

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU061318\
 Data File : VU024522.D
 Acq On : 13 Jun 2018 20:50
 Operator : MD/SY
 Sample : J3461-08
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 SB-49(0-5)

Quant Time: Jun 14 02:21:35 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	184298	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	315337	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	300969	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	177102	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.32	65	142457	47.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.70%	
35) Dibromofluoromethane	4.89	113	128065	48.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.86%	
50) Toluene-d8	7.57	98	461470	48.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.68%	
62) 4-Bromofluorobenzene	10.31	95	183101	48.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.62%	

Target Compounds

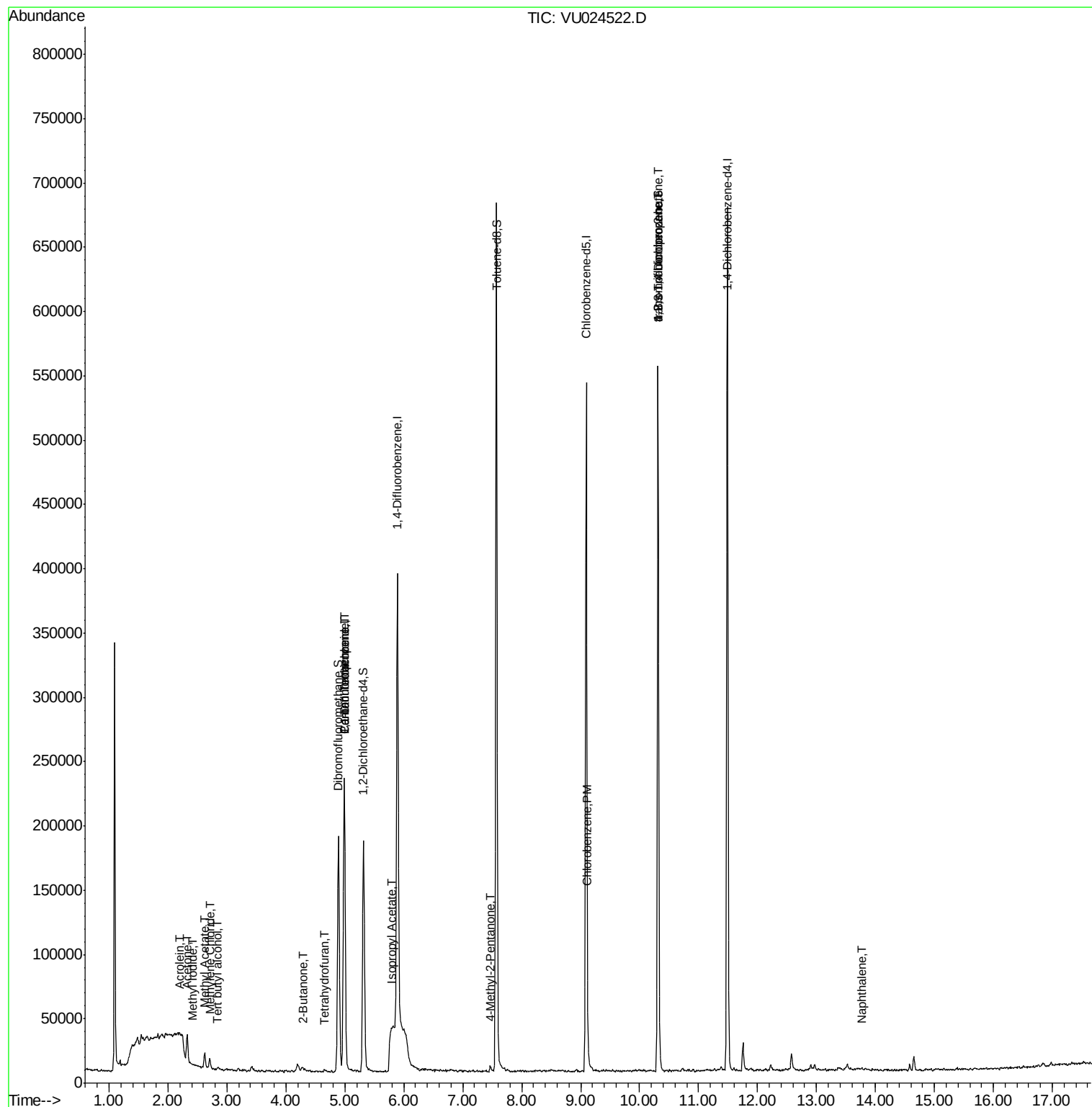
						Qvalue
6) Chloroethane	1.70	64	61	Below Cal		89
8) Diethyl Ether	2.12	74	172	Below Cal		99
10) Methyl Iodide	2.42	142	43	5.31 ug/l	#	40
11) Tert butyl alcohol	2.83	59	1248	1.71 ug/l		99
13) Acrolein	2.20	56	367	0.96 ug/l	#	13
16) Acetone	2.32	43	22170	13.71 ug/l		97
18) Methyl Acetate	2.62	43	15499	4.47 ug/l		94
20) Methylene Chloride	2.71	84	4120	1.62 ug/l		93
25) 2-Butanone	4.28	43	5006	2.31 ug/l		93
29) Tetrahydrofuran	4.65	42	1205	0.90 ug/l	#	58
31) Cyclohexane	4.99	56	3688	Below Cal	#	9
36) 1,1-Dichloropropene	4.99	75	13265	3.58 ug/l	#	47
38) Carbon Tetrachloride	4.99	117	16951	4.16 ug/l	#	17
43) Isopropyl Acetate	5.79	43	31735	4.55 ug/l	#	62
51) 4-Methyl-2-Pentanone	7.47	43	2474	0.56 ug/l		92
65) Chlorobenzene	9.12	112	2090	0.27 ug/l	#	85
76) 1,2,3-Trichloropropane	10.31	75	90958	23.33 ug/l	#	36
81) trans-1,4-Dichloro-2-buten	10.31	75	90958	53.99 ug/l	#	100
95) Naphthalene	13.76	128	1155	0.77 ug/l	#	78

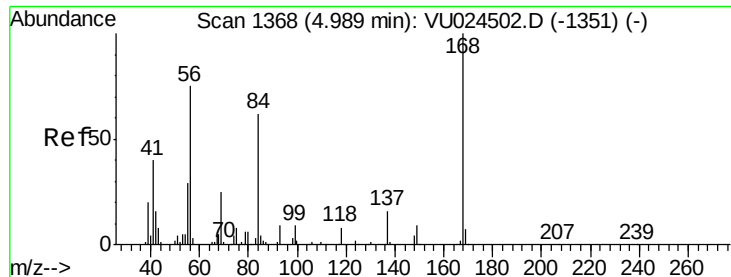
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :
SB-49(0-5)

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1369

Delta R.T. 0.00 min

Lab File: VU024522.D

Acq: 13 Jun 2018 20:50

Instrument :

MSVOA_U

ClientSampleId :

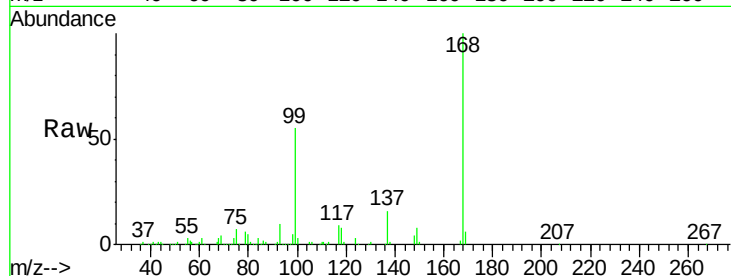
SB-49(0-5)

Tgt Ion:168 Resp: 184298

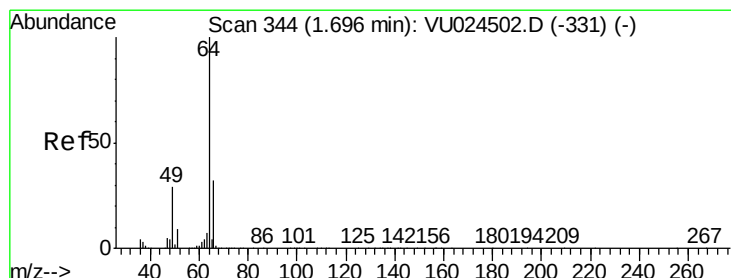
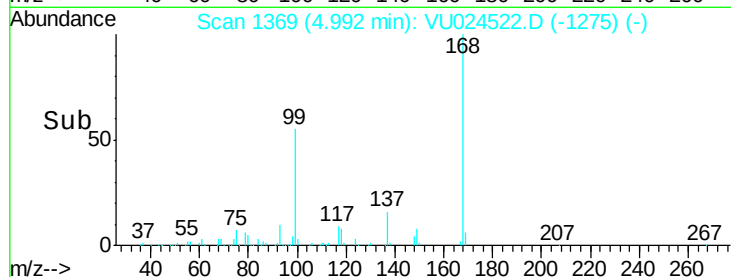
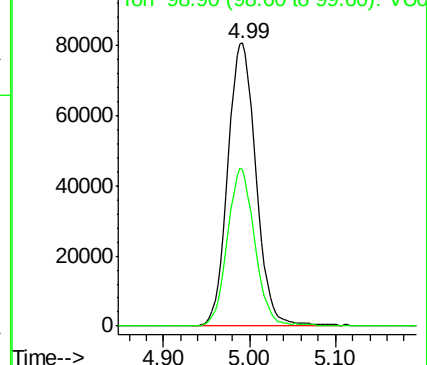
Ion Ratio Lower Upper

168 100

99 55.3 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024522.D (-1275) (-)



