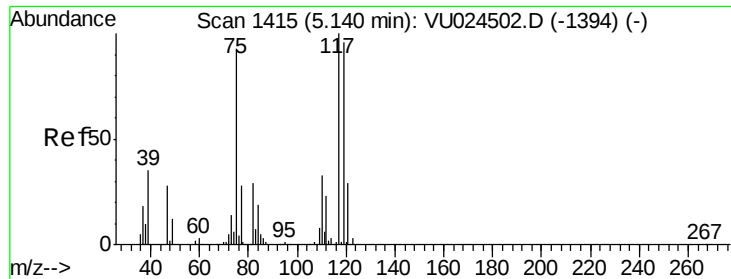


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 70.00 (69.70 to 70.70): VU0





#38

Carbon Tetrachloride

Concen: 4.429 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024706.D

Acq: 18 Jun 2018 21:04

Instrument :

MSVOA_U

ClientSampleId :

S36-EB-2018-1

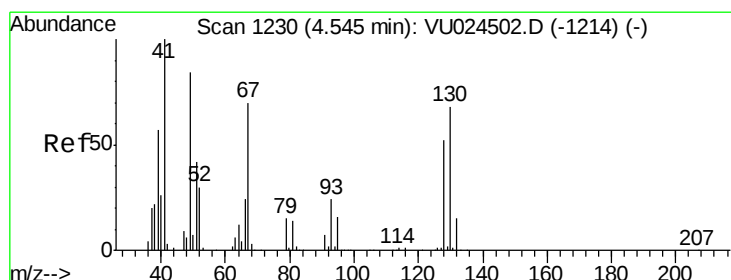
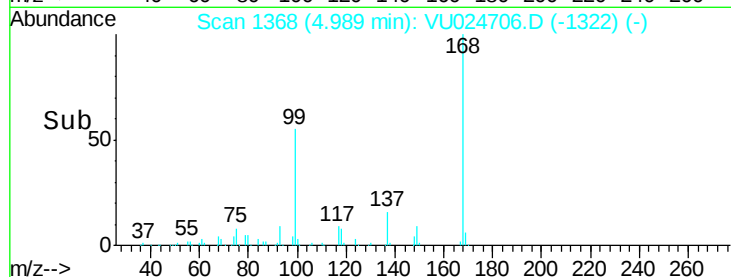
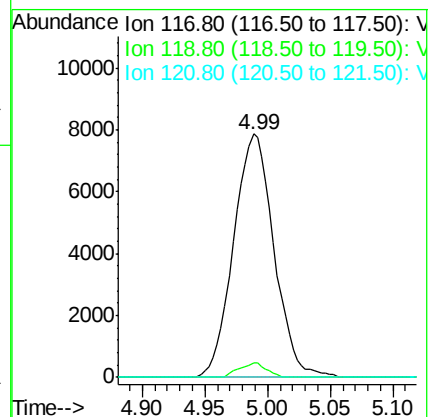
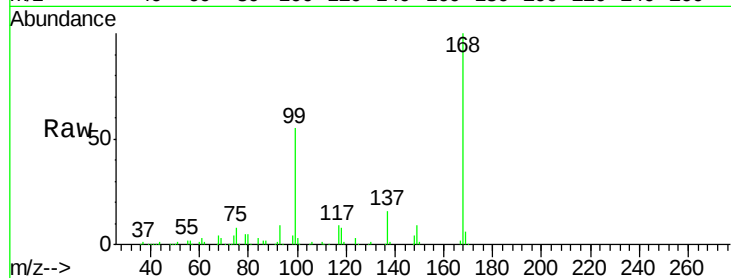
Tgt Ion:117 Resp: 17582

