

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062518\
 Data File : VU024884.D
 Acq On : 25 Jun 2018 18:58
 Operator : MD/SY
 Sample : J3664-01ME
 Misc : 6.02g/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jun 26 05:17:14 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	4.98	168	209098	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	324871	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	316717	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	184428	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	154908	45.38	ug/l	0.00
Spiked Amount			Recovery	=	90.76%	
35) Dibromofluoromethane	4.88	113	123700	45.88	ug/l	0.00
Spiked Amount			Recovery	=	91.76%	
50) Toluene-d8	7.57	98	468741	47.66	ug/l	0.00
Spiked Amount			Recovery	=	95.32%	
62) 4-Bromofluorobenzene	10.31	95	197249	50.52	ug/l	0.00
Spiked Amount			Recovery	=	101.04%	

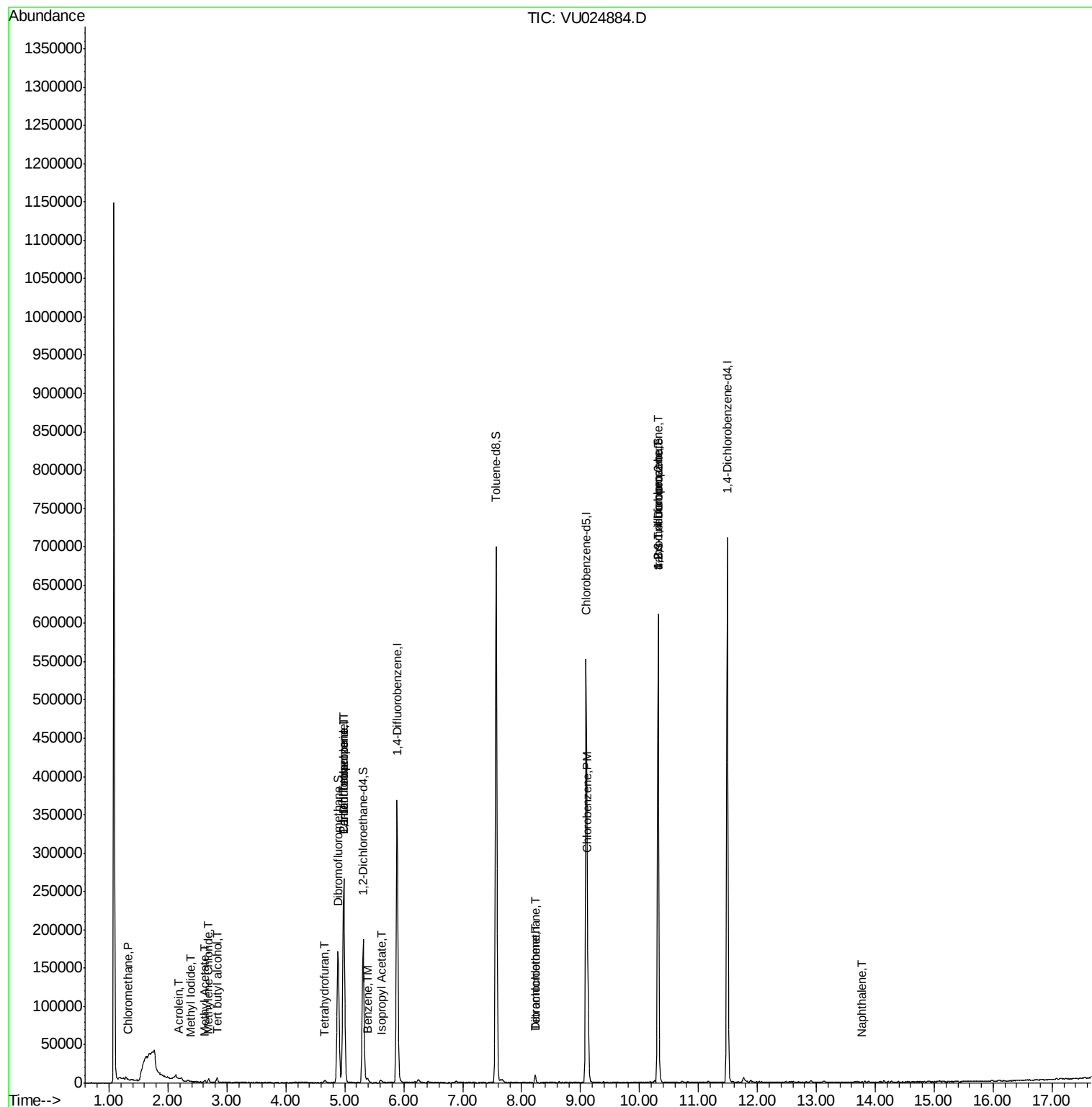
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1279	0.48	ug/l	95
6) Chloroethane	1.68	64	109	Below Cal	#	16
8) Diethyl Ether	1.84	74	149	Below Cal		100
10) Methyl Iodide	2.39	142	241	5.39	ug/l	# 50
11) Tert butyl alcohol	2.84	59	3325	4.01	ug/l	# 76
13) Acrolein	2.19	56	181	0.42	ug/l	# 52
18) Methyl Acetate	2.62	43	2836	0.72	ug/l	# 73
20) Methylene Chloride	2.69	84	1928	0.67	ug/l	97
29) Tetrahydrofuran	4.66	42	1782	1.17	ug/l	# 81
31) Cyclohexane	4.98	56	4656	Below Cal	#	8
36) 1,1-Dichloropropene	4.98	75	15273	4.00	ug/l	# 47
38) Carbon Tetrachloride	4.98	117	19665	4.68	ug/l	# 16
40) Benzene	5.39	78	5547	0.51	ug/l	98
43) Isopropyl Acetate	5.62	43	1866	0.26	ug/l	# 62
60) Dibromochloromethane	8.23	129	2258	0.64	ug/l	# 11
64) Tetrachloroethene	8.23	164	2447	0.81	ug/l	90
65) Chlorobenzene	9.12	112	66389	8.21	ug/l	99
76) 1,2,3-Trichloropropane	10.31	75	102020	25.13	ug/l	# 35
81) trans-1,4-Dichloro-2-buten	10.31	75	102020	58.15	ug/l	# 100
95) Naphthalene	13.77	128	413	0.71	ug/l	# 69

