

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU061318\
 Data File : VU024524.D
 Acq On : 13 Jun 2018 21:37
 Operator : MD/SY
 Sample : J3461-06
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 SB-47(0-5)

Quant Time: Jun 14 02:22:05 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	189504	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	326976	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	314817	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	185120	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.32	65	146859	47.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.94%	
35) Dibromofluoromethane	4.89	113	129352	47.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.34%	
50) Toluene-d8	7.57	98	477086	48.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.40%	
62) 4-Bromofluorobenzene	10.31	95	190046	48.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.72%	

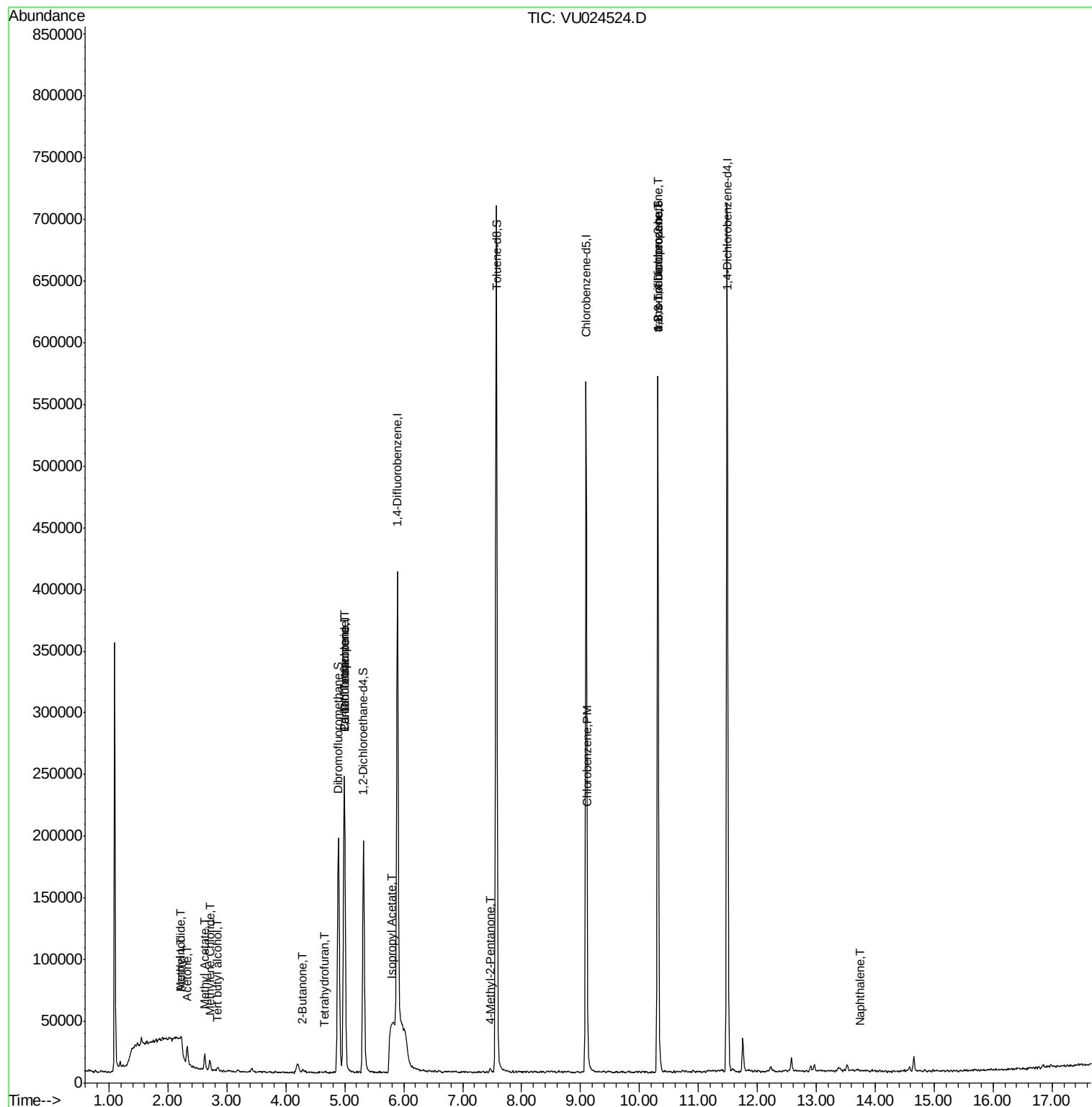
Target Compounds				Qvalue		
6) Chloroethane	1.73	64	84	Below Cal	#	84
8) Diethyl Ether	2.18	74	115	Below Cal		83
10) Methyl Iodide	2.22	142	19	5.30	ug/l #	1
11) Tert butyl alcohol	2.83	59	934	1.24	ug/l #	62
13) Acrolein	2.21	56	161	0.41	ug/l #	13
16) Acetone	2.33	43	17604	10.59	ug/l	93
18) Methyl Acetate	2.62	43	15431	4.33	ug/l	96
20) Methylene Chloride	2.71	84	3640	1.40	ug/l	97
25) 2-Butanone	4.29	43	3255	1.46	ug/l #	80
29) Tetrahydrofuran	4.66	42	859	0.62	ug/l #	71
31) Cyclohexane	4.99	56	4315	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	13866	3.61	ug/l #	53
38) Carbon Tetrachloride	4.99	117	17937	4.25	ug/l #	17
43) Isopropyl Acetate	5.79	43	40591	5.61	ug/l #	62
51) 4-Methyl-2-Pentanone	7.47	43	2343	0.52	ug/l	91
65) Chlorobenzene	9.12	112	2279	0.28	ug/l #	85
76) 1,2,3-Trichloropropane	10.31	75	96750	23.74	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	96750	54.94	ug/l #	100
95) Naphthalene	13.76	128	334	0.70	ug/l #	69

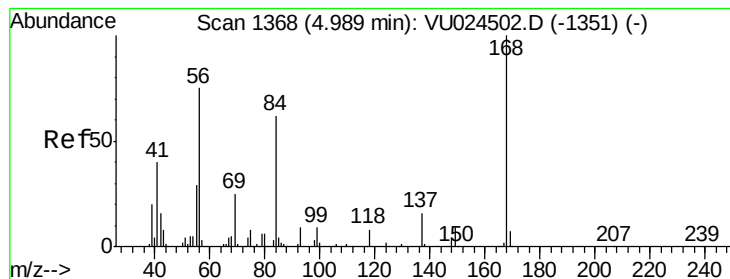
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU024524.D

Acq: 13 Jun 2018 21:37

Instrument :

MSVOA_U

ClientSampleId :

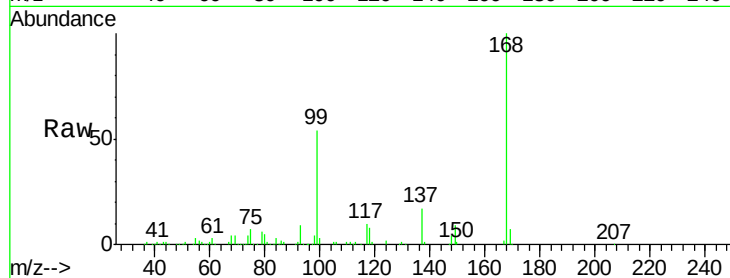
SB-47(0-5)

Tgt Ion:168 Resp: 189504

Ion Ratio Lower Upper

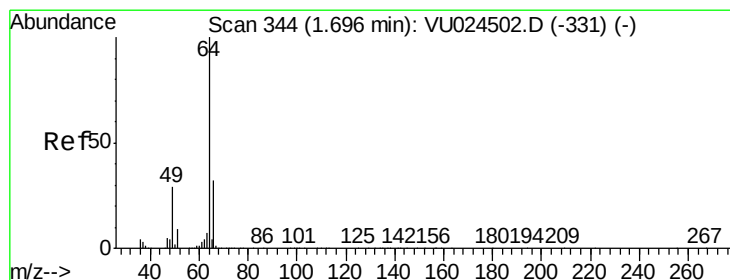
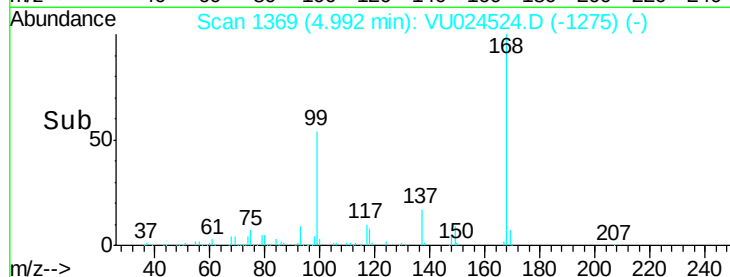
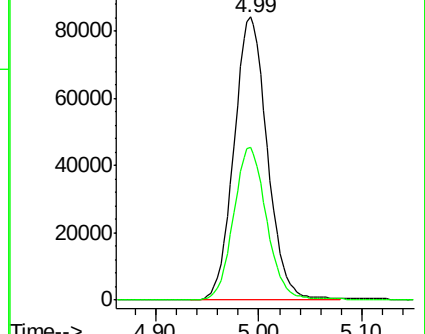
168 100

99 53.9 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VU0



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 355

Delta R.T. 0.04 min

Lab File: VU024524.D

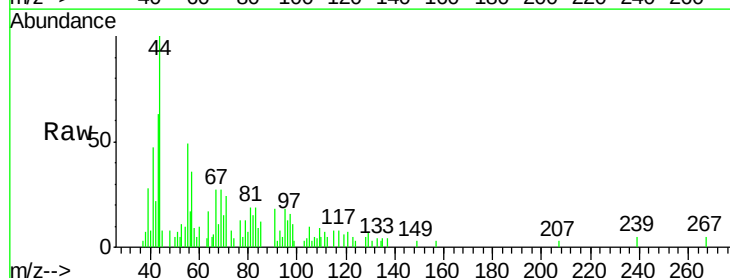
Acq: 13 Jun 2018 21:37

Tgt Ion: 64 Resp: 84

Ion Ratio Lower Upper

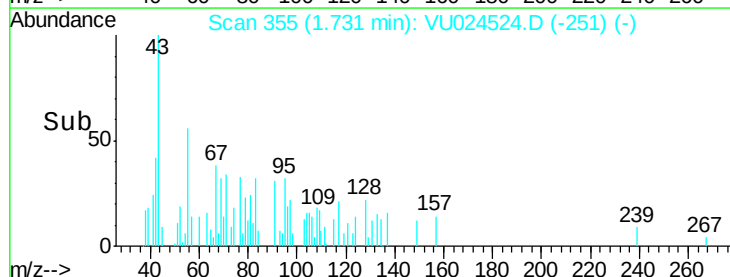
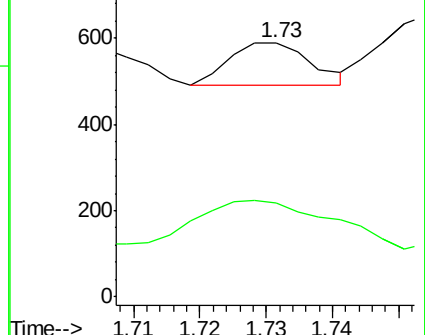
64 100

