

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070318\
 Data File : VU025191.D
 Acq On : 03 Jul 2018 15:17
 Operator : MD/SY
 Sample : J3760-04
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 DUP-0450-180627

Quant Time: Jul 04 04:58:35 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	201316	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	302099	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	276106	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	137263	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	152727	46.47	ug/l	0.00
Spiked Amount			Recovery	=	92.94%	
35) Dibromofluoromethane	4.89	113	117871	47.01	ug/l	0.00
Spiked Amount			Recovery	=	94.02%	
50) Toluene-d8	7.57	98	429538	46.97	ug/l	0.00
Spiked Amount			Recovery	=	93.94%	
62) 4-Bromofluorobenzene	10.31	95	159120	43.82	ug/l	0.00
Spiked Amount			Recovery	=	87.64%	

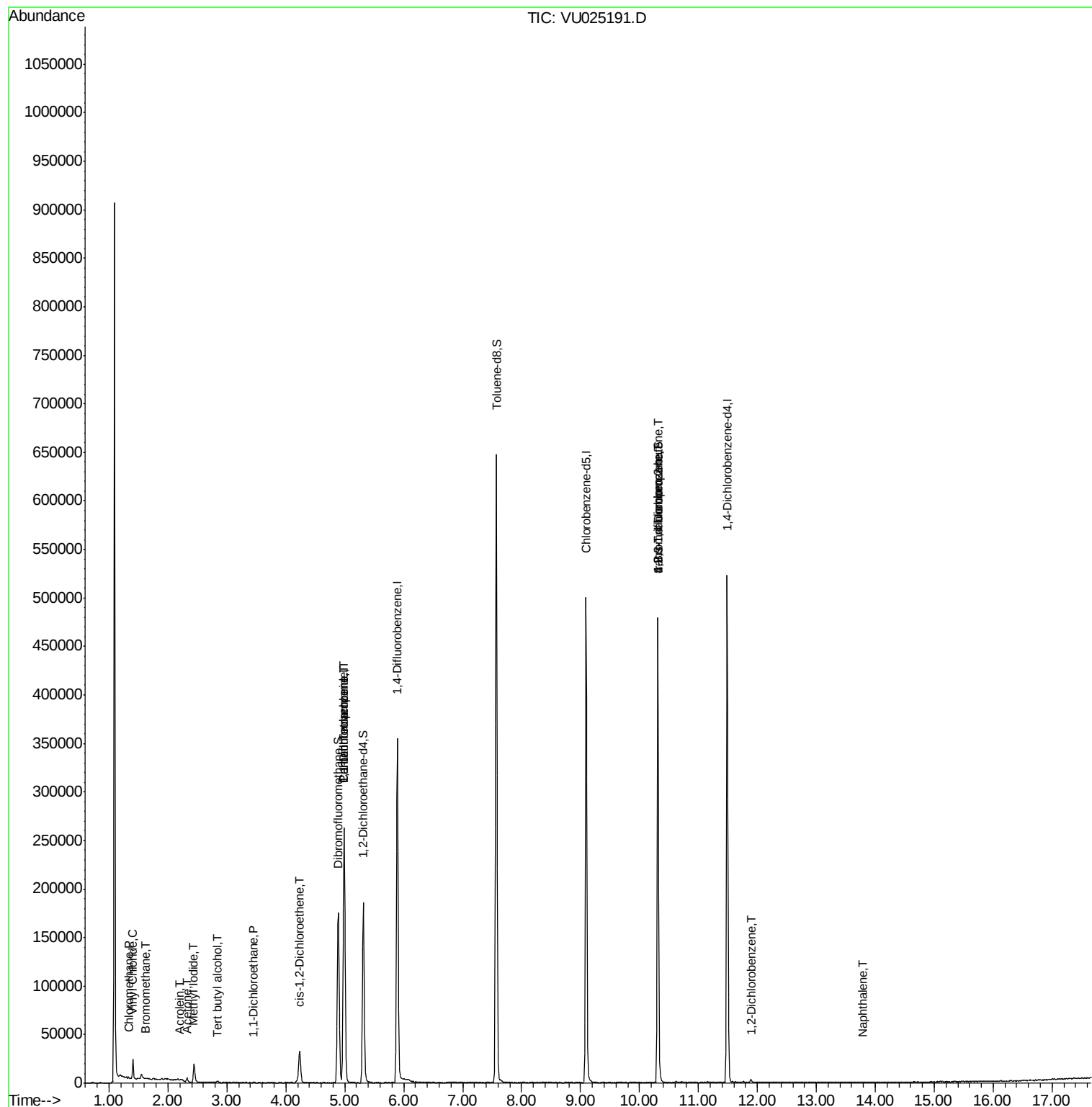
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1227	0.477	ug/l	99
4) Vinyl Chloride	1.40	62	11922	4.491	ug/l	100
5) Bromomethane	1.63	94	422	0.329	ug/l	84
6) Chloroethane	1.71	64	184	Below Cal	#	43
10) Methyl Iodide	2.42	142	194	5.370	ug/l #	40
11) Tert butyl alcohol	2.83	59	848	1.061	ug/l #	72
13) Acrolein	2.19	56	96	0.229	ug/l #	1
16) Acetone	2.32	43	4869	2.757	ug/l #	80
24) 1,1-Dichloroethane	3.45	63	1181	0.243	ug/l #	83
27) cis-1,2-Dichloroethene	4.23	96	18594	6.406	ug/l	87
31) Cyclohexane	4.99	56	3938	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	15145	4.266	ug/l #	51
38) Carbon Tetrachloride	4.99	117	18954	4.855	ug/l #	16
76) 1,2,3-Trichloropropane	10.31	75	80957	26.789	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	80957	62.001	ug/l #	100
91) 1,2-Dichlorobenzene	11.89	146	1826	0.370	ug/l	85
95) Naphthalene	13.79	128	76	0.687	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# 1368

Delta R.T. -0.00 min

Lab File: VU025191.D

Acq: 03 Jul 2018 15:17

Instrument :

MSVOA_U

ClientSampleId :

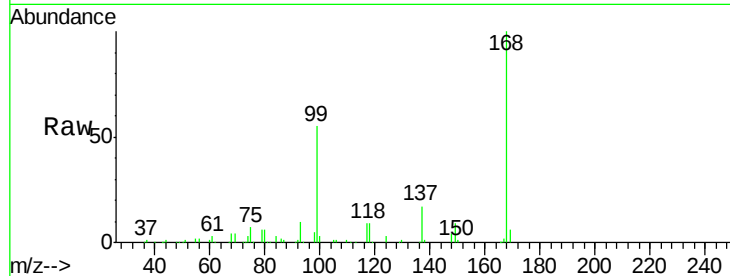
DUP-0450-180627

Tot Ion:168 Resp: 201316

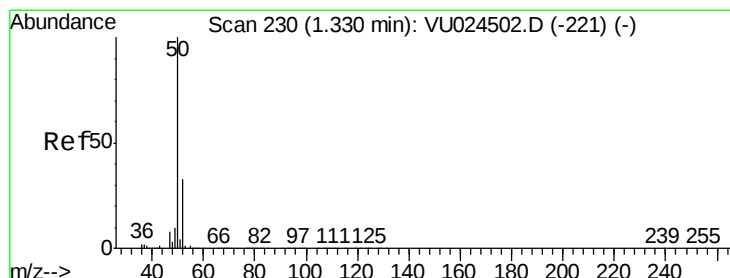
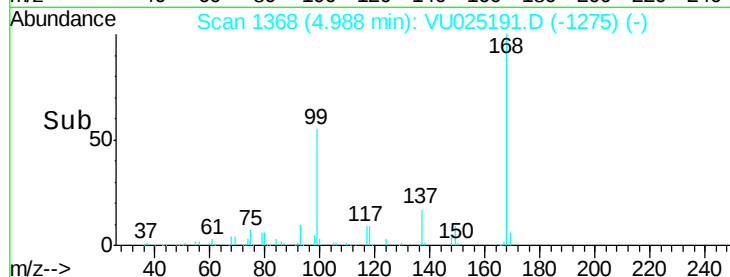
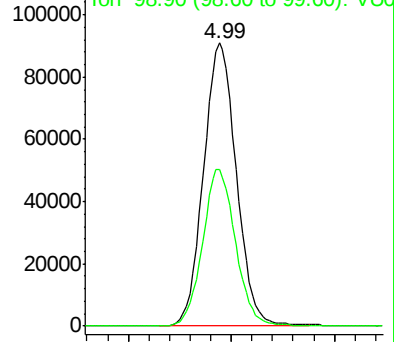
Ion Ratio Lower Upper