Ion Ratio Lower Upper

117 100

119 6.0 76.1 114.1#

121 0.0 23.7 35.5#



#41

Methacrylonitrile

Concen: 306.703 ug/l

RT: 4.64 min Scan# 1259

Delta R.T. 0.09 min

Lab File: VU024706.D

Acq: 18 Jun 2018 21:04

Tgt Ion: 41 Resp: 650652

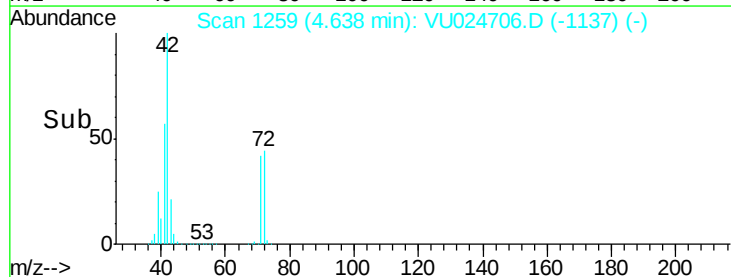
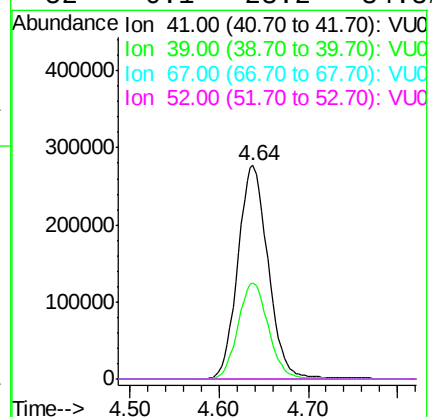
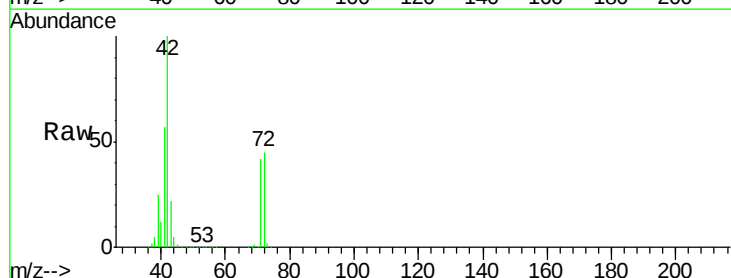
Ion Ratio Lower Upper

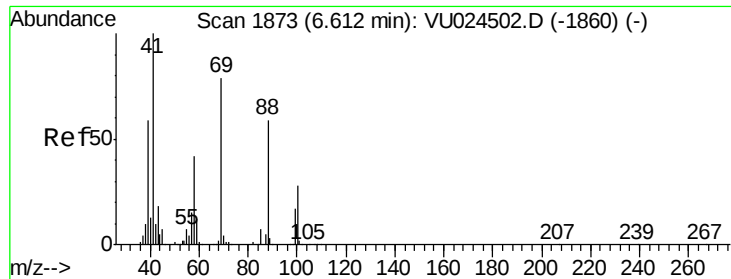
41 100

39 45.5 43.8 65.6

67 0.0 56.3 84.5#

52 0.1 23.2 34.8#





#49

1,4-Dioxane

Concen: 1.143 ug/l

RT: 6.61 min Scan# 1873

Delta R.T. -0.00 min

Lab File: VU024706.D

Acq: 18 Jun 2018 21:04

Instrument :

MSVOA_U

ClientSampleId :

