

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092818\
 Data File : VU027248.D
 Acq On : 28 Sep 2018 00:52
 Operator : MD/SY
 Sample : J5020-12
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T2-MW-5-8.0-091918

Quant Time: Sep 28 03:43:51 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	95206	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	164778	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	158173	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	75623	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	100662	52.53	ug/l	0.00
Spiked Amount			Recovery	=	105.06%	
35) Dibromofluoromethane	4.89	113	69806	48.87	ug/l	0.00
Spiked Amount			Recovery	=	97.74%	
50) Toluene-d8	7.57	98	264831	48.65	ug/l	0.00
Spiked Amount			Recovery	=	97.30%	
62) 4-Bromofluorobenzene	10.31	95	86188	46.14	ug/l	0.00
Spiked Amount			Recovery	=	92.28%	

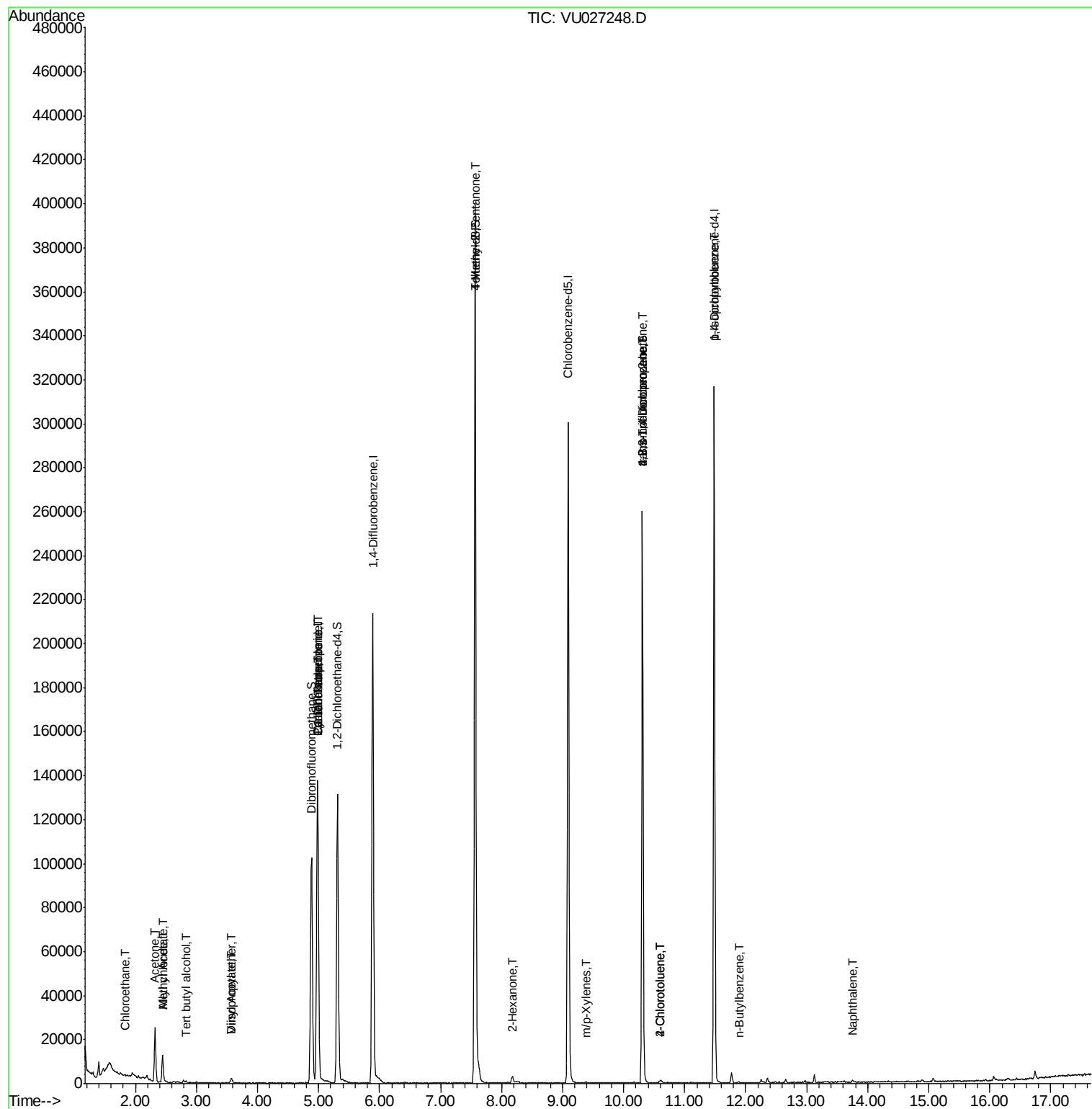
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.83	64	322	0.252	ug/l #	43
11) Tert butyl alcohol	2.83	59	602	1.371	ug/l #	72
14) Allyl chloride	2.45	41	1468	0.550	ug/l #	81
16) Acetone	2.32	43	26010	9.601	ug/l	99
18) Methyl Acetate	2.44	43	3296	1.209	ug/l #	55
22) Diisopropyl ether	3.58	45	2083	0.365	ug/l #	94
23) Vinyl Acetate	3.57	43	1296	0.267	ug/l #	75
31) Cyclohexane	4.98	56	3033	0.493	ug/l #	1
36) 1,1-Dichloropropene	4.98	75	9225	4.195	ug/l #	50
38) Carbon Tetrachloride	4.99	117	9970	4.764	ug/l #	18
51) 4-Methyl-2-Pentanone	7.56	43	1353	0.463	ug/l #	1
59) 2-Hexanone	8.17	43	1096	0.479	ug/l	68
68) m/p-Xylenes	9.39	106	161	1.557	ug/l #	50
76) 1,2,3-Trichloropropane	10.31	75	46248	20.131	ug/l #	35
79) 2-Chlorotoluene	10.59	91	1023	0.239	ug/l #	43
81) trans-1,4-Dichloro-2-buten	10.31	75	46248	64.421	ug/l #	100
82) 4-Chlorotoluene	10.59	91	1023	0.213	ug/l #	47
86) p-Isopropyltoluene	11.48	119	20	0.931	ug/l #	1
89) n-Butylbenzene	11.90	91	172	2.424	ug/l #	71
95) Naphthalene	13.75	128	1442	1.912	ug/l #	75

(#) = 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: VU027248.D

Acq: 28 Sep 2018 00:52

Instrument :

MSVOA_U

ClientSampleId :

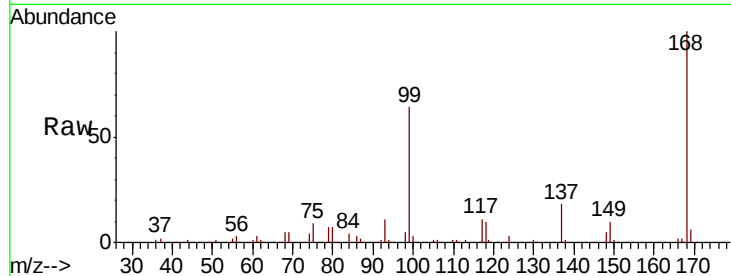
T2-MW-5-8.0-091918

Tot Ion:168 Resp: 95206

Ion Ratio Lower Upper

168 100

99 63.9 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) (-)

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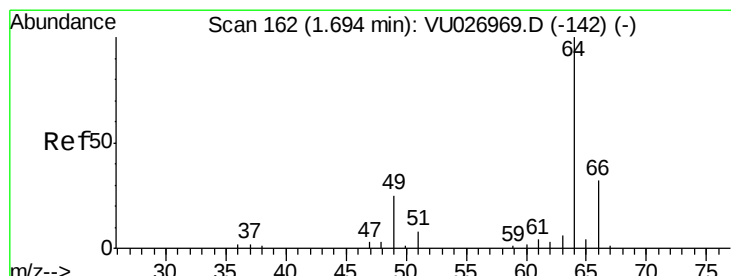
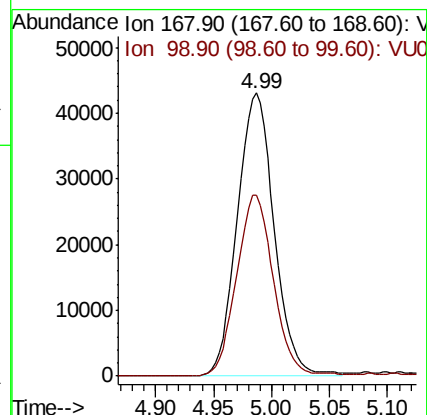
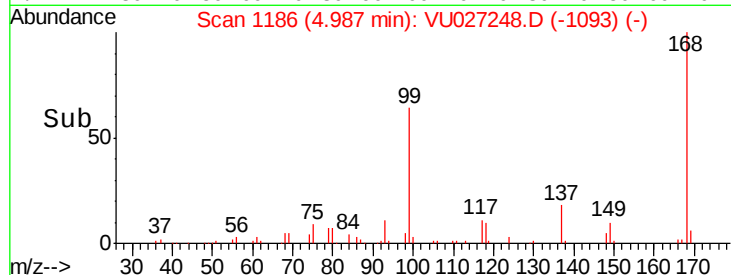
4.99

4.99

4.99

4.99

4.99



#6

Chloroethane

Concen: 0.252 ug/l

RT: 1.83 min Scan# 204

Delta R.T. 0.14 min

Lab File: VU027248.D

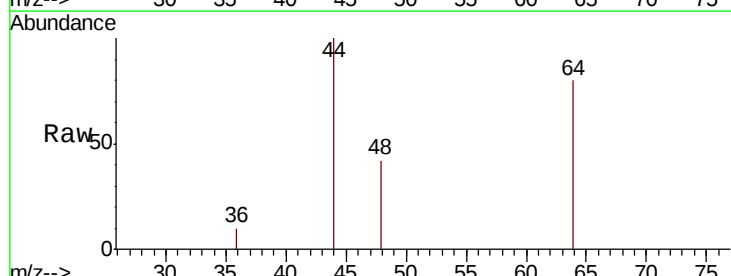
Acq: 28 Sep 2018 00:52

Tgt Ion: 64 Resp: 322

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) (-)