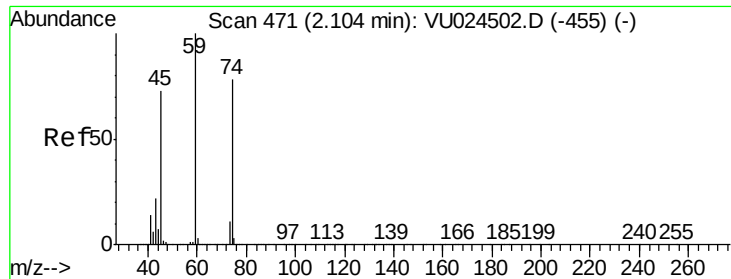
66 40.8 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0





#8

Diethyl Ether

Concen: Below Cal

RT: 2.18 min Scan# 494

Delta R.T. 0.07 min

Lab File: VU024524.D

Acq: 13 Jun 2018 21:37

Instrument :

MSVOA_U

ClientSampleId :

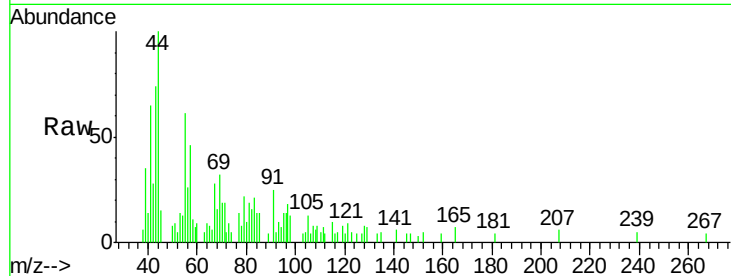
SB-47(0-5)

Tgt Ion: 74 Resp: 115

Ion Ratio Lower Upper

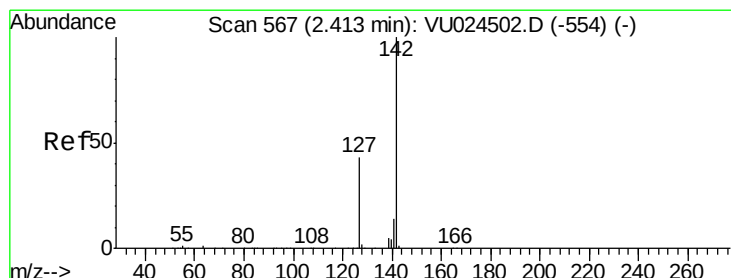
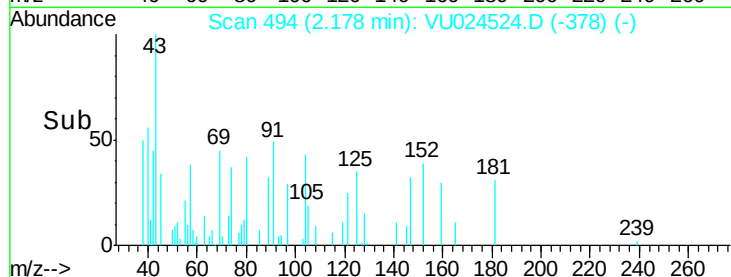
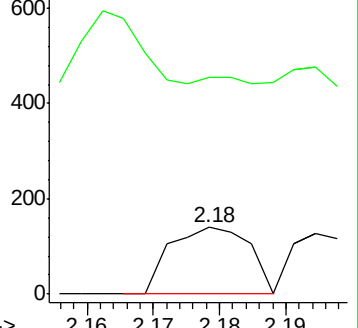
74 100

45 127.8 55.0 165.0



Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0



#10

Methyl Iodide

Concen: 5.30 ug/l

RT: 2.22 min Scan# 506

Delta R.T. -0.20 min

Lab File: VU024524.D

Acq: 13 Jun 2018 21:37

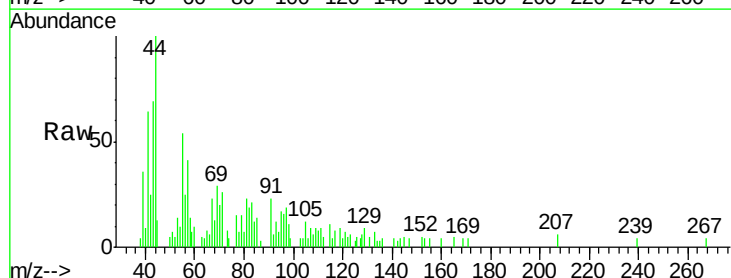
Tgt Ion: 142 Resp: 19

Ion Ratio Lower Upper

142 100

127 1073.7 35.6 53.4#

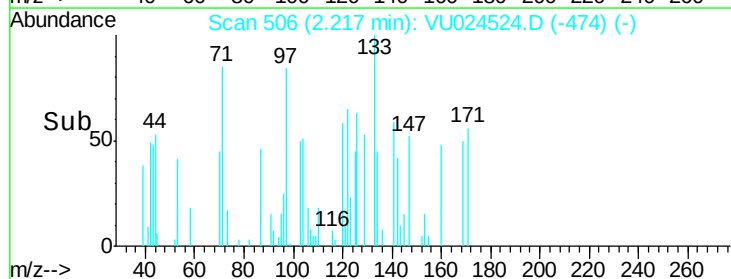
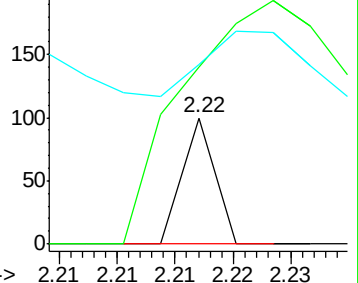
141 857.9 11.7 17.5#

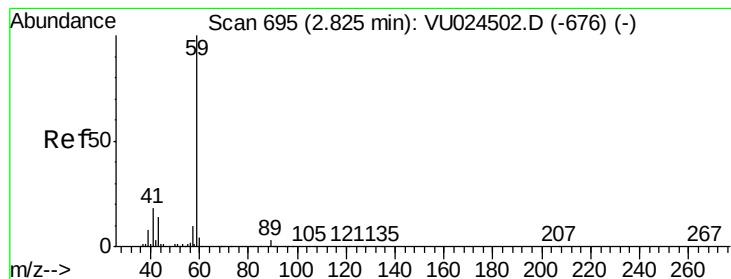


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



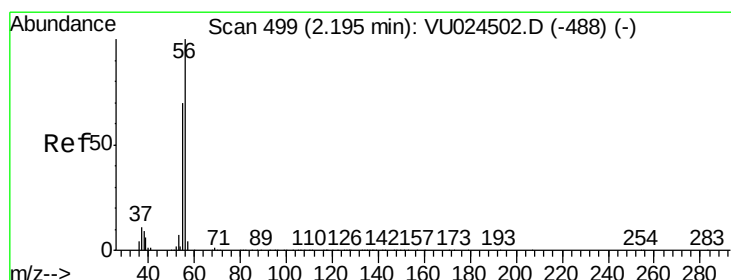
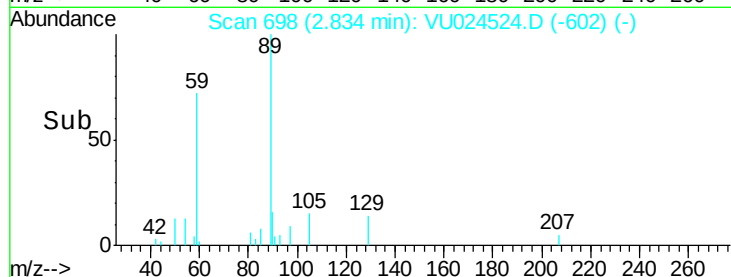
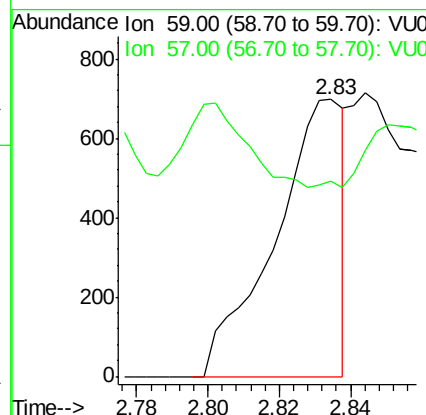
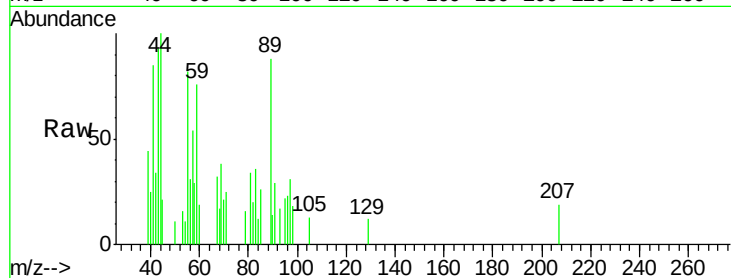


#11

Tert butyl alcohol
 Concen: 1.24 ug/l
 RT: 2.83 min Scan# 698
 Delta R.T. 0.01 min
 Lab File: VU024524.D
 Acq: 13 Jun 2018 21:37

Instrument :
 MSVOA_U
 ClientSampleId :
 SB-47(0-5)