168 100

99 55.4 43.2 64.8



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



#3

Chloromethane

Concen: 0.477 ug/l

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU025191.D

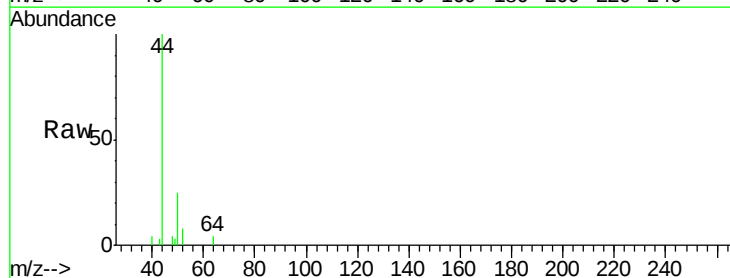
Acq: 03 Jul 2018 15:17

Tgt Ion: 50 Resp: 1227

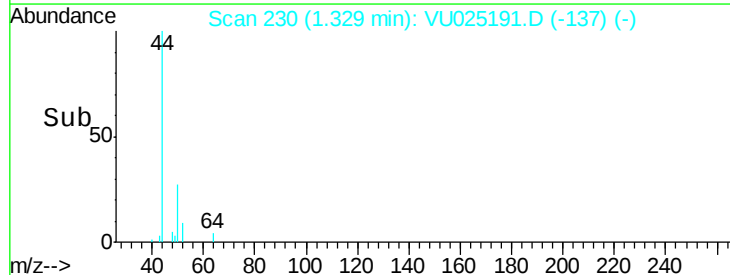
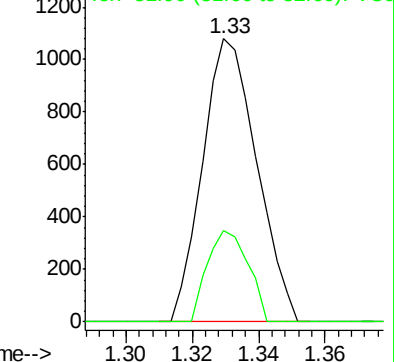
Ion Ratio Lower Upper

50 100

52 32.3 26.4 39.6



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





#4

Vinyl Chloride

Concen: 4.491 ug/l

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU025191.D

Acq: 03 Jul 2018 15:17

Instrument :

MSVOA_U

ClientSampleId :

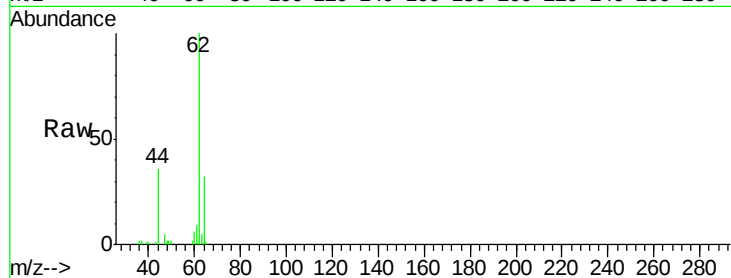
DUP-0450-180627

Tot Ion: 62 Resp: 11922

Ion Ratio Lower Upper

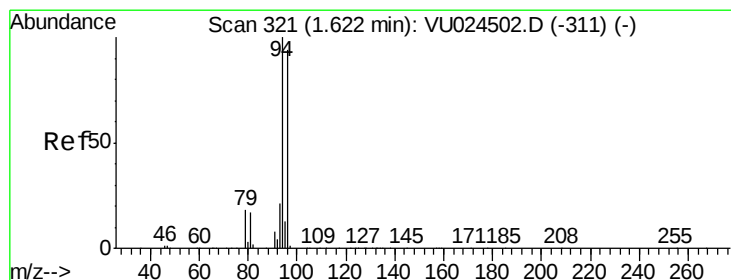
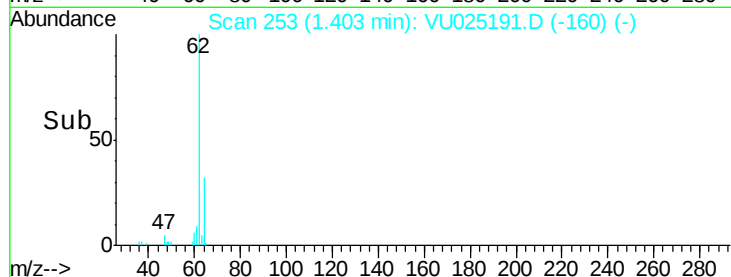
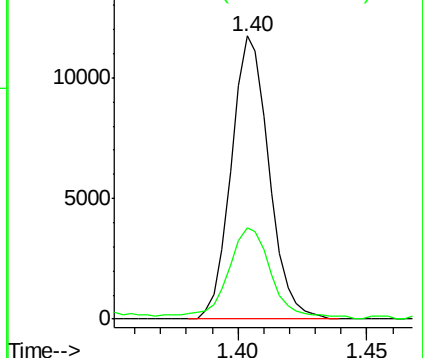
62 100

64 31.3 24.8 37.2



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0



#5

Bromomethane

Concen: 0.329 ug/l

RT: 1.63 min Scan# 325

Delta R.T. 0.01 min

Lab File: VU025191.D

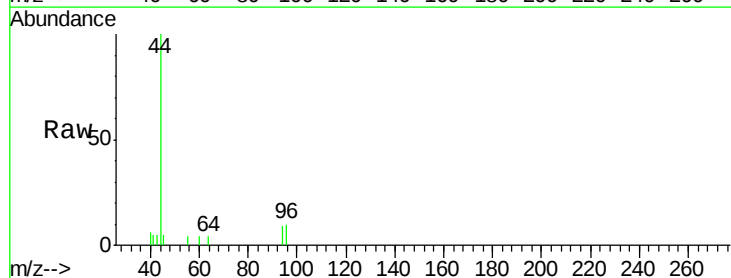
Acq: 03 Jul 2018 15:17

Tgt Ion: 94 Resp: 422

Ion Ratio Lower Upper

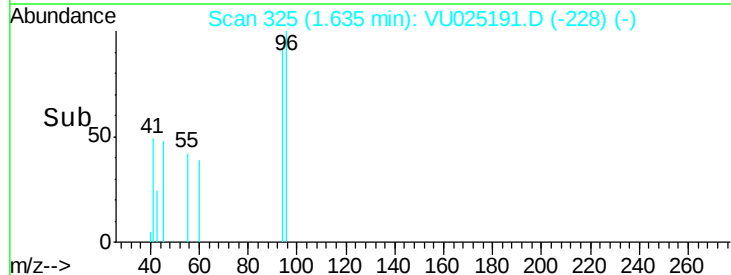
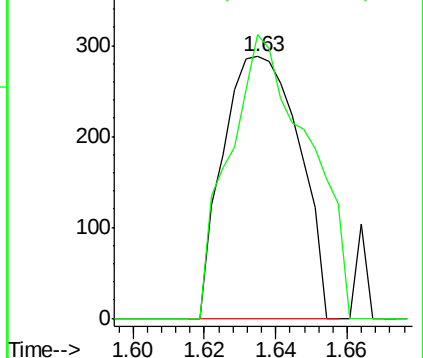
94 100

96 108.3 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: 1.71 min Scan# 348

Delta R.T. 0.01 min

Lab File: VU025191.D

Acq: 03 Jul 2018 15:17

Instrument :

MSVOA_U

ClientSampleId :

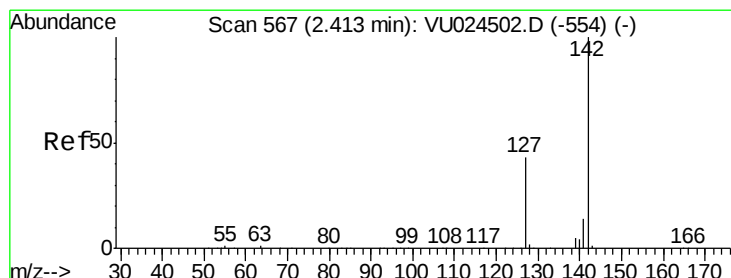
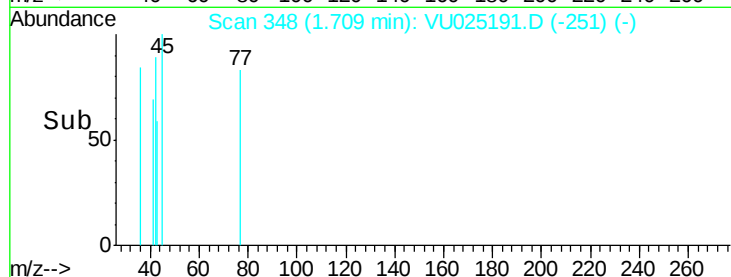
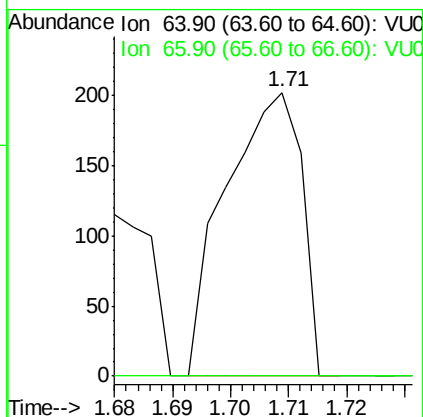
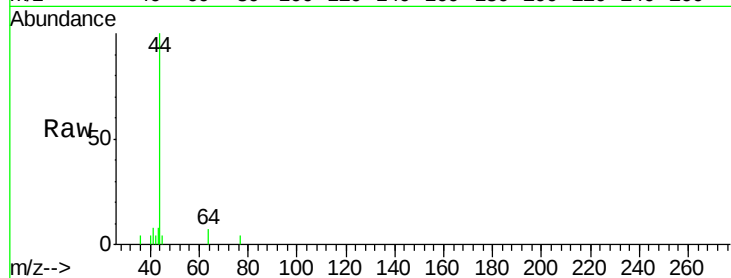
DUP-0450-180627