1.83

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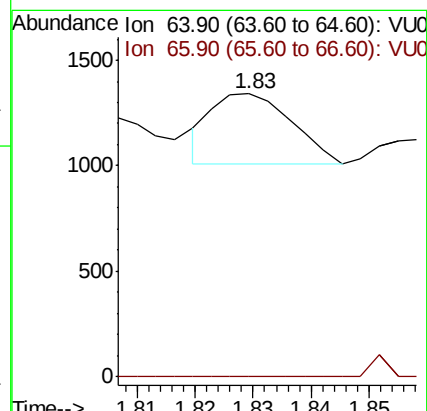
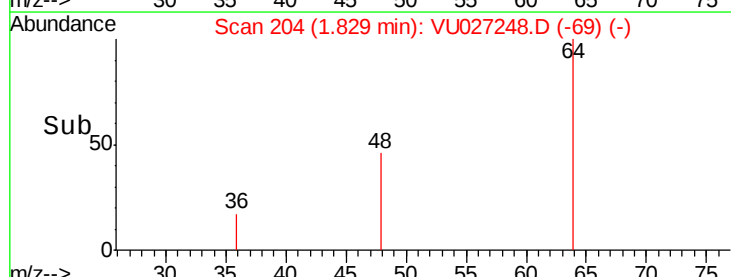
1.83

1.83

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1.83

1.83



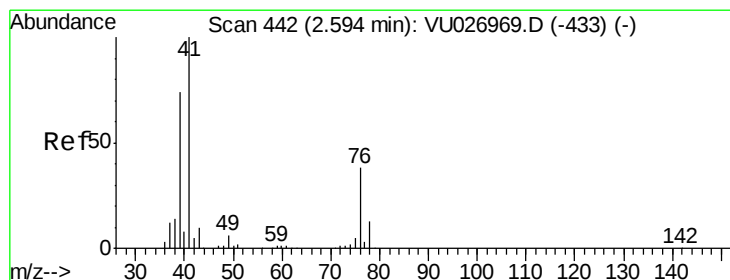
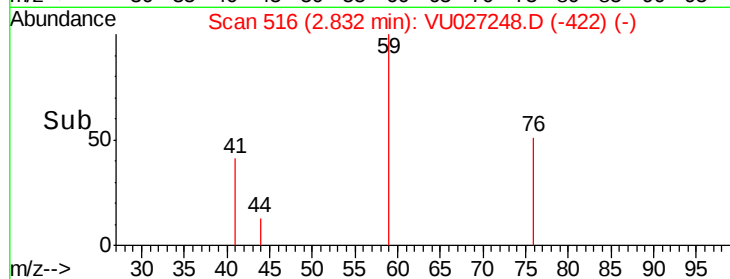
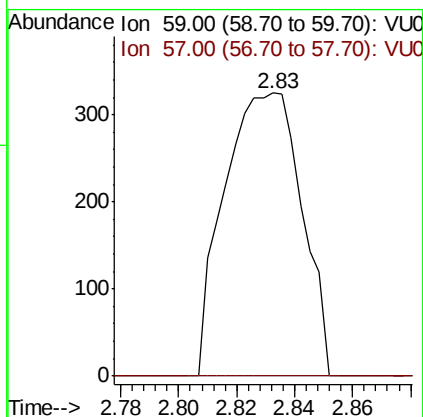
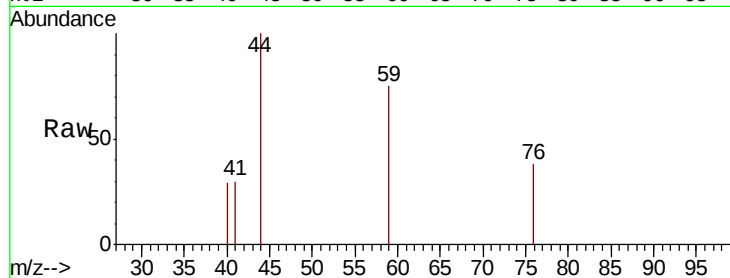


#11

Tert butyl alcohol
 Concen: 1.371 ug/l
 RT: 2.83 min Scan# 516
 Delta R.T. 0.00 min
 Lab File: VU027248.D
 Acq: 28 Sep 2018 00:52

Instrument :
 MSVOA_U
 ClientSampleId :
 T2-MW-5-8.0-091918

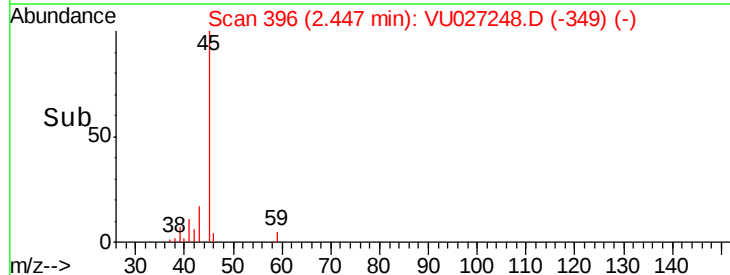
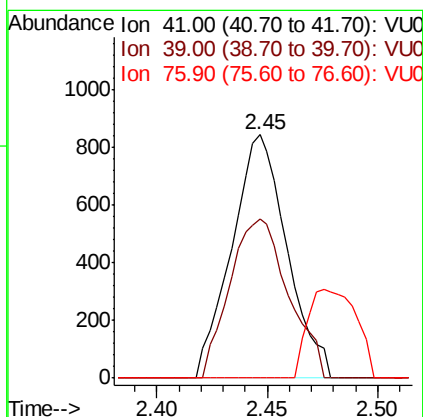
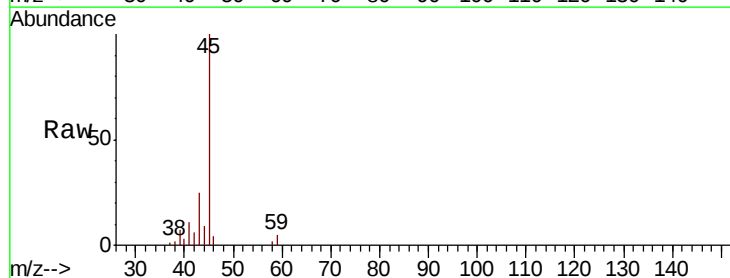
Tot Ion: 59 Resp: 602
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

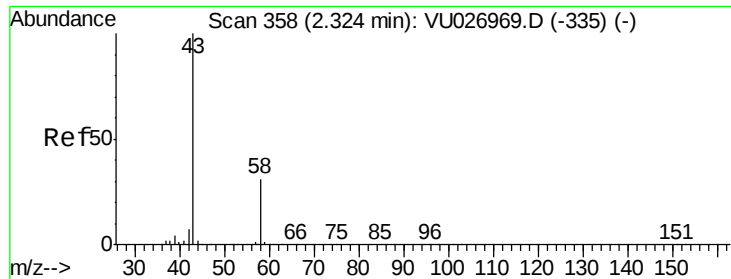


#14

Allyl chloride
 Concen: 0.550 ug/l
 RT: 2.45 min Scan# 396
 Delta R.T. -0.15 min
 Lab File: VU027248.D
 Acq: 28 Sep 2018 00:52

Tgt Ion: 41 Resp: 1468
 Ion Ratio Lower Upper
 41 100
 39 69.4 55.7 83.5
 76 0.0 26.5 39.7#





#16

Acetone

Concen: 9.601 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU027248.D

Acq: 28 Sep 2018 00:52

Instrument :

MSVOA_U

ClientSampleId :

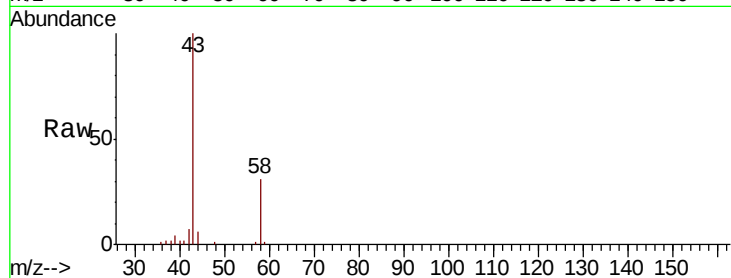
T2-MW-5-8.0-091918

Tot Ion: 43 Resp: 26010

Ion Ratio Lower Upper

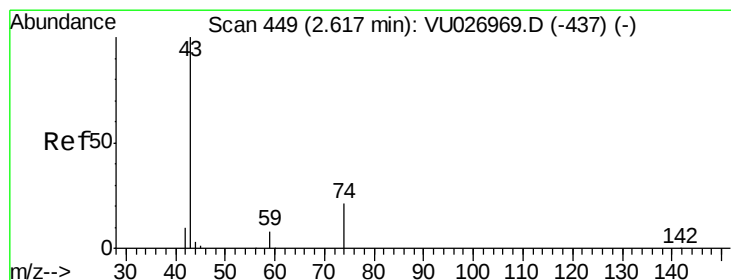
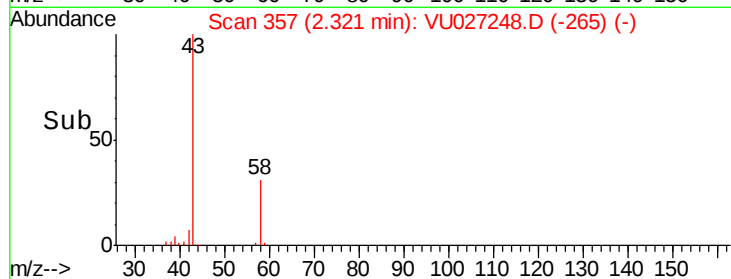
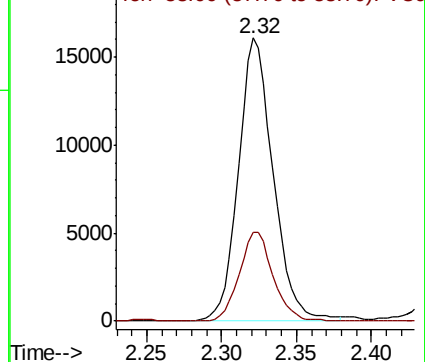
43 100

58 31.3 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#18

Methyl Acetate

Concen: 1.209 ug/l

RT: 2.44 min Scan# 395

Delta R.T. -0.17 min

Lab File: VU027248.D

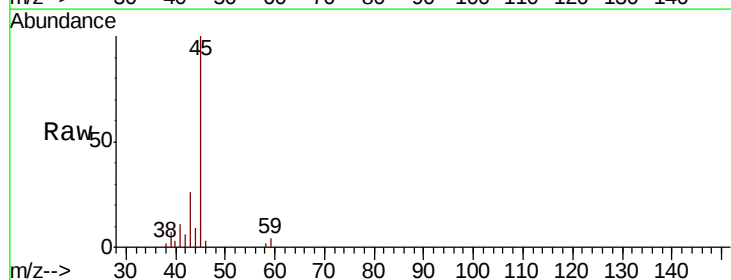
Acq: 28 Sep 2018 00:52

Tgt Ion: 43 Resp: 3296

Ion Ratio Lower Upper

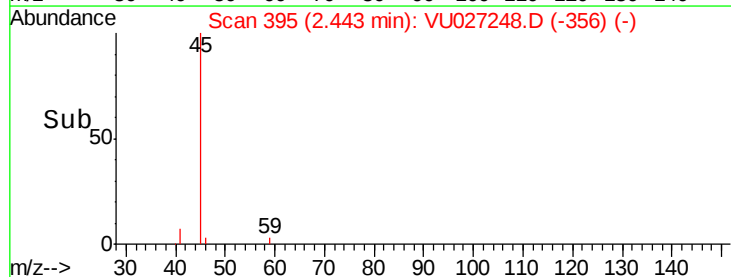
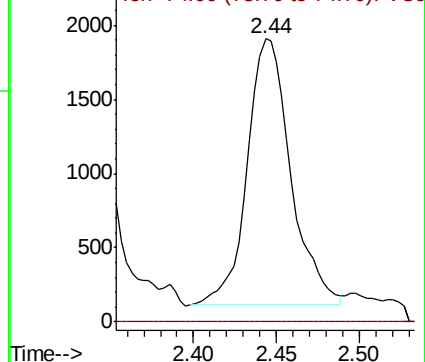
43 100