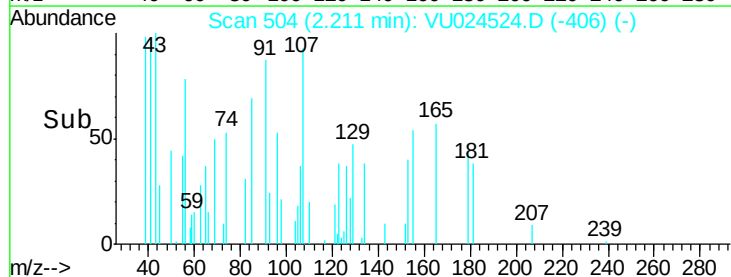
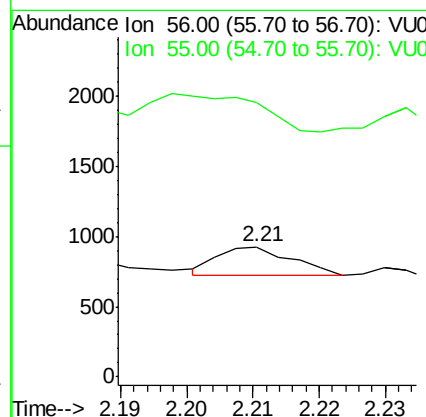
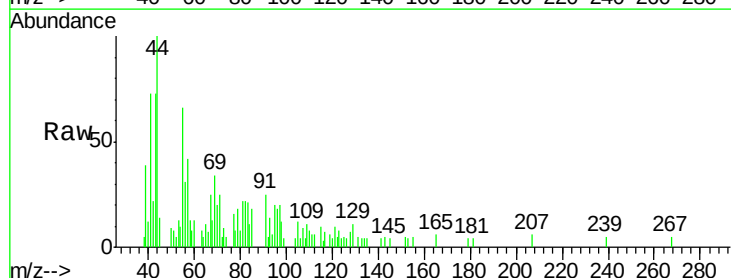
Tgt Ion: 59 Resp: 934
 Ion Ratio Lower Upper
 59 100
 57 24.7 8.5 12.7#

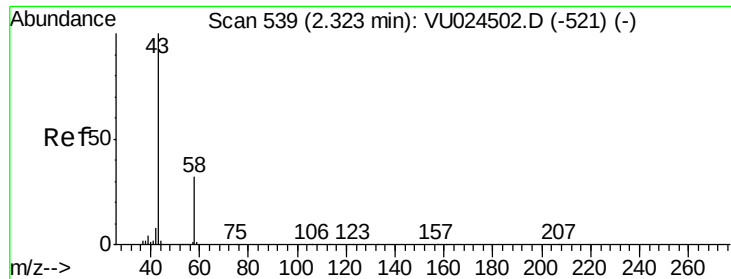


#13

Acrolein
 Concen: 0.41 ug/l
 RT: 2.21 min Scan# 504
 Delta R.T. 0.02 min
 Lab File: VU024524.D
 Acq: 13 Jun 2018 21:37

Tgt Ion: 56 Resp: 161
 Ion Ratio Lower Upper
 56 100
 55 0.0 58.4 87.6#





#16

Acetone

Concen: 10.59 ug/l

RT: 2.33 min Scan# 540

Delta R.T. 0.00 min

Lab File: VU024524.D

Acq: 13 Jun 2018 21:37

Instrument :

MSVOA_U

ClientSampleId :

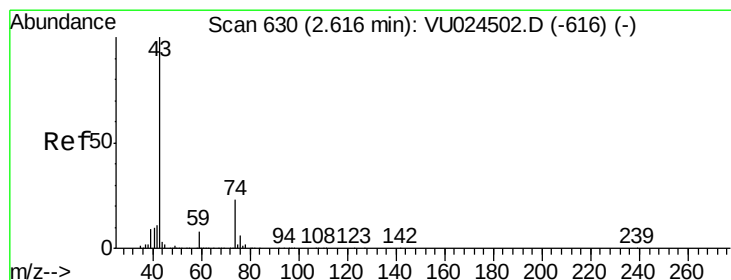
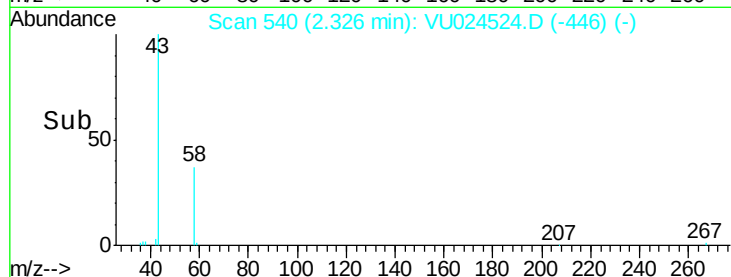
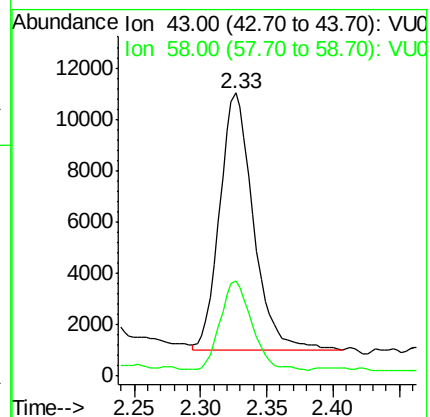
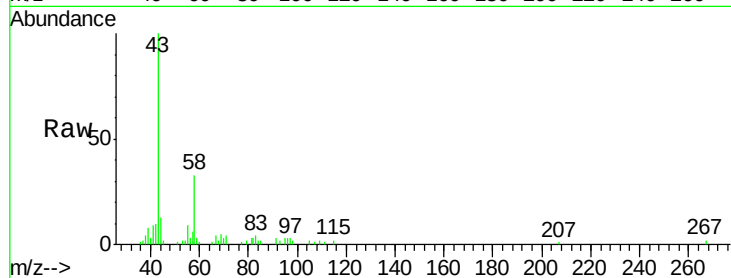
SB-47(0-5)

Tgt Ion: 43 Resp: 17604

Ion Ratio Lower Upper

43 100

58 34.1 24.4 36.6



#18

Methyl Acetate

Concen: 4.33 ug/l

RT: 2.62 min Scan# 632

Delta R.T. 0.01 min

Lab File: VU024524.D

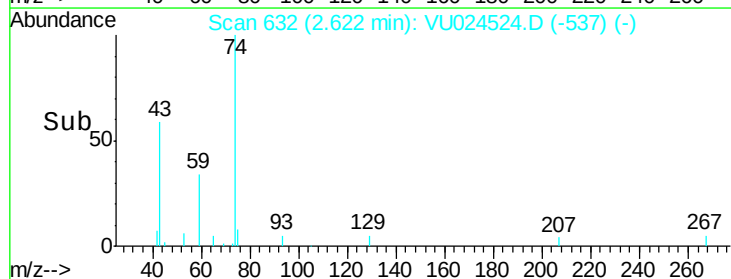
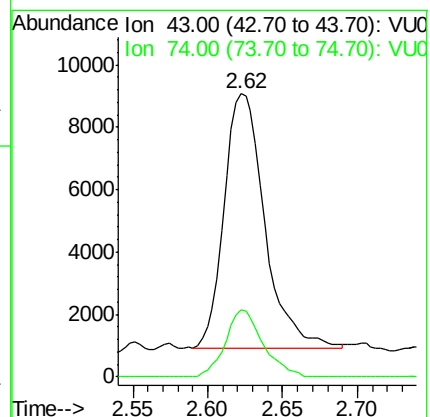
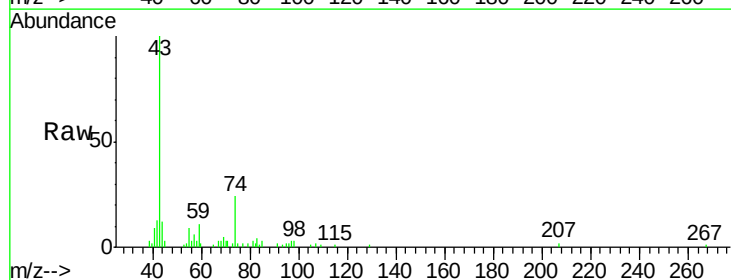
Acq: 13 Jun 2018 21:37

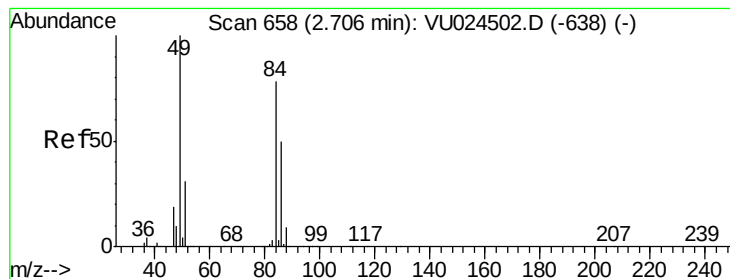
Tgt Ion: 43 Resp: 15431

Ion Ratio Lower Upper

43 100

74 24.3 18.0 27.0





#20

Methylene Chloride

Concen: 1.40 ug/l

RT: 2.71 min Scan# 659

Delta R.T. 0.00 min

Lab File: VU024524.D

Acq: 13 Jun 2018 21:37

Instrument :

MSVOA_U

ClientSampleId :

SB-47(0-5)

Tgt Ion: 84 Resp: 3640

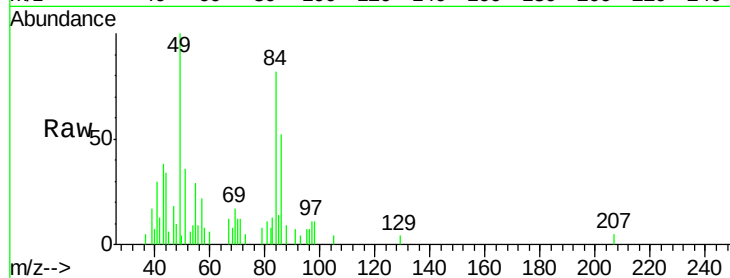
Ion Ratio Lower Upper

84 100

49 130.3 103.8 155.8

51 47.5 32.0 48.0

86 67.8 51.6 77.4

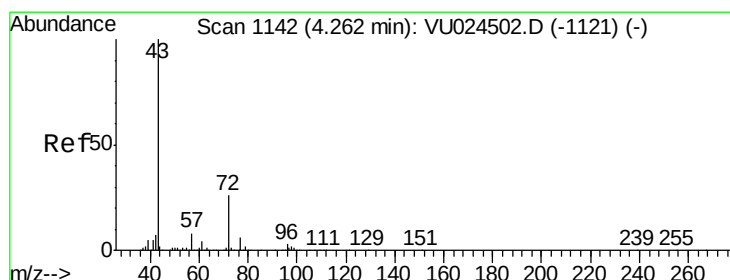
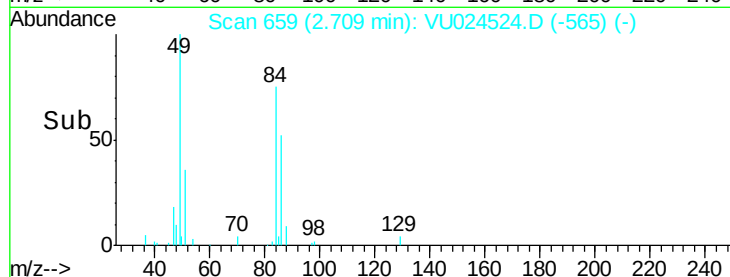
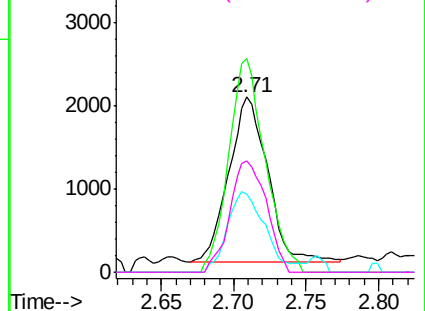


