

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU063018\
 Data File : VU025093.D
 Acq On : 30 Jun 2018 17:11
 Operator : MD/SY
 Sample : J3759-04
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021MW360-180625

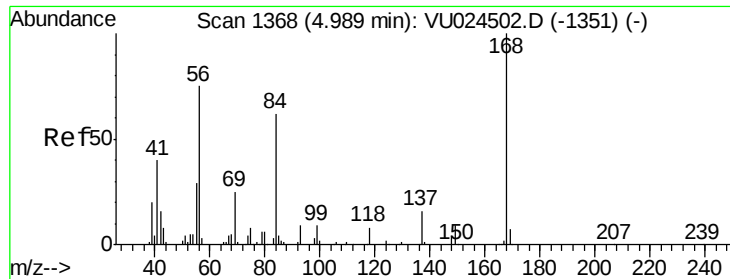
Quant Time: Jul 02 05:39:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 13 13:55:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	208454	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	311805	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	290683	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	152060	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	157922	46.41	ug/l	0.00
Spiked Amount			Recovery	=	92.82%	
35) Dibromofluoromethane	4.89	113	123543	47.74	ug/l	0.00
Spiked Amount			Recovery	=	95.48%	
50) Toluene-d8	7.57	98	452888	47.98	ug/l	0.00
Spiked Amount			Recovery	=	95.96%	
62) 4-Bromofluorobenzene	10.31	95	167751	44.76	ug/l	0.00
Spiked Amount			Recovery	=	89.52%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	488	0.367	ug/l #	71
6) Chloroethane	1.72	64	23	Below Cal	#	43
10) Methyl Iodide	2.42	142	74	5.319	ug/l #	40
11) Tert butyl alcohol	2.84	59	930	1.124	ug/l #	72
13) Acrolein	2.19	56	120	0.276	ug/l #	1
16) Acetone	2.32	43	2565	1.403	ug/l	99
27) cis-1,2-Dichloroethene	4.24	96	5149	1.713	ug/l	93
31) Cyclohexane	4.99	56	4400	Below Cal	#	13
36) 1,1-Dichloropropene	4.99	75	15941	4.351	ug/l #	50
38) Carbon Tetrachloride	4.99	117	19945	4.950	ug/l #	16
42) 1,2-Dichloroethane	5.41	62	981	0.247	ug/l #	77
51) 4-Methyl-2-Pentanone	7.57	43	2199	0.507	ug/l #	1
65) Chlorobenzene	9.13	112	7989	1.076	ug/l	100
76) 1,2,3-Trichloropropane	10.31	75	88430	26.414	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	88430	61.134	ug/l #	100
83) tert-Butylbenzene	11.10	119	2774	0.285	ug/l	92
86) p-Isopropyltoluene	11.70	119	5211	0.478	ug/l	91
92) 1,2-Dibromo-3-Chloropropan	12.80	75	225	0.208	ug/l #	3
95) Naphthalene	13.75	128	284	0.704	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.00 min

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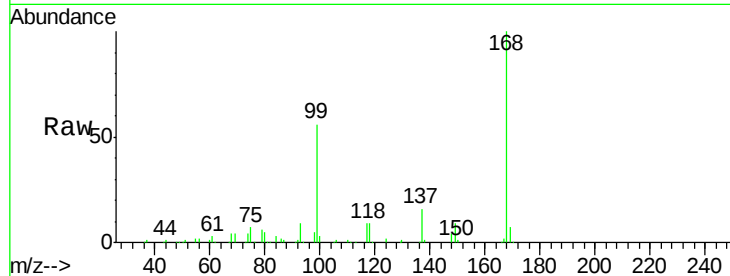
WP021MW360-180625

Tgt Ion:168 Resp: 208454

Ion Ratio Lower Upper

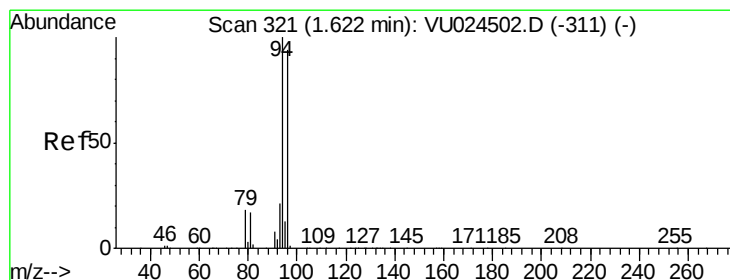
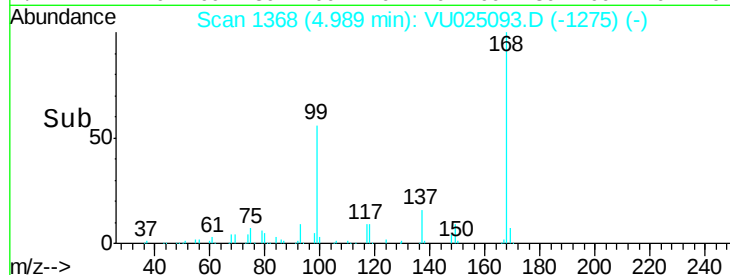
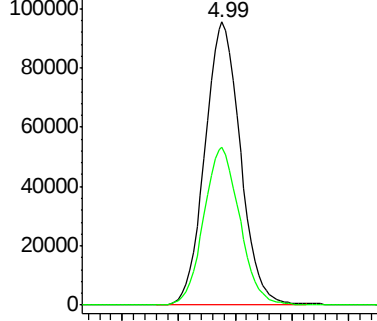
168 100

99 55.7 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VU0



#5

Bromomethane

Concen: 0.367 ug/l

RT: 1.63 min Scan# 325

Delta R.T. 0.01 min

Lab File: VU025093.D

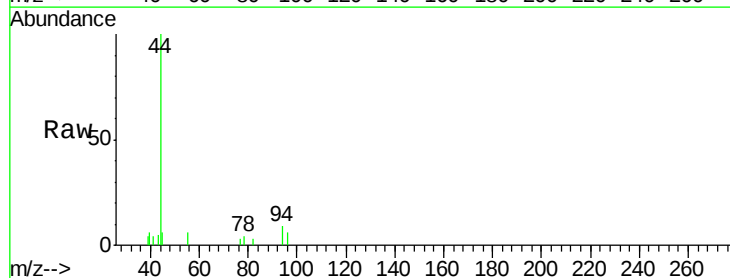
Acq: 30 Jun 2018 17:11

Tgt Ion: 94 Resp: 488

Ion Ratio Lower Upper

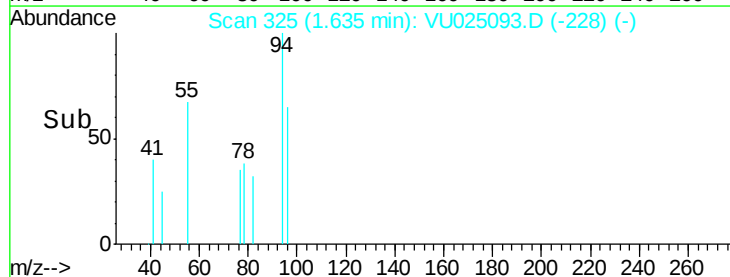
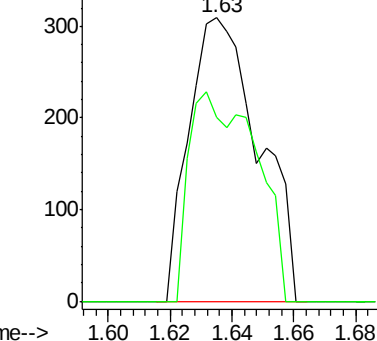
94 100

96 65.0 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 352

Delta R.T. 0.03 min

Lab File: VU025093.D

Acq: 30 Jun 2018 17:11

Instrument :

MSVOA_U

ClientSampleId :

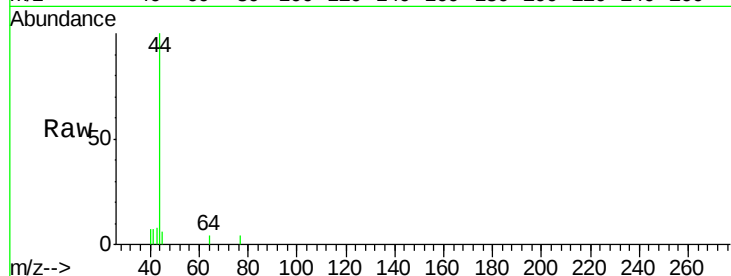
WP021MW360-180625

Tgt Ion: 64 Resp: 23

Ion Ratio Lower Upper

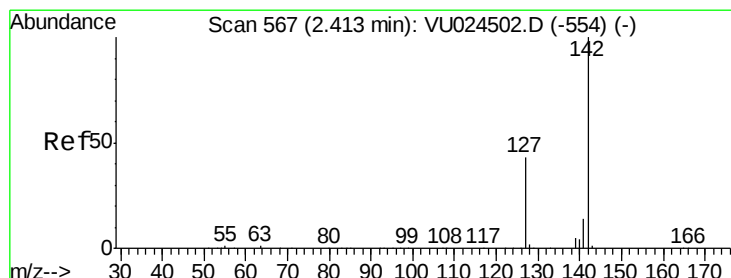
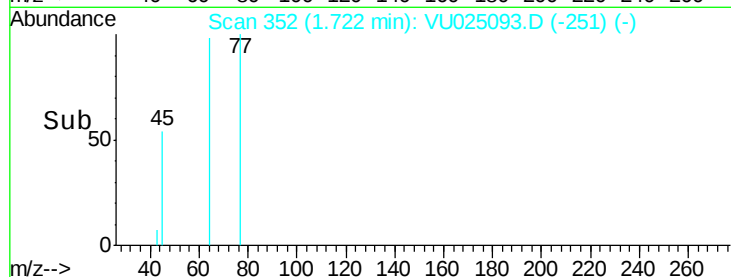
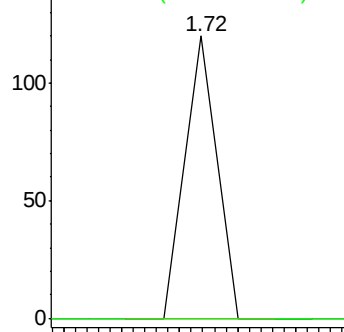
64 100