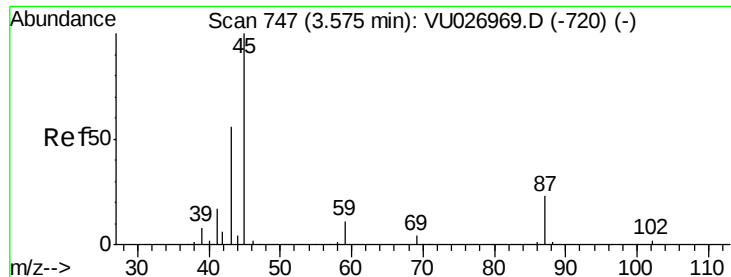
74 0.0 16.6 25.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0





#22

Diisopropyl ether

Concen: 0.365 ug/l

RT: 3.58 min Scan# 749

Delta R.T. 0.01 min

Lab File: VU027248.D

Acq: 28 Sep 2018 00:52

Instrument :

MSVOA_U

ClientSampleId :

T2-MW-5-8.0-091918

Tot Ion: 45 Resp: 2083

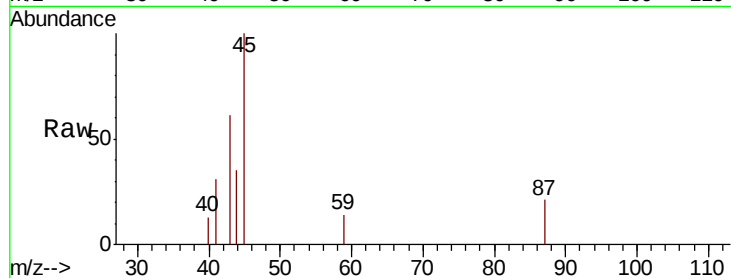
Ion Ratio Lower Upper

45 100

43 61.4 45.8 68.6

87 21.2 18.6 28.0

59 14.0 9.0 13.4#

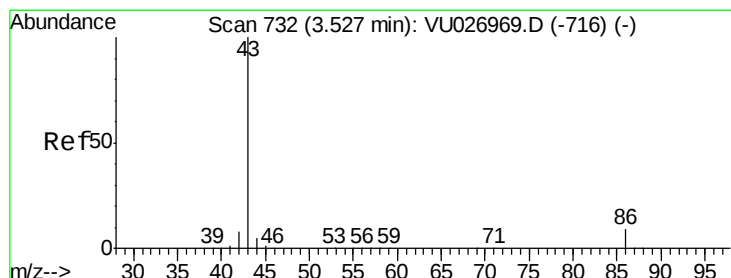
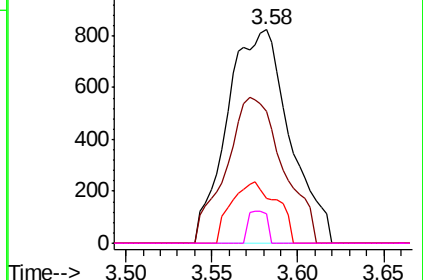
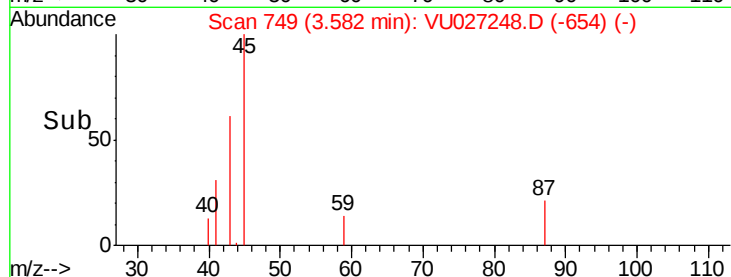


Abundance Ion 45.00 (44.70 to 45.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

Ion 59.00 (58.70 to 59.70): VU0



#23

Vinyl Acetate

Concen: 0.267 ug/l

RT: 3.57 min Scan# 746

Delta R.T. 0.05 min

Lab File: VU027248.D

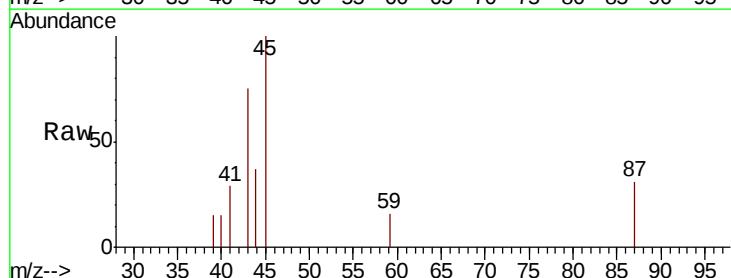
Acq: 28 Sep 2018 00:52

Tgt Ion: 43 Resp: 1296

Ion Ratio Lower Upper

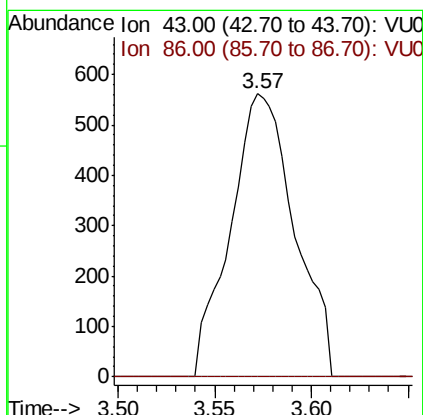
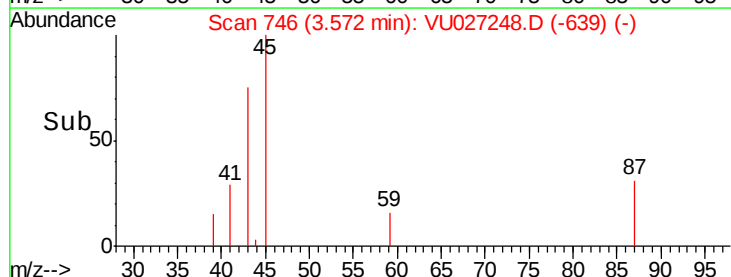
43 100

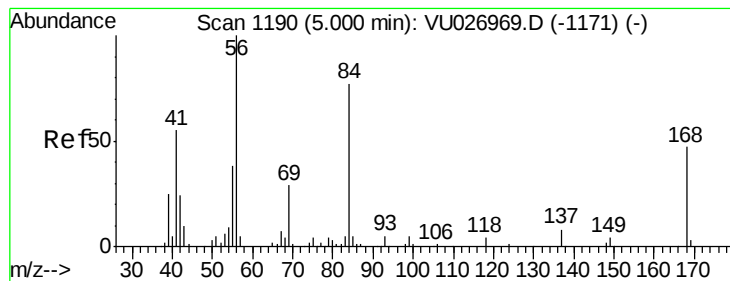
86 0.0 7.2 10.8#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 86.00 (85.70 to 86.70): VU0





#31

Cyclohexane

Concen: 0.493 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.02 min

Lab File: VU027248.D

Acq: 28 Sep 2018 00:52

Instrument :

MSVOA_U

ClientSampleId :

T2-MW-5-8.0-091918

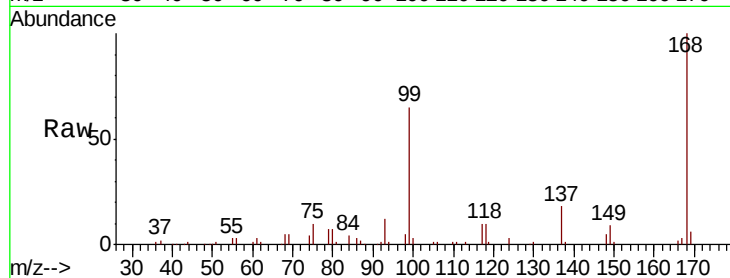
Tot Ion: 56 Resp: 3033

Ion Ratio Lower Upper

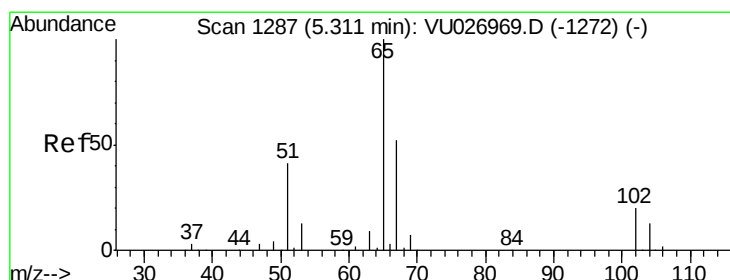
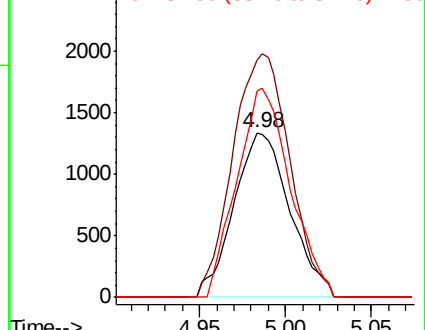
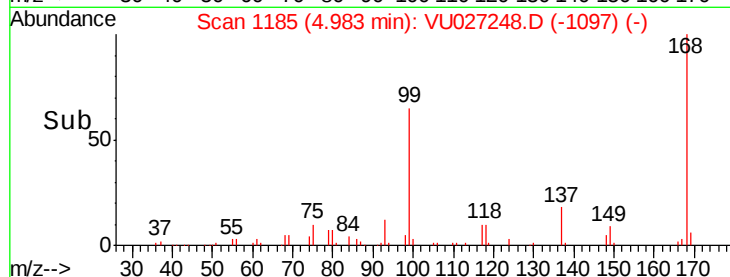
56 100

69 144.4 23.0 34.4#

84 125.4 61.4 92.2#



Abundance Ion 56.00 (55.70 to 56.70): VU027248.D (-1097) (-)