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 344

Delta R.T. 0.00 min

Lab File: VU024522.D

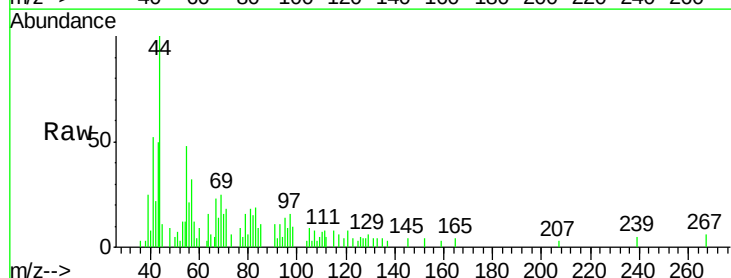
Acq: 13 Jun 2018 20:50

Tgt Ion: 64 Resp: 61

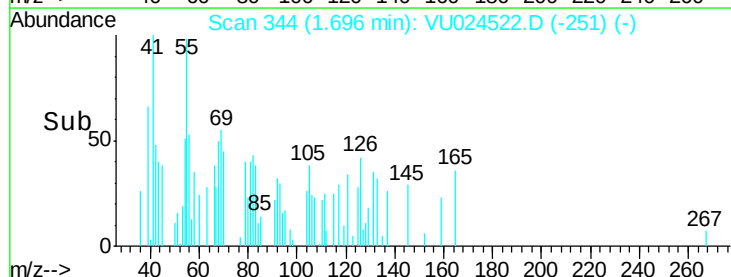
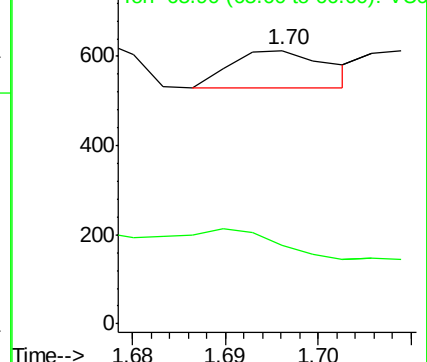
Ion Ratio Lower Upper

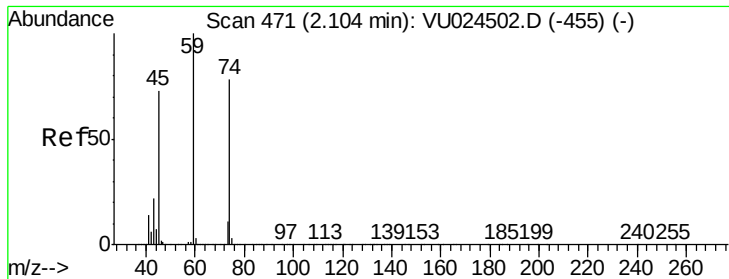
64 100

66 38.1 25.5 38.3



Abundance Ion 63.90 (63.60 to 64.60): VU024522.D (-251) (-)





#8

Diethyl Ether

Concen: Below Cal

RT: 2.12 min Scan# 476

Delta R.T. 0.02 min

Lab File: VU024522.D

Acq: 13 Jun 2018 20:50

Instrument :

MSVOA_U

ClientSampleId :

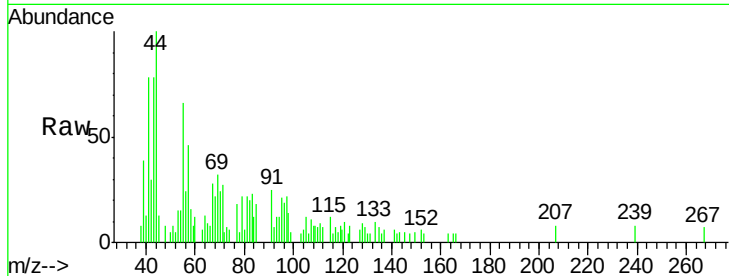
SB-49(0-5)

Tgt Ion: 74 Resp: 172

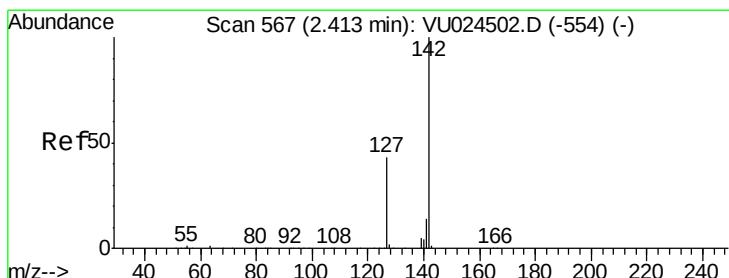
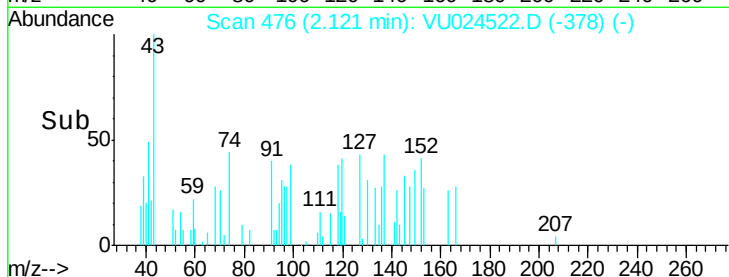
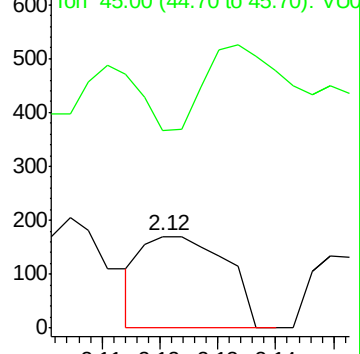
Ion Ratio Lower Upper

74 100

45 108.7 55.0 165.0



Abundance Ion 74.00 (73.70 to 74.70): VU024522.D (-476) (-)



#10

Methyl Iodide

Concen: 5.31 ug/l

RT: 2.42 min Scan# 569

Delta R.T. 0.01 min

Lab File: VU024522.D

Acq: 13 Jun 2018 20:50

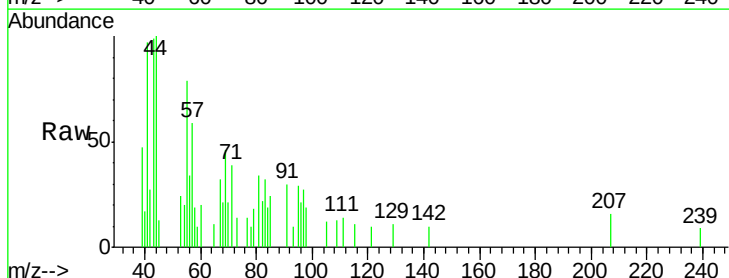
Tgt Ion: 142 Resp: 43

Ion Ratio Lower Upper

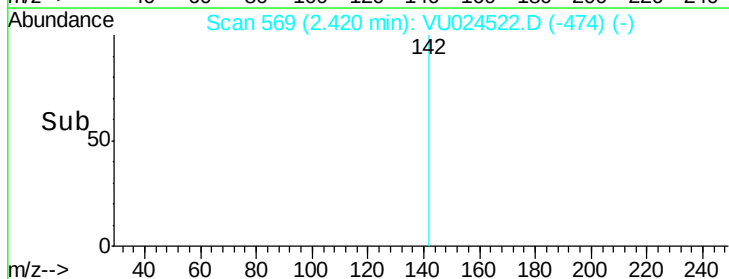
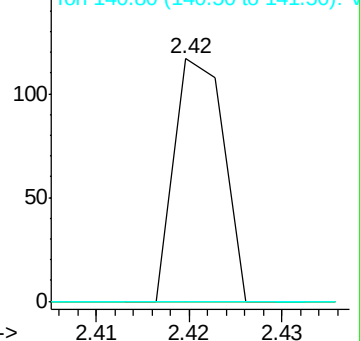
142 100

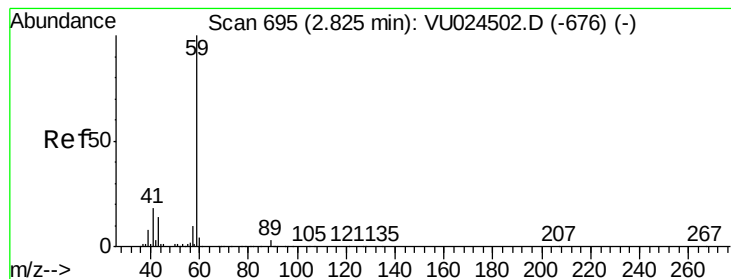
127 0.0 35.6 53.4#

141 0.0 11.7 17.5#



Abundance Ion 141.80 (141.50 to 142.50): VU024522.D (-574) (-)





#11

Tert butyl alcohol

Concen: 1.71 ug/l

RT: 2.83 min Scan# 698

Delta R.T. 0.01 min

Lab File: VU024522.D

Acq: 13 Jun 2018 20:50

Instrument :

MSVOA_U

ClientSampleId :

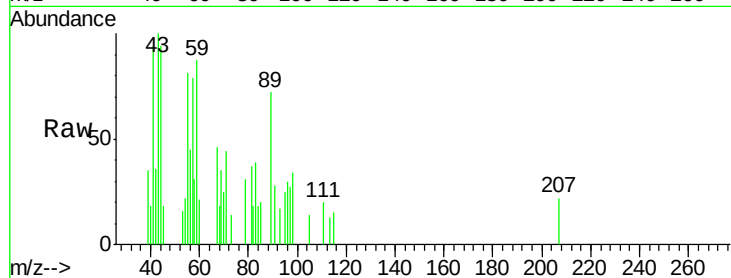
SB-49(0-5)

Tgt Ion: 59 Resp: 1248

Ion Ratio Lower Upper

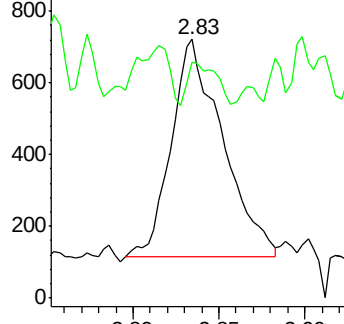
59 100

57 11.1 8.5 12.7

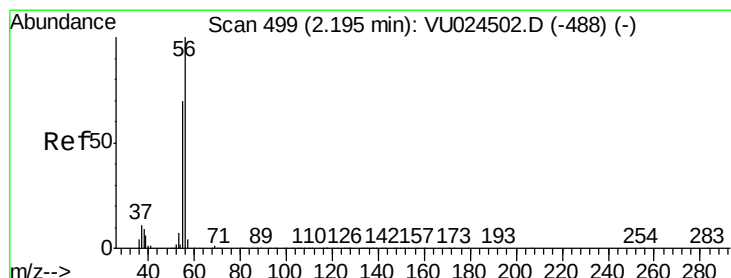
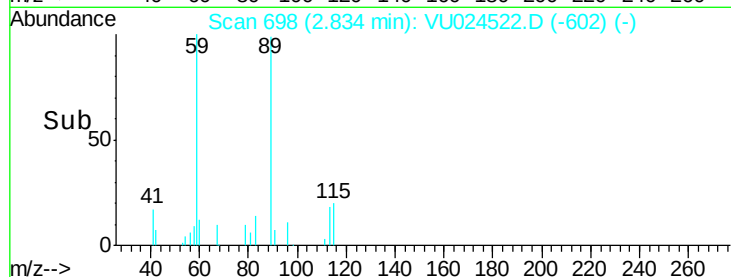


Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0



Time-->



#13

Acrolein

Concen: 0.96 ug/l

RT: 2.20 min Scan# 500

Delta R.T. 0.00 min

Lab File: VU024522.D

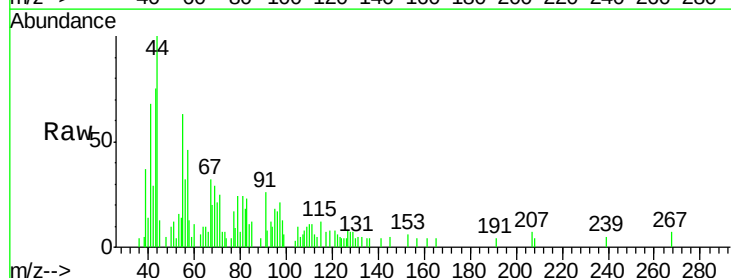
Acq: 13 Jun 2018 20:50

Tgt Ion: 56 Resp: 367

Ion Ratio Lower Upper

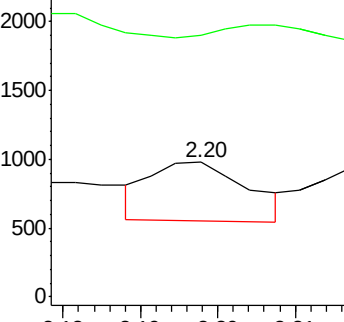
56 100

55 0.0 58.4 87.6#

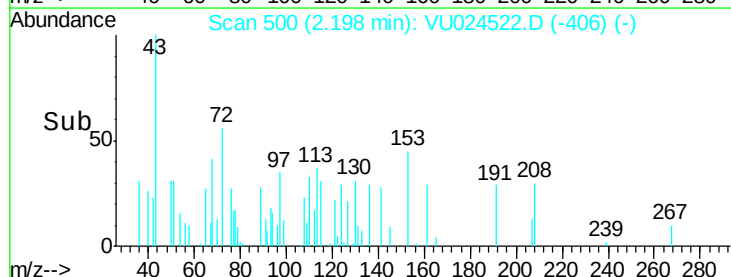


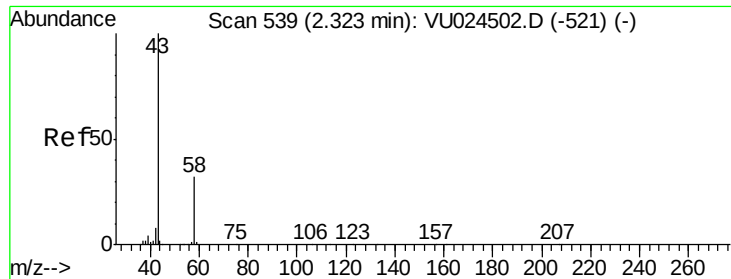
Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



Time-->





#16

Acetone

Concen: 13.71 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU024522.D

Acq: 13 Jun 2018 20:50

Instrument :

MSVOA_U

ClientSampleId :

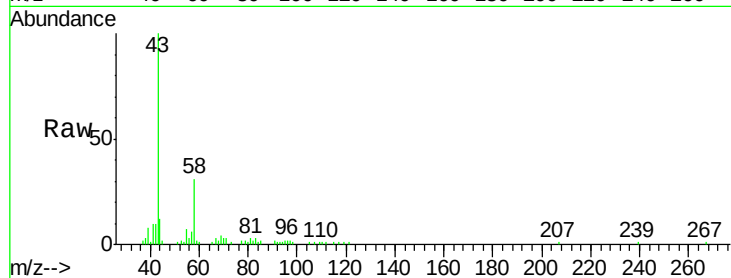
SB-49(0-5)

Tgt Ion: 43 Resp: 22170

Ion Ratio Lower Upper

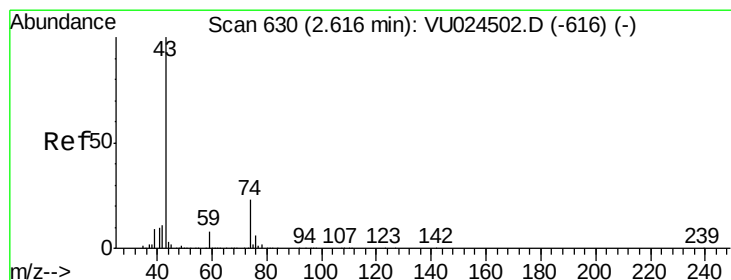
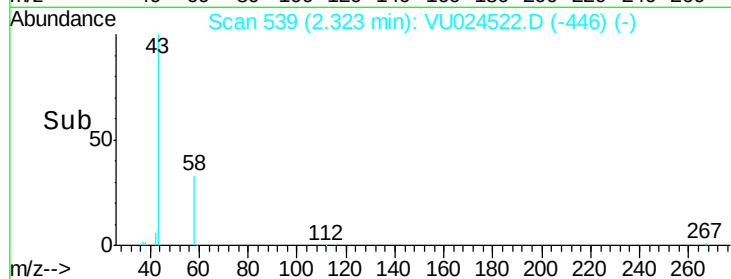
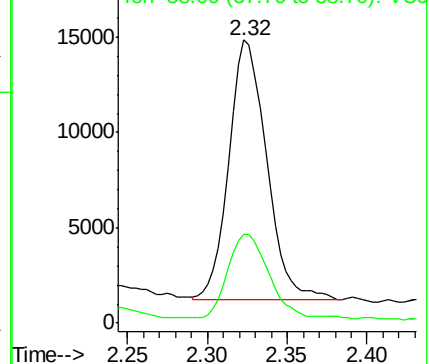
43 100

58 32.3 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: 4.47 ug/l

RT: 2.62 min Scan# 632

Delta R.T. 0.01 min

Lab File: VU024522.D

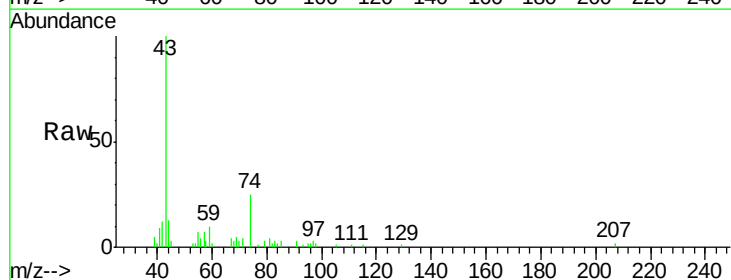
Acq: 13 Jun 2018 20:50

Tgt Ion: 43 Resp: 15499

Ion Ratio Lower Upper

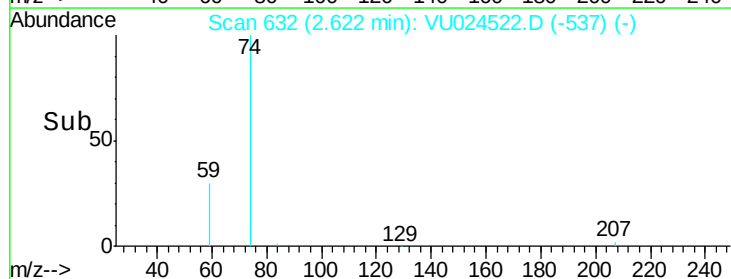
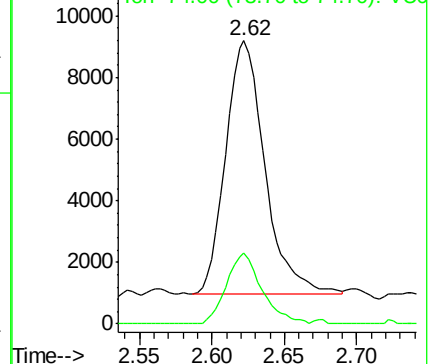
43 100

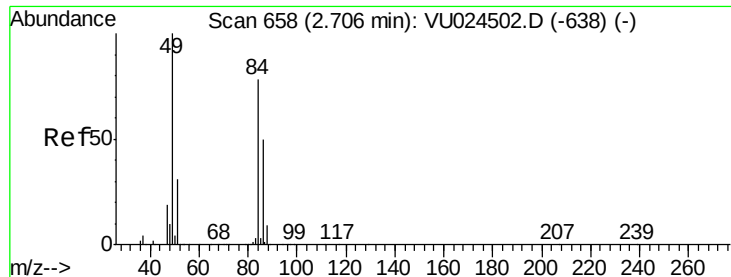
74 25.2 18.0 27.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0





#20

Methylene Chloride

Concen: 1.62 ug/l

RT: 2.71 min Scan# 659

Delta R.T. 0.00 min

Lab File: VU024522.D

Acq: 13 Jun 2018 20:50

Instrument :

MSVOA_U

ClientSampleId :

SB-49(0-5)