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



#10

Methyl Iodide

Concen: 5.319 ug/l

RT: 2.42 min Scan# 568

Delta R.T. 0.00 min

Lab File: VU025093.D

Acq: 30 Jun 2018 17:11

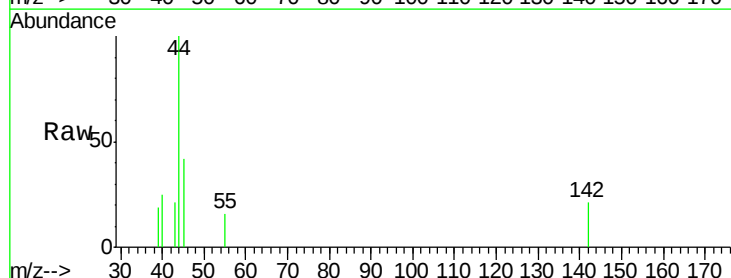
Tgt Ion: 142 Resp: 74

Ion Ratio Lower Upper

142 100

127 0.0 35.6 53.4#

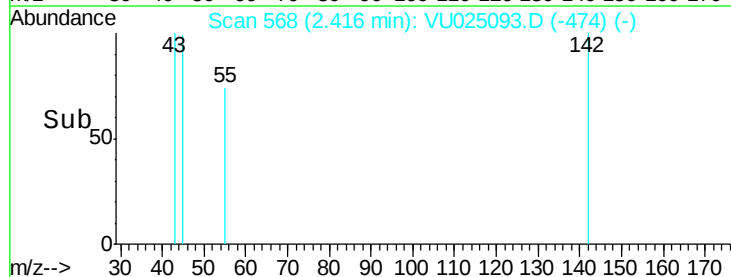
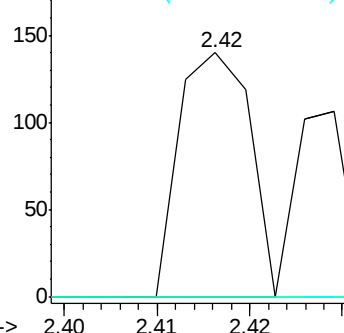
141 0.0 11.7 17.5#

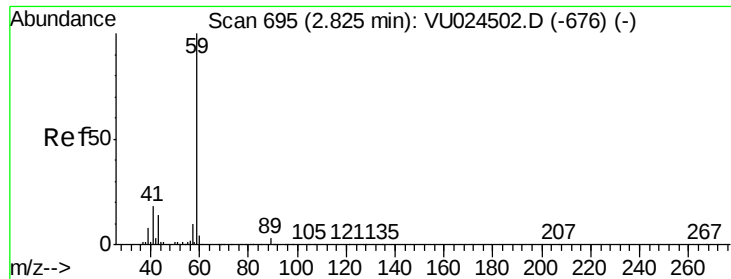


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

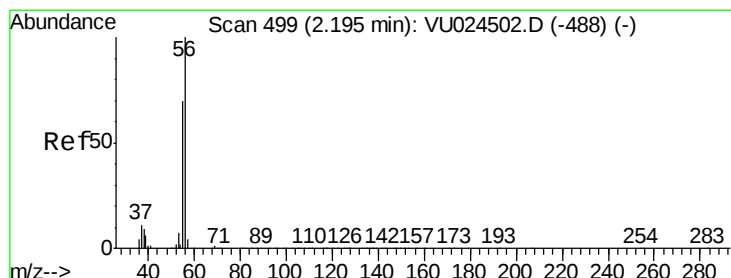
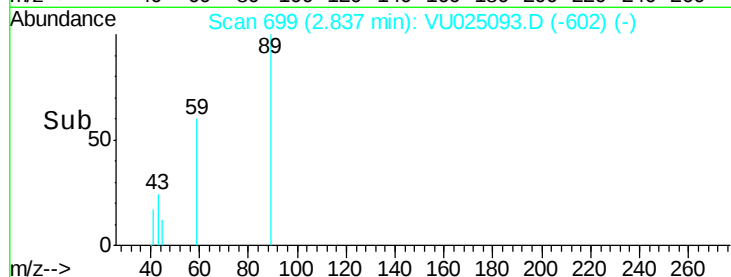
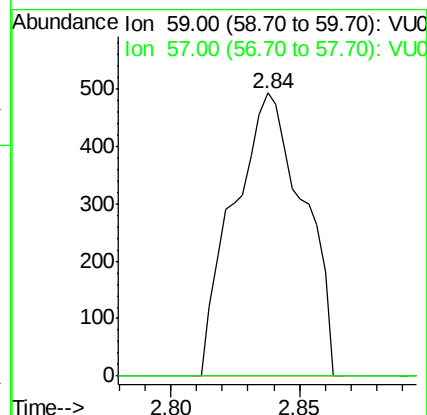
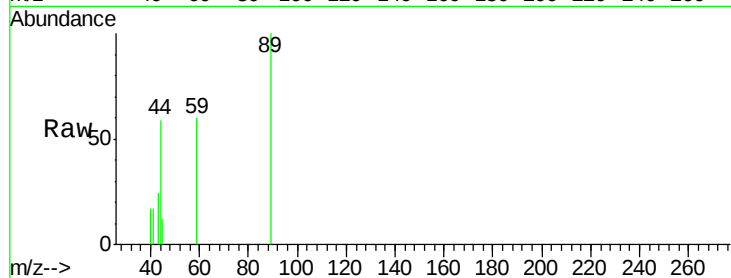




#11
Tert butyl alcohol
Concen: 1.124 ug/l
RT: 2.84 min Scan# 699
Delta R.T. 0.01 min
Lab File: VU025093.D
Acq: 30 Jun 2018 17:11

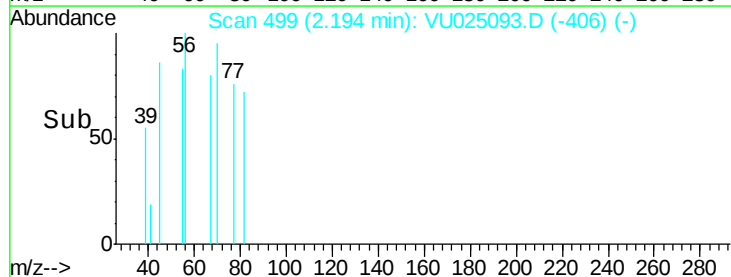
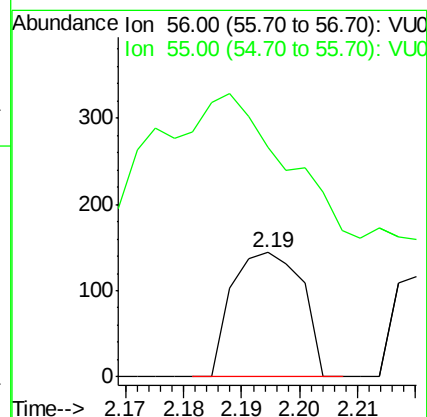
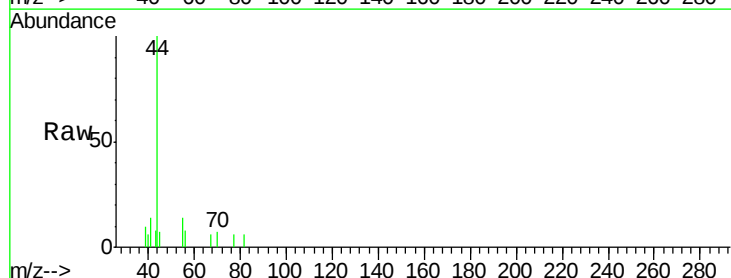
Instrument :
MSVOA_U
ClientSampleId :
WP021MW360-180625

Tgt Ion: 59 Resp: 930
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#13
Acrolein
Concen: 0.276 ug/l
RT: 2.19 min Scan# 499
Delta R.T. -0.00 min
Lab File: VU025093.D
Acq: 30 Jun 2018 17:11

Tgt Ion: 56 Resp: 120
Ion Ratio Lower Upper
56 100
55 266.7 58.4 87.6#





#16

Acetone

Concen: 1.403 ug/l

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU025093.D

Acq: 30 Jun 2018 17:11

Instrument :

MSVOA_U

ClientSampleId :