S36-EB-2018-1

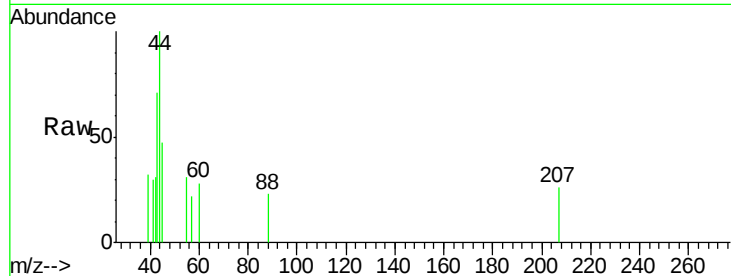
Tgt Ion: 88 Resp: 74

Ion Ratio Lower Upper

88 100

43 63.5 28.6 42.8#

58 0.0 58.2 87.4#

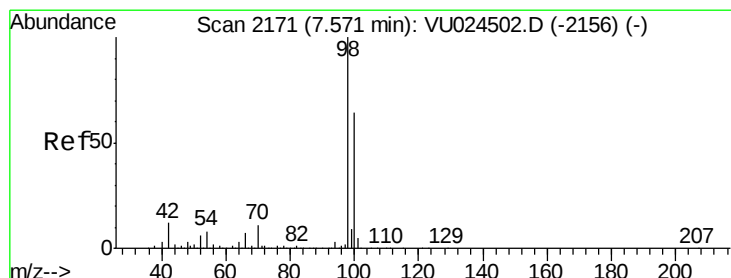
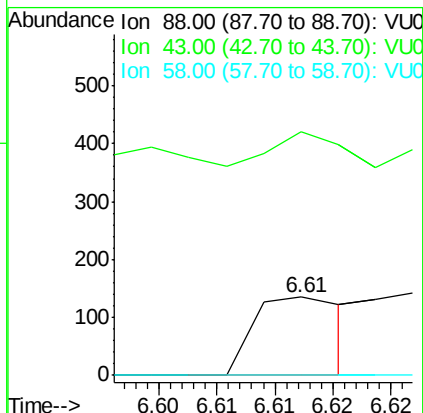
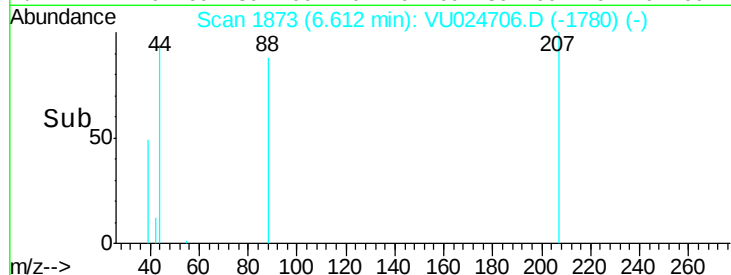


Abundance Ion 88.00 (87.70 to 88.70): VU024706.D (-1780) (-)

Ion 43.00 (42.70 to 43.70): VU024706.D (-1780) (-)

Ion 58.00 (57.70 to 58.70): VU024706.D (-1780) (-)

Time-->



#50

Toluene-d8

Concen: 48.289 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. -0.00 min

Lab File: VU024706.D

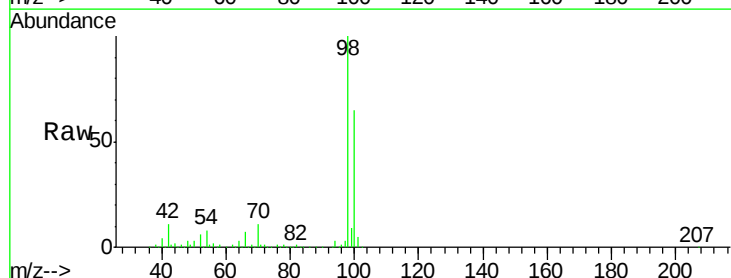
Acq: 18 Jun 2018 21:04

Tgt Ion: 98 Resp: 449096

Ion Ratio Lower Upper

98 100

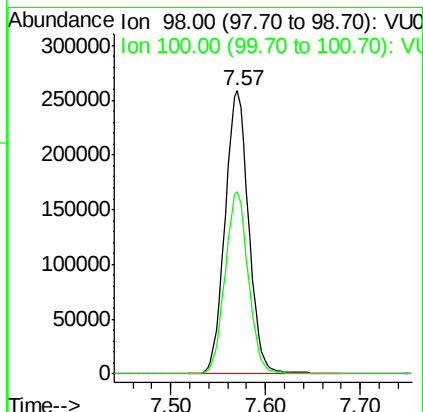
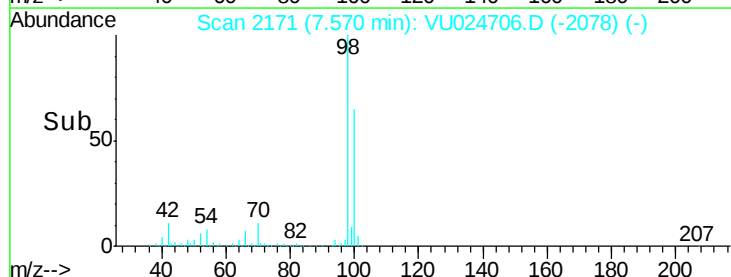
100 63.5 51.1 76.7