Tgt Ion: 84 Resp: 4120

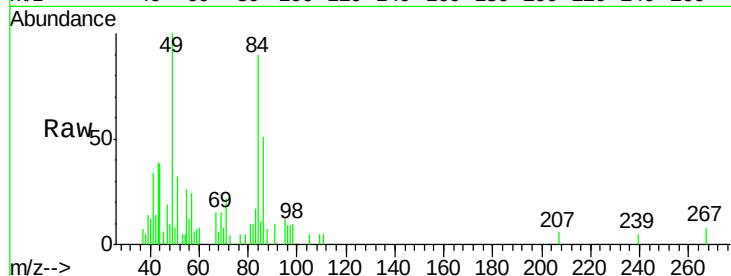
Ion Ratio Lower Upper

84 100

49 118.6 103.8 155.8

51 37.6 32.0 48.0

86 60.9 51.6 77.4

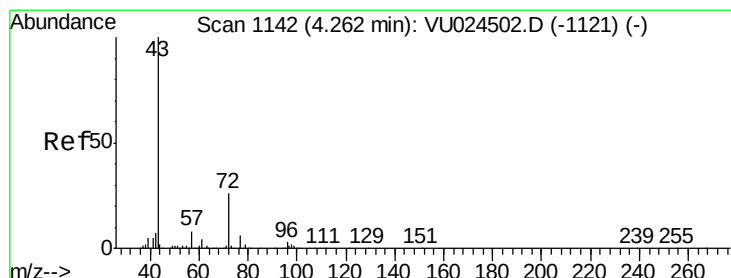
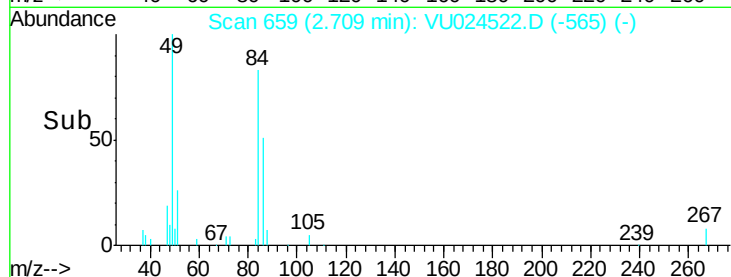
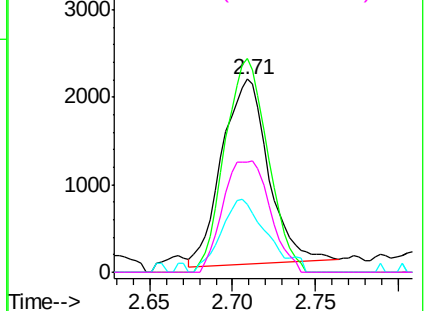


Abundance Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0



#25

2-Butanone

Concen: 2.31 ug/l

RT: 4.28 min Scan# 1149

Delta R.T. 0.02 min

Lab File: VU024522.D

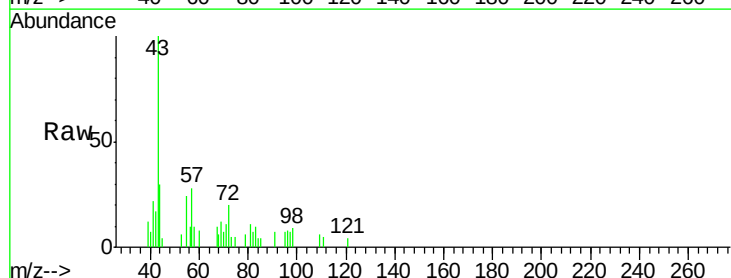
Acq: 13 Jun 2018 20:50

Tgt Ion: 43 Resp: 5006

Ion Ratio Lower Upper

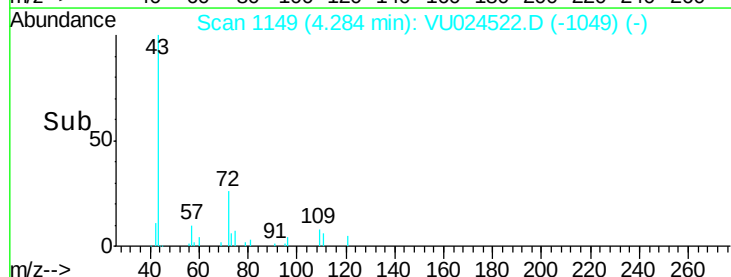
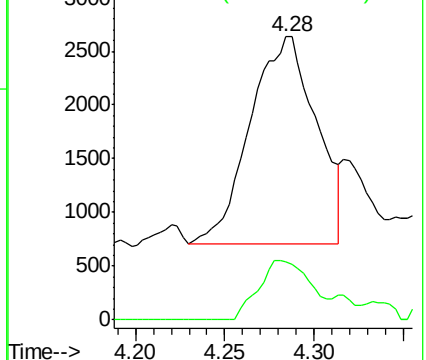
43 100

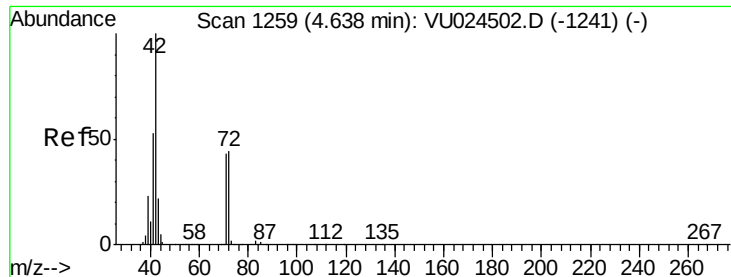
72 27.7 19.6 29.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0





#29

Tetrahydrofuran

Concen: 0.90 ug/l

RT: 4.65 min Scan# 1263

Delta R.T. 0.01 min

Lab File: VU024522.D

Acq: 13 Jun 2018 20:50

Instrument :

MSVOA_U

ClientSampleId :

SB-49(0-5)

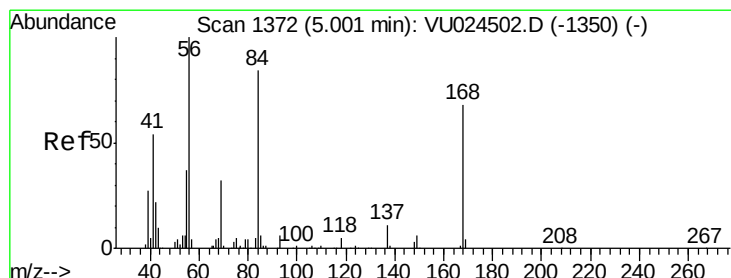
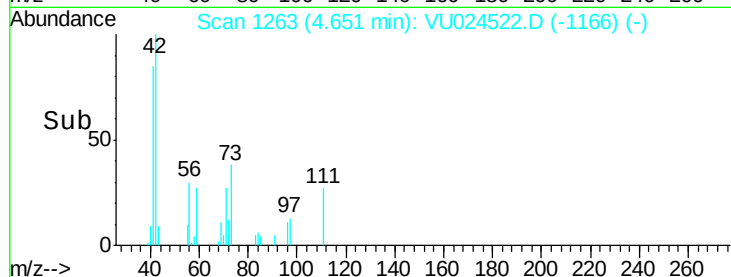
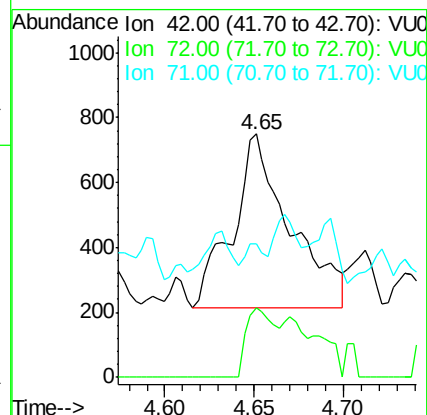
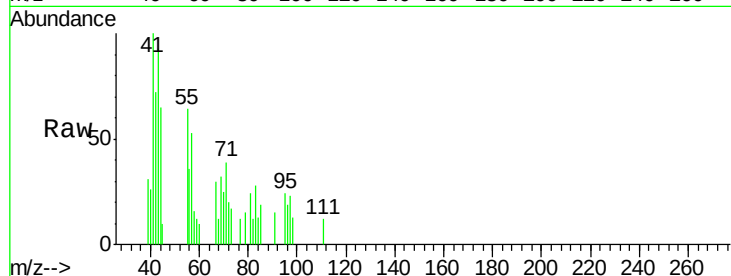
Tgt Ion: 42 Resp: 1205

Ion Ratio Lower Upper

42 100

72 19.8 34.5 51.7#

71 10.0 32.2 48.4#



#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VU024522.D

Acq: 13 Jun 2018 20:50

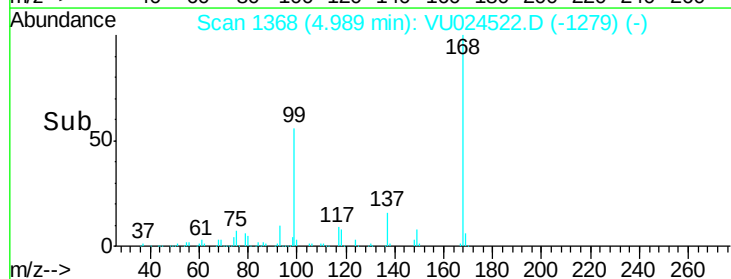
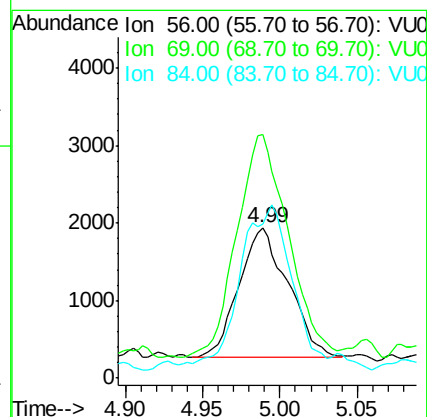
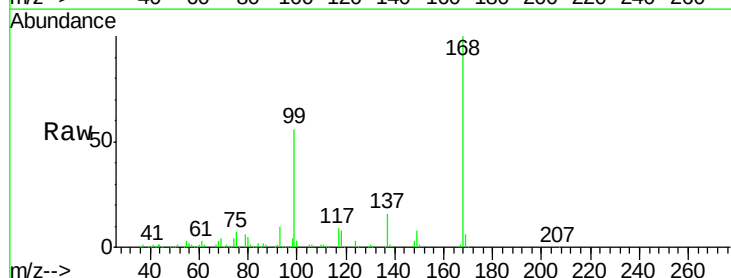
Tgt Ion: 56 Resp: 3688