Tot Ion: 64 Resp: 184

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#



#10

Methyl Iodide

Concen: 5.370 ug/l

RT: 2.42 min Scan# 570

Delta R.T. 0.01 min

Lab File: VU025191.D

Acq: 03 Jul 2018 15:17

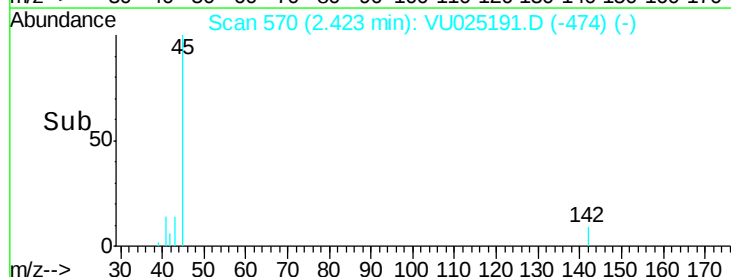
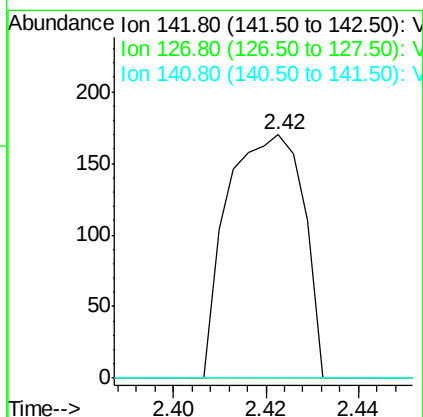
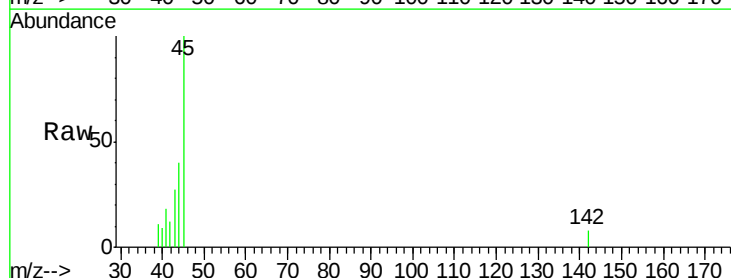
Tgt Ion: 142 Resp: 194

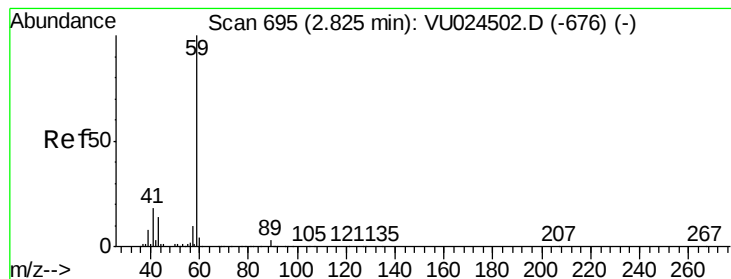
Ion Ratio Lower Upper

142 100

127 0.0 35.6 53.4#

141 0.0 11.7 17.5#



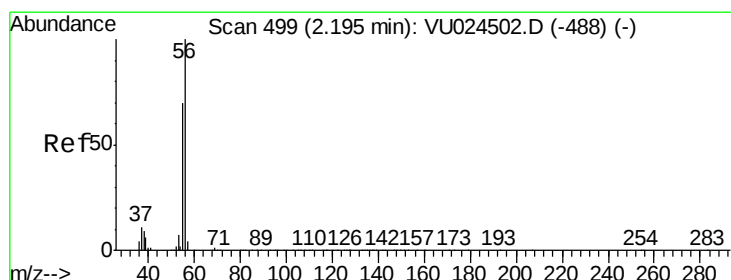
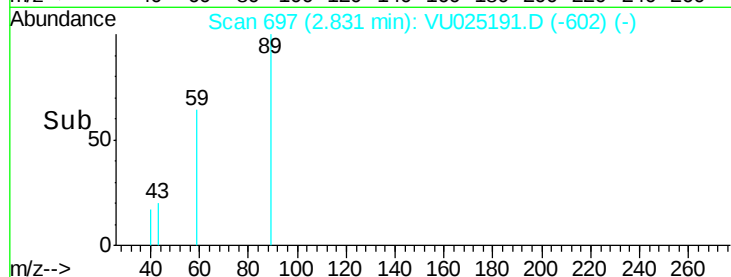
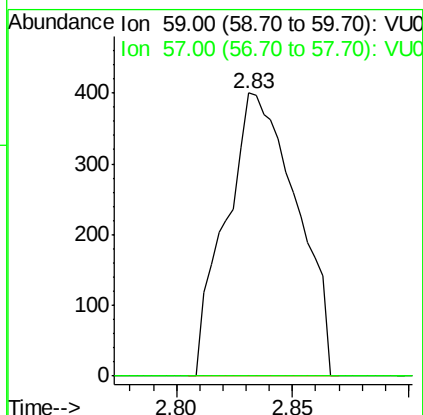
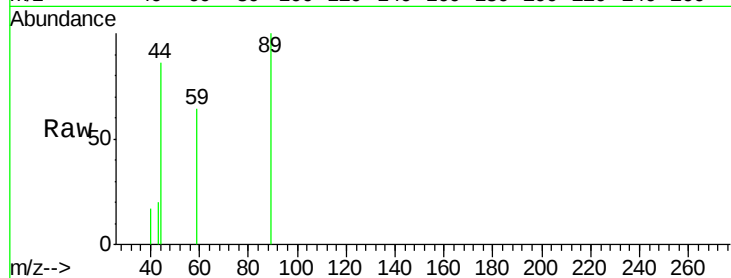


#11

Tert butyl alcohol
 Concen: 1.061 ug/l
 RT: 2.83 min Scan# 697
 Delta R.T. 0.01 min
 Lab File: VU025191.D
 Acq: 03 Jul 2018 15:17

Instrument :
 MSVOA_U
 ClientSampleId :
 DUP-0450-180627

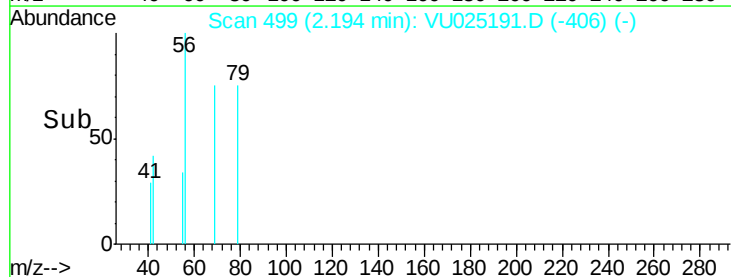
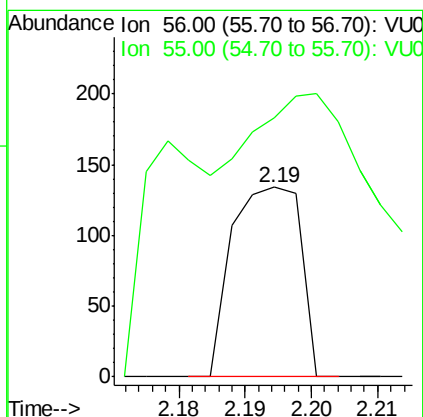
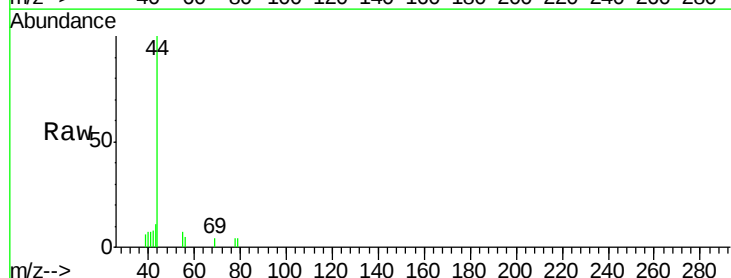
Tot Ion: 59 Resp: 848
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

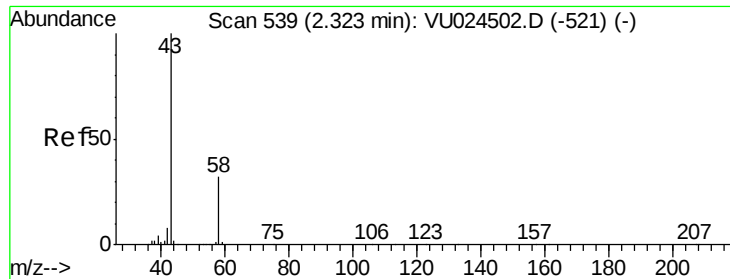


#13

Acrolein
 Concen: 0.229 ug/l
 RT: 2.19 min Scan# 499
 Delta R.T. -0.00 min
 Lab File: VU025191.D
 Acq: 03 Jul 2018 15:17