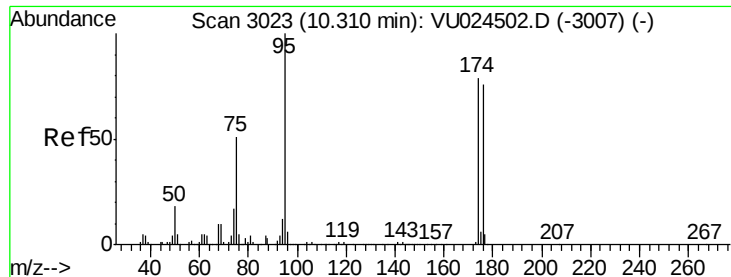


Abundance Ion 98.00 (97.70 to 98.70): VU024706.D (-2078) (-)

Ion 100.00 (99.70 to 100.70): VU024706.D (-2078) (-)

Time-->

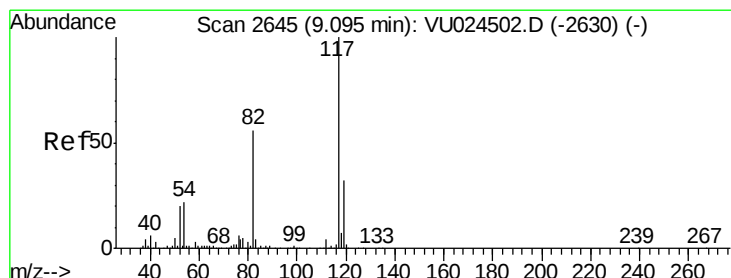
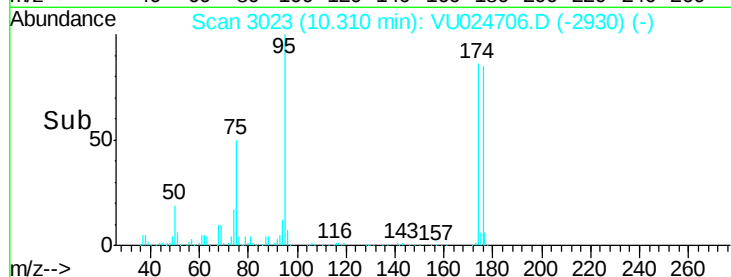
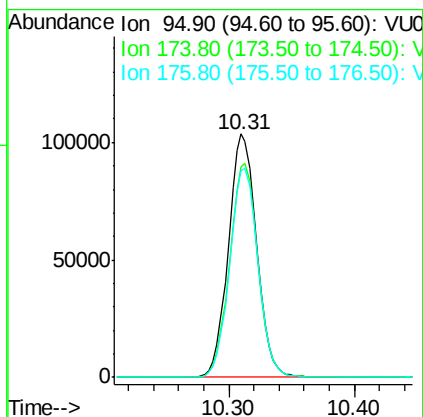
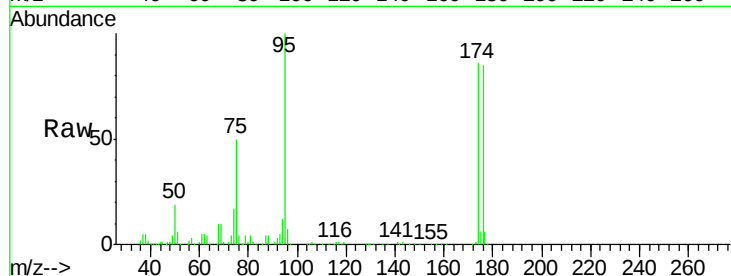




#62
4-Bromofluorobenzene
Concen: 43.722 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.00 min
Lab File: VU024706.D
Acq: 18 Jun 2018 21:04