Abundance Ion 83.90 (83.60 to 84.60): VU0

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: 1.46 ug/l

RT: 4.29 min Scan# 1150

Delta R.T. 0.03 min

Lab File: VU024524.D

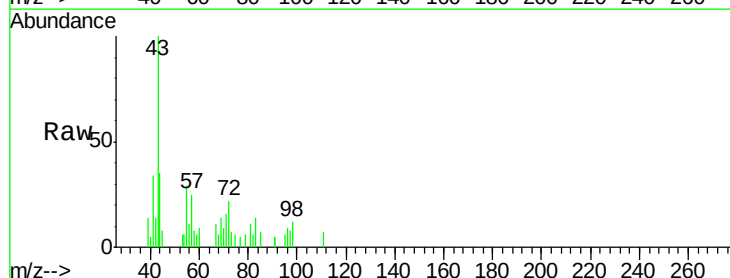
Acq: 13 Jun 2018 21:37

Tgt Ion: 43 Resp: 3255

Ion Ratio Lower Upper

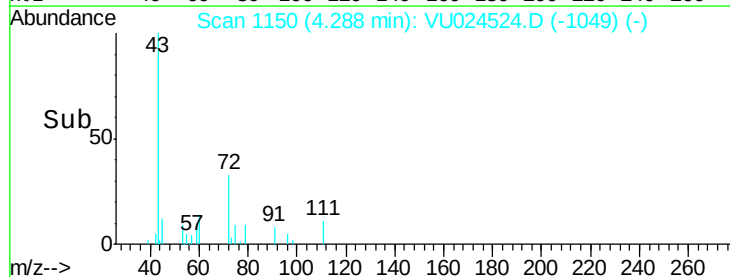
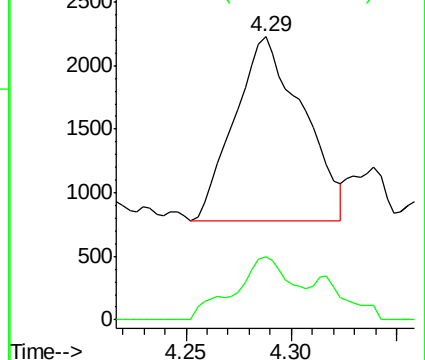
43 100

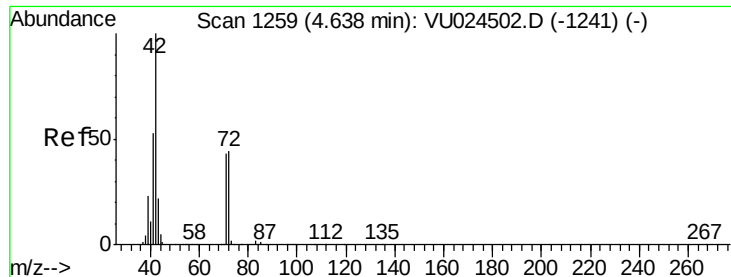
72 34.6 19.6 29.4#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0





#29

Tetrahydrofuran

Concen: 0.62 ug/l

RT: 4.66 min Scan# 1265

Delta R.T. 0.02 min

Lab File: VU024524.D

Acq: 13 Jun 2018 21:37

Instrument :

MSVOA_U

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SB-47(0-5)

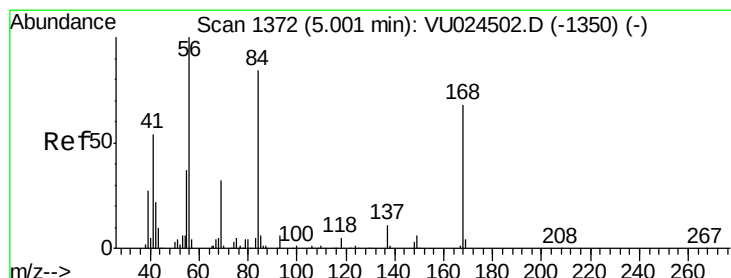
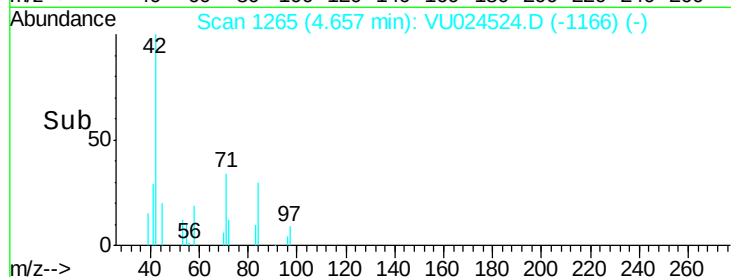
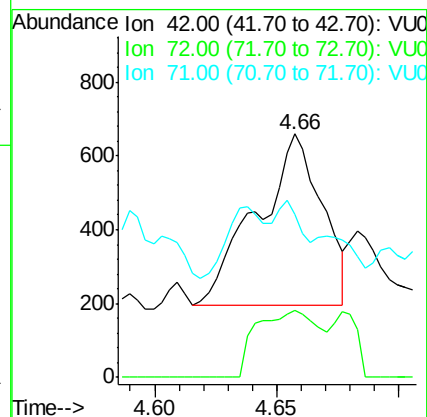
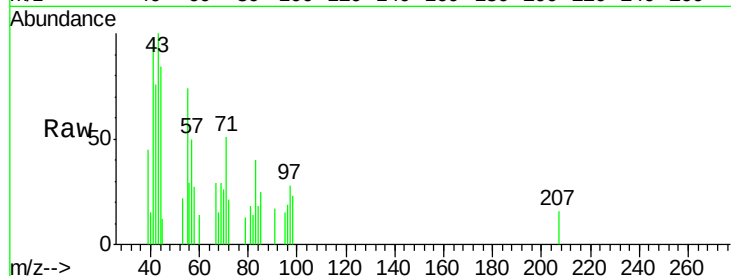
Tgt Ion: 42 Resp: 859

Ion Ratio Lower Upper

42 100

72 37.4 34.5 51.7

71 8.7 32.2 48.4#



#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1369

Delta R.T. -0.01 min

Lab File: VU024524.D

Acq: 13 Jun 2018 21:37

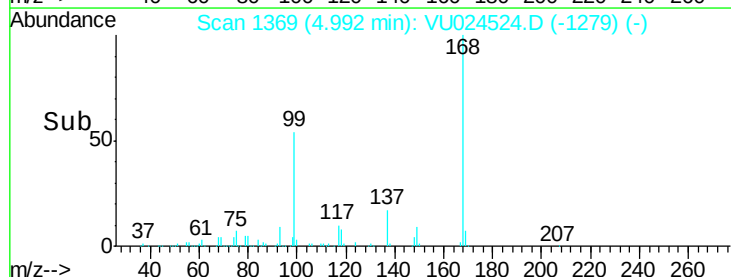
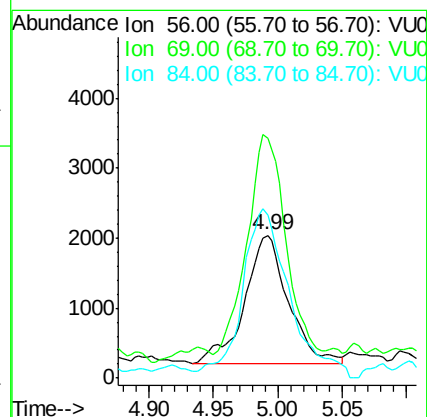
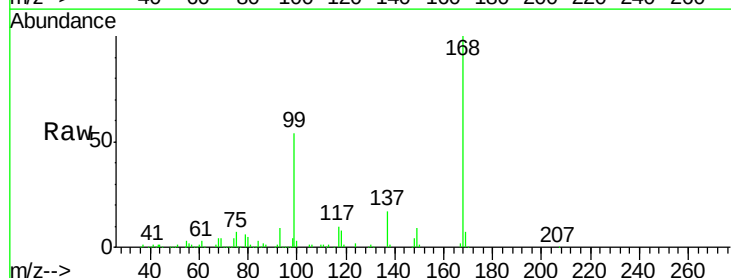
Tgt Ion: 56 Resp: 4315