Tgt Ion: 56 Resp: 96
 Ion Ratio Lower Upper
 56 100
 55 328.1 58.4 87.6#





#16

Acetone

Concen: 2.757 ug/l

RT: 2.32 min Scan# 539

Delta R.T. -0.00 min

Lab File: VU025191.D

Acq: 03 Jul 2018 15:17

Instrument :

MSVOA_U

ClientSampleId :

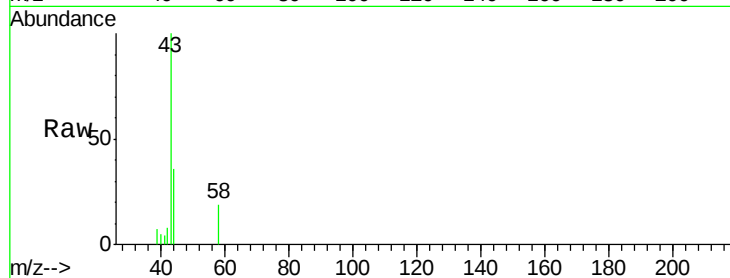
DUP-0450-180627

Tot Ion: 43 Resp: 4869

Ion Ratio Lower Upper

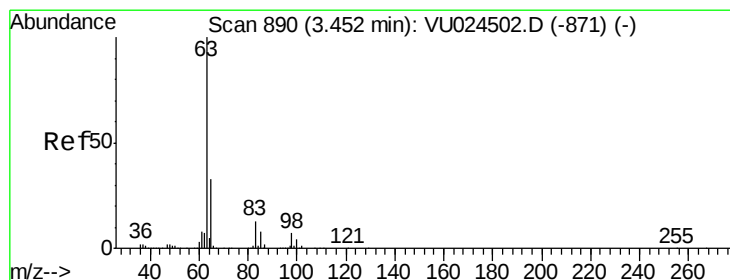
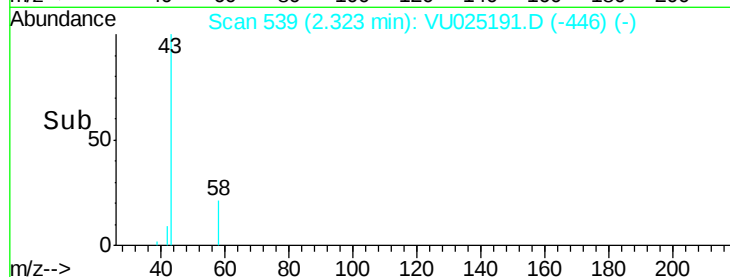
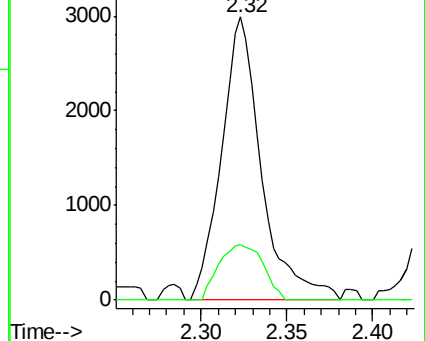
43 100

58 19.5 24.4 36.6#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#24

1,1-Dichloroethane

Concen: 0.243 ug/l

RT: 3.45 min Scan# 890

Delta R.T. -0.00 min

Lab File: VU025191.D

Acq: 03 Jul 2018 15:17

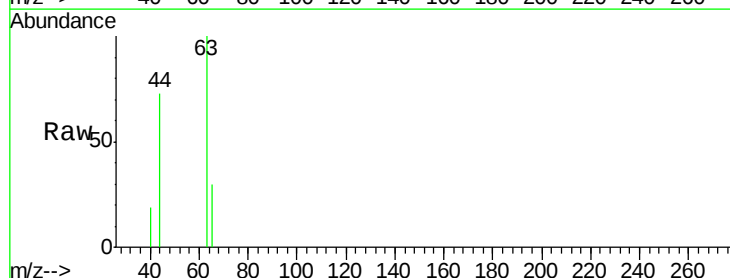
Tgt Ion: 63 Resp: 1181

Ion Ratio Lower Upper

63 100

98 0.0 3.5 10.4#

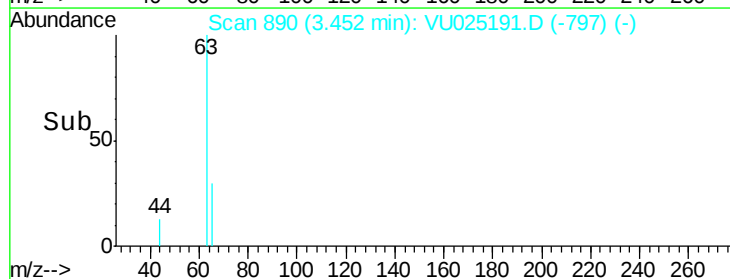
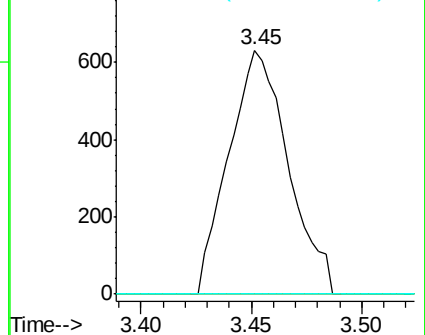
100 0.0 1.8 5.5#

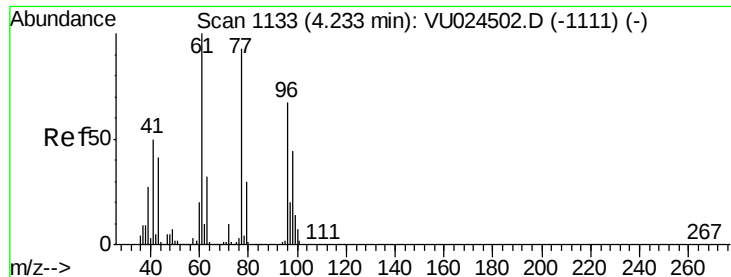


Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

Ion 99.90 (99.60 to 100.60): VU0





#27

cis-1,2-Dichloroethene

Concen: 6.406 ug/l

RT: 4.23 min Scan# 1133

Delta R.T. -0.00 min

Lab File: VU025191.D

Acq: 03 Jul 2018 15:17

Instrument :

MSVOA_U

ClientSampleId :

DUP-0450-180627

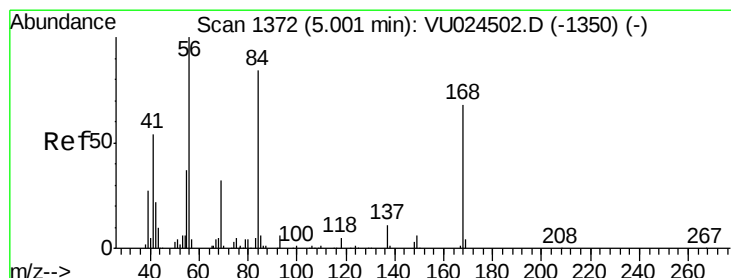
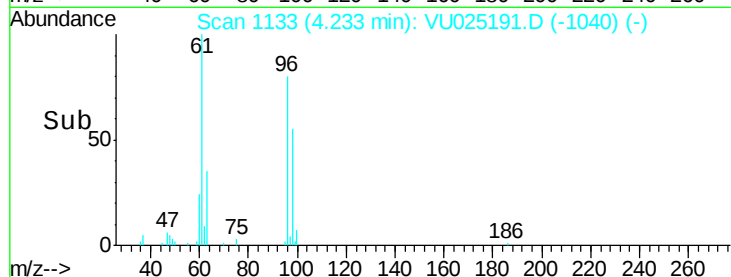
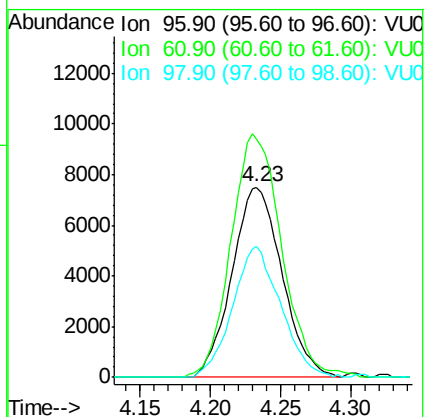
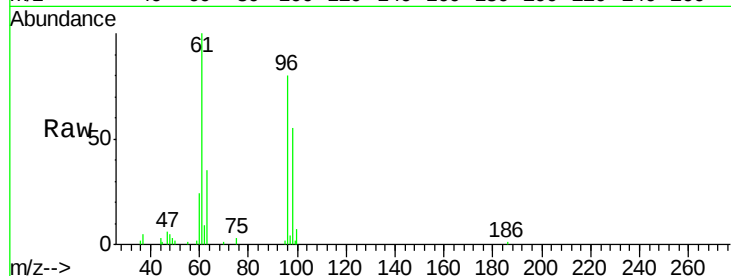
Tot Ion: 96 Resp: 18594