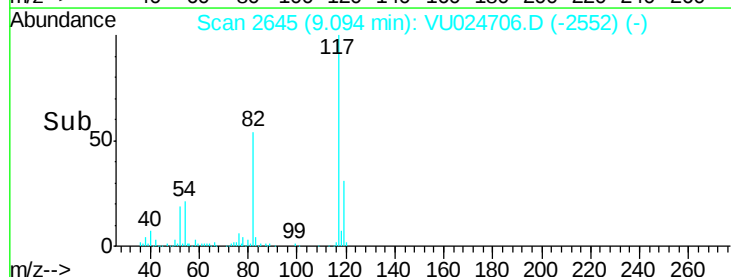
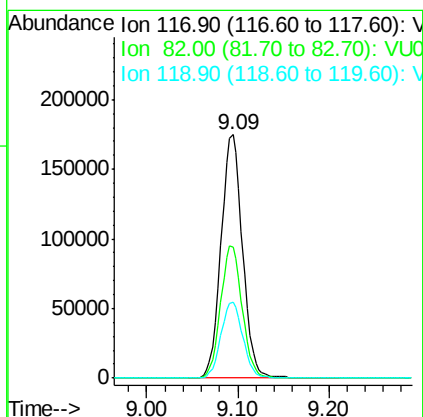
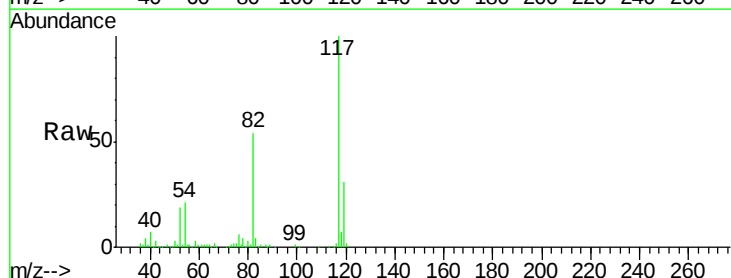
Instrument :
MSVOA_U
ClientSampleId :
S36-EB-2018-1

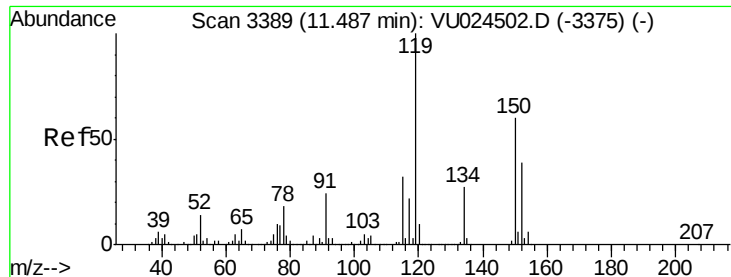
Tgt Ion: 95 Resp: 161446
Ion Ratio Lower Upper
95 100
174 87.8 0.0 165.8
176 86.2 0.0 159.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VU024706.D
Acq: 18 Jun 2018 21:04

Tgt Ion: 117 Resp: 286901
Ion Ratio Lower Upper
117 100
82 53.9 44.3 66.5
119 31.4 25.4 38.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VU024706.D

Acq: 18 Jun 2018 21:04

Instrument :

MSVOA_U

ClientSampleId :