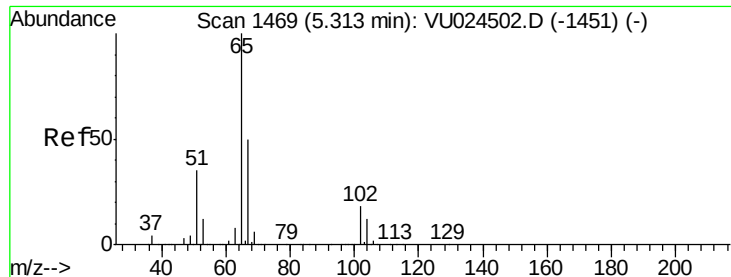
Ion Ratio Lower Upper

56 100

69 167.9 24.8 37.2#

84 121.6 65.2 97.8#

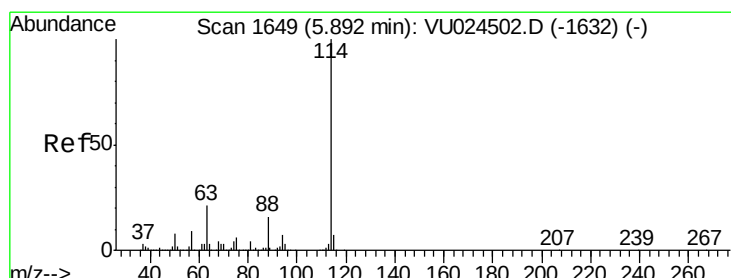
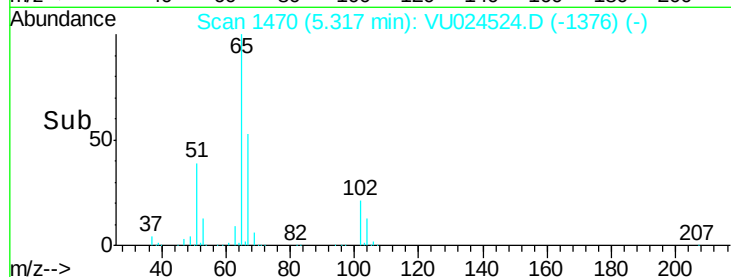
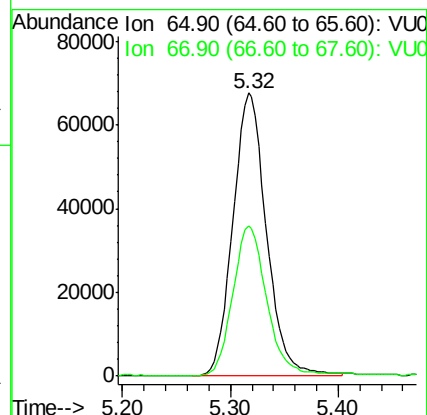
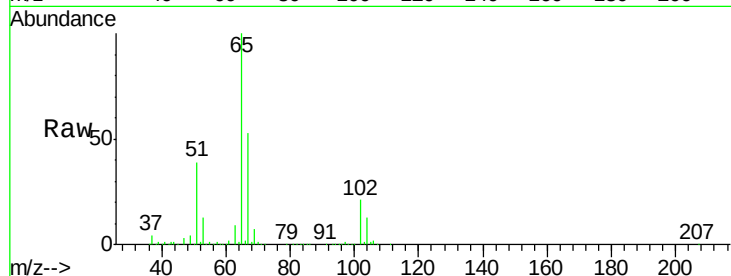




#33
 1,2-Dichloroethane-d4
 Concen: 47.47 ug/l
 RT: 5.32 min Scan# 1470
 Delta R.T. 0.00 min
 Lab File: VU024524.D
 Acq: 13 Jun 2018 21:37

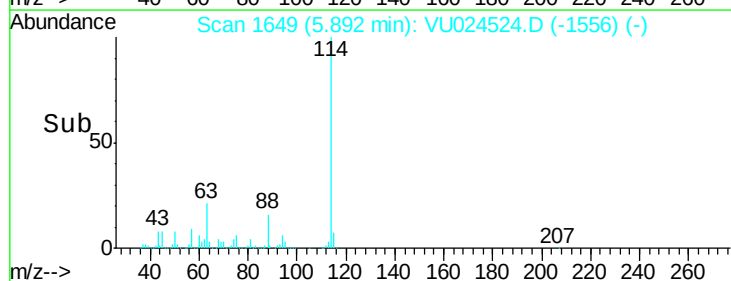
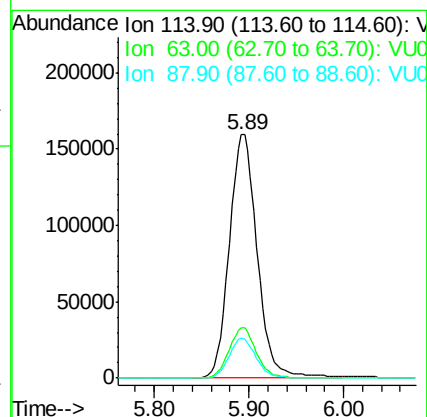
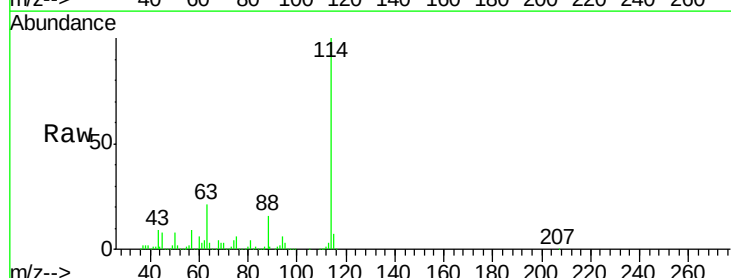
Instrument :
 MSVOA_U
 ClientSampleId :
 SB-47(0-5)

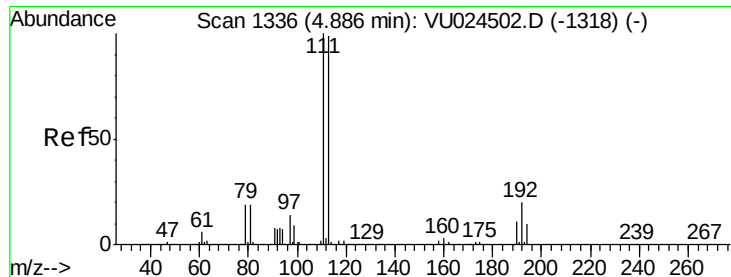
Tgt Ion: 65 Resp: 146859
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. -0.00 min
 Lab File: VU024524.D
 Acq: 13 Jun 2018 21:37

Tgt Ion: 114 Resp: 326976
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 45.4
 88 16.3 0.0 31.0

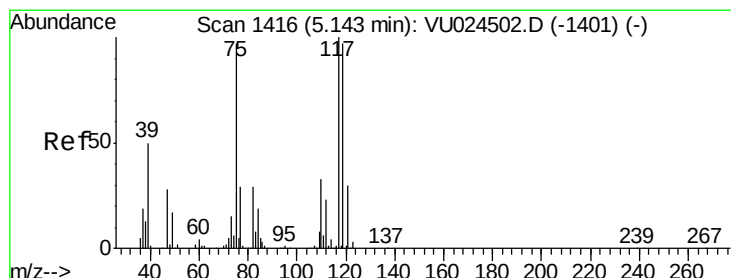
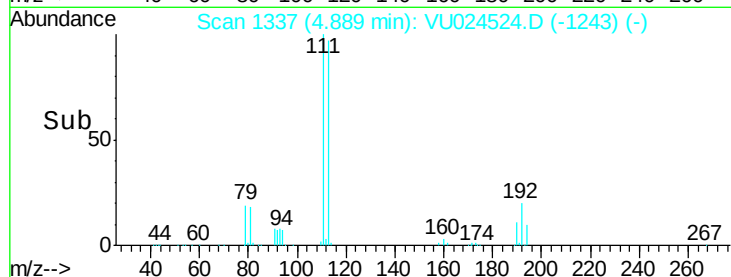
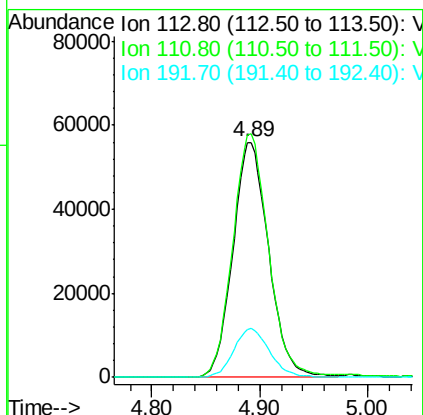
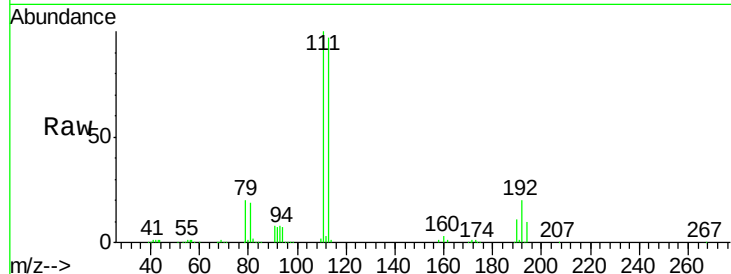




#35
 Dibromofluoromethane
 Concen: 47.67 ug/l
 RT: 4.89 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VU024524.D
 Acq: 13 Jun 2018 21:37

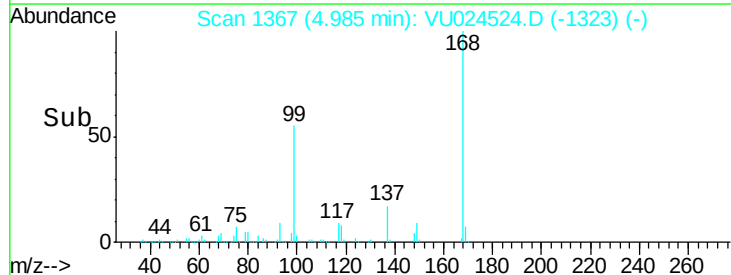
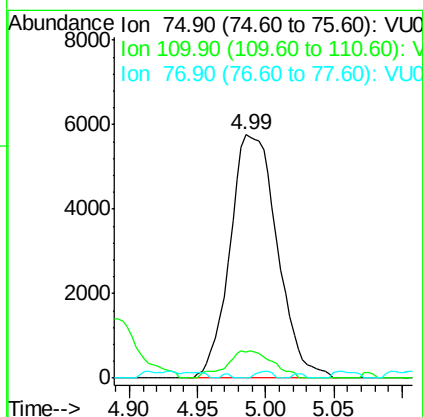
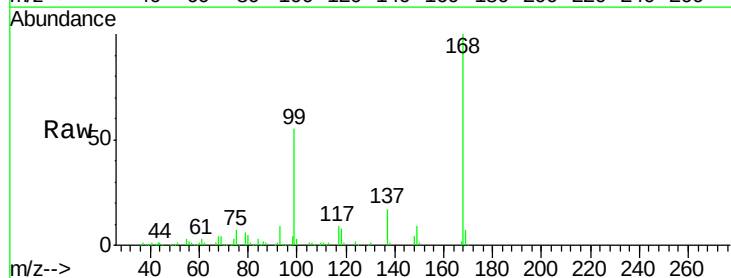
Instrument :
 MSVOA_U
 ClientSampleId :
 SB-47(0-5)

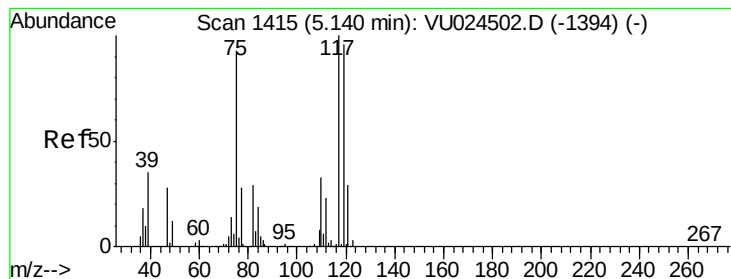
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.2	123.4
192	20.9	16.2	24.4