#33

1,2-Dichloroethane-d4

Concen: 52.533 ug/l

RT: 5.31 min Scan# 1287

Delta R.T. 0.00 min

Lab File: VU027248.D

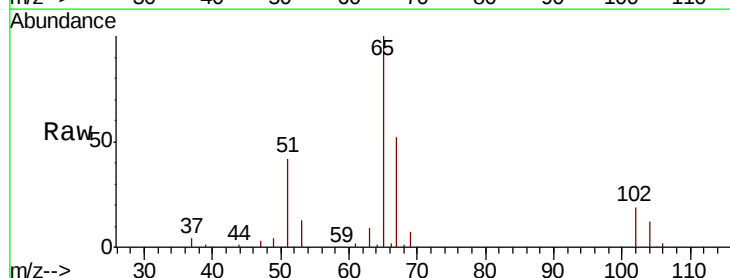
Acq: 28 Sep 2018 00:52

Tgt Ion: 65 Resp: 100662

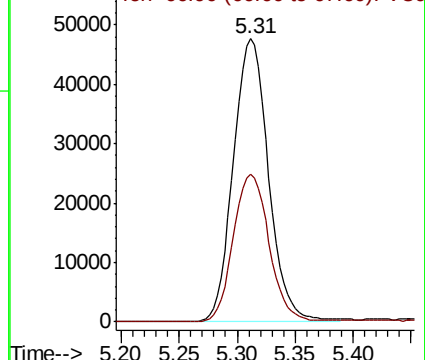
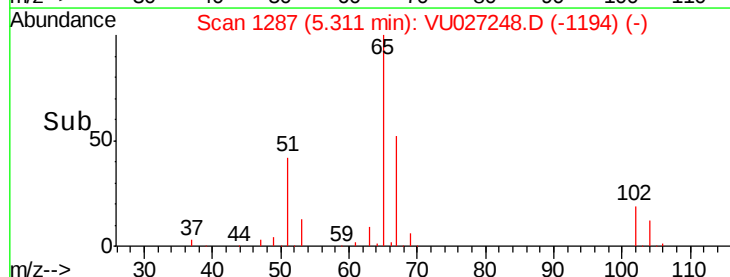
Ion Ratio Lower Upper

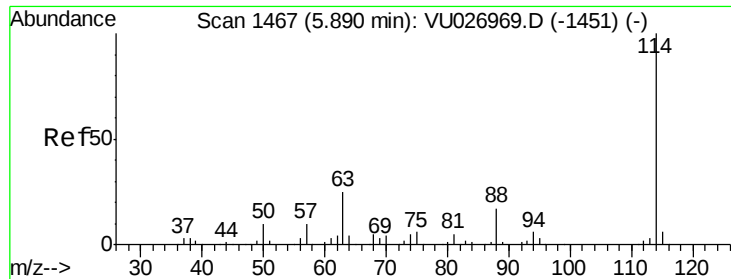
65 100

67 53.0 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VU027248.D (-1194) (-)

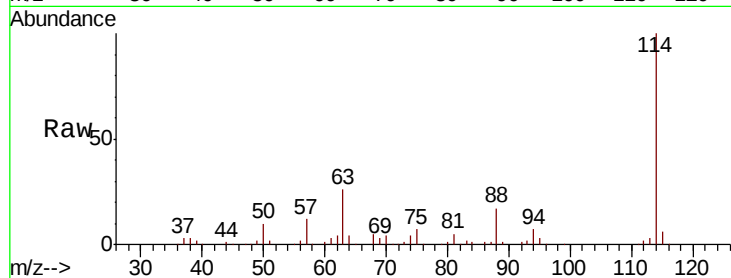




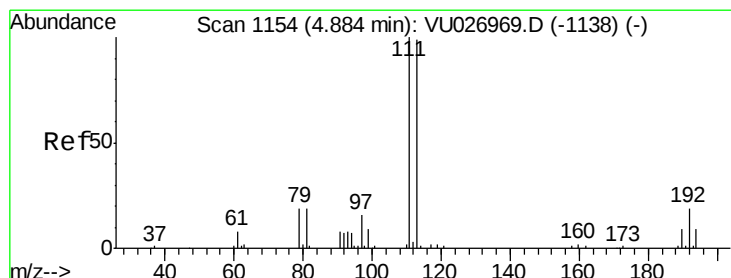
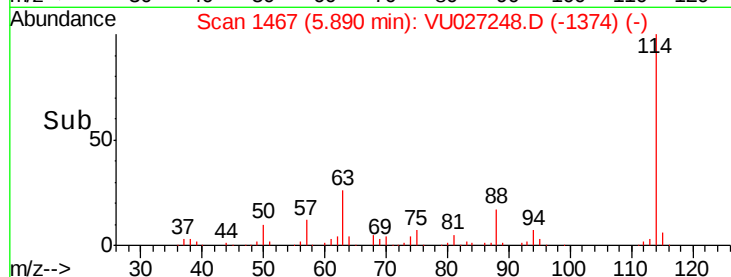
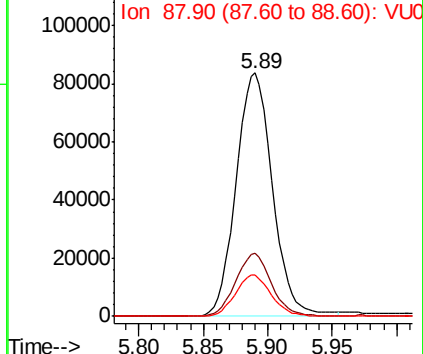
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.89 min Scan# 1467
Delta R.T. 0.00 min
Lab File: VU027248.D
Acq: 28 Sep 2018 00:52

Instrument :
MSVOA_U
ClientSampleId :
T2-MW-5-8.0-091918

Tot Ion:114 Resp: 164778
Ion Ratio Lower Upper
114 100
63 25.8 0.0 49.2
88 17.0 0.0 33.8

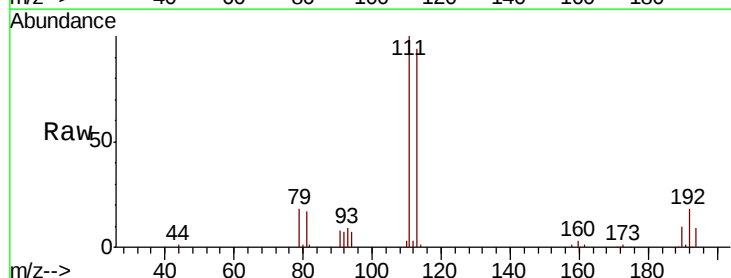


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VU0
Ion 87.90 (87.60 to 88.60): VU0

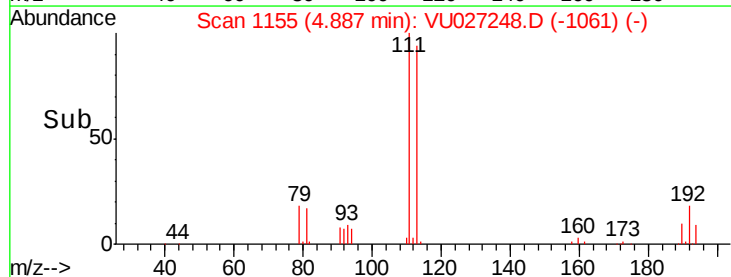
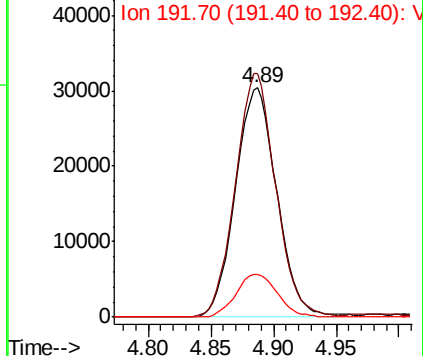


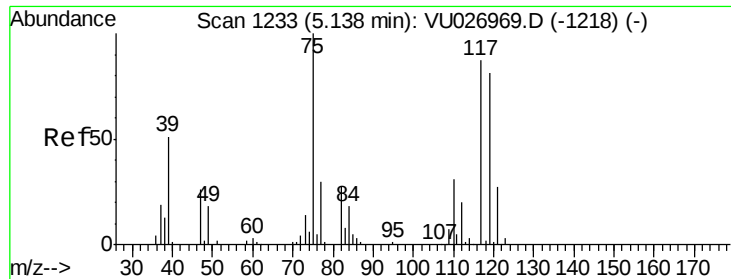
#35
Dibromofluoromethane
Concen: 48.874 ug/l
RT: 4.89 min Scan# 1155
Delta R.T. 0.00 min
Lab File: VU027248.D
Acq: 28 Sep 2018 00:52

Tgt Ion:113 Resp: 69806
Ion Ratio Lower Upper
113 100
111 103.4 82.2 123.4
192 18.7 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

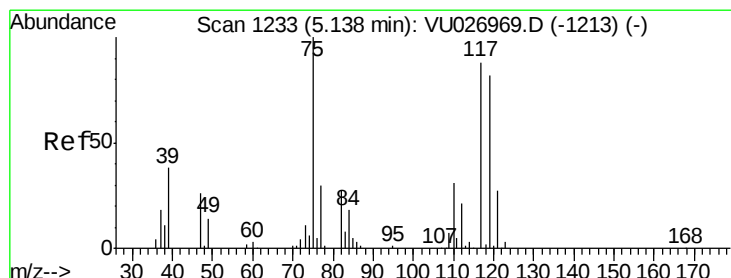
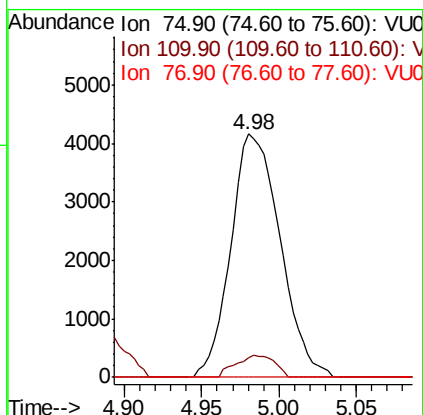
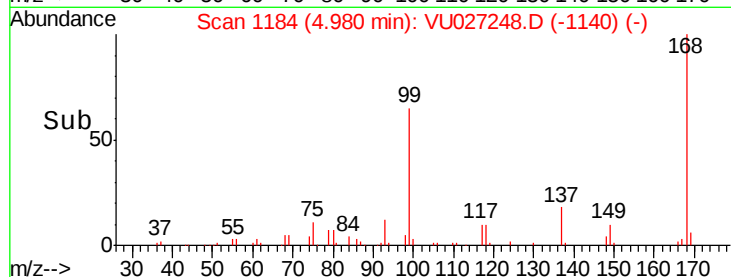
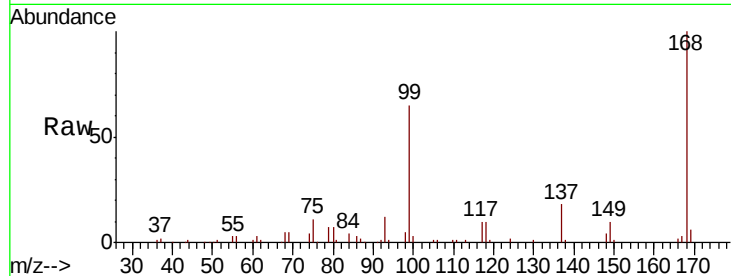