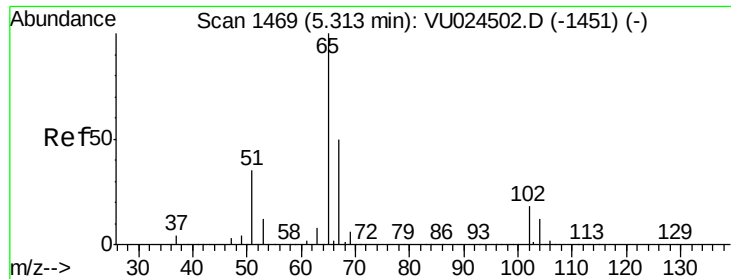
Ion Ratio Lower Upper

56 100

69 169.3 24.8 37.2#

84 108.0 65.2 97.8#

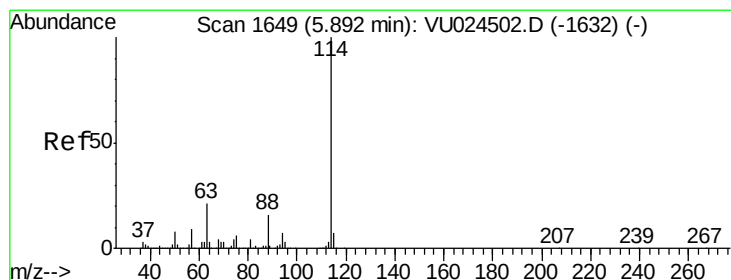
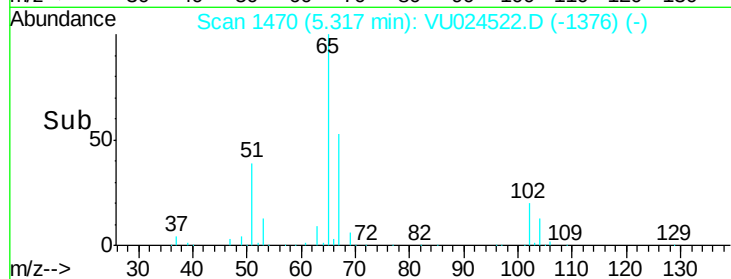
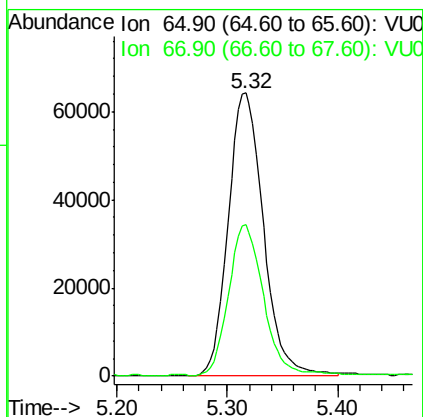
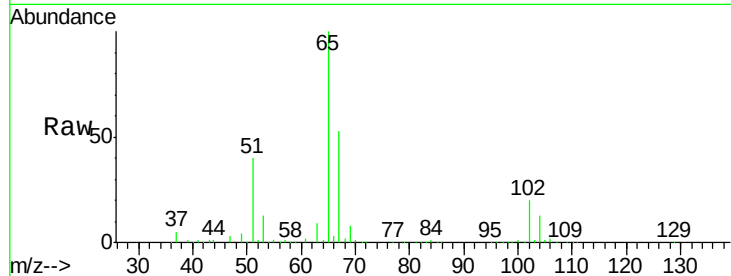




#33
 1,2-Dichloroethane-d4
 Concen: 47.35 ug/l
 RT: 5.32 min Scan# 1470
 Delta R.T. 0.00 min
 Lab File: VU024522.D
 Acq: 13 Jun 2018 20:50

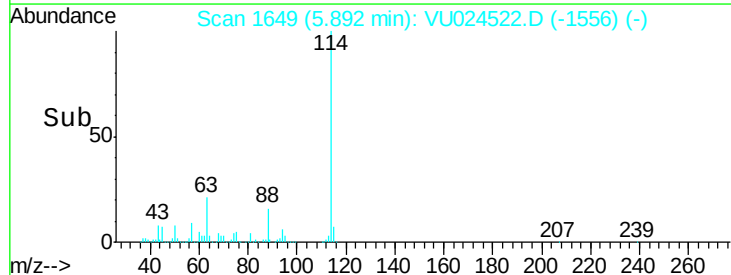
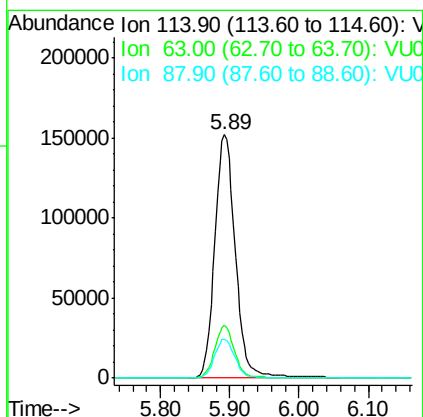
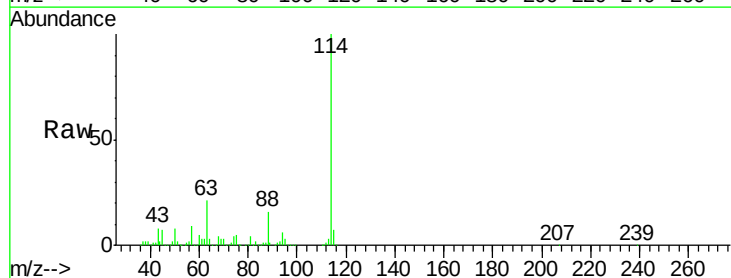
Instrument :
 MSVOA_U
 ClientSampleId :
 SB-49(0-5)

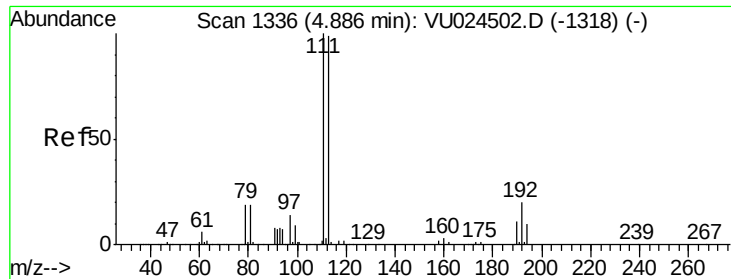
Tgt Ion: 65 Resp: 142457
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU024522.D
 Acq: 13 Jun 2018 20:50

Tgt Ion: 114 Resp: 315337
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 45.4
 88 16.1 0.0 31.0





#35

Dibromofluoromethane

Concen: 48.93 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU024522.D

Acq: 13 Jun 2018 20:50

Instrument :

MSVOA_U

ClientSampleId :

SB-49(0-5)

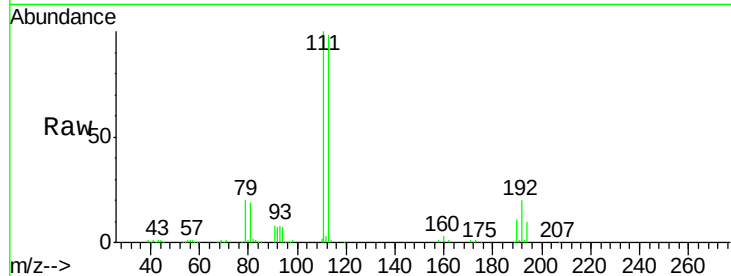
Tgt Ion:113 Resp: 128065

Ion Ratio Lower Upper

113 100

111 100.4 82.2 123.4

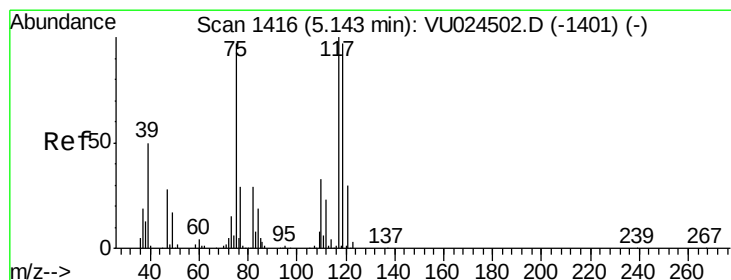
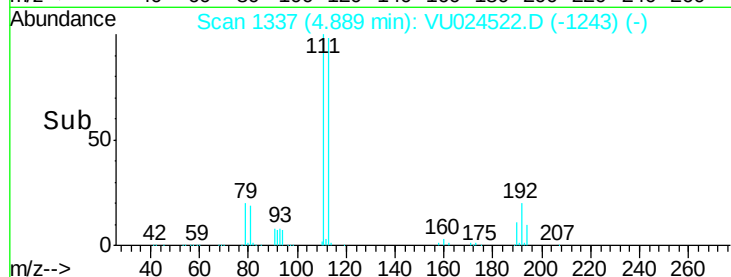
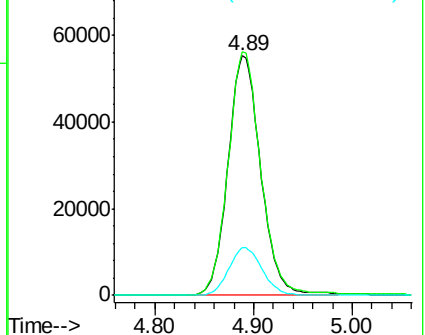
192 20.3 16.2 24.4



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: 3.58 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024522.D

Acq: 13 Jun 2018 20:50

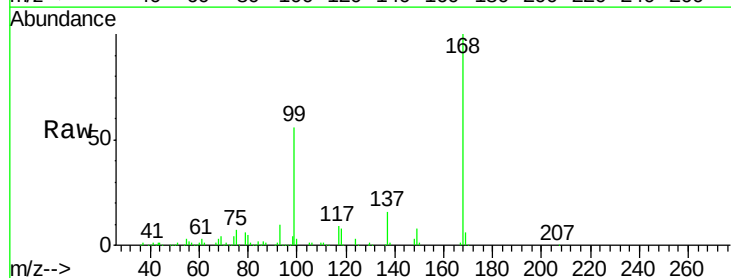
Tgt Ion: 75 Resp: 13265

Ion Ratio Lower Upper

75 100

110 3.4 17.0 50.9#

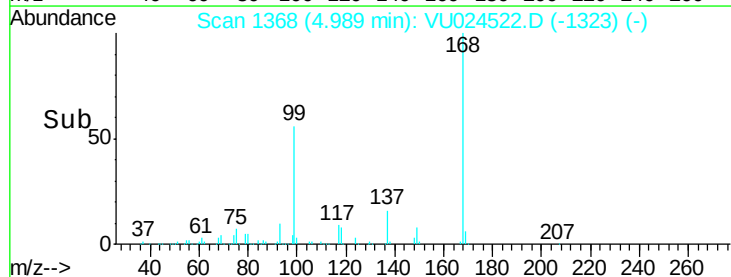
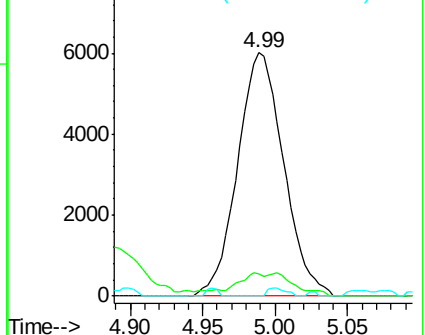
77 1.3 24.2 36.4#