S36-EB-2018-1

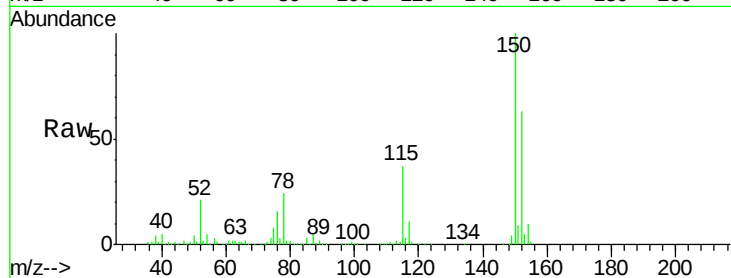
Tgt Ion:152 Resp: 154286

Ion Ratio Lower Upper

152 100

115 56.9 43.0 129.0

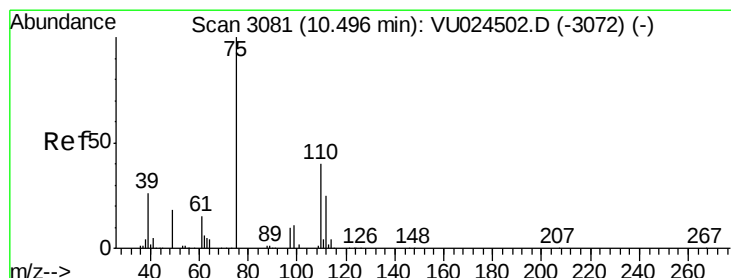
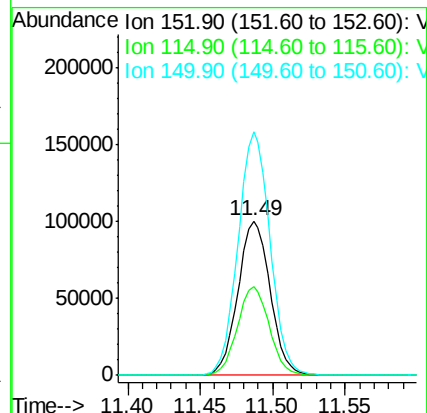
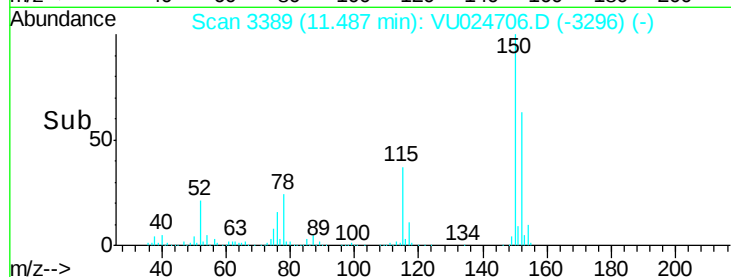
150 157.3 0.0 354.0



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: 24.022 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024706.D

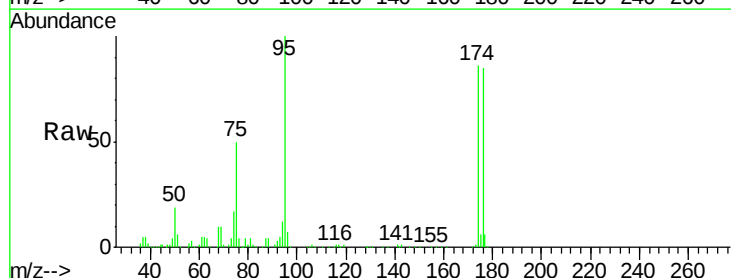
Acq: 18 Jun 2018 21:04

Tgt Ion: 75 Resp: 81600

Ion Ratio Lower Upper

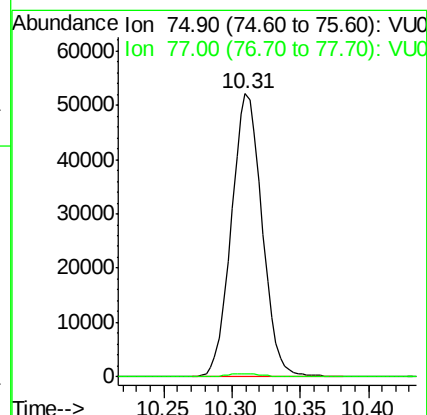
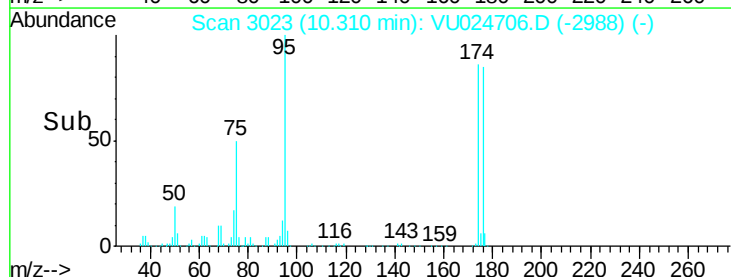
75 100

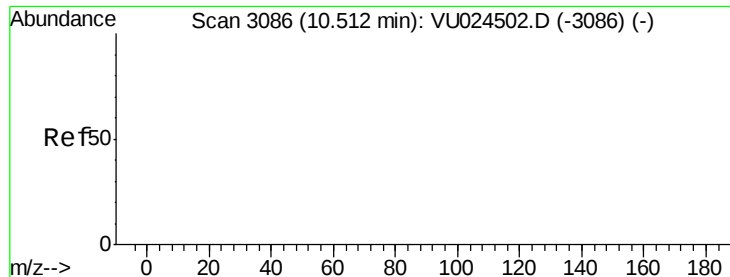
77 1.3 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