#36
 1,1-Dichloropropene
 Concen: 4.195 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.16 min
 Lab File: VU027248.D
 Acq: 28 Sep 2018 00:52

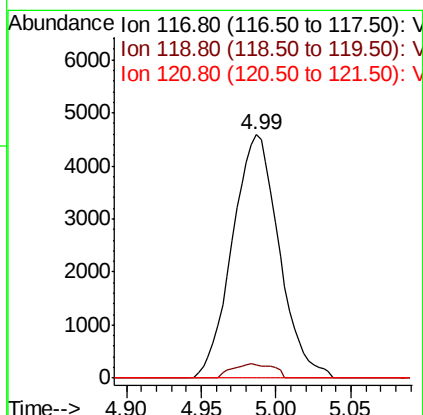
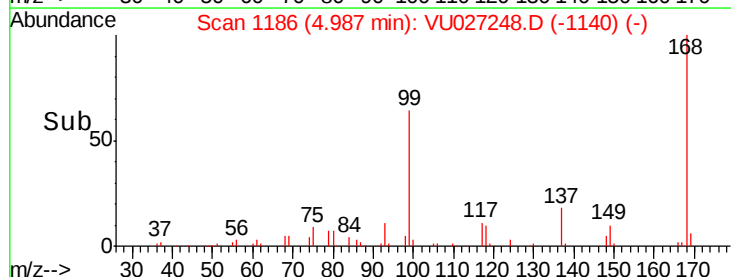
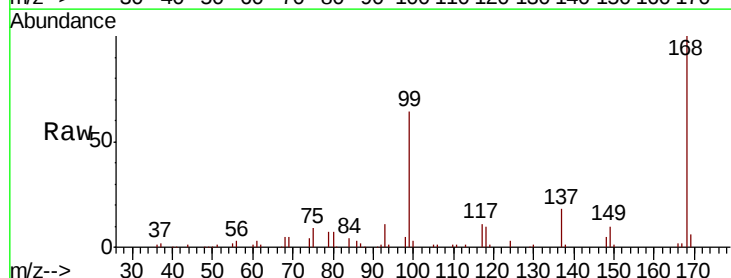
Instrument :
 MSVOA_U
 ClientSampleId :
 T2-MW-5-8.0-091918

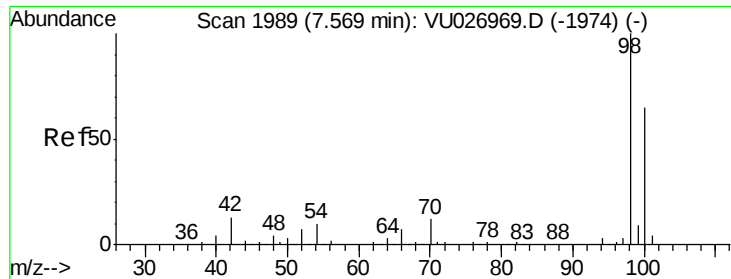
Tot Ion: 75 Resp: 9225
 Ion Ratio Lower Upper
 75 100
 110 7.2 16.1 48.2#
 77 0.0 24.6 36.8#



#38
 Carbon Tetrachloride
 Concen: 4.764 ug/l
 RT: 4.99 min Scan# 1186
 Delta R.T. -0.15 min
 Lab File: VU027248.D
 Acq: 28 Sep 2018 00:52

Tgt Ion: 117 Resp: 9970
 Ion Ratio Lower Upper
 117 100
 119 5.6 74.4 111.6#
 121 0.0 24.2 36.4#

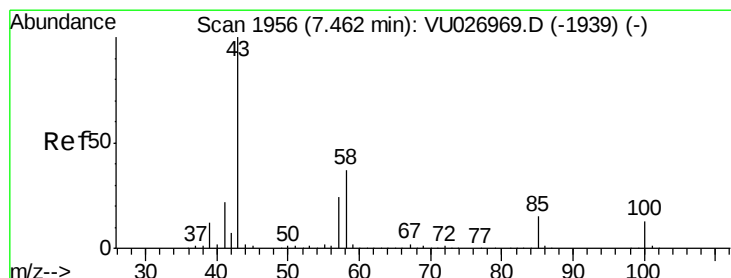
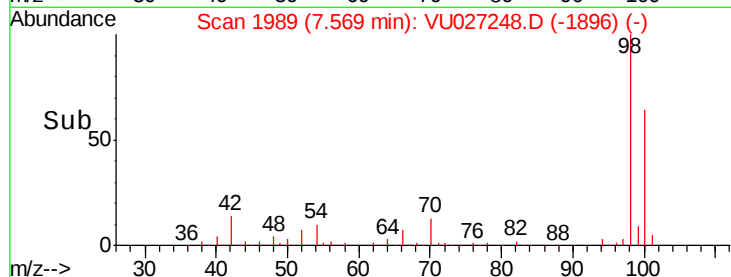
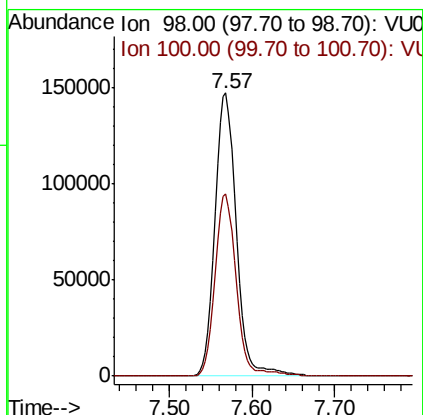
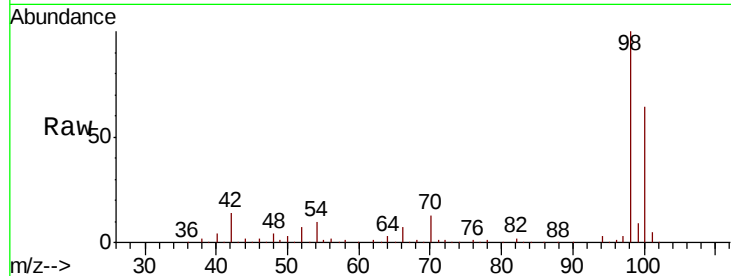




#50
Toluene-d8
Concen: 48.653 ug/l
RT: 7.57 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VU027248.D
Acq: 28 Sep 2018 00:52

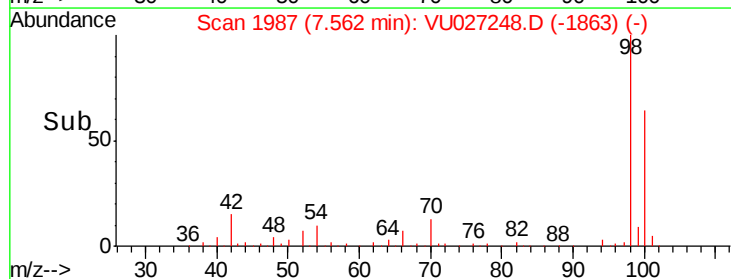
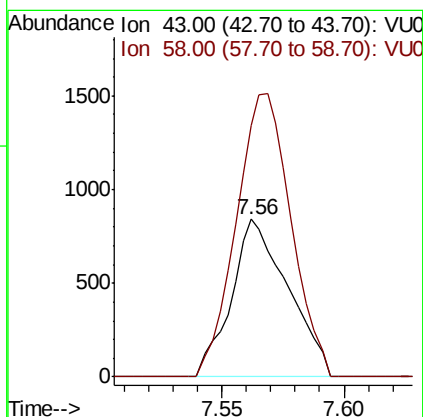
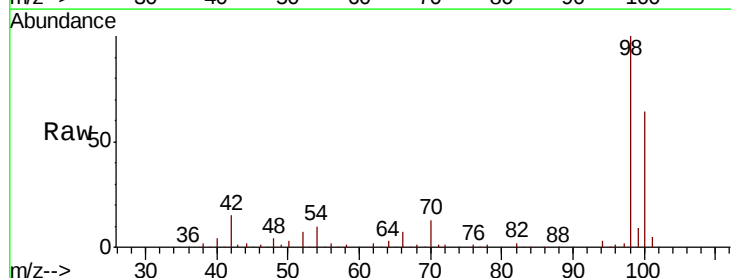
Instrument :
MSVOA_U
ClientSampleId :
T2-MW-5-8.0-091918

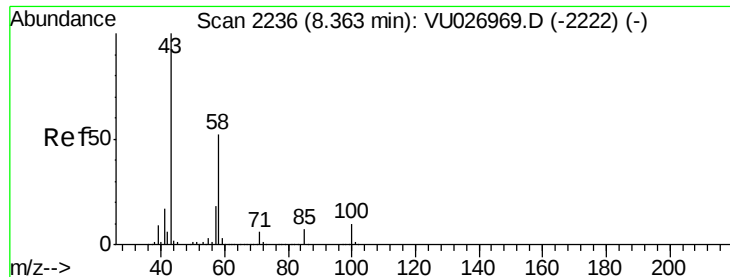
Tot Ion: 98 Resp: 264831
Ion Ratio Lower Upper
98 100
100 63.6 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 0.463 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. 0.10 min
Lab File: VU027248.D
Acq: 28 Sep 2018 00:52