#36
 1,1-Dichloropropene
 Concen: 3.61 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.16 min
 Lab File: VU024524.D
 Acq: 13 Jun 2018 21:37

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.0	17.0	50.9#
77	0.3	24.2	36.4#





#38

Carbon Tetrachloride

Concen: 4.25 ug/l

RT: 4.99 min Scan# 1369

Delta R.T. -0.15 min

Lab File: VU024524.D

Acq: 13 Jun 2018 21:37

Instrument :

MSVOA_U

ClientSampled :

SB-47(0-5)

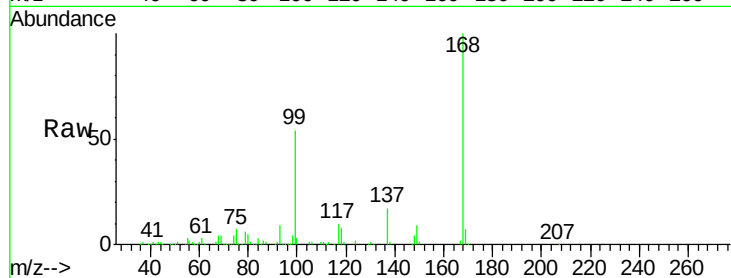
Tgt Ion:117 Resp: 17937

Ion Ratio Lower Upper

117 100

119 5.7 76.1 114.1#

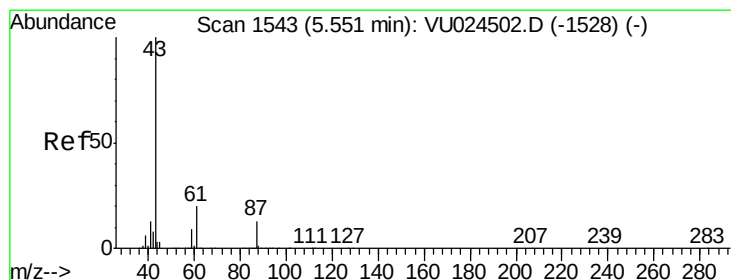
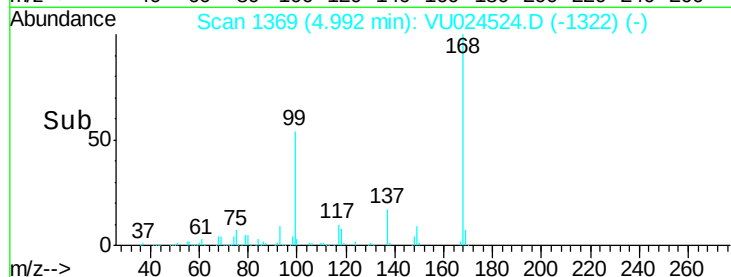
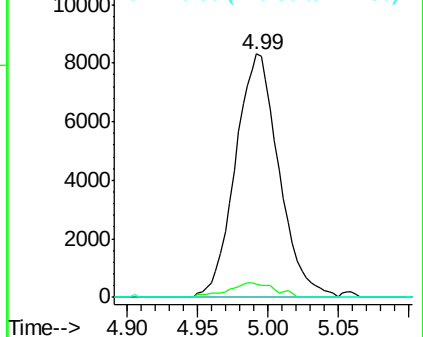
121 0.0 23.7 35.5#



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: 5.61 ug/l

RT: 5.79 min Scan# 1618

Delta R.T. 0.24 min

Lab File: VU024524.D

Acq: 13 Jun 2018 21:37

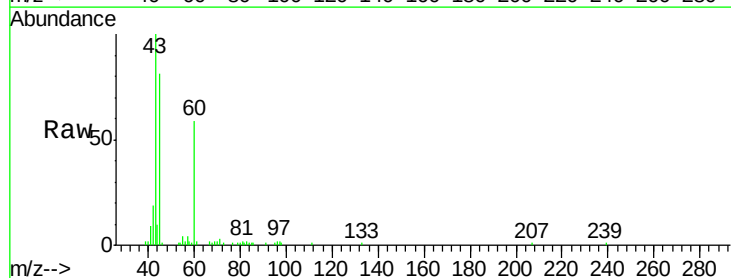
Tgt Ion: 43 Resp: 40591

Ion Ratio Lower Upper

43 100

61 0.4 15.4 23.0#

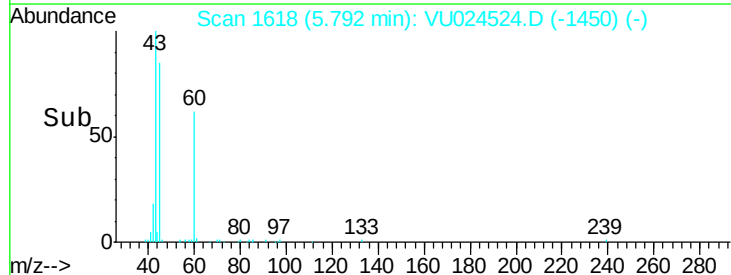
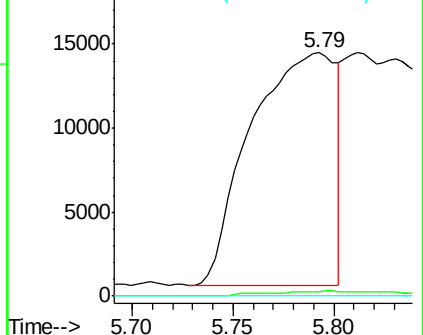
87 0.0 10.0 15.0#

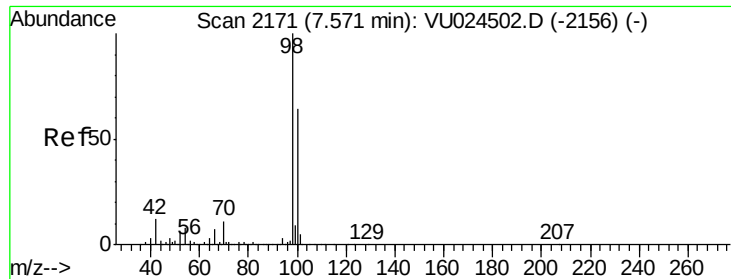


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

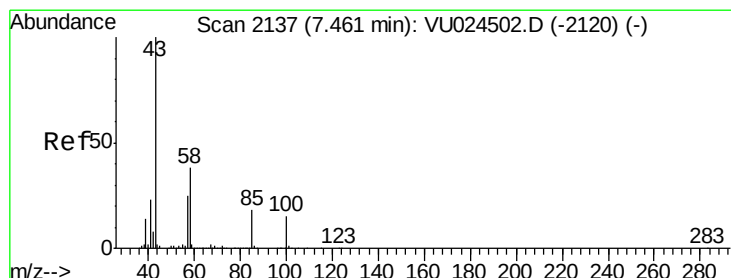
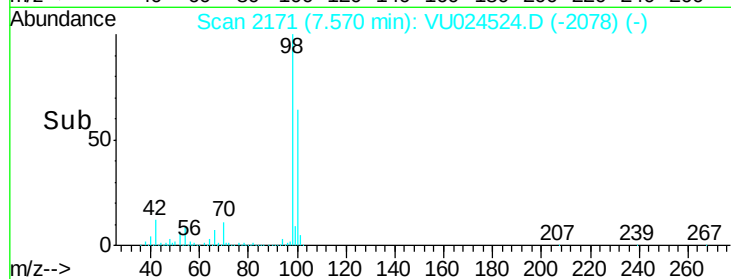
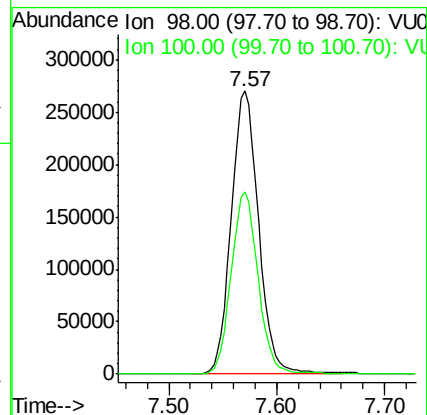
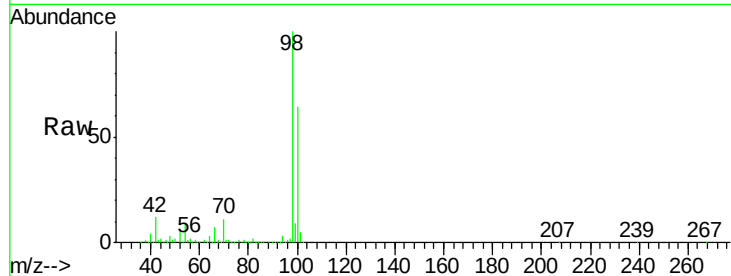




#50
Toluene-d8
Concen: 48.20 ug/l
RT: 7.57 min Scan# 2171
Delta R.T. -0.00 min
Lab File: VU024524.D
Acq: 13 Jun 2018 21:37

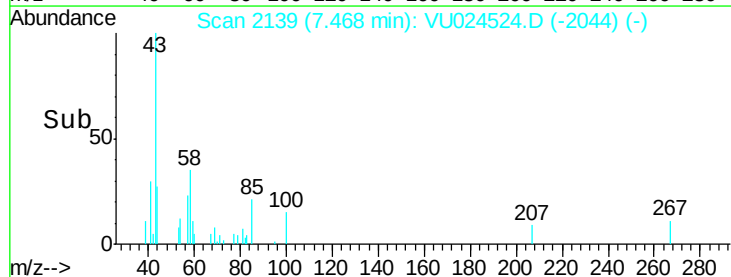
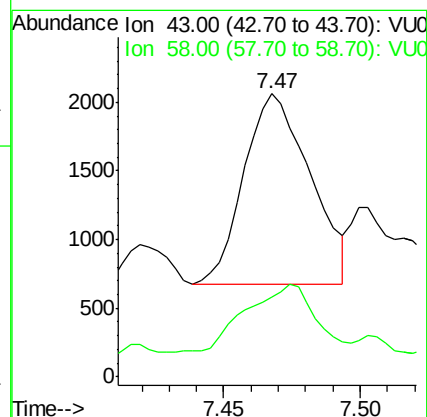
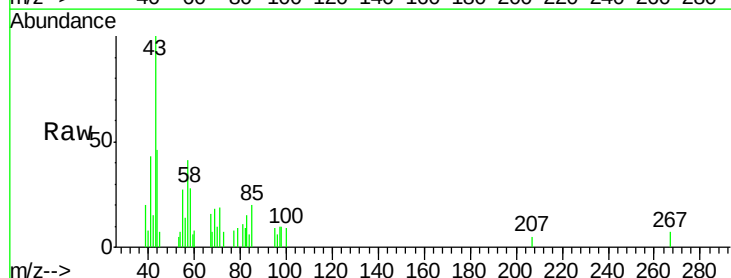
Instrument :
MSVOA_U
ClientSampleId :
SB-47(0-5)