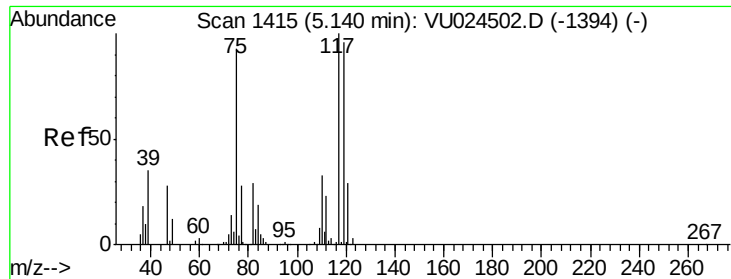


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 4.16 ug/l

RT: 4.99 min Scan# 1369

Delta R.T. -0.15 min

Lab File: VU024522.D

Acq: 13 Jun 2018 20:50

Instrument :

MSVOA_U

ClientSampleId :

SB-49(0-5)

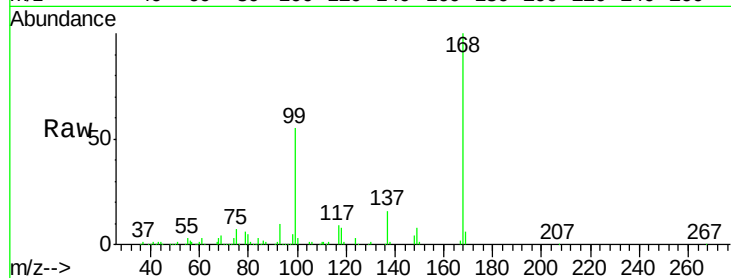
Tgt Ion:117 Resp: 16951

Ion Ratio Lower Upper

117 100

119 5.9 76.1 114.1#

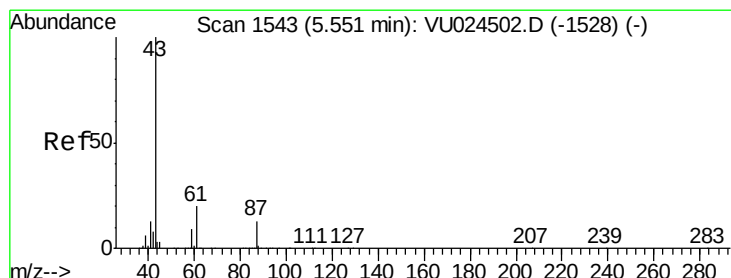
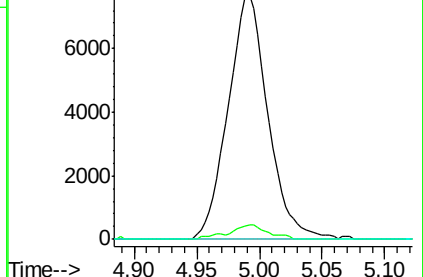
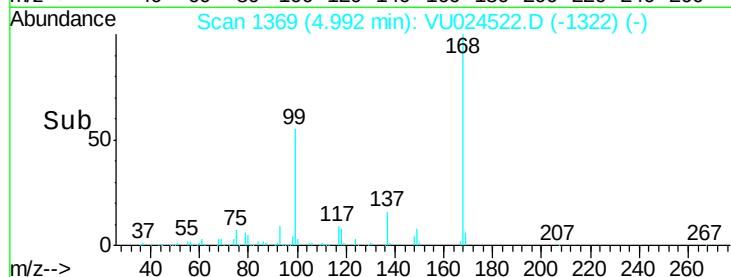
121 0.0 23.7 35.5#



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



#43

Isopropyl Acetate

Concen: 4.55 ug/l

RT: 5.79 min Scan# 1617

Delta R.T. 0.24 min

Lab File: VU024522.D

Acq: 13 Jun 2018 20:50

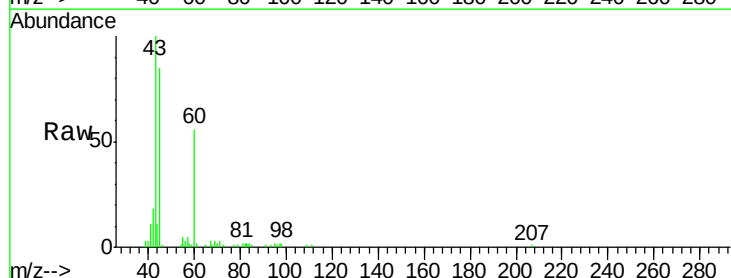
Tgt Ion: 43 Resp: 31735

Ion Ratio Lower Upper

43 100

61 0.5 15.4 23.0#

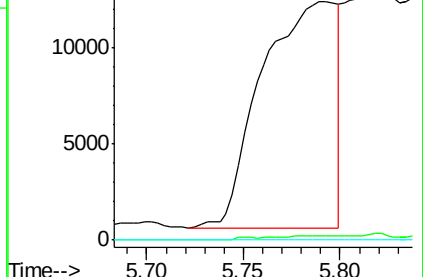
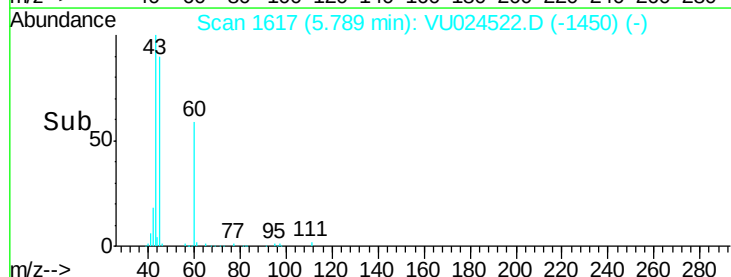
87 0.0 10.0 15.0#

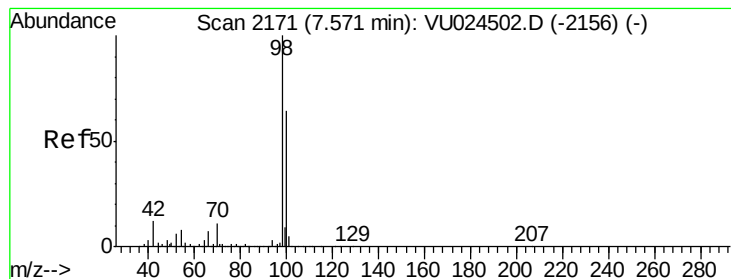


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0





#50

Toluene-d8

Concen: 48.34 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. 0.00 min

Lab File: VU024522.D

Acq: 13 Jun 2018 20:50

Instrument :

MSVOA_U

ClientSampleId :

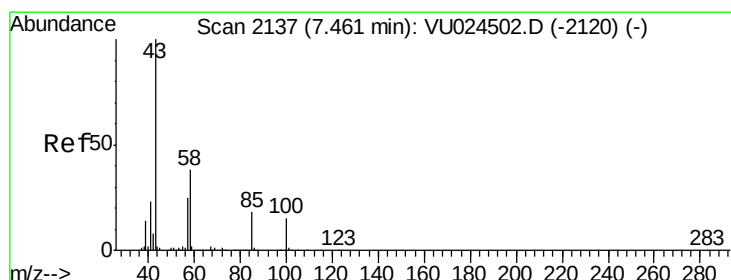
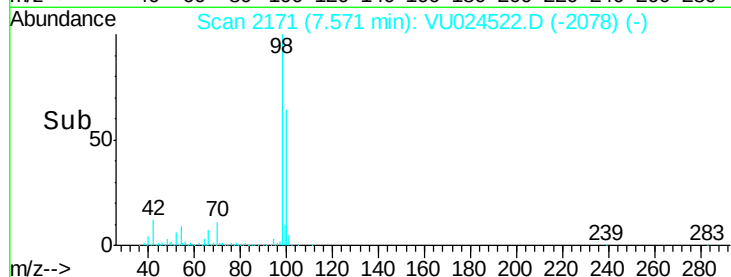
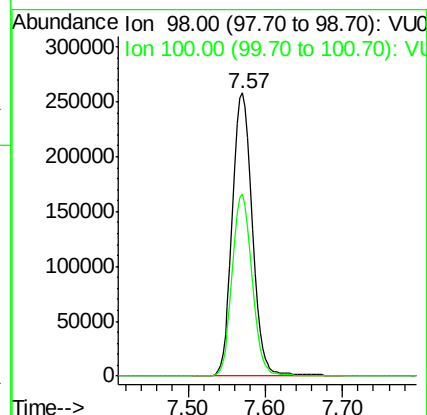
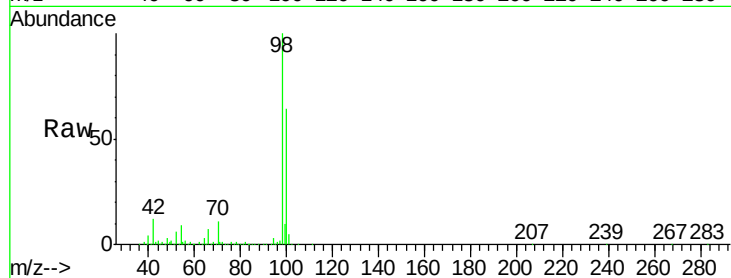
SB-49(0-5)