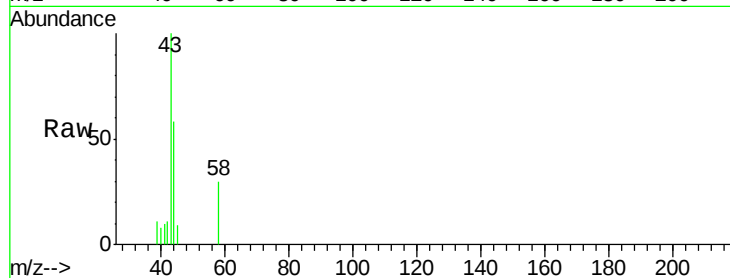
WP021MW360-180625

Tgt Ion: 43 Resp: 2565

Ion Ratio Lower Upper

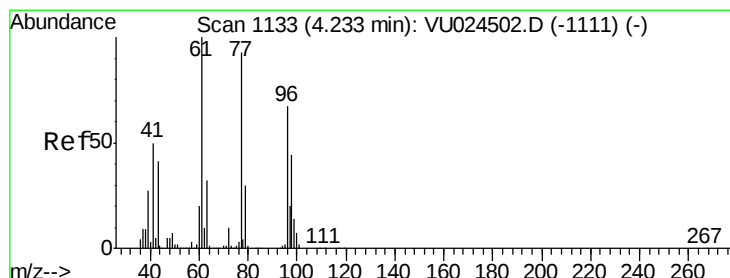
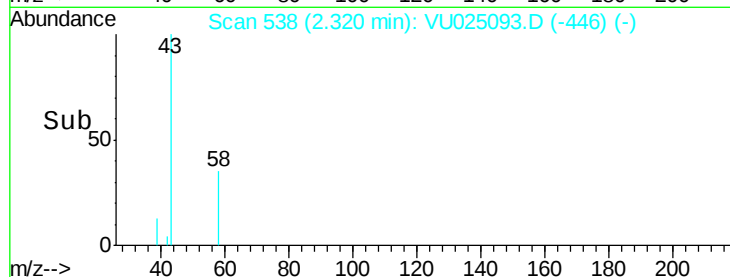
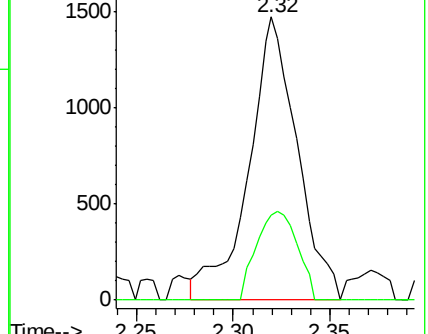
43 100

58 30.1 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#27

cis-1,2-Dichloroethene

Concen: 1.713 ug/l

RT: 4.24 min Scan# 1134

Delta R.T. 0.00 min

Lab File: VU025093.D

Acq: 30 Jun 2018 17:11

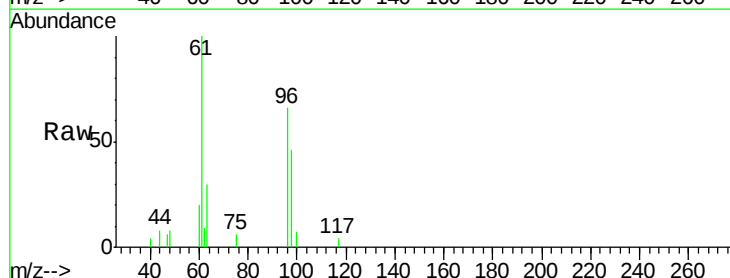
Tgt Ion: 96 Resp: 5149

Ion Ratio Lower Upper

96 100

61 142.3 0.0 306.6

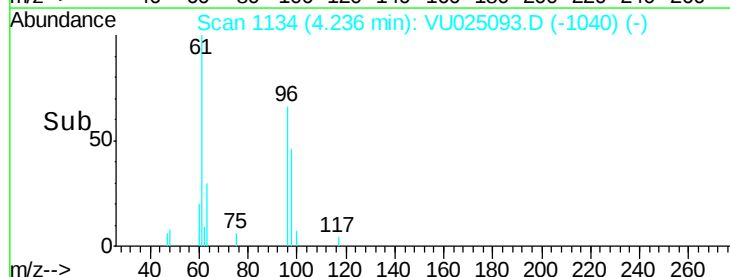
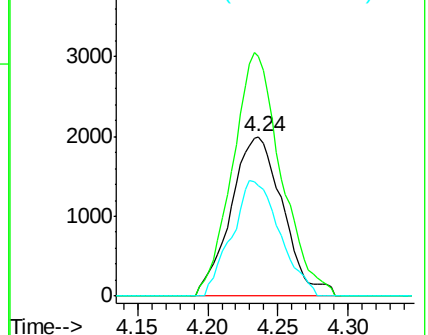
98 66.7 0.0 128.8

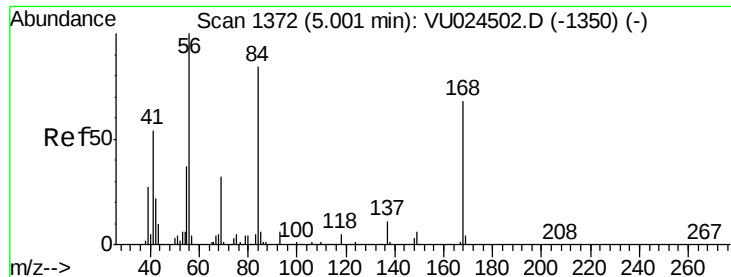


Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

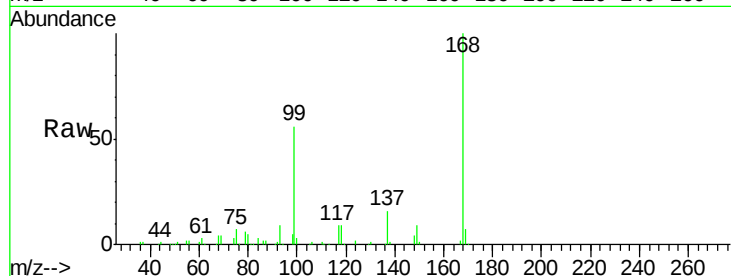




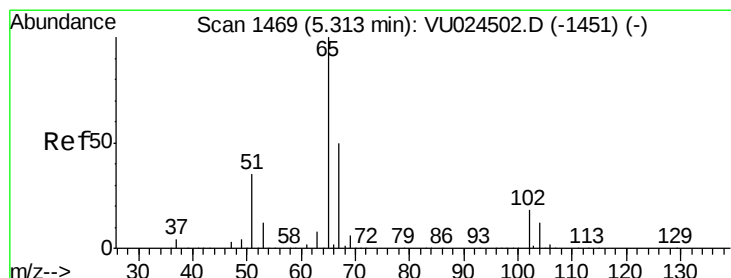
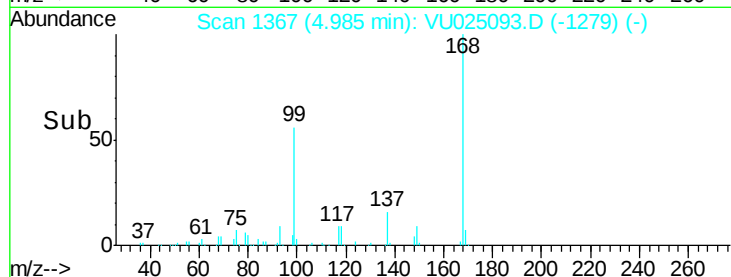
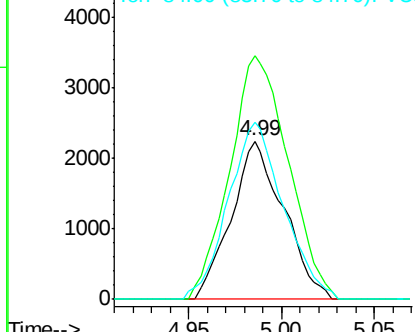
#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1367
Delta R.T. -0.02 min
Lab File: VU025093.D
Acq: 30 Jun 2018 17:11

Instrument :
MSVOA_U
ClientSampleId :
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Tgt Ion: 56 Resp: 4400
Ion Ratio Lower Upper
56 100
69 153.9 24.8 37.2#
84 112.3 65.2 97.8#

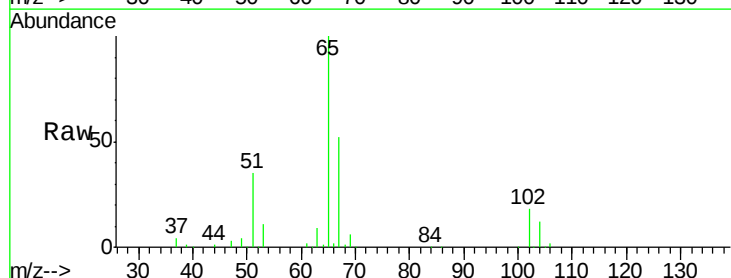


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

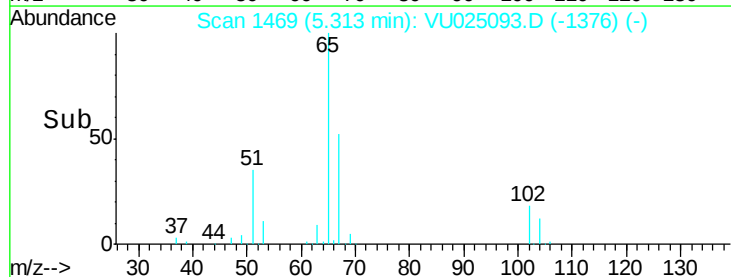
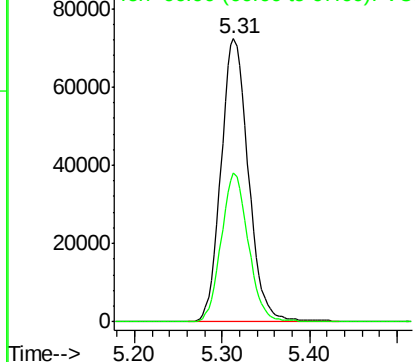