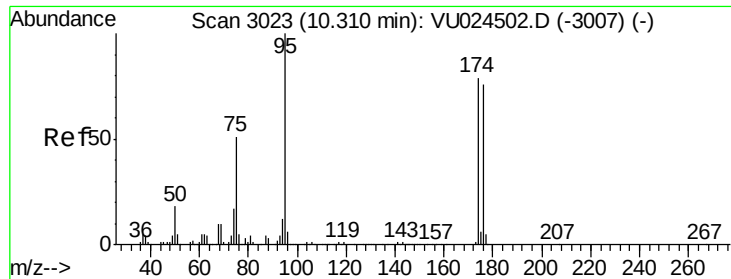
Tgt Ion: 98 Resp: 477086
Ion Ratio Lower Upper
98 100
100 63.5 51.1 76.7



#51
4-Methyl-2-Pentanone
Concen: 0.52 ug/l
RT: 7.47 min Scan# 2139
Delta R.T. 0.01 min
Lab File: VU024524.D
Acq: 13 Jun 2018 21:37

Tgt Ion: 43 Resp: 2343
Ion Ratio Lower Upper
43 100
58 43.0 30.0 45.0





#62

4-Bromofluorobenzene

Concen: 48.36 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.00 min

Lab File: VU024524.D

Acq: 13 Jun 2018 21:37

Instrument :

MSVOA_U

ClientSampleId :

SB-47(0-5)

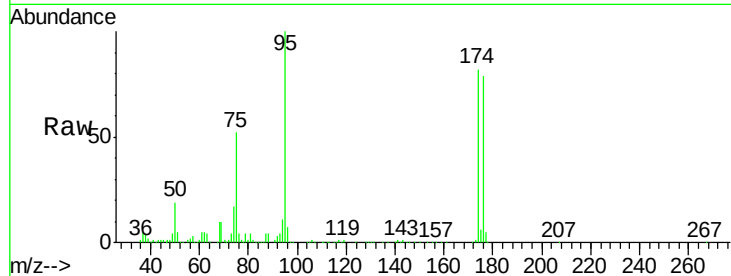
Tgt Ion: 95 Resp: 190046

Ion Ratio Lower Upper

95 100

174 82.6 0.0 165.8

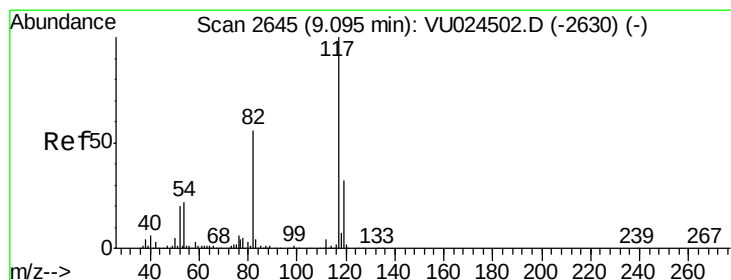
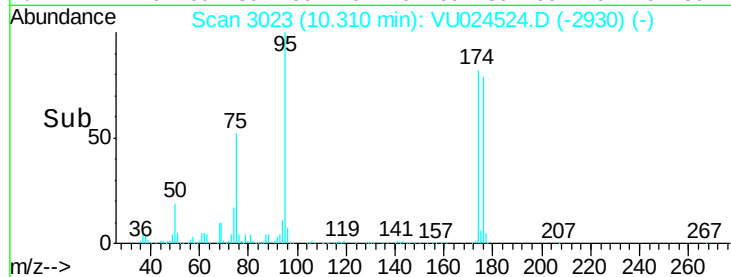
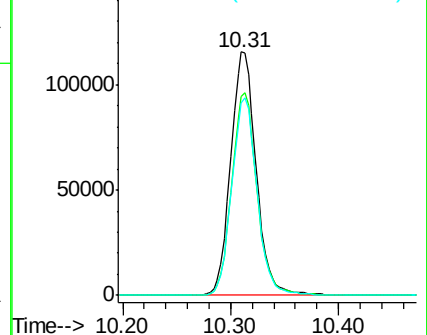
176 80.8 0.0 159.4



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: VU024524.D

Acq: 13 Jun 2018 21:37

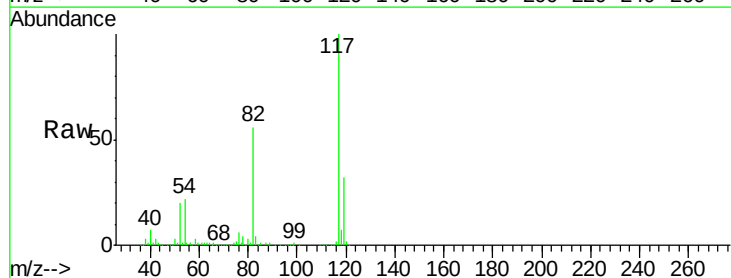
Tgt Ion: 117 Resp: 314817

Ion Ratio Lower Upper

117 100

82 55.5 44.3 66.5

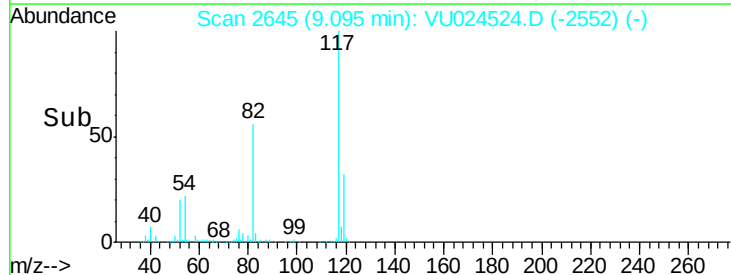
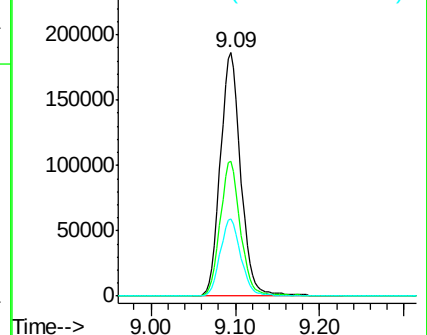
119 31.6 25.4 38.2

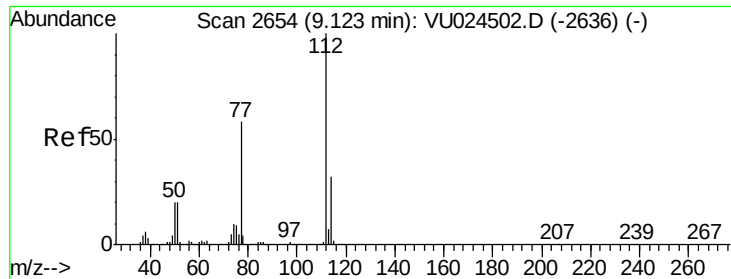


Abundance Ion 116.90 (116.60 to 117.60): VU024502.D (-2630) (-)

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

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

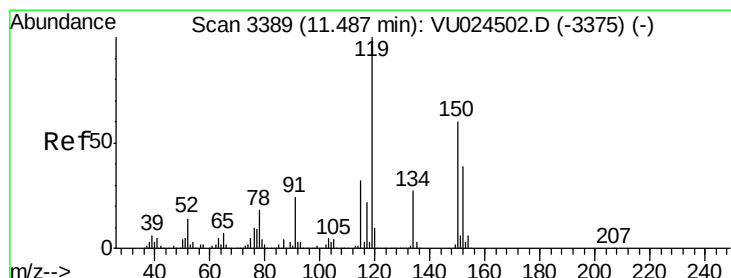
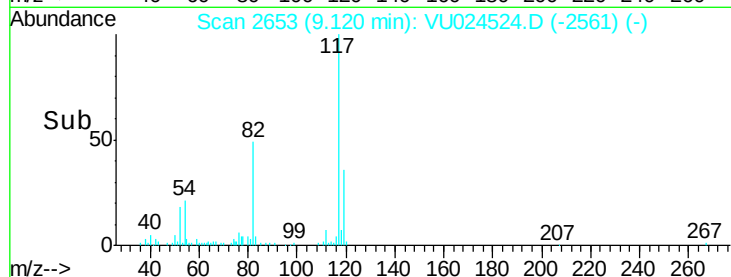
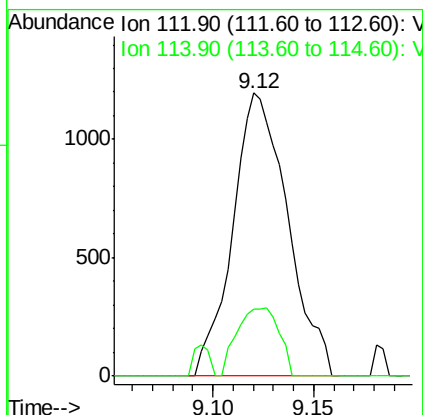
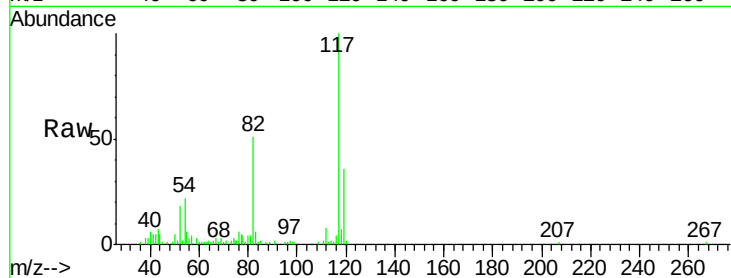




#65
Chlorobenzene
Concen: 0.28 ug/l
RT: 9.12 min Scan# 2653
Delta R.T. -0.00 min
Lab File: VU024524.D
Acq: 13 Jun 2018 21:37