Tgt Ion: 43 Resp: 1353
Ion Ratio Lower Upper
43 100
58 173.6 29.8 44.6#

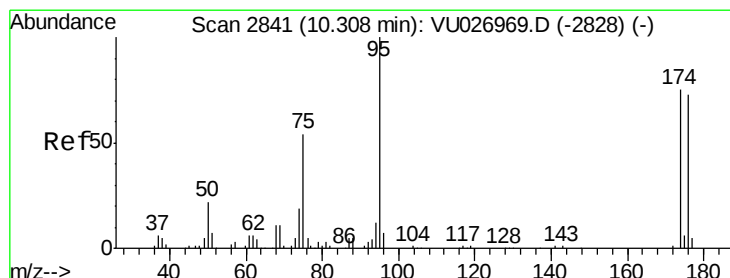
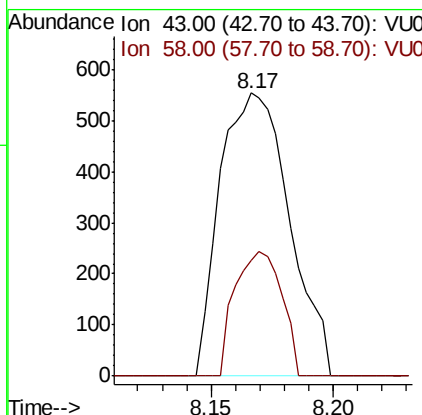
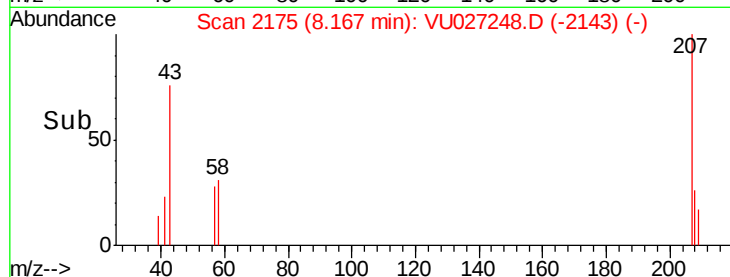
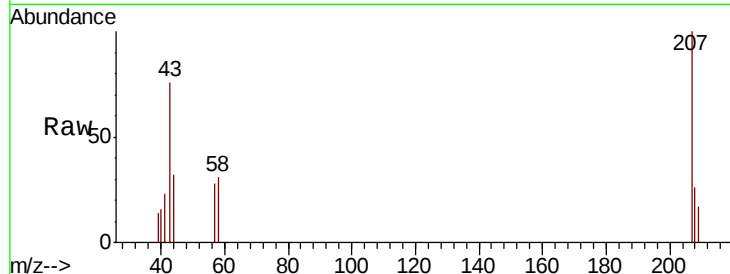




#59
2-Hexanone
Concen: 0.479 ug/l
RT: 8.17 min Scan# 2175
Delta R.T. -0.20 min
Lab File: VU027248.D
Acq: 28 Sep 2018 00:52

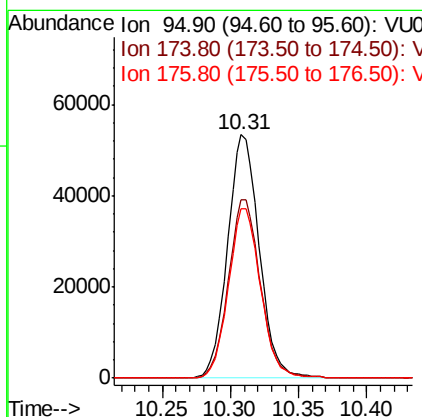
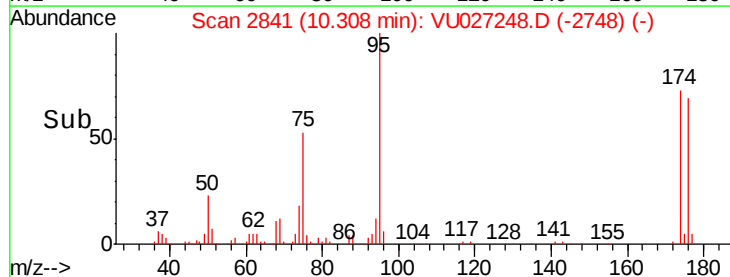
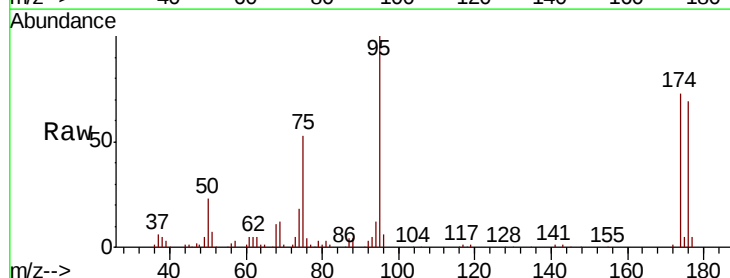
Instrument :
MSVOA_U
ClientSampleId :
T2-MW-5-8.0-091918

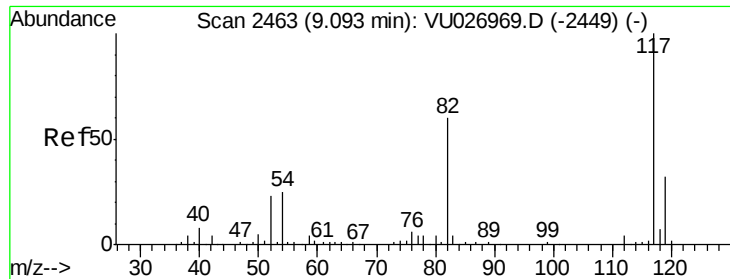
Tot Ion: 43 Resp: 1096
Ion Ratio Lower Upper
43 100
58 29.6 26.1 78.2



#62
4-Bromofluorobenzene
Concen: 46.145 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. 0.00 min
Lab File: VU027248.D
Acq: 28 Sep 2018 00:52

Tgt Ion: 95 Resp: 86188
Ion Ratio Lower Upper
95 100
174 74.3 0.0 150.2
176 70.4 0.0 145.2

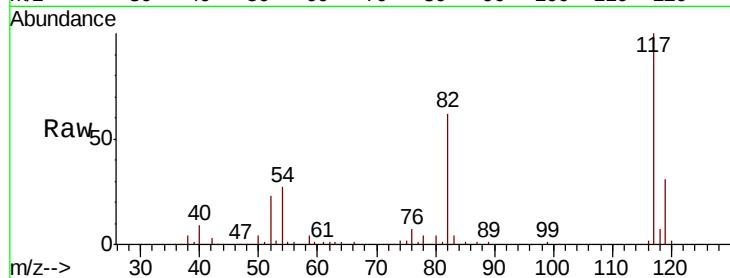




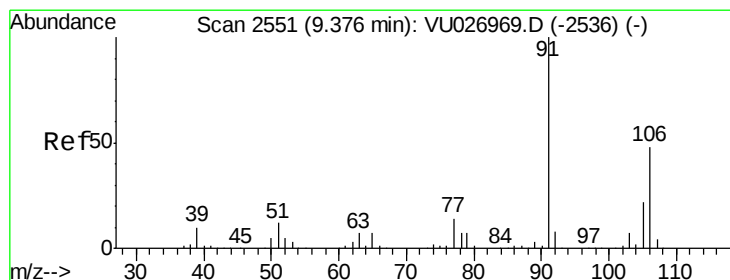
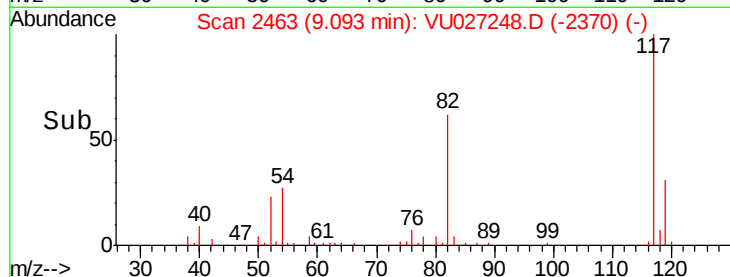
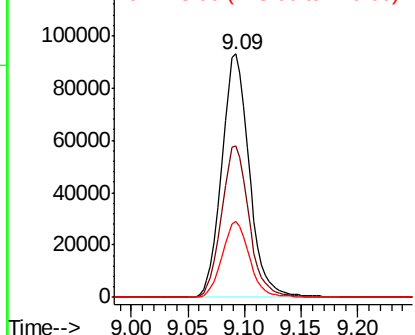
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2463
Delta R.T. 0.00 min
Lab File: VU027248.D
Acq: 28 Sep 2018 00:52

Instrument :
MSVOA_U
ClientSampleId :
T2-MW-5-8.0-091918

Tot Ion:117 Resp: 158173
Ion Ratio Lower Upper
117 100
82 62.0 48.0 72.0
119 31.0 25.8 38.8

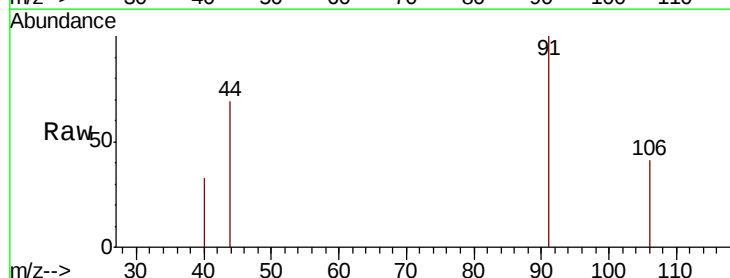


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

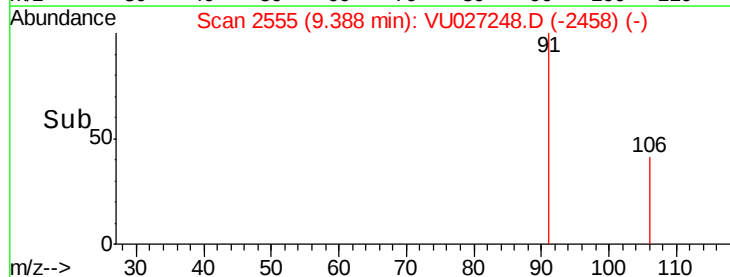
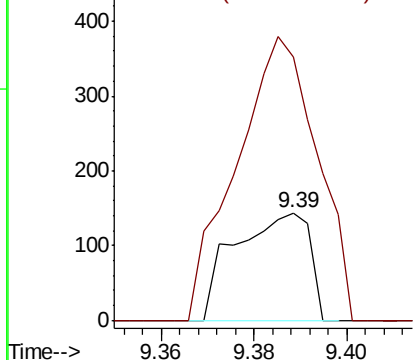


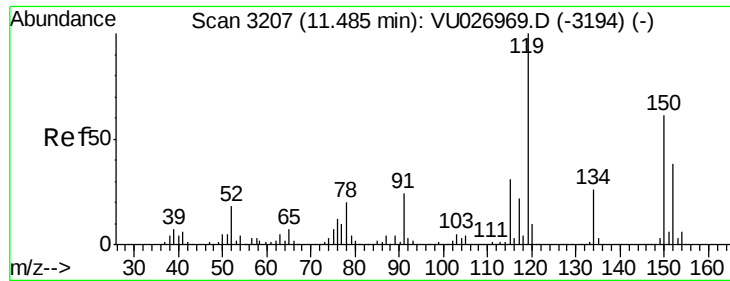
#68
m/p-Xylenes
Concen: 1.557 ug/l
RT: 9.39 min Scan# 2555
Delta R.T. 0.01 min
Lab File: VU027248.D
Acq: 28 Sep 2018 00:52