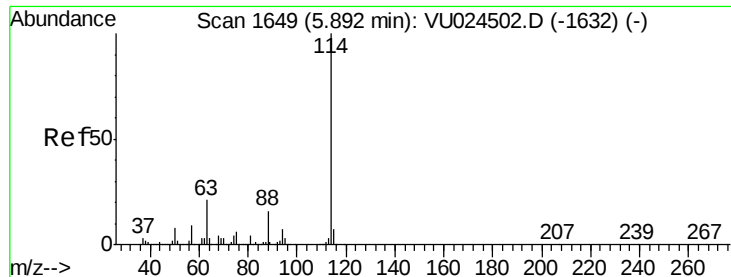
#33
1,2-Dichloroethane-d4
Concen: 46.406 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VU025093.D
Acq: 30 Jun 2018 17:11

Tgt Ion: 65 Resp: 157922
Ion Ratio Lower Upper
65 100
67 51.8 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: VU025093.D

Acq: 30 Jun 2018 17:11

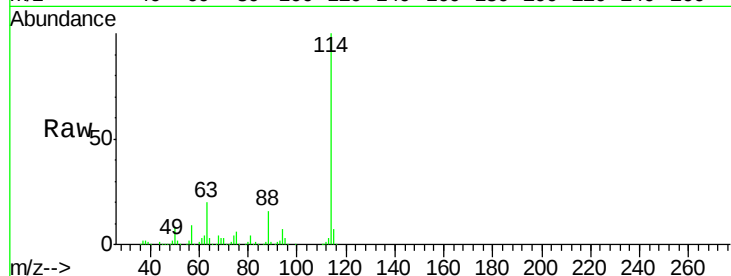
Instrument :

MSVOA_U

ClientSampleId :

WP021MW360-180625

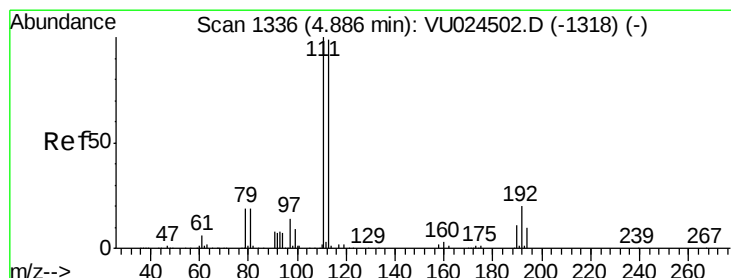
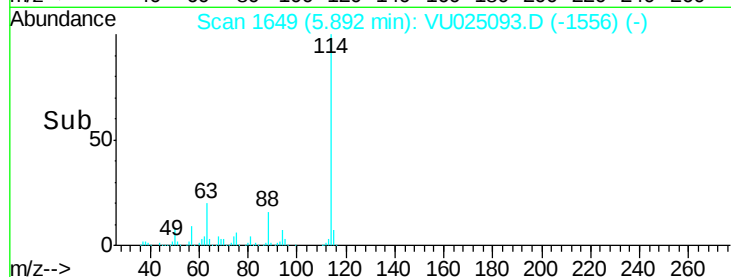
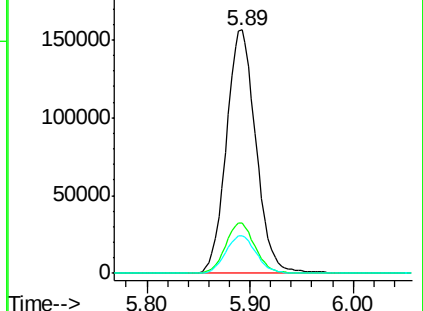
Tgt Ion:	114	Resp:	311805
Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	45.4
88	15.6	0.0	31.0



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



#35

Dibromofluoromethane

Concen: 47.742 ug/l

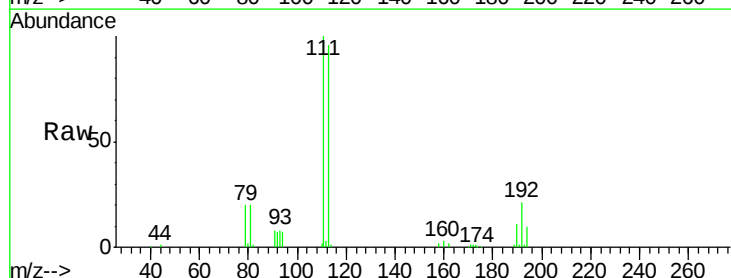
RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU025093.D

Acq: 30 Jun 2018 17:11

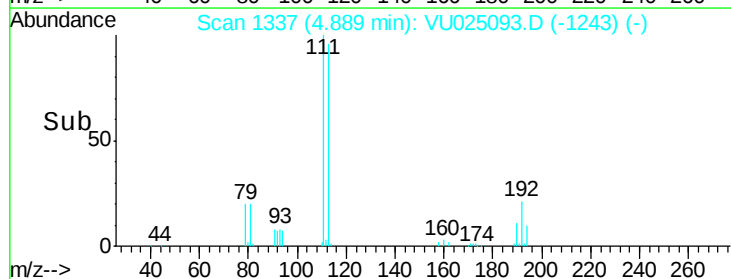
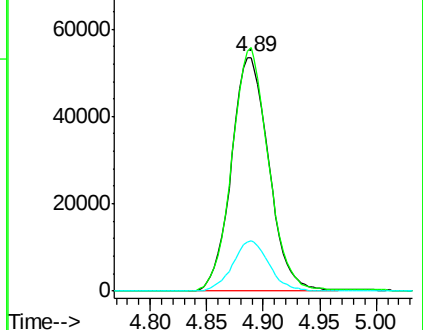
Tgt Ion:	113	Resp:	123543
Ion	Ratio	Lower	Upper
113	100		
111	101.4	82.2	123.4
192	20.7	16.2	24.4

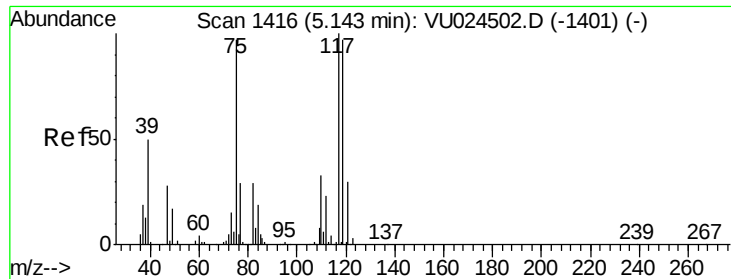


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

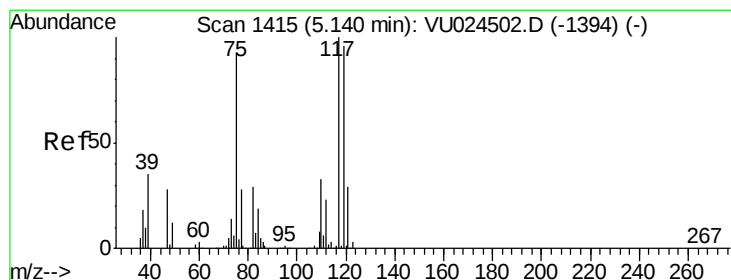
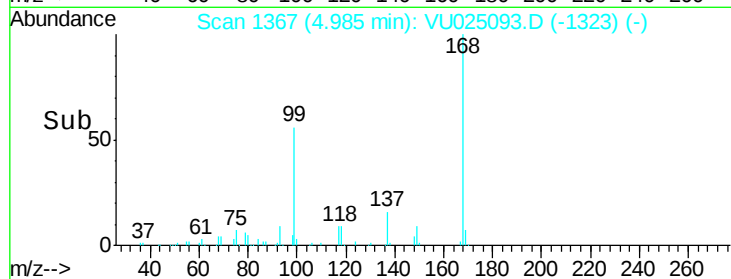
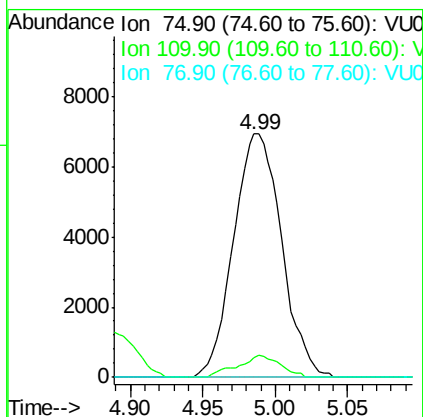
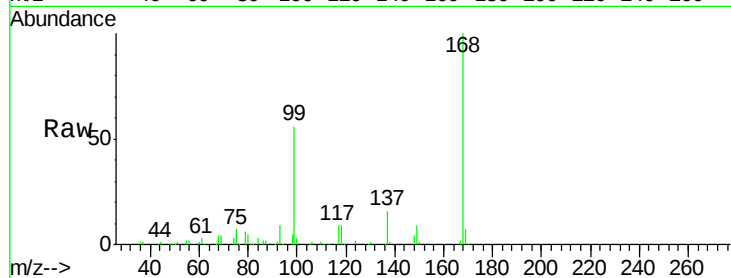