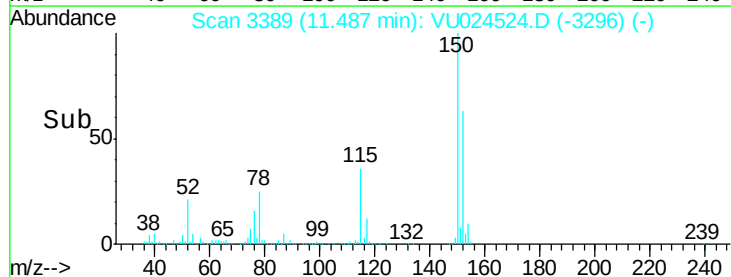
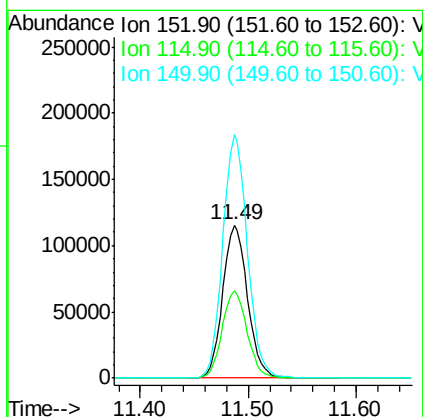
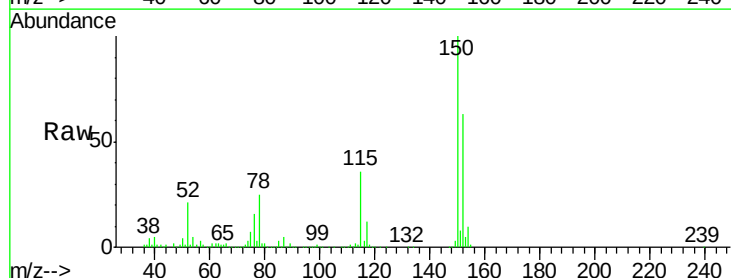
Instrument :
MSVOA_U
ClientSampleId :
SB-47(0-5)

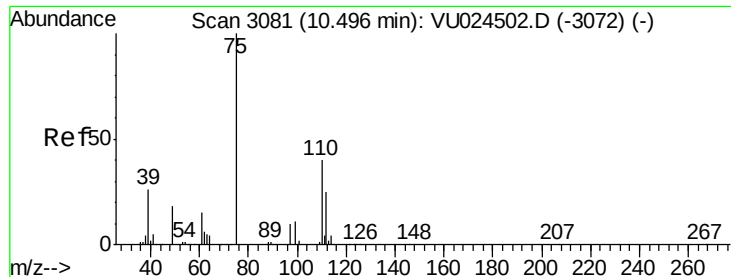
Tgt Ion:112 Resp: 2279
Ion Ratio Lower Upper
112 100
114 23.6 25.6 38.4#



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. -0.00 min
Lab File: VU024524.D
Acq: 13 Jun 2018 21:37

Tgt Ion:152 Resp: 185120
Ion Ratio Lower Upper
152 100
115 57.4 43.0 129.0
150 157.5 0.0 354.0





#76

1,2,3-Trichloropropane

Concen: 23.74 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024524.D

Acq: 13 Jun 2018 21:37

Instrument :

MSVOA_U

ClientSampleId :

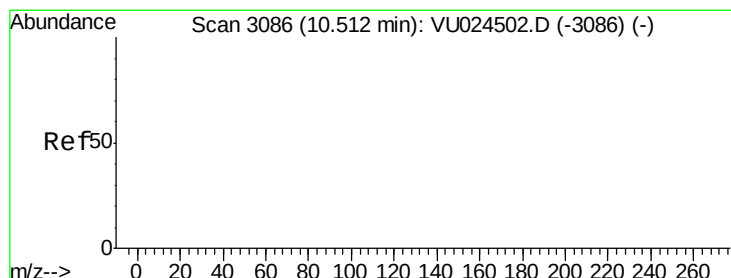
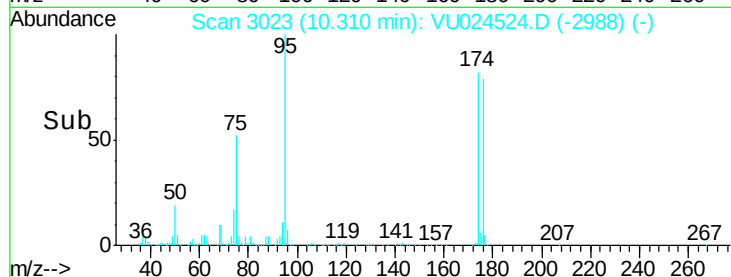
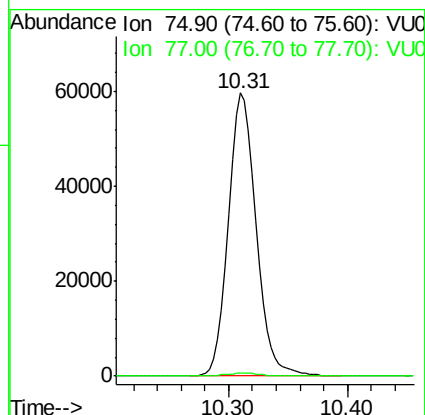
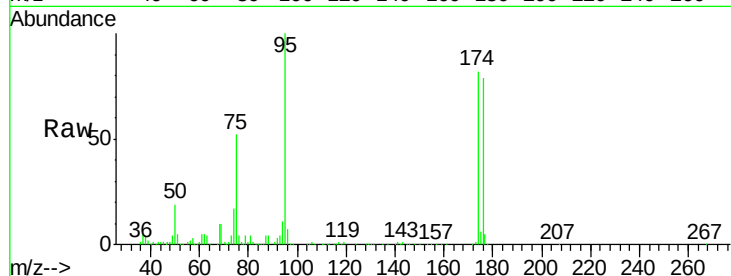
SB-47(0-5)

Tgt Ion: 75 Resp: 96750

Ion Ratio Lower Upper

75 100

77 1.4 20.9 62.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 54.94 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024524.D

Acq: 13 Jun 2018 21:37

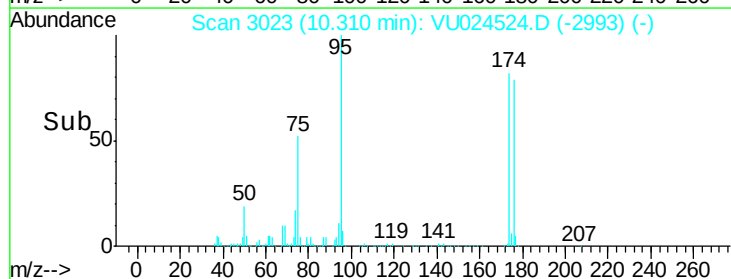
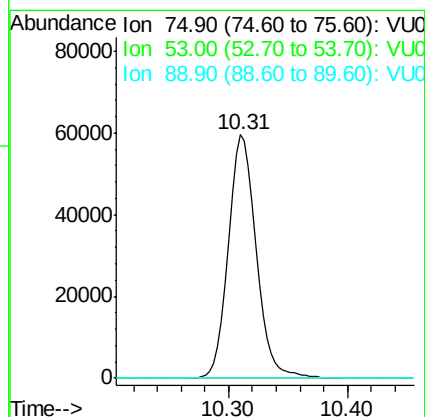
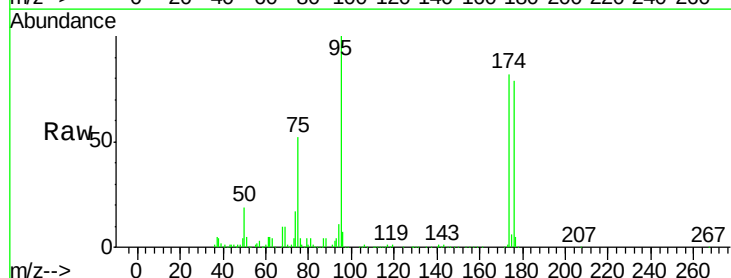
Tgt Ion: 75 Resp: 96750

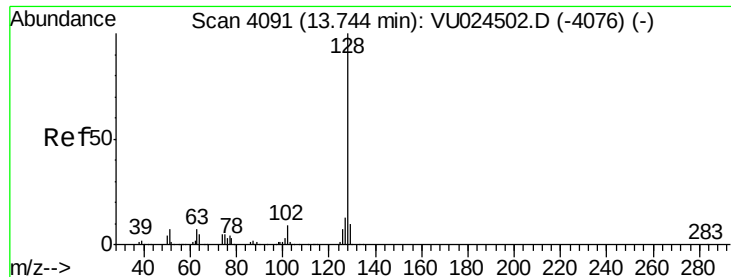
Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

89 0.0 0.0 0.0





#95

Naphthalene

Concen: 0.70 ug/l

RT: 13.76 min Scan# 4095

Delta R.T. 0.01 min

Lab File: VU024524.D

Acq: 13 Jun 2018 21:37

Instrument :

MSVOA_U

ClientSampleId :

SB-47(0-5)

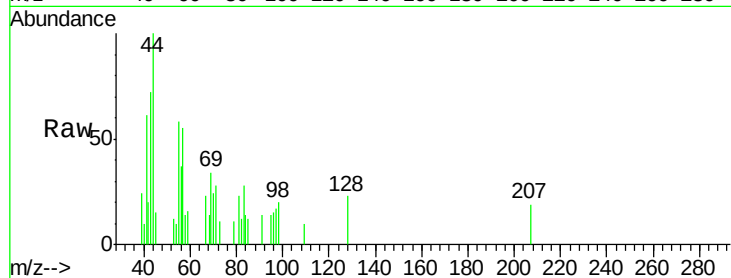
Tgt Ion:128 Resp: 334

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

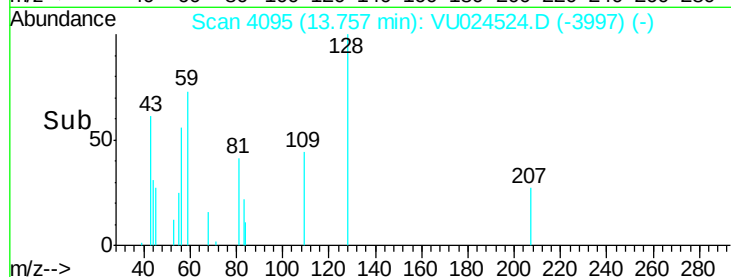
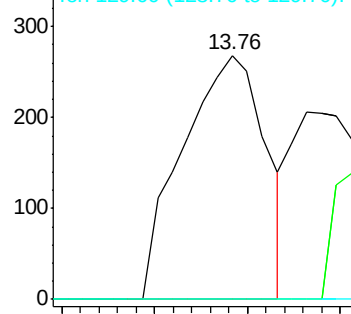
129 0.0 8.6 12.8#



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



Time-->