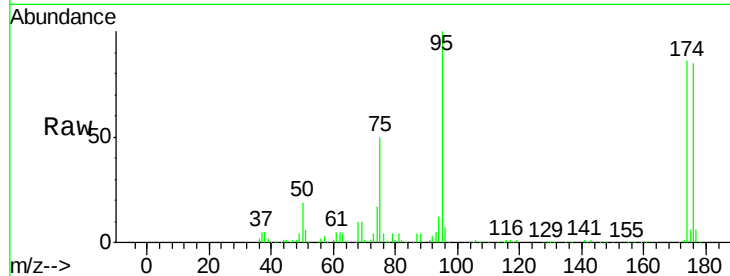




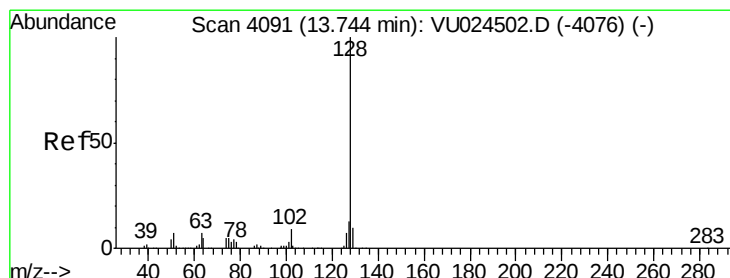
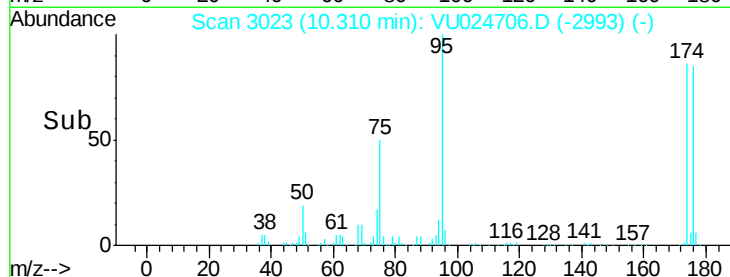
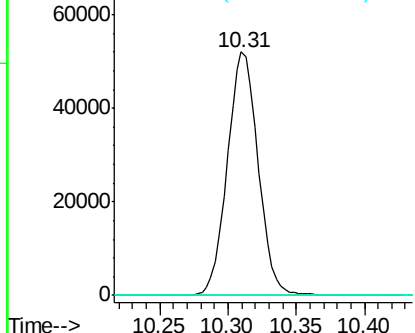
#81
trans-1,4-Dichloro-2-butene
Concen: 55.598 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.20 min
Lab File: VU024706.D
Acq: 18 Jun 2018 21:04

Instrument :
MSVOA_U
ClientSampleId :
S36-EB-2018-1

Tgt Ion: 75 Resp: 81600
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0#
89 0.0 0.0 0.0

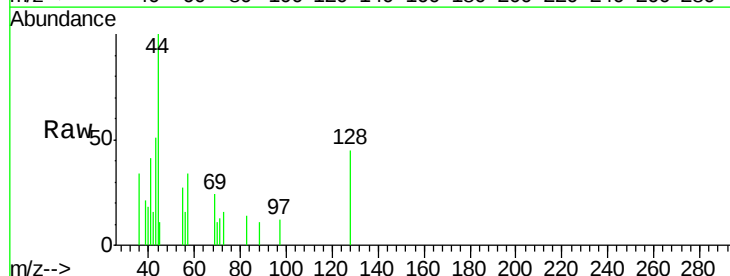


Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 53.00 (52.70 to 53.70): VU0
Ion 88.90 (88.60 to 89.60): VU0



#95
Naphthalene
Concen: 0.738 ug/l
RT: 13.75 min Scan# 4092
Delta R.T. 0.00 min
Lab File: VU024706.D
Acq: 18 Jun 2018 21:04

Tgt Ion: 128 Resp: 676
Ion Ratio Lower Upper
128 100
127 0.0 10.6 16.0#
129 0.0 8.6 12.8#



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