Ion Ratio Lower Upper

96 100

61 129.9 0.0 306.6

98 66.2 0.0 128.8



#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VU025191.D

Acq: 03 Jul 2018 15:17

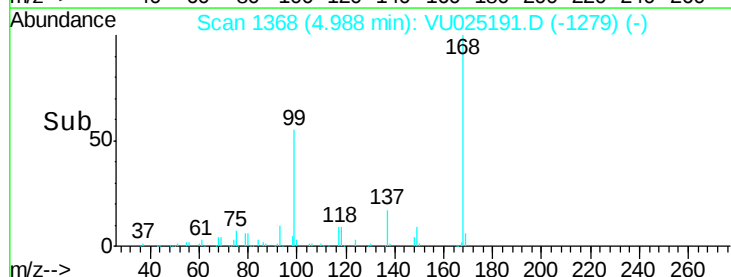
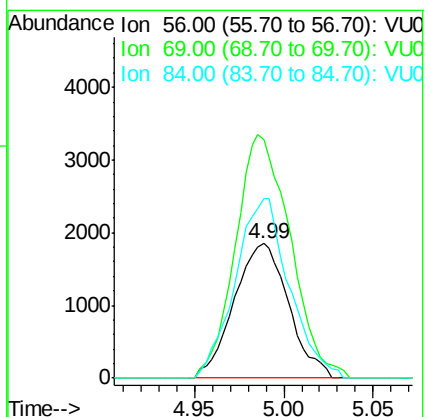
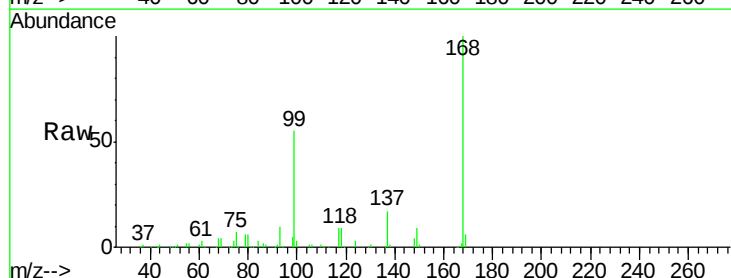
Tgt Ion: 56 Resp: 3938

Ion Ratio Lower Upper

56 100

69 176.7 24.8 37.2#

84 133.7 65.2 97.8#

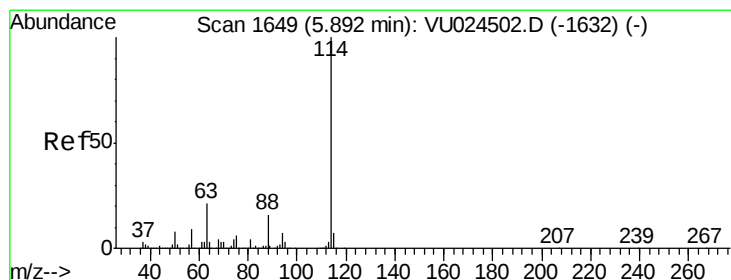
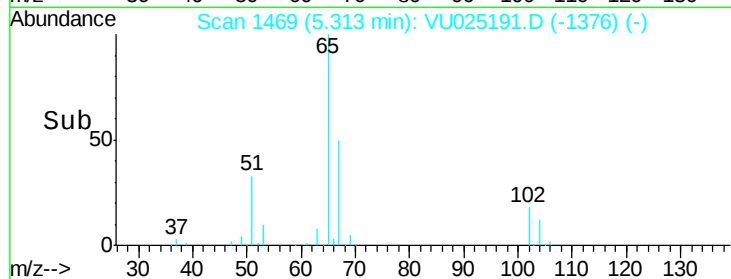
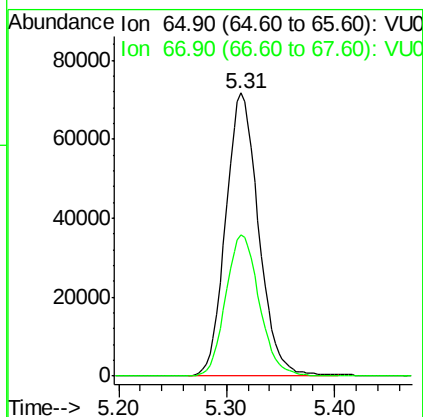
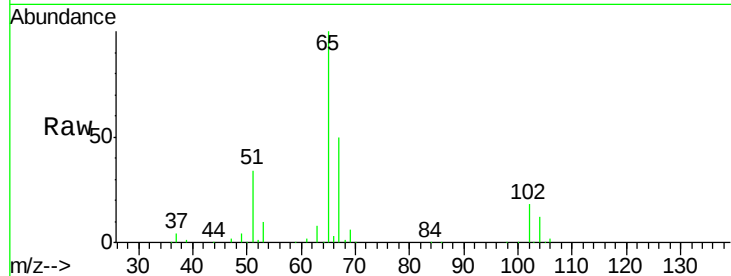




#33
 1,2-Dichloroethane-d4
 Concen: 46.471 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. -0.00 min
 Lab File: VU025191.D
 Acq: 03 Jul 2018 15:17

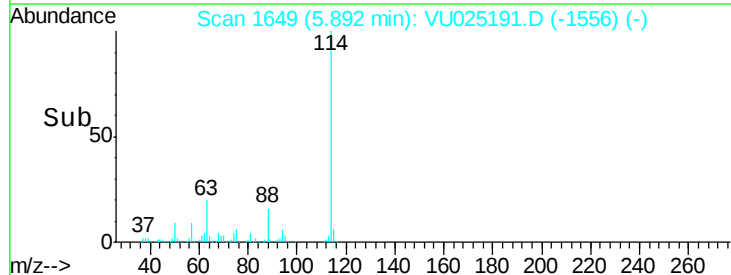
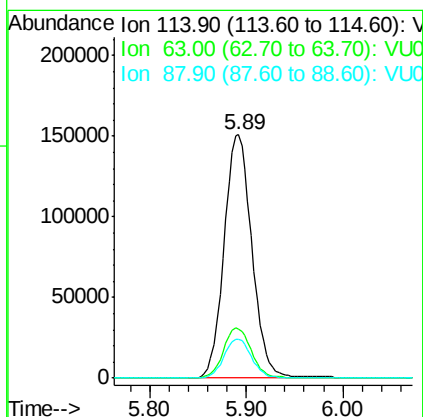
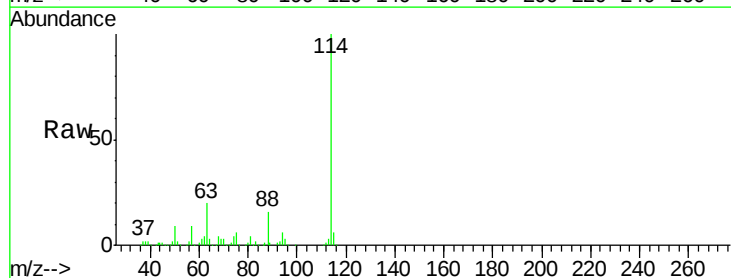
Instrument :
 MSVOA_U
 ClientSampleId :
 DUP-0450-180627

Tot Ion: 65 Resp: 152727
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. -0.00 min
 Lab File: VU025191.D
 Acq: 03 Jul 2018 15:17

Tgt Ion: 114 Resp: 302099
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 45.4
 88 16.1 0.0 31.0

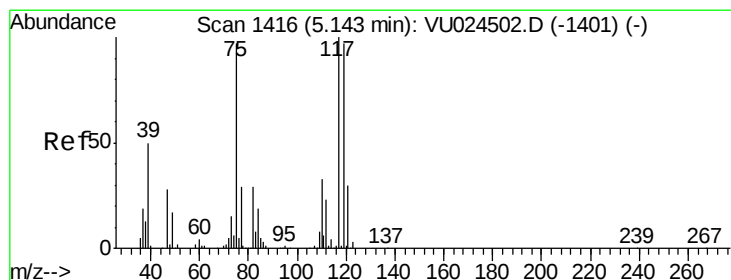
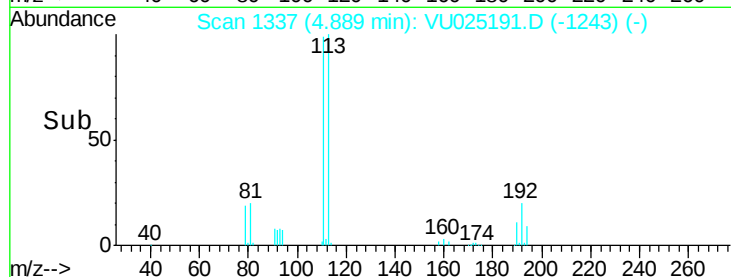
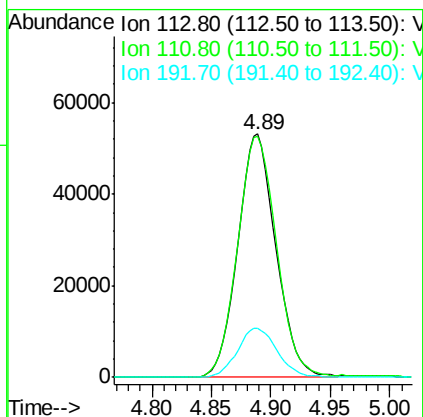
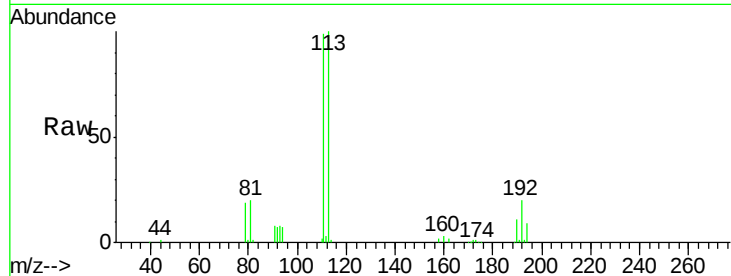