#36
 1,1-Dichloropropene
 Concen: 4.351 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.16 min
 Lab File: VU025093.D
 Acq: 30 Jun 2018 17:11

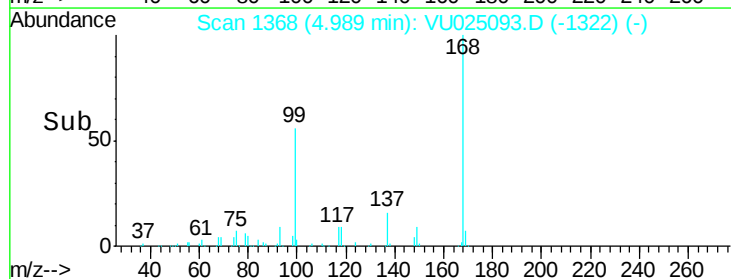
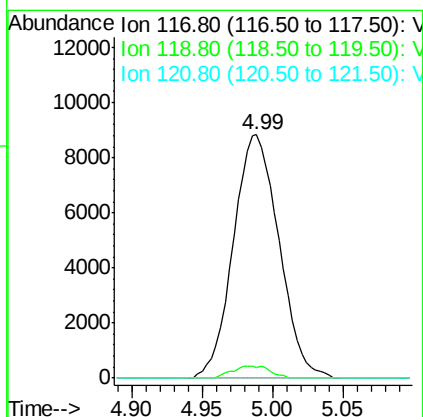
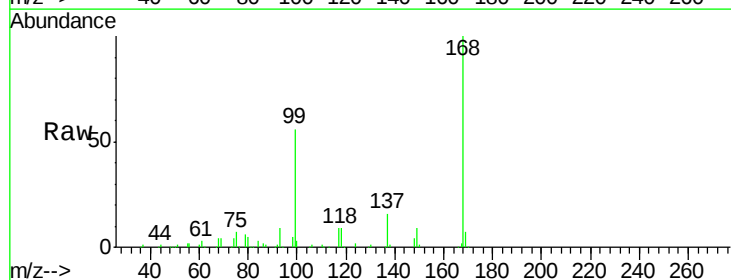
Instrument :
 MSVOA_U
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 WP021MW360-180625

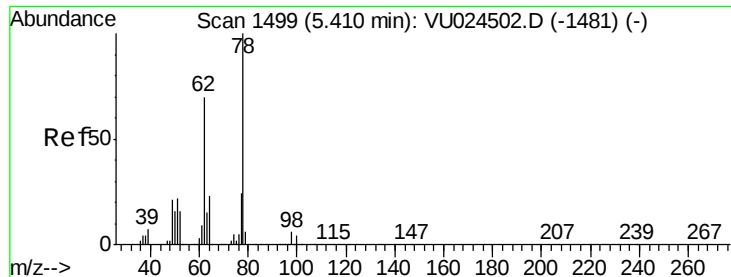
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	17.0	50.9#
77	0.0	24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 4.950 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU025093.D
 Acq: 30 Jun 2018 17:11

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.6	76.1	114.1#
121	0.0	23.7	35.5#





#42

1,2-Dichloroethane

Concen: 0.247 ug/l

RT: 5.41 min Scan# 1500

Delta R.T. 0.00 min

Lab File: VU025093.D

Acq: 30 Jun 2018 17:11

Instrument :

MSVOA_U

ClientSampleId :

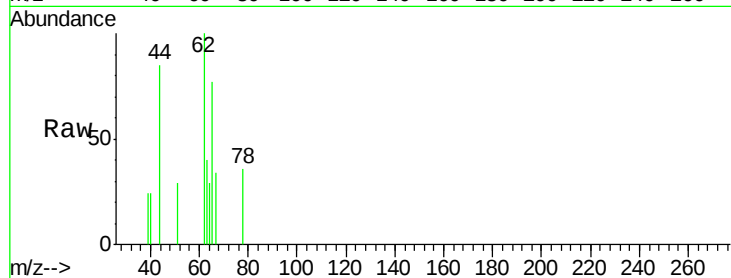
WP021MW360-180625

Tgt Ion: 62 Resp: 981

Ion Ratio Lower Upper

62 100

98 0.0 0.0 16.6



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

5.41

500

400

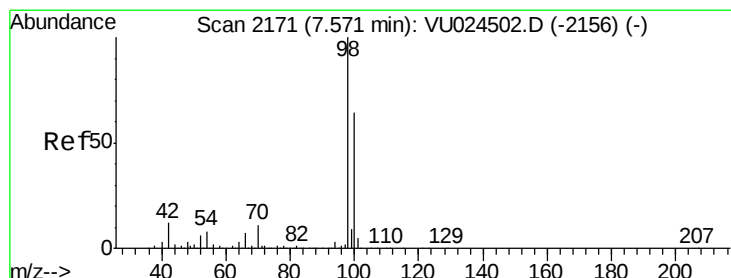
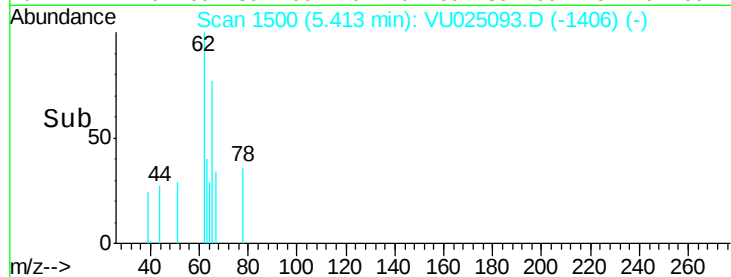
300

200

100

0

Time--> 5.35 5.40 5.45



#50

Toluene-d8

Concen: 47.980 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU025093.D

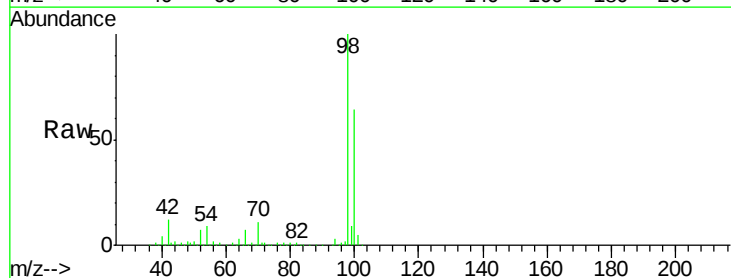
Acq: 30 Jun 2018 17:11

Tgt Ion: 98 Resp: 452888

Ion Ratio Lower Upper

98 100

100 64.0 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU0

7.57

300000

250000

200000

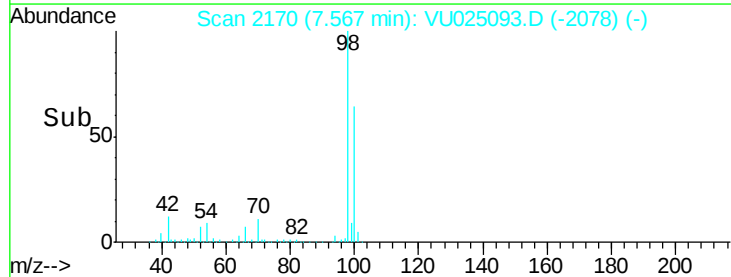
150000

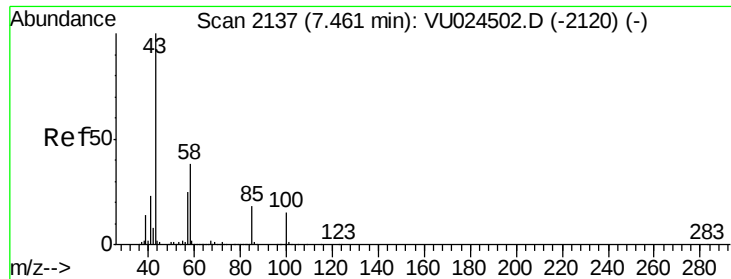
100000

50000

0

Time--> 7.55 7.60 7.70

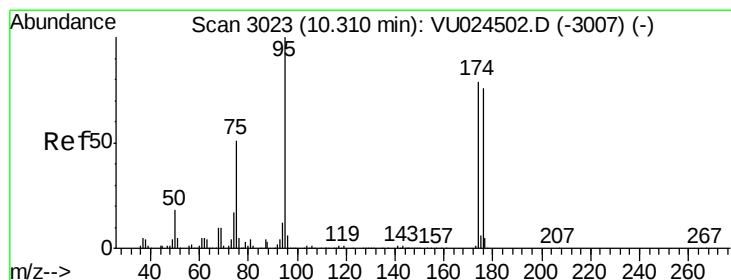
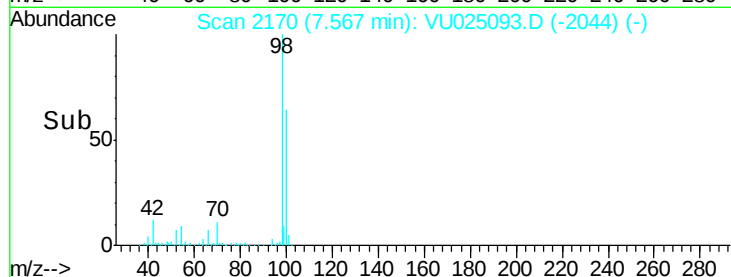
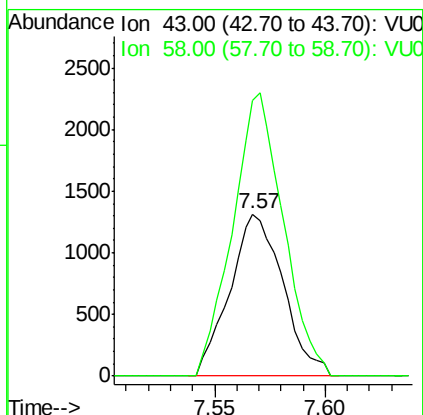
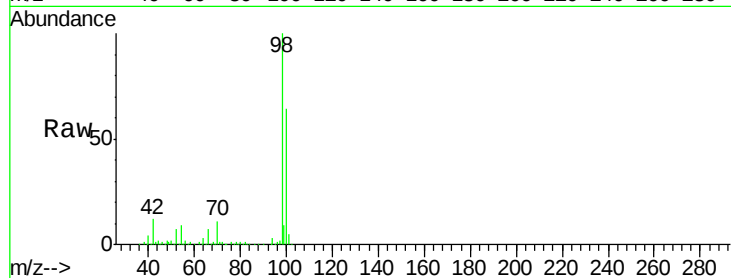