Tgt Ion: 98 Resp: 461470

Ion Ratio Lower Upper

98 100

100 63.7 51.1 76.7



#51

4-Methyl-2-Pentanone

Concen: 0.56 ug/l

RT: 7.47 min Scan# 2139

Delta R.T. 0.01 min

Lab File: VU024522.D

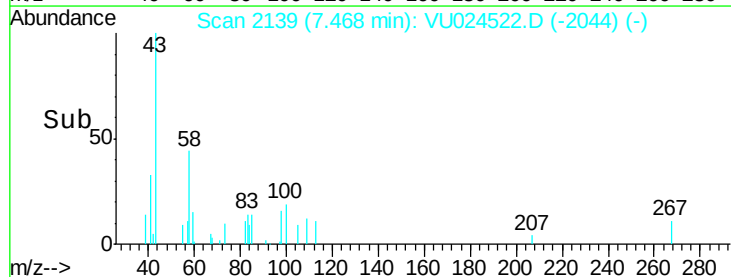
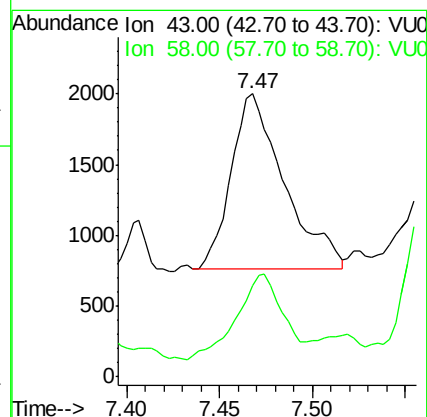
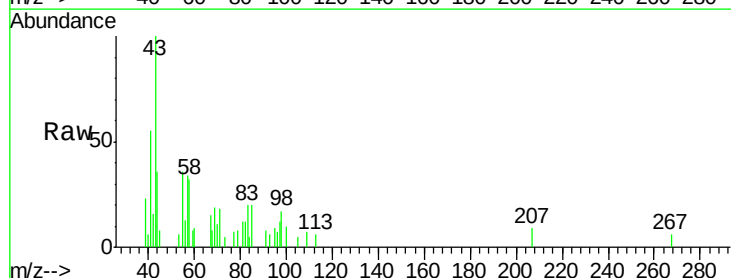
Acq: 13 Jun 2018 20:50

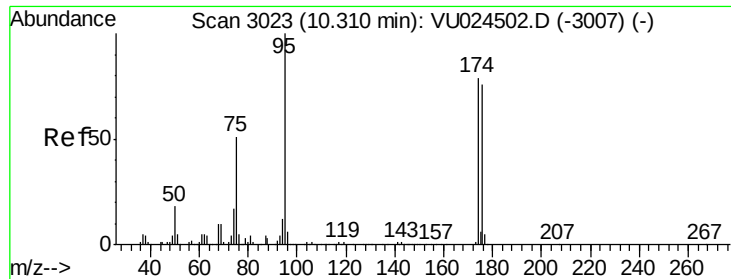
Tgt Ion: 43 Resp: 2474

Ion Ratio Lower Upper

43 100

58 42.4 30.0 45.0





#62

4-Bromofluorobenzene

Concen: 48.31 ug/l

RT: 10.31 min Scan# 3024

Delta R.T. 0.00 min

Lab File: VU024522.D

Acq: 13 Jun 2018 20:50

Instrument :

MSVOA_U

ClientSampleId :

SB-49(0-5)

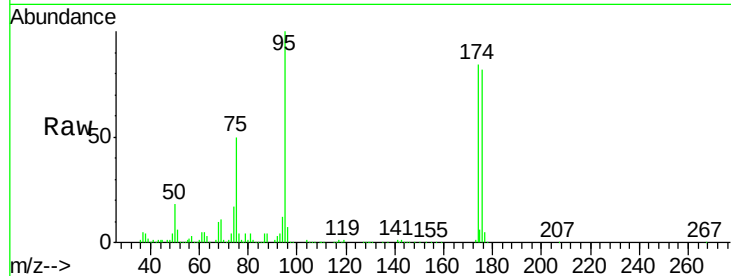
Tgt Ion: 95 Resp: 183101

Ion Ratio Lower Upper

95 100

174 82.6 0.0 165.8

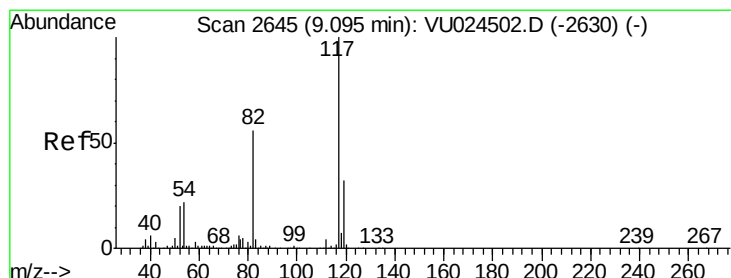
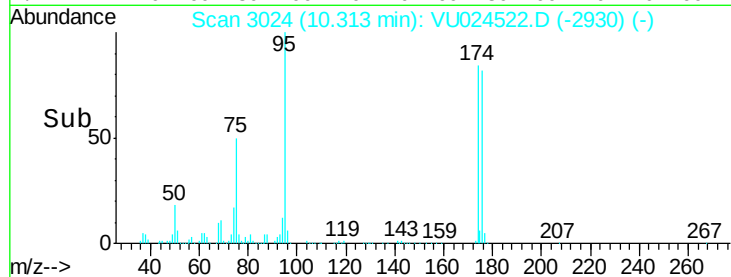
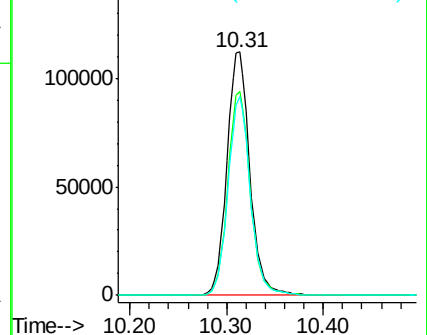
176 79.8 0.0 159.4



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) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VU024522.D

Acq: 13 Jun 2018 20:50

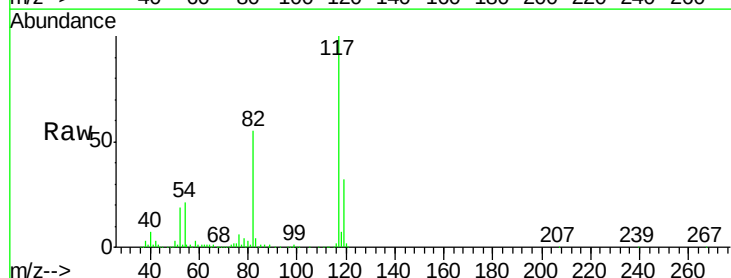
Tgt Ion: 117 Resp: 300969

Ion Ratio Lower Upper

117 100

82 55.2 44.3 66.5

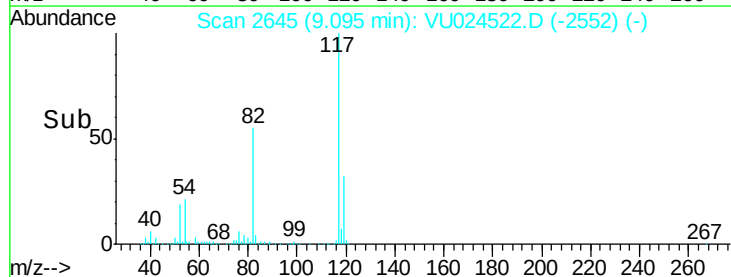
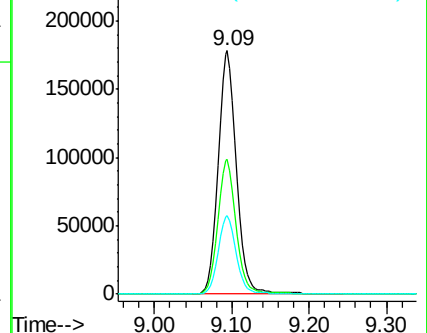
119 32.4 25.4 38.2

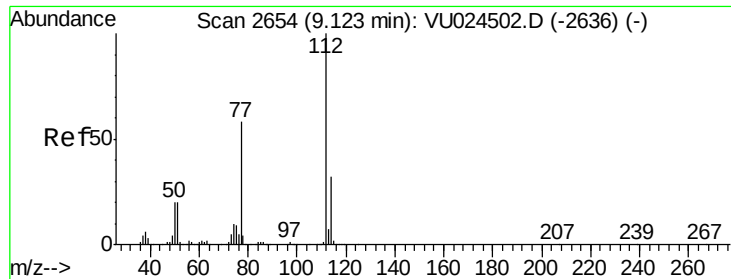


Abundance Ion 116.90 (116.60 to 117.60): VU024502.D (-2630) (-)

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

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





#65

Chlorobenzene

Concen: 0.27 ug/l

RT: 9.12 min Scan# 2654

Delta R.T. 0.00 min

Lab File: VU024522.D

Acq: 13 Jun 2018 20:50

Instrument :

MSVOA_U

ClientSampleId :

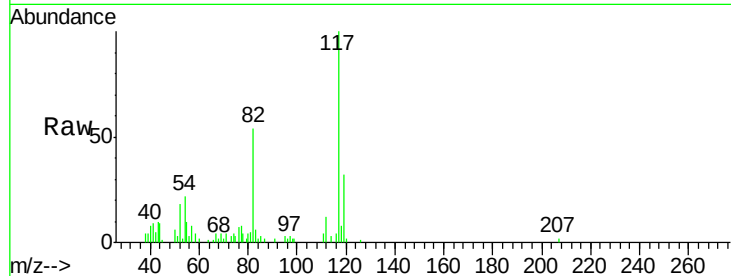
SB-49(0-5)