#35
 Dibromofluoromethane
 Concen: 47.013 ug/l
 RT: 4.89 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VU025191.D
 Acq: 03 Jul 2018 15:17

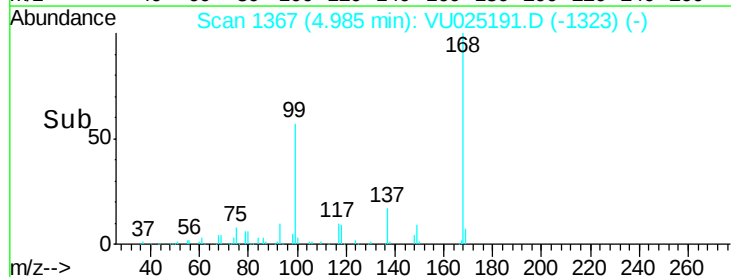
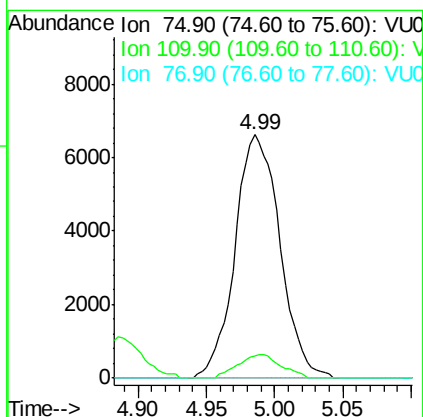
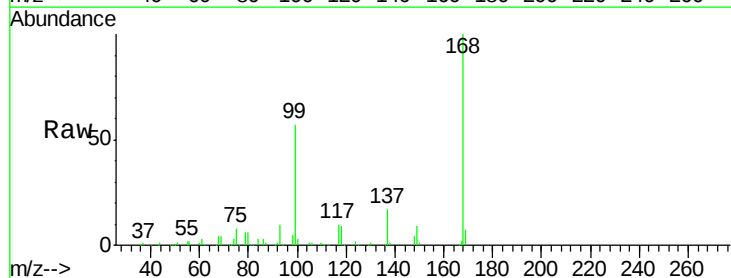
Instrument :
 MSVOA_U
 ClientSampleId :
 DUP-0450-180627

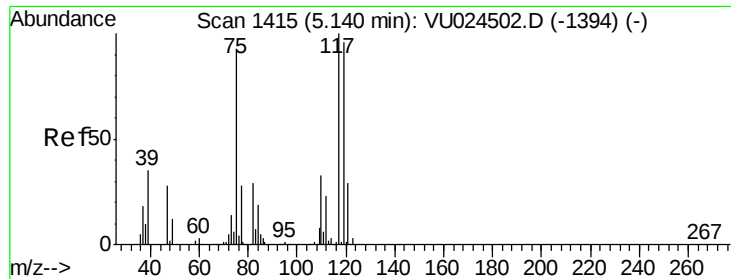
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.3	82.2	123.4
192	21.1	16.2	24.4



#36
 1,1-Dichloropropene
 Concen: 4.266 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.16 min
 Lab File: VU025191.D
 Acq: 03 Jul 2018 15:17

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.3	17.0	50.9#
77	0.0	24.2	36.4#





#38

Carbon Tetrachloride

Concen: 4.855 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025191.D

Acq: 03 Jul 2018 15:17

Instrument :

MSVOA_U

ClientSampleId :

DUP-0450-180627

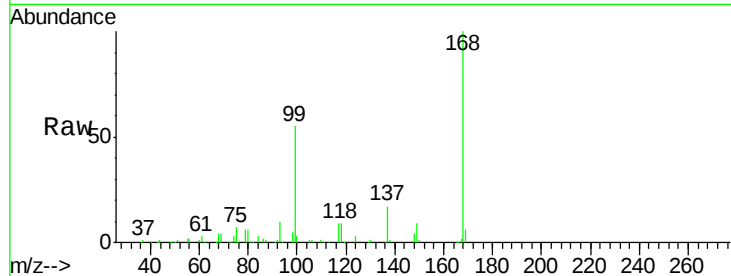
Tot Ion:117 Resp: 18954

Ion Ratio Lower Upper

117 100

119 4.1 76.1 114.1#

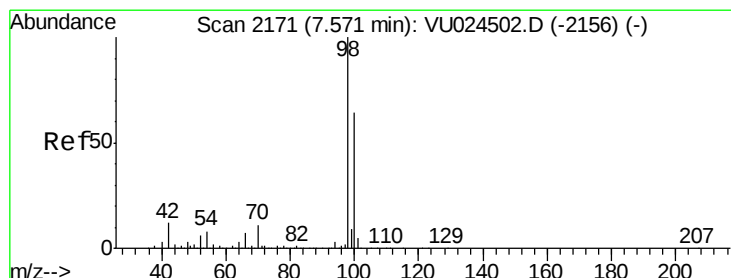
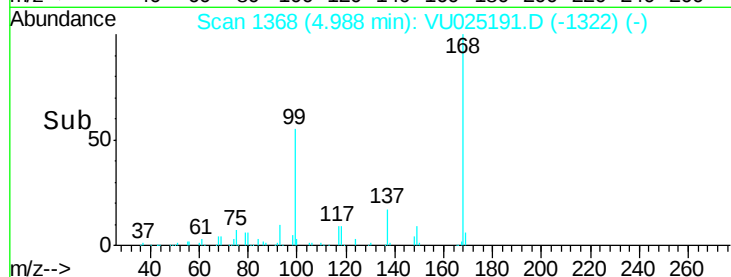
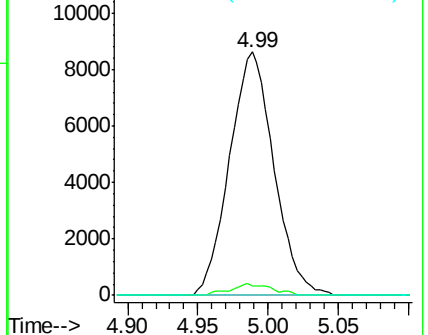
121 0.0 23.7 35.5#



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



#50

Toluene-d8

Concen: 46.969 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. -0.00 min

Lab File: VU025191.D

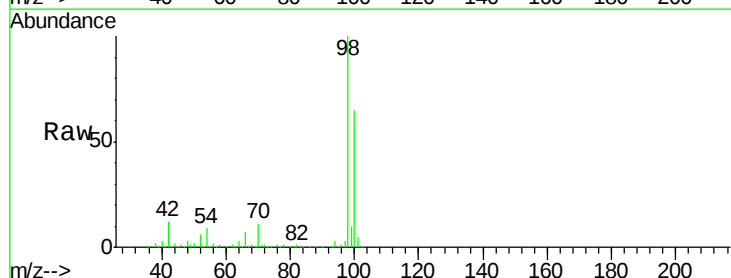
Acq: 03 Jul 2018 15:17

Tgt Ion: 98 Resp: 429538

Ion Ratio Lower Upper

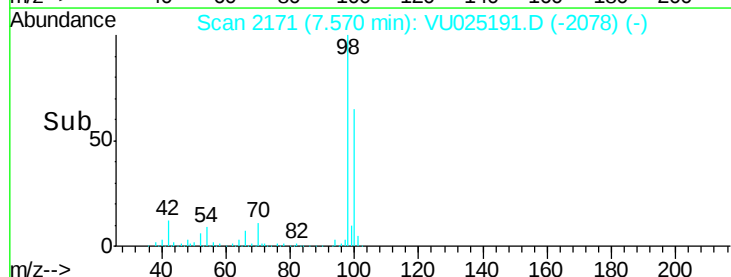
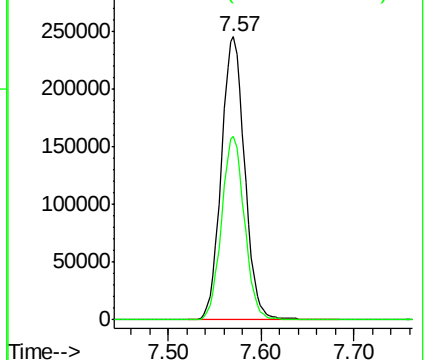
98 100

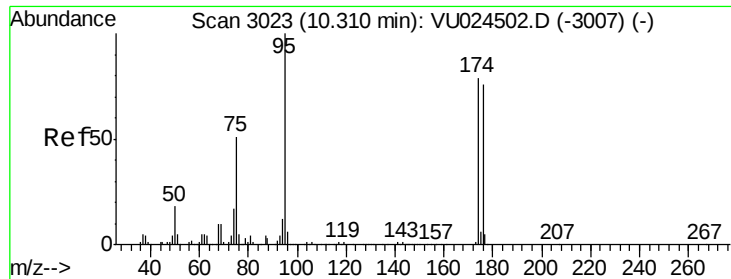
100 63.4 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU





#62

4-Bromofluorobenzene

Concen: 43.822 ug/l

RT: 10.31 min Scan# 3024

Delta R.T. 0.00 min

Lab File: VU025191.D

Acq: 03 Jul 2018 15:17

Instrument :

MSVOA_U

ClientSampleId :

DUP-0450-180627

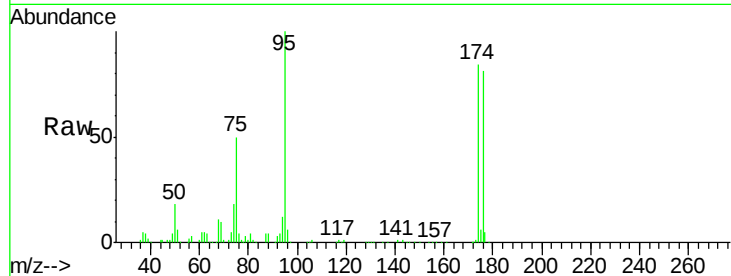
Tot Ion: 95 Resp: 159120

Ion Ratio Lower Upper

95 100

174 83.8 0.0 165.8

176 80.9 0.0 159.4



Abundance Ion 94.90 (94.60 to 95.60): VU024502.D (-3007) (-)

Ion 173.80 (173.50 to 174.50): VU024502.D (-3007) (-)

Ion 175.80 (175.50 to 176.50): VU024502.D (-3007) (-)

120000

100000

80000

60000

40000

20000

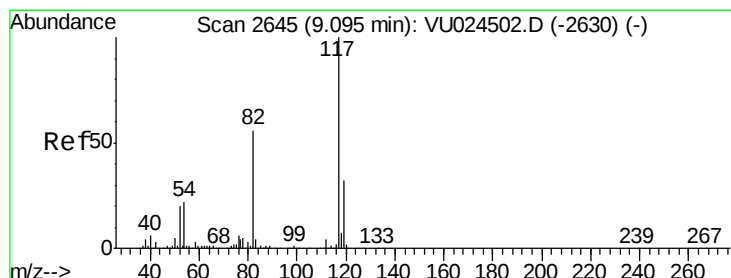
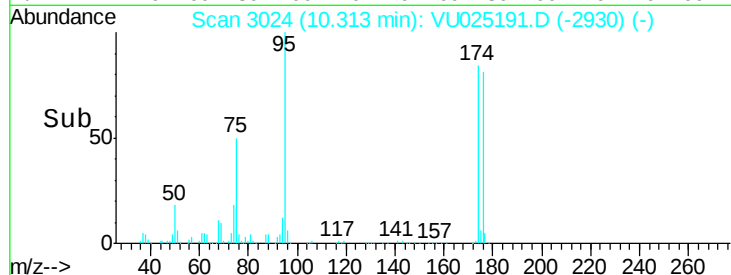
0

10.31

10.30

10.40

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2645

Delta R.T. -0.00 min

Lab File: VU025191.D

Acq: 03 Jul 2018 15:17

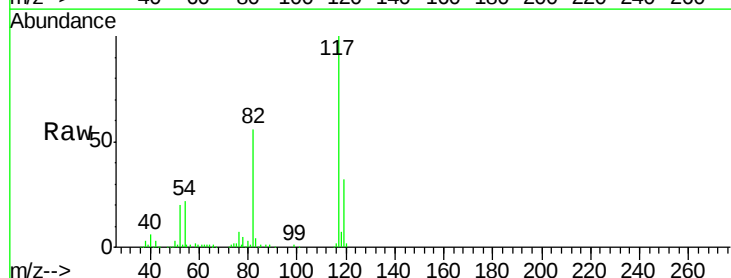
Tgt Ion: 117 Resp: 276106

Ion Ratio Lower Upper

117 100

82 56.0 44.3 66.5

119 31.5 25.4 38.2



Abundance Ion 116.90 (116.60 to 117.60): VU024502.D (-2630) (-)

Ion 82.00 (81.70 to 82.70): VU024502.D (-2630) (-)

Ion 118.90 (118.60 to 119.60): VU024502.D (-2630) (-)

200000

150000

100000

50000

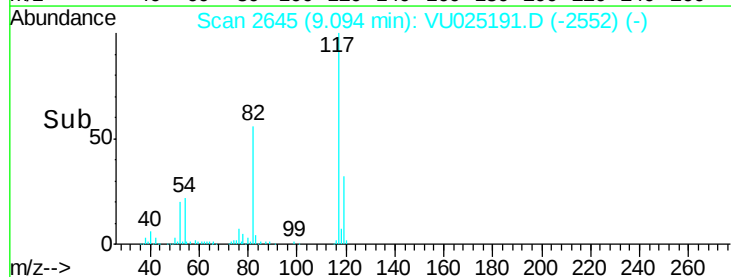
0

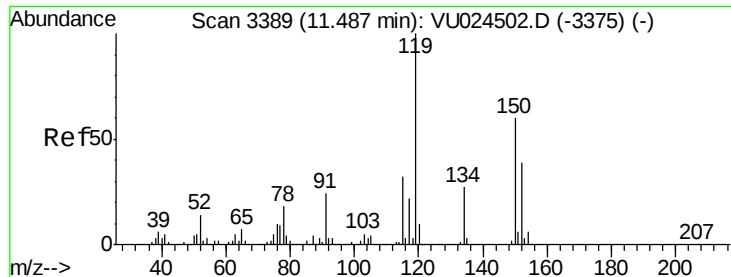
9.09

9.10

9.20

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VU025191.D

Acq: 03 Jul 2018 15:17

Instrument :

MSVOA_U

ClientSampleId :

DUP-0450-180627

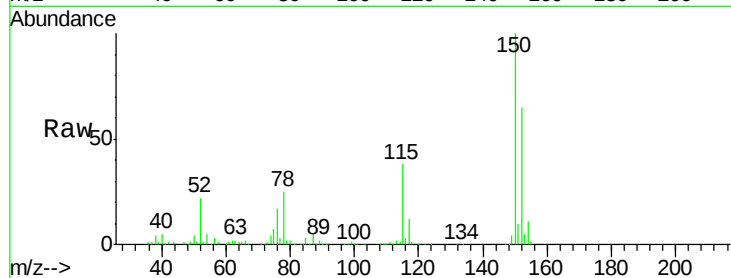
Tot Ion:152 Resp: 137263

Ion Ratio Lower Upper

152 100

115 59.8 43.0 129.0

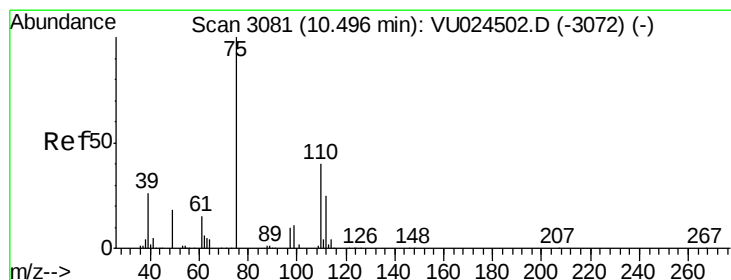
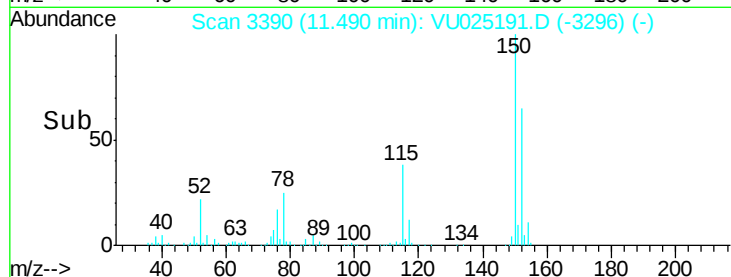
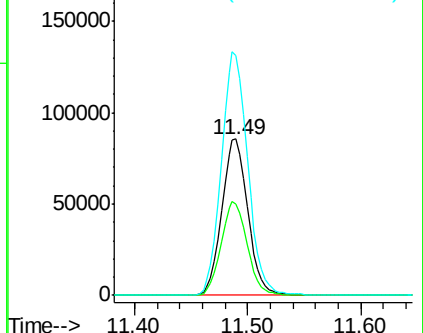
150 157.6 0.0 354.0