#51
 4-Methyl-2-Pentanone
 Concen: 0.507 ug/l
 RT: 7.57 min Scan# 2170
 Delta R.T. 0.11 min
 Lab File: VU025093.D
 Acq: 30 Jun 2018 17:11

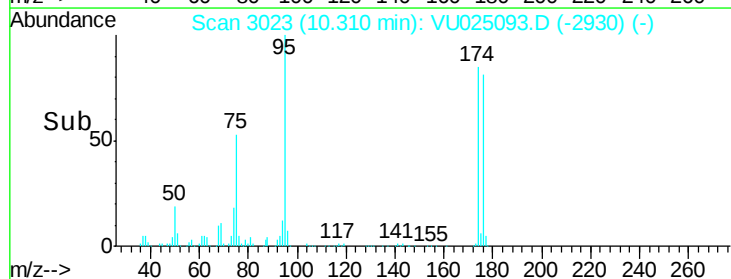
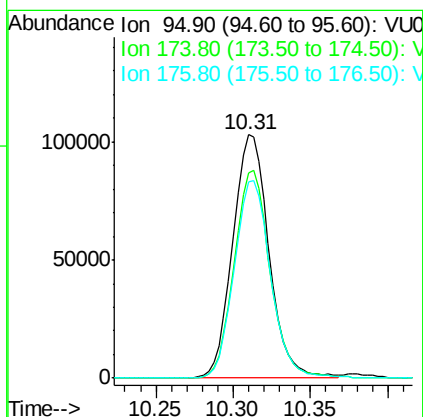
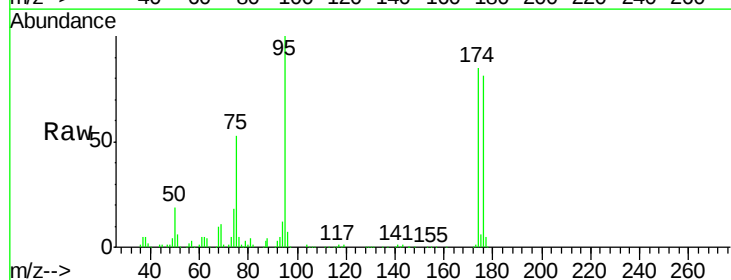
Instrument :
 MSVOA_U
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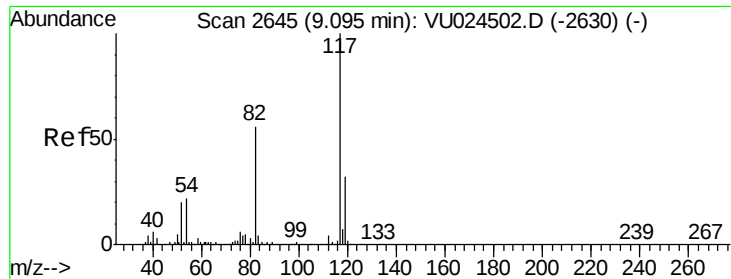
Tgt Ion: 43 Resp: 2199
 Ion Ratio Lower Upper
 43 100
 58 166.6 30.0 45.0#



#62
 4-Bromofluorobenzene
 Concen: 44.761 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.00 min
 Lab File: VU025093.D
 Acq: 30 Jun 2018 17:11

Tgt Ion: 95 Resp: 167751
 Ion Ratio Lower Upper
 95 100
 174 84.8 0.0 165.8
 176 81.8 0.0 159.4

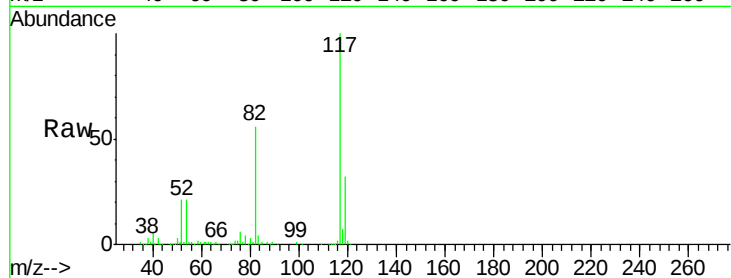




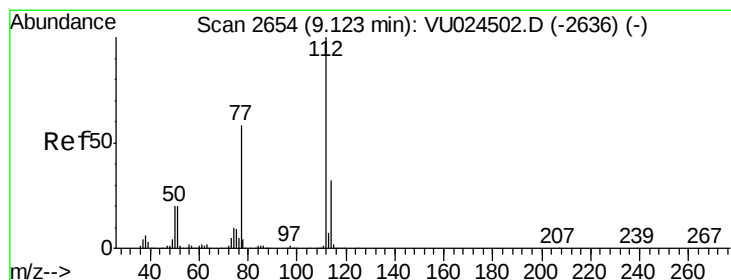
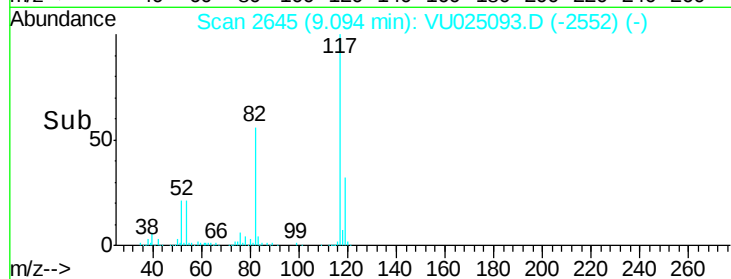
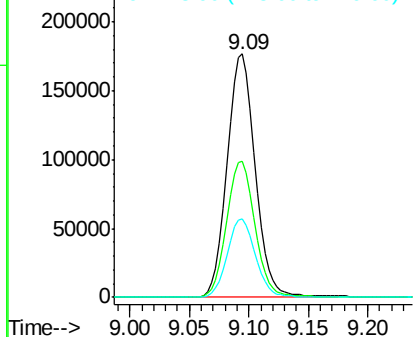
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VU025093.D
Acq: 30 Jun 2018 17:11

Instrument :
MSVOA_U
ClientSampleId :
WP021MW360-180625

Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.6	44.3	66.5
119	32.0	25.4	38.2

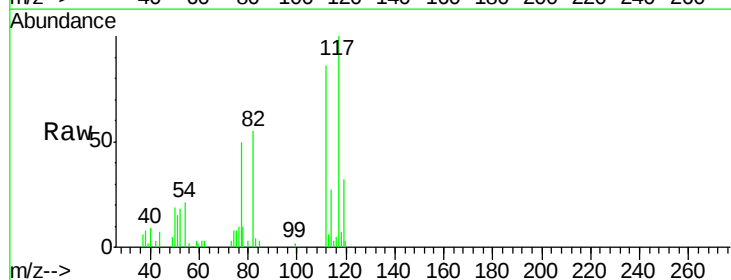


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

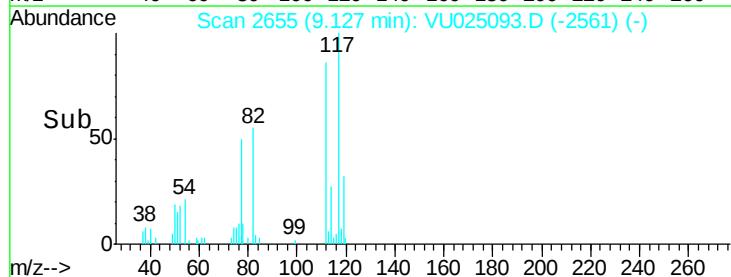
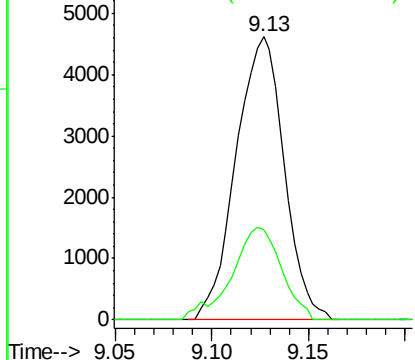