Tgt Ion:106 Resp: 161
Ion Ratio Lower Upper
106 100
91 285.7 166.5 249.7#



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



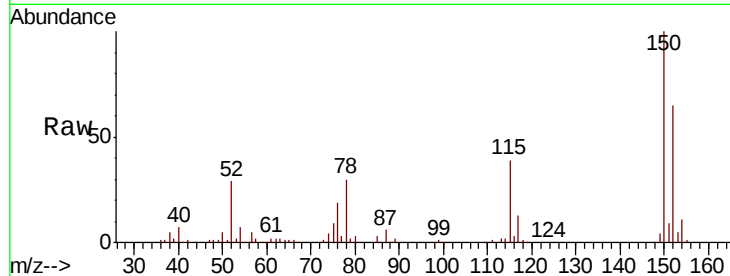


#72

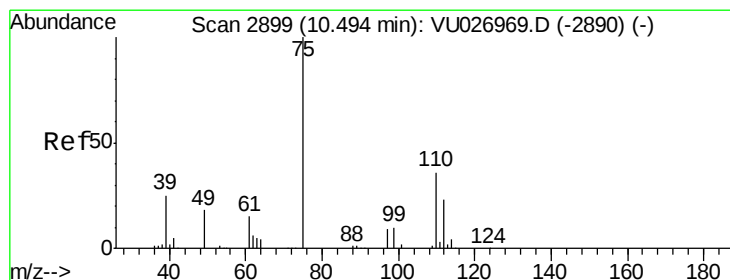
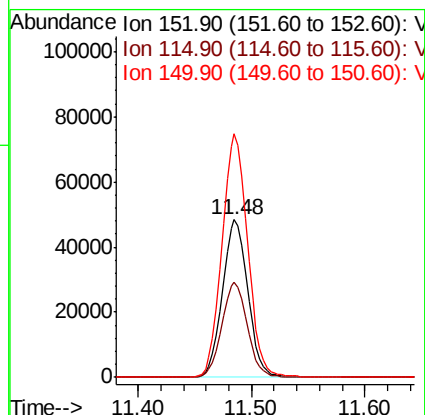
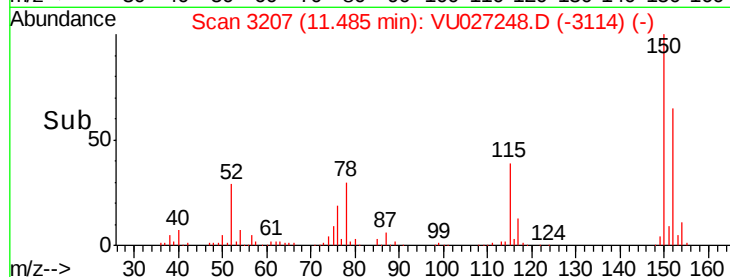
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3207
Delta R.T. 0.00 min
Lab File: VU027248.D
Acq: 28 Sep 2018 00:52

Instrument :
MSVOA_U
ClientSampleId :
T2-MW-5-8.0-091918

Tot Ion:152 Resp: 75623
Ion Ratio Lower Upper
152 100
115 60.4 44.9 134.5
150 156.1 0.0 355.8



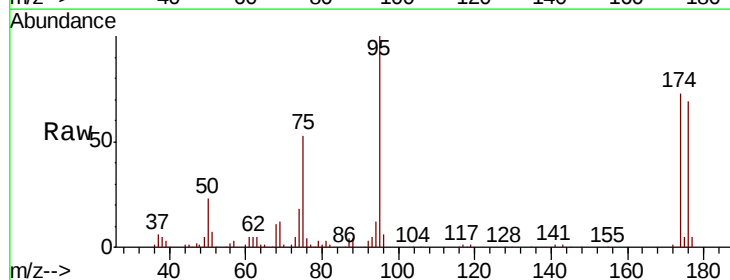
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



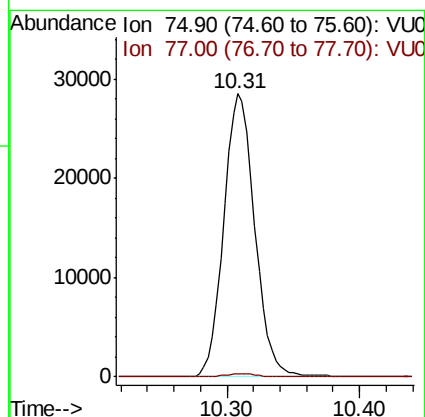
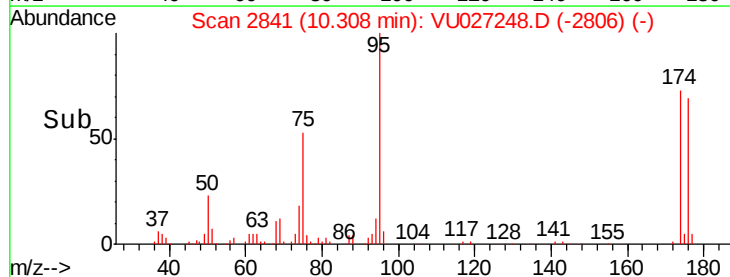
#76

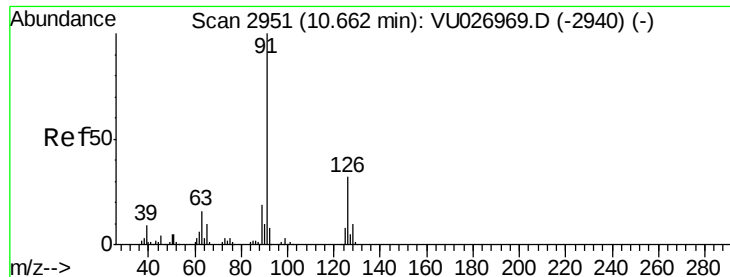
1,2,3-Trichloropropane
Concen: 20.131 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.19 min
Lab File: VU027248.D
Acq: 28 Sep 2018 00:52

Tgt Ion: 75 Resp: 46248
Ion Ratio Lower Upper
75 100
77 1.0 20.9 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 77.00 (76.70 to 77.70): VU0

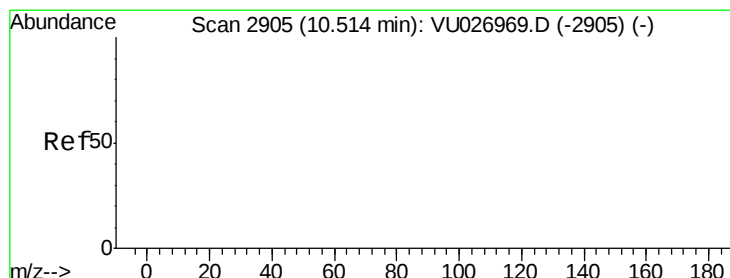
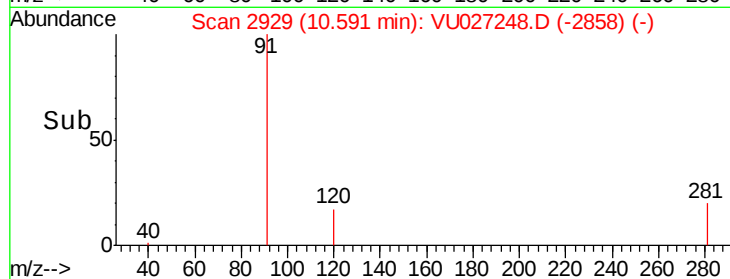
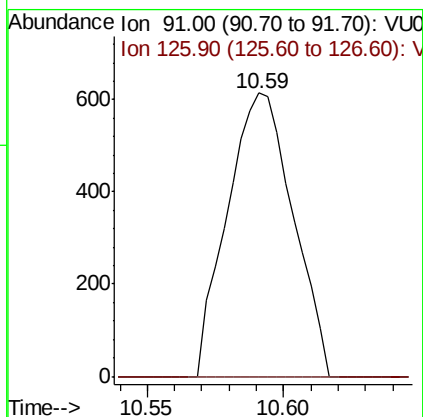
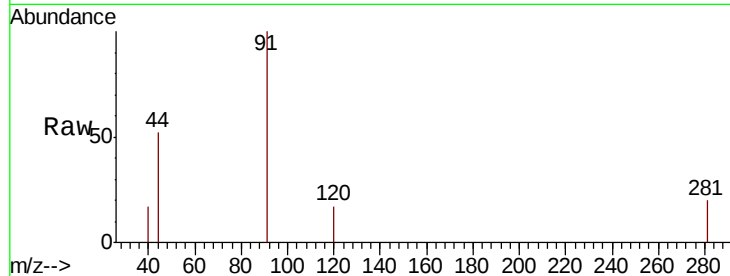




#79
 2-Chlorotoluene
 Concen: 0.239 ug/l
 RT: 10.59 min Scan# 2929
 Delta R.T. -0.07 min
 Lab File: VU027248.D
 Acq: 28 Sep 2018 00:52

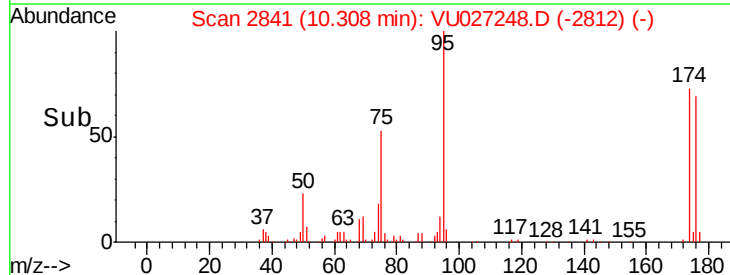
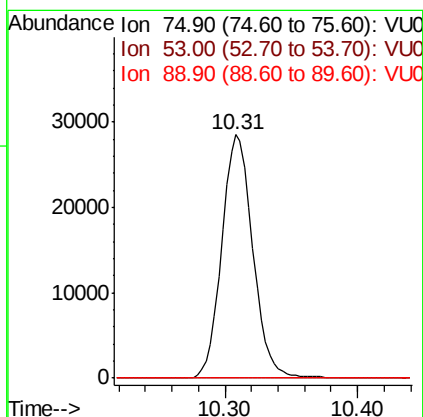
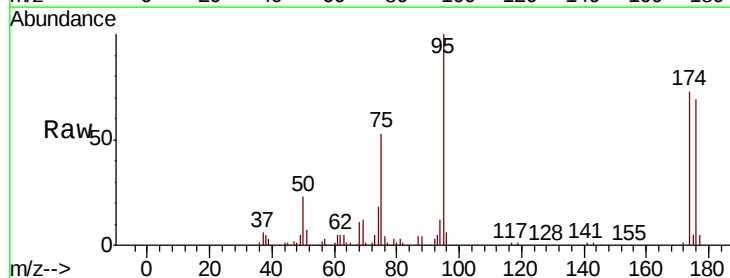
Instrument :
 MSVOA_U
 ClientSampleId :
 T2-MW-5-8.0-091918