Tgt Ion:112 Resp: 2090

Ion Ratio Lower Upper

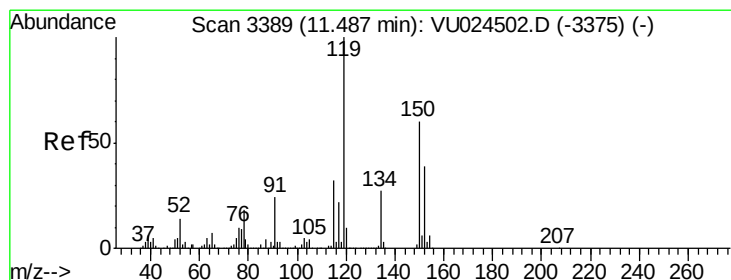
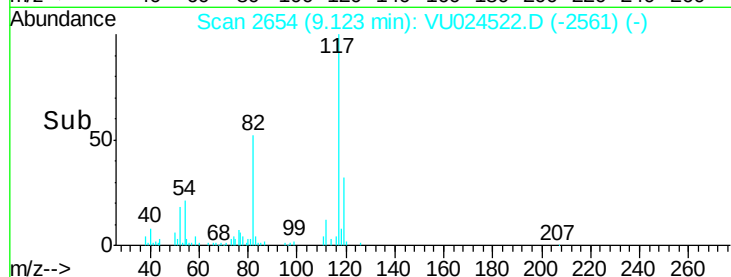
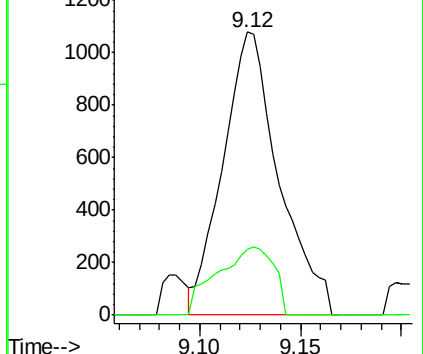
112 100

114 23.5 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: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU024522.D

Acq: 13 Jun 2018 20:50

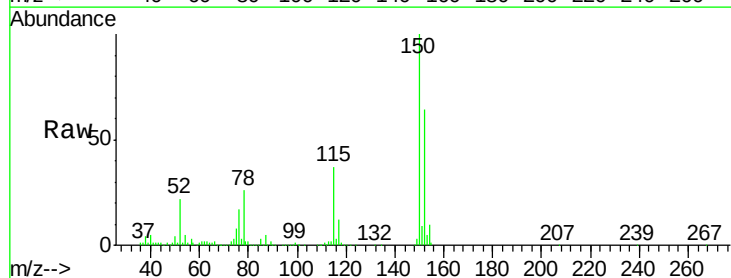
Tgt Ion:152 Resp: 177102

Ion Ratio Lower Upper

152 100

115 58.0 43.0 129.0

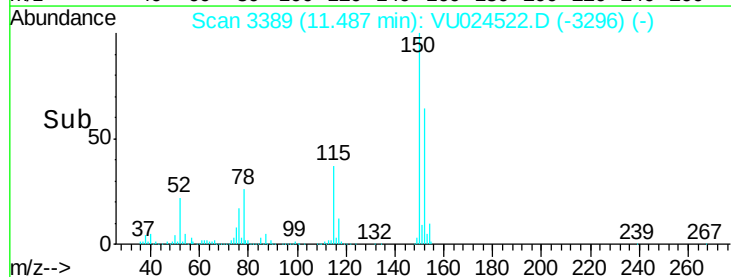
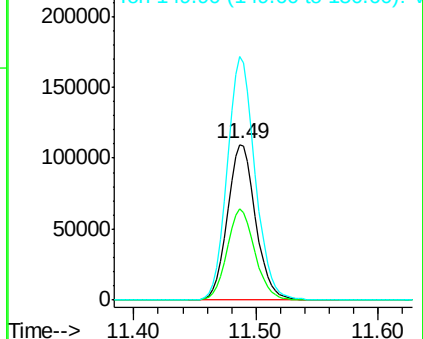
150 155.0 0.0 354.0

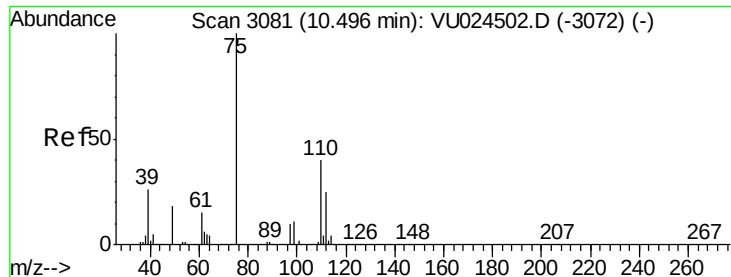


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.33 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024522.D

Acq: 13 Jun 2018 20:50

Instrument :

MSVOA_U

ClientSampleId :

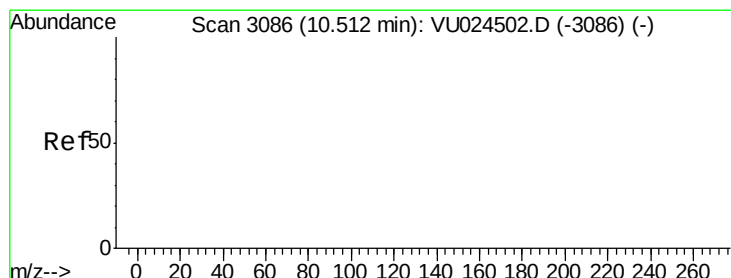
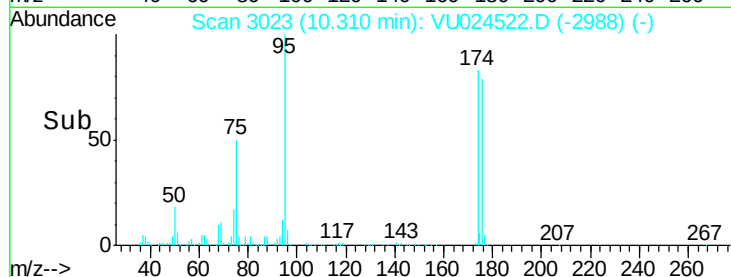
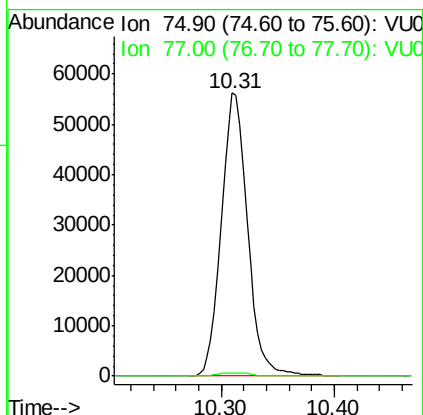
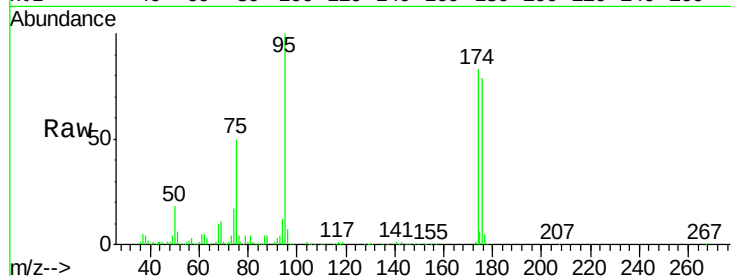
SB-49(0-5)

Tgt Ion: 75 Resp: 90958

Ion Ratio Lower Upper

75 100

77 1.7 20.9 62.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 53.99 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024522.D

Acq: 13 Jun 2018 20:50

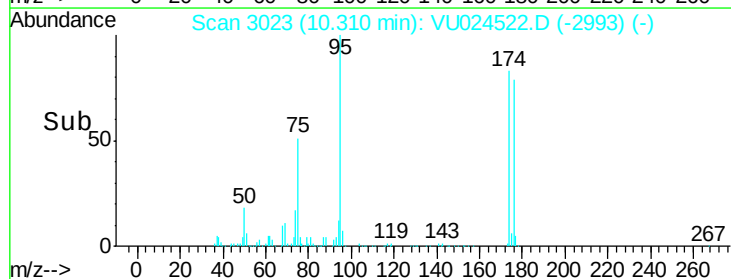
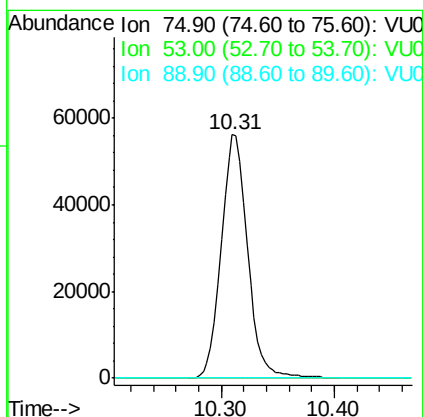
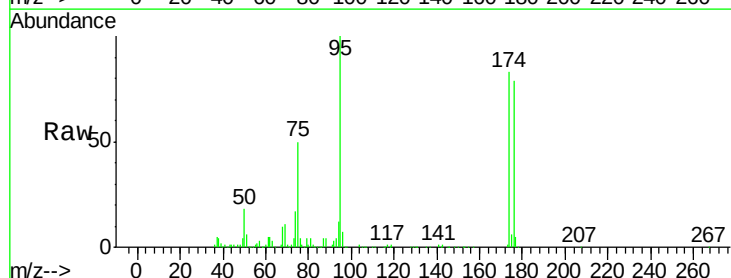
Tgt Ion: 75 Resp: 90958

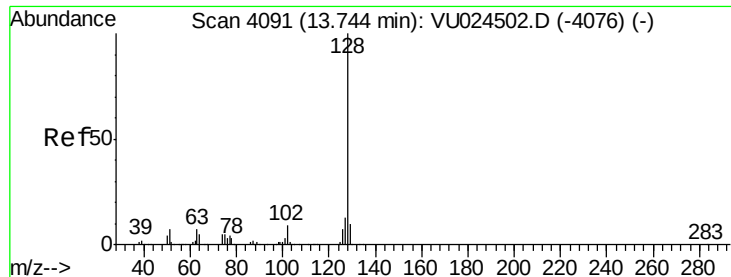
Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

89 0.0 0.0 0.0





#95
Naphthalene
Concen: 0.77 ug/l
RT: 13.76 min Scan# 4096
Delta R.T. 0.02 min
Lab File: VU024522.D
Acq: 13 Jun 2018 20:50

Instrument :
MSVOA_U
ClientSampleId :
SB-49(0-5)

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	16.0#
129	7.3	8.6	12.8#