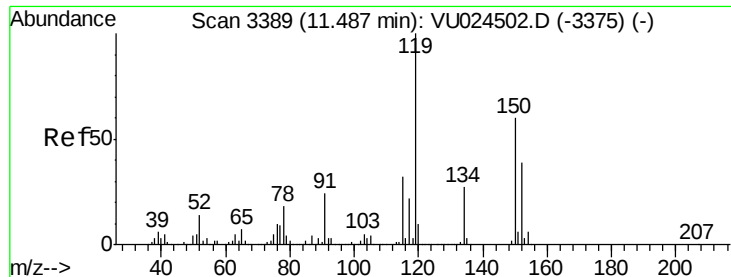
#65
Chlorobenzene
Concen: 1.076 ug/l
RT: 9.13 min Scan# 2655
Delta R.T. 0.00 min
Lab File: VU025093.D
Acq: 30 Jun 2018 17:11

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.6	38.4



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VU025093.D

Acq: 30 Jun 2018 17:11

Instrument :

MSVOA_U

ClientSampleId :

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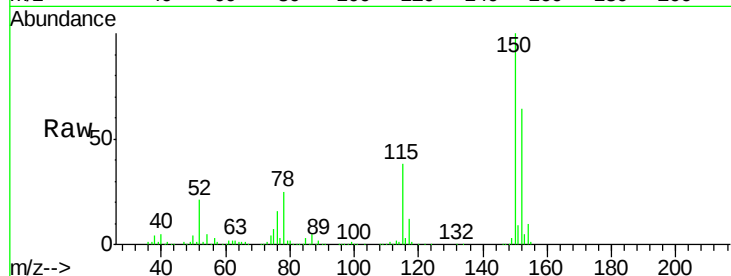
Tgt Ion:152 Resp: 152060

Ion Ratio Lower Upper

152 100

115 58.4 43.0 129.0

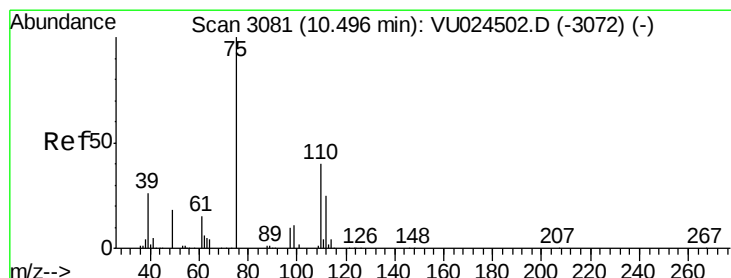
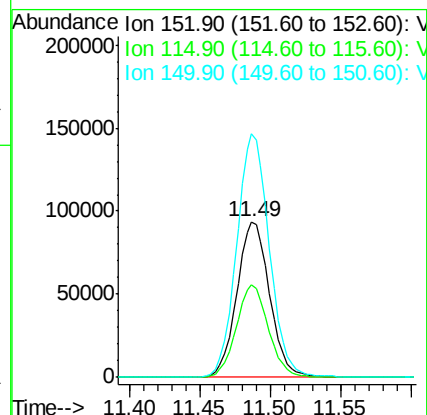
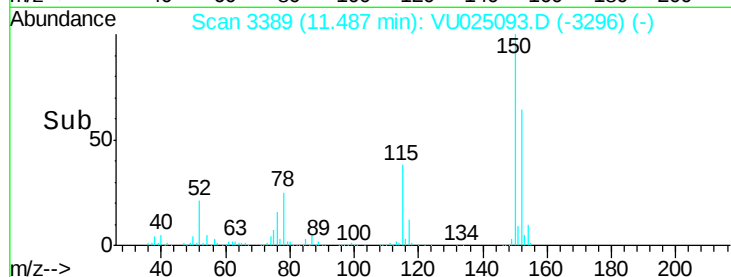
150 156.0 0.0 354.0



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: 26.414 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025093.D

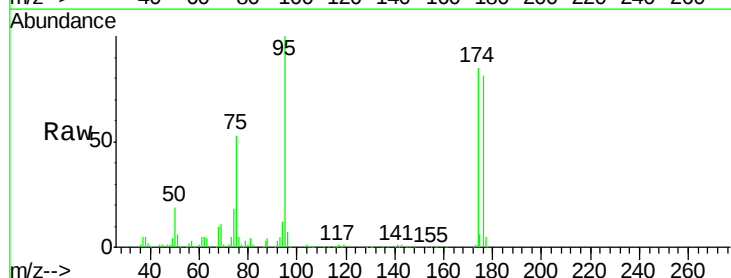
Acq: 30 Jun 2018 17:11

Tgt Ion: 75 Resp: 88430

Ion Ratio Lower Upper

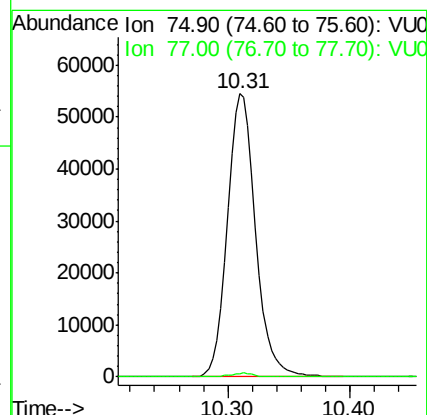
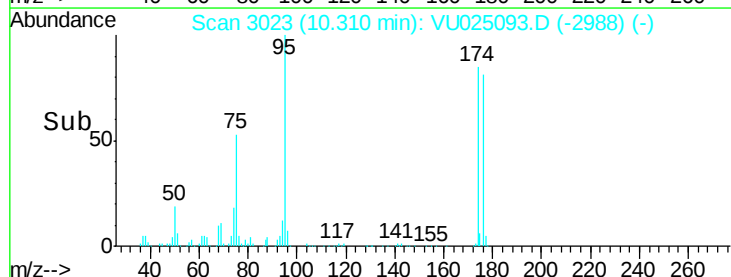
75 100

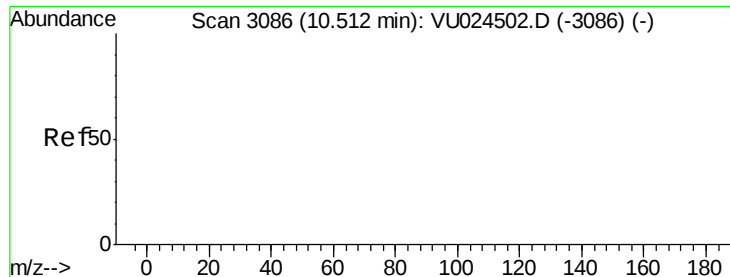
77 1.1 20.9 62.7#



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: 61.134 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025093.D

Acq: 30 Jun 2018 17:11

Instrument :

MSVOA_U

ClientSampleId :

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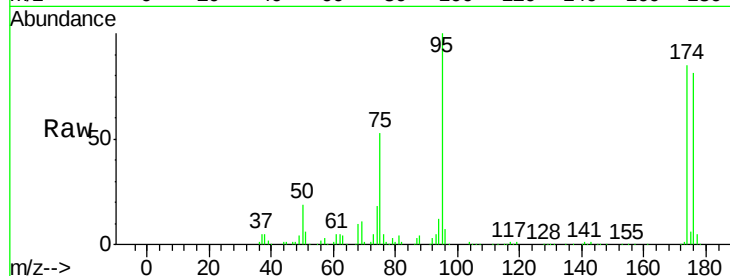
Tgt Ion: 75 Resp: 88430

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

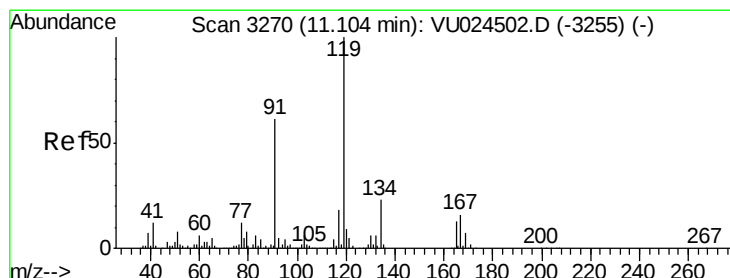
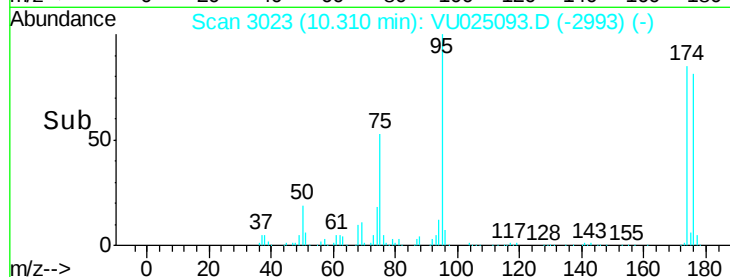
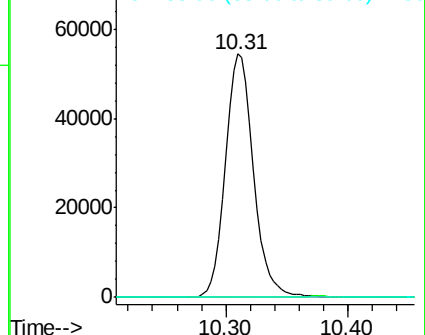
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU024502.D (-3086) (-)

Ion 53.00 (52.70 to 53.70): VU024502.D (-3086) (-)

Ion 88.90 (88.60 to 89.60): VU024502.D (-3086) (-)