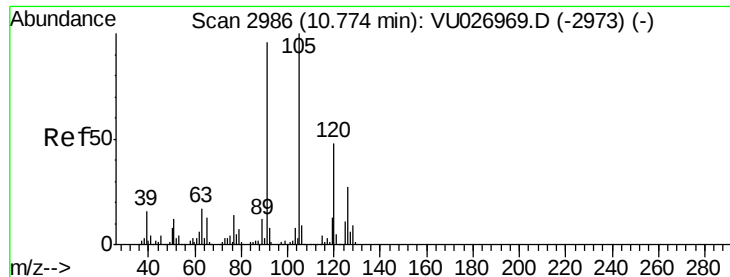
Tot Ion: 91 Resp: 1023
 Ion Ratio Lower Upper
 91 100
 126 0.0 15.8 47.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 64.421 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. -0.21 min
 Lab File: VU027248.D
 Acq: 28 Sep 2018 00:52

Tgt Ion: 75 Resp: 46248
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0





#82

4-Chlorotoluene

Concen: 0.213 ug/l

RT: 10.59 min Scan# 2929

Delta R.T. -0.18 min

Lab File: VU027248.D

Acq: 28 Sep 2018 00:52

Instrument :

MSVOA_U

ClientSampleId :

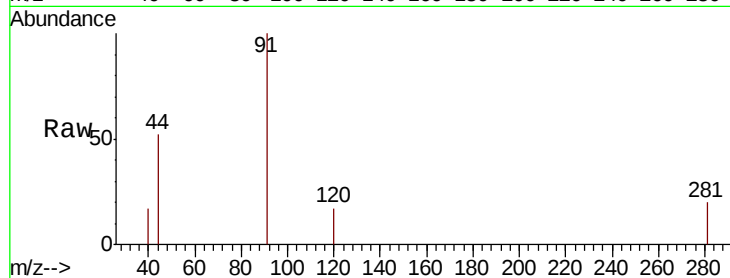
T2-MW-5-8.0-091918

Tot Ion: 91 Resp: 1023

Ion Ratio Lower Upper

91 100

126 0.0 14.1 42.2#



Abundance Ion 91.00 (90.70 to 91.70): VU026969.D (-2973) (-)

Ion 125.90 (125.60 to 126.60): VU026969.D (-2973) (-)

10.59

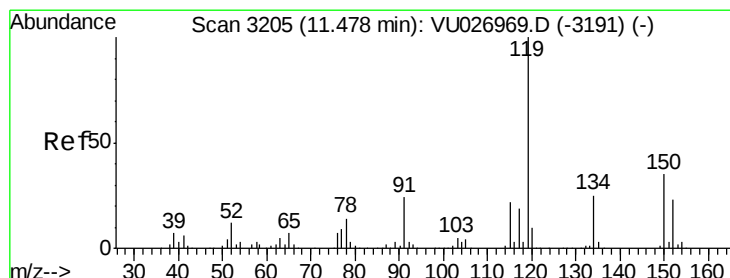
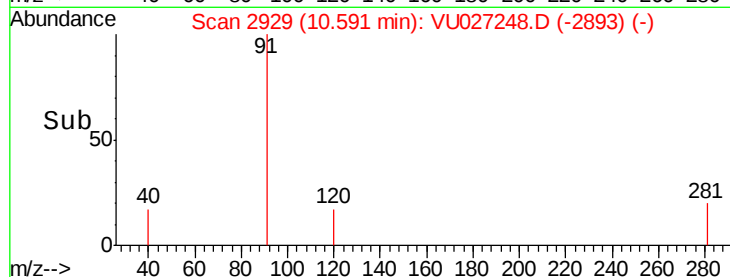
600

400

200

0

Time-->



#86

p-Isopropyltoluene

Concen: 0.931 ug/l

RT: 11.48 min Scan# 3207

Delta R.T. 0.01 min

Lab File: VU027248.D

Acq: 28 Sep 2018 00:52

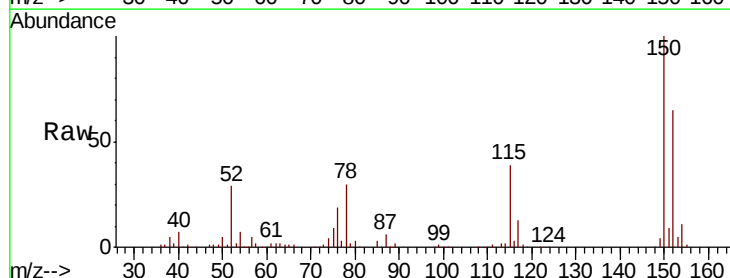
Tgt Ion: 119 Resp: 20

Ion Ratio Lower Upper

119 100

134 0.0 12.8 38.3#

91 800.0 12.3 36.8#



Abundance Ion 119.00 (118.70 to 119.70): VU026969.D (-3191) (-)

Ion 134.00 (133.70 to 134.70): VU026969.D (-3191) (-)

Ion 91.00 (90.70 to 91.70): VU026969.D (-3191) (-)

250

200

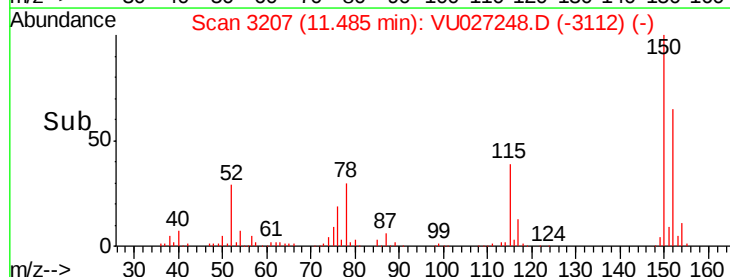
150

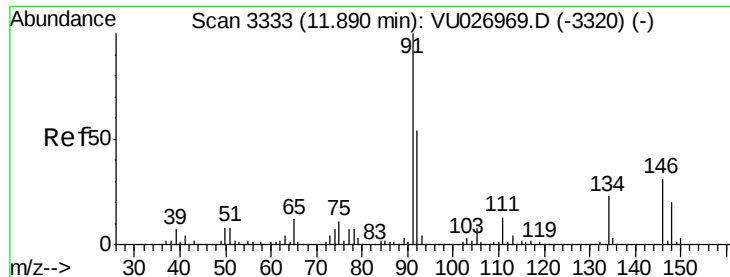
100

50

0

Time-->





#89

n-Butylbenzene

Concen: 2.424 ug/l

RT: 11.90 min Scan# 3335

Delta R.T. 0.01 min

Lab File: VU027248.D

Acq: 28 Sep 2018 00:52

Instrument :

MSVOA_U

ClientSampleId :

T2-MW-5-8.0-091918

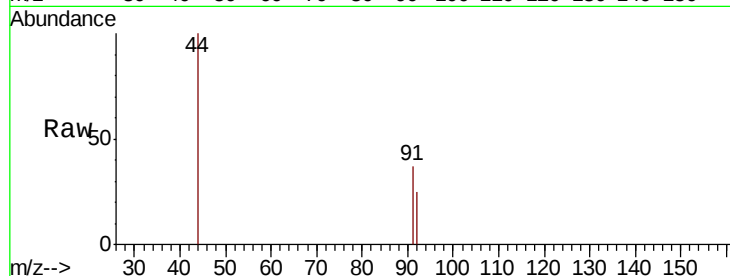
Tot Ion: 91 Resp: 172

Ion Ratio Lower Upper

91 100

92 39.5 27.1 81.2

134 0.0 11.7 35.0#

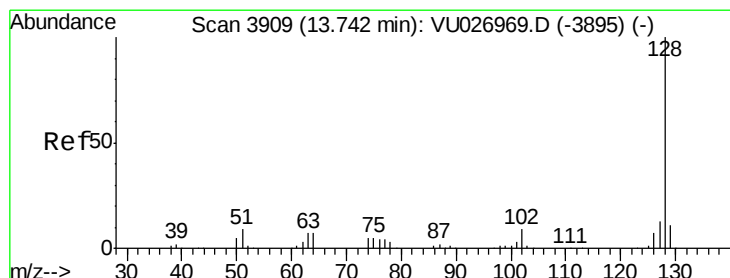
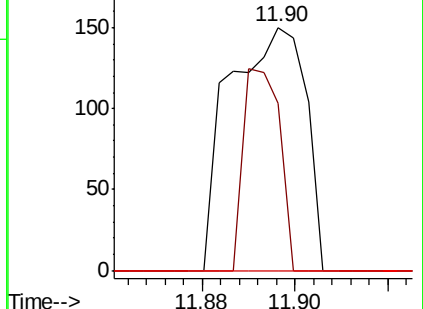
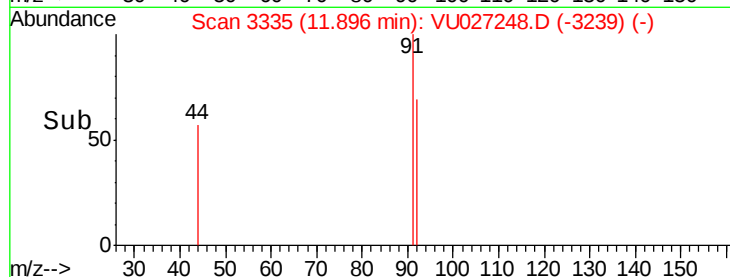


Abundance Ion 91.00 (90.70 to 91.70): VU026969.D (-3320) (-)

Ion 92.00 (91.70 to 92.70): VU026969.D (-3320) (-)

Ion 134.00 (133.70 to 134.70): VU026969.D (-3320) (-)

Time-->



#95

Naphthalene

Concen: 1.912 ug/l

RT: 13.75 min Scan# 3911

Delta R.T. 0.01 min

Lab File: VU027248.D

Acq: 28 Sep 2018 00:52

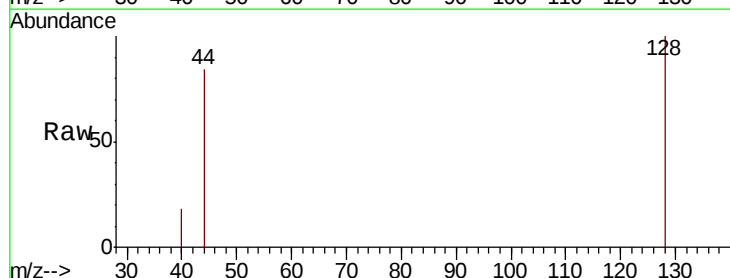
Tgt Ion: 128 Resp: 1442

Ion Ratio Lower Upper

128 100

127 3.3 10.6 15.8#

129 1.3 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VU026969.D (-3895) (-)

Ion 127.00 (126.70 to 127.70): VU026969.D (-3895) (-)

Ion 129.00 (128.70 to 129.70): VU026969.D (-3895) (-)

Time-->