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: 26.789 ug/l

RT: 10.31 min Scan# 3024

Delta R.T. -0.18 min

Lab File: VU025191.D

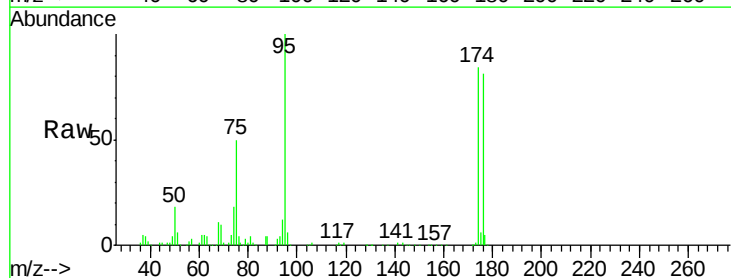
Acq: 03 Jul 2018 15:17

Tgt Ion: 75 Resp: 80957

Ion Ratio Lower Upper

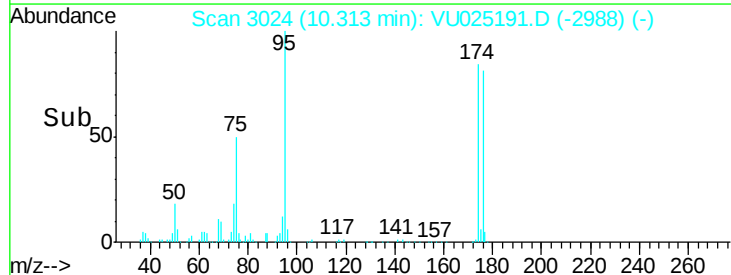
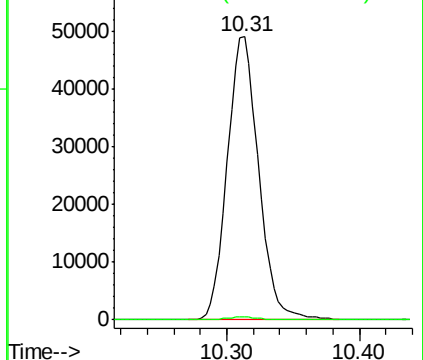
75 100

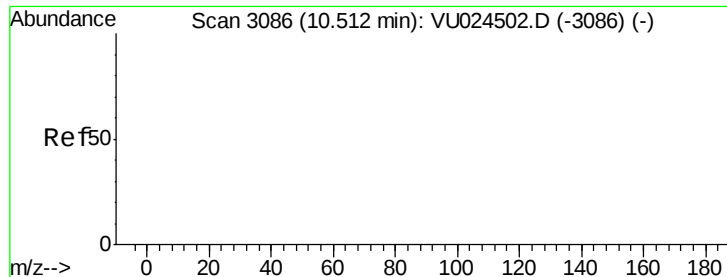
77 1.1 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

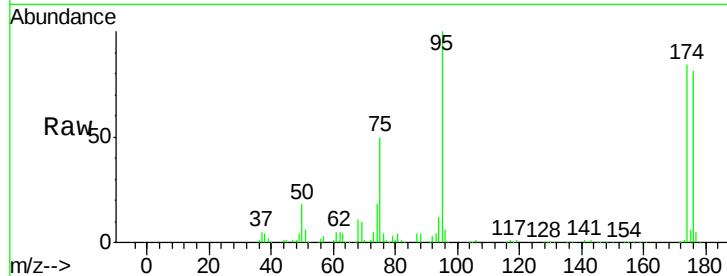




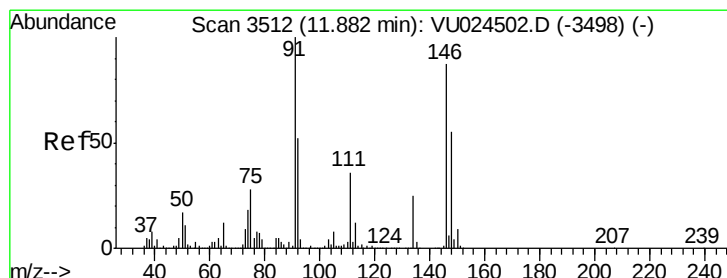
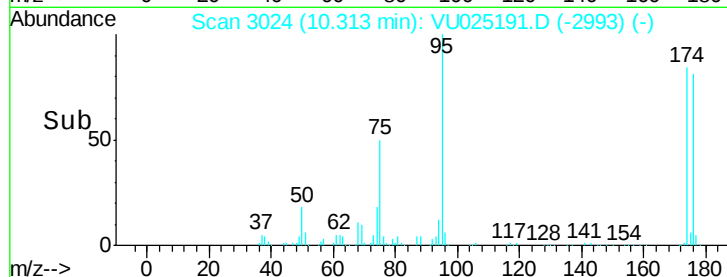
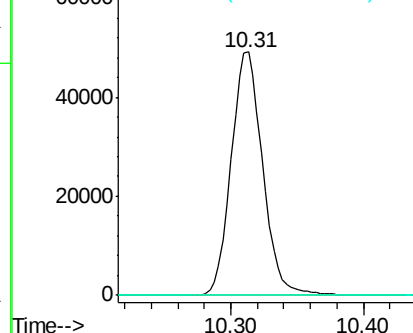
#81
trans-1,4-Dichloro-2-butene
Concen: 62.001 ug/l
RT: 10.31 min Scan# 3024
Delta R.T. -0.20 min
Lab File: VU025191.D
Acq: 03 Jul 2018 15:17

Instrument :
MSVOA_U
ClientSampleId :
DUP-0450-180627

Tot Ion: 75 Resp: 80957
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0

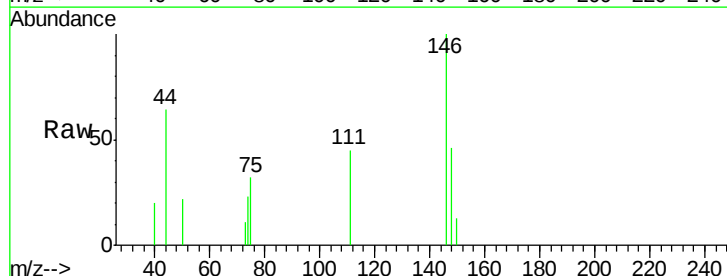


Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 53.00 (52.70 to 53.70): VU0
Ion 88.90 (88.60 to 89.60): VU0

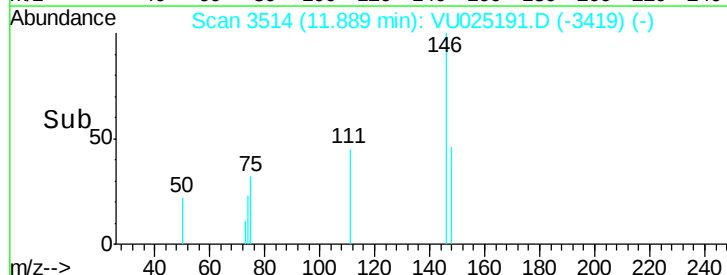
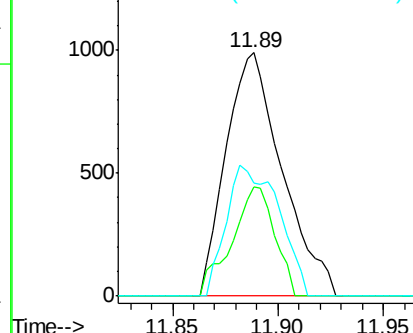


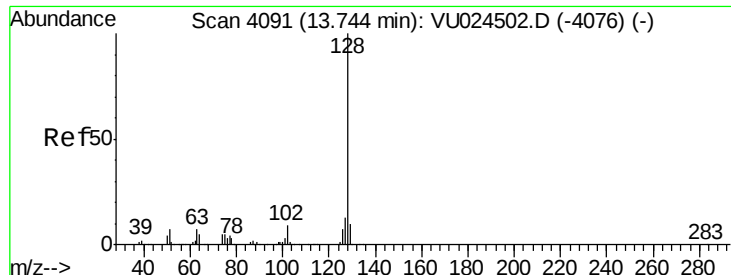
#91
1,2-Dichlorobenzene
Concen: 0.370 ug/l
RT: 11.89 min Scan# 3514
Delta R.T. 0.01 min
Lab File: VU025191.D
Acq: 03 Jul 2018 15:17

Tgt Ion: 146 Resp: 1826
Ion Ratio Lower Upper
146 100
111 34.4 20.5 61.6
148 50.4 31.9 95.7



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V





#95

Naphthalene

Concen: 0.687 ug/l

RT: 13.79 min Scan# 4105

Delta R.T. 0.05 min

Lab File: VU025191.D

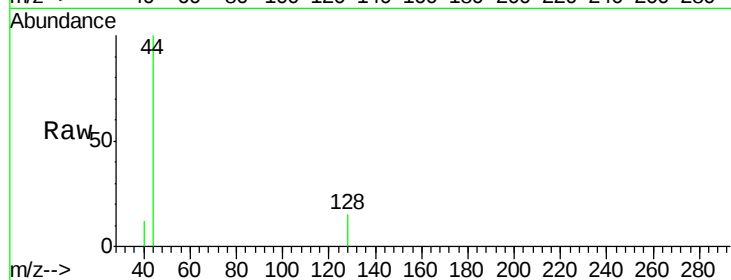
Acq: 03 Jul 2018 15:17

Instrument :

MSVOA_U

ClientSampleId :

DUP-0450-180627



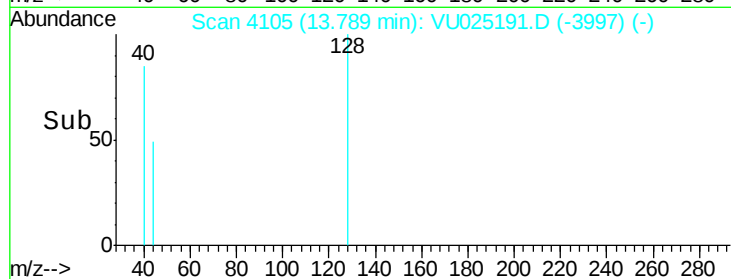
Tot Ion:128 Resp: 76

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