#83

tert-Butylbenzene

Concen: 0.285 ug/l

RT: 11.10 min Scan# 3269

Delta R.T. -0.00 min

Lab File: VU025093.D

Acq: 30 Jun 2018 17:11

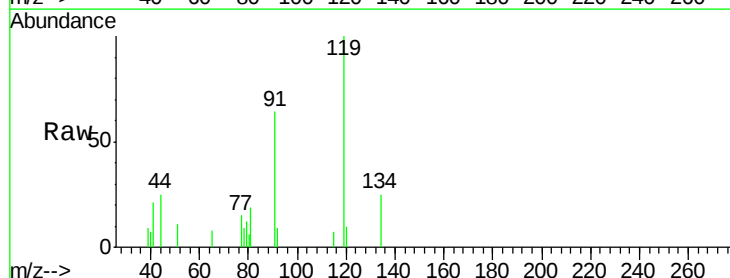
Tgt Ion: 119 Resp: 2774

Ion Ratio Lower Upper

119 100

91 66.0 29.7 89.1

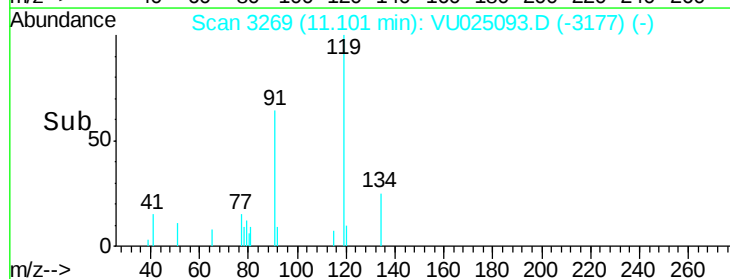
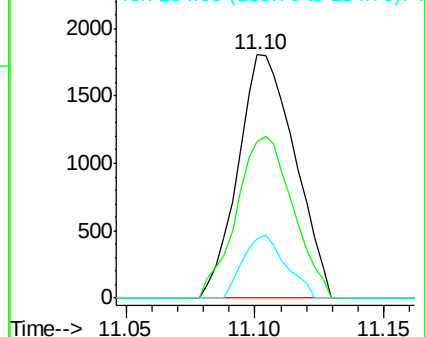
134 19.5 11.6 34.7

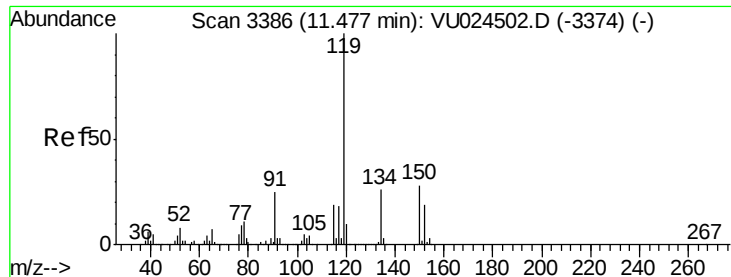


Abundance Ion 119.00 (118.70 to 119.70): VU024502.D (-3255) (-)

Ion 91.00 (90.70 to 91.70): VU024502.D (-3255) (-)

Ion 134.00 (133.70 to 134.70): VU024502.D (-3255) (-)

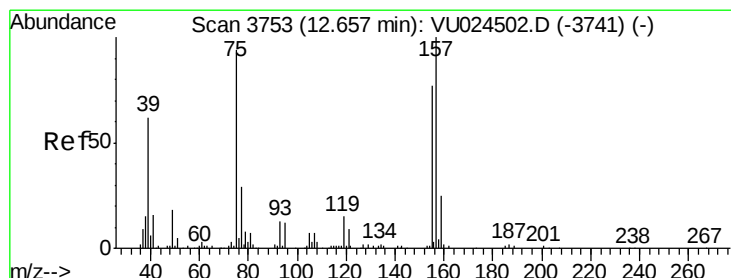
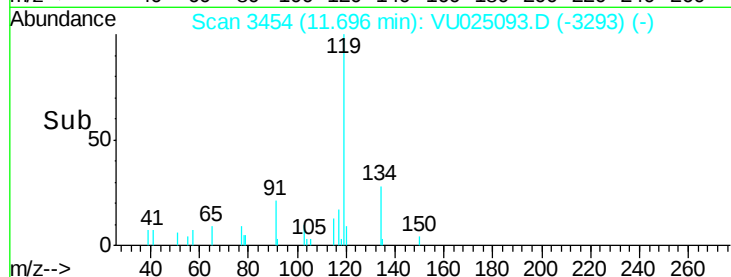
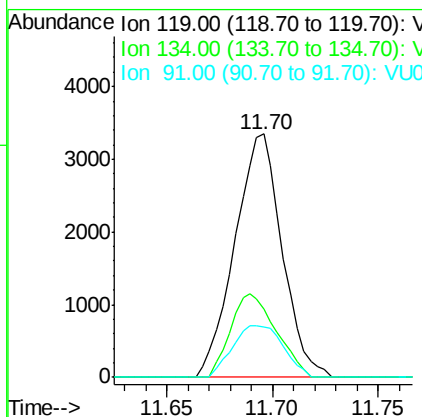
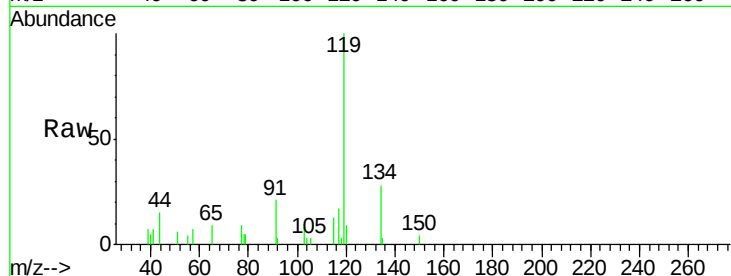




#86
p-Isopropyltoluene
Concen: 0.478 ug/l
RT: 11.70 min Scan# 3454
Delta R.T. 0.22 min
Lab File: VU025093.D
Acq: 30 Jun 2018 17:11

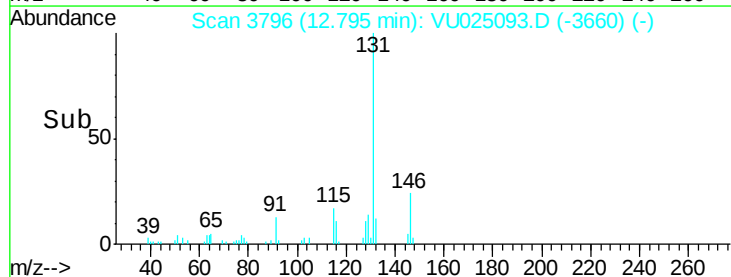
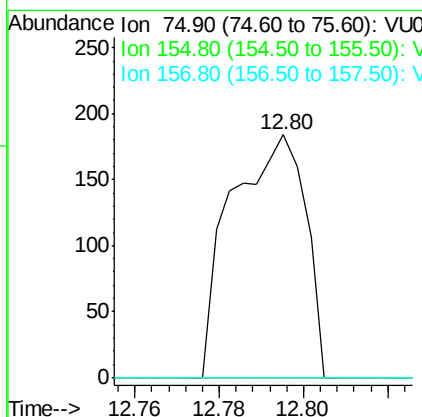
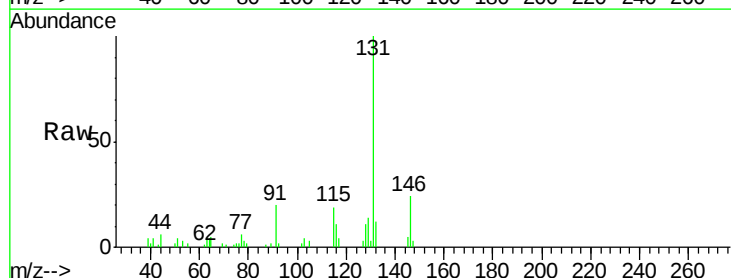
Instrument :
MSVOA_U
ClientSampleId :
WP021MW360-180625

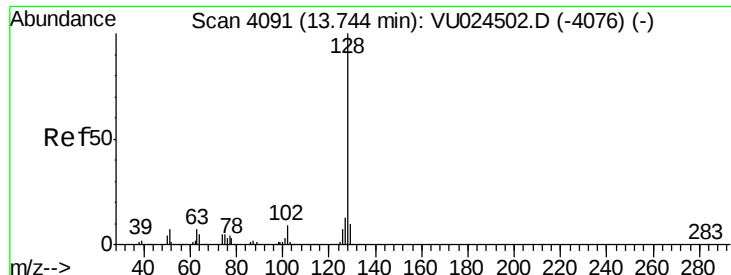
Tgt Ion: 119 Resp: 5211
Ion Ratio Lower Upper
119 100
134 33.0 12.9 38.6
91 22.9 12.0 36.1



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.208 ug/l
RT: 12.80 min Scan# 3796
Delta R.T. 0.14 min
Lab File: VU025093.D
Acq: 30 Jun 2018 17:11

Tgt Ion: 75 Resp: 225
Ion Ratio Lower Upper
75 100
155 0.0 40.4 121.2#
157 0.0 52.3 156.8#





#95
Naphthalene
Concen: 0.704 ug/l
RT: 13.75 min Scan# 4092
Delta R.T. 0.00 min
Lab File: VU025093.D
Acq: 30 Jun 2018 17:11

Instrument :
MSVOA_U
ClientSampleId :
WP021MW360-180625

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