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.98 min Scan# 1366

Delta R.T. -0.01 min

Lab File: VU024884.D

Acq: 25 Jun 2018 18:58

Instrument :

MSVOA_U

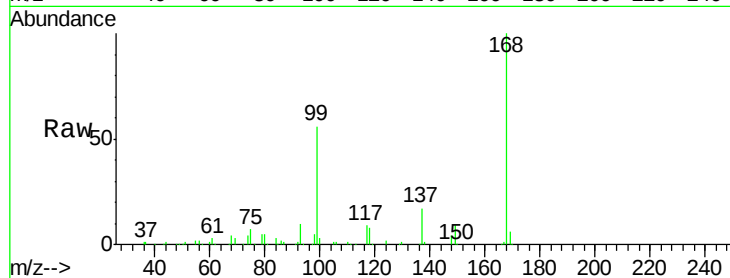
ClientSampleId :

Tot Ion:168 Resp: 209098

Ion Ratio Lower Upper

168 100

99 56.1 43.2 64.8



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

Ion 98.90 (98.60 to 99.60): VU024502.D (-1351) (-)

4.98

100000

80000

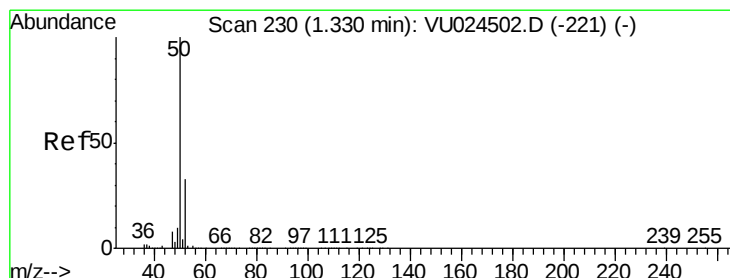
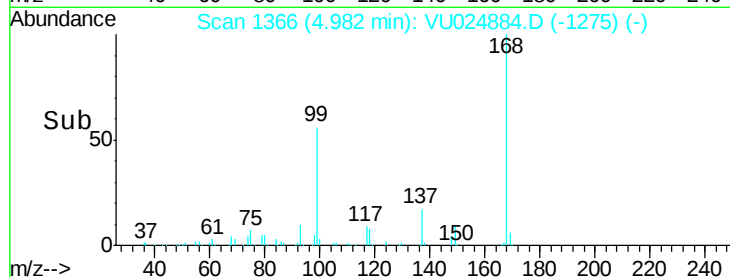
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.48 ug/l

RT: 1.32 min Scan# 227

Delta R.T. -0.01 min

Lab File: VU024884.D

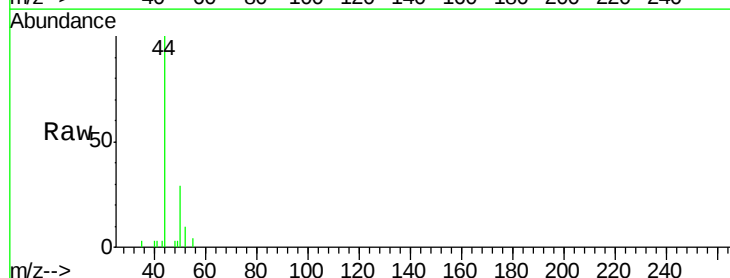
Acq: 25 Jun 2018 18:58

Tgt Ion: 50 Resp: 1279

Ion Ratio Lower Upper

50 100

52 35.7 26.4 39.6



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

Ion 51.90 (51.60 to 52.60): VU024502.D (-221) (-)

1.32

1200

1000

800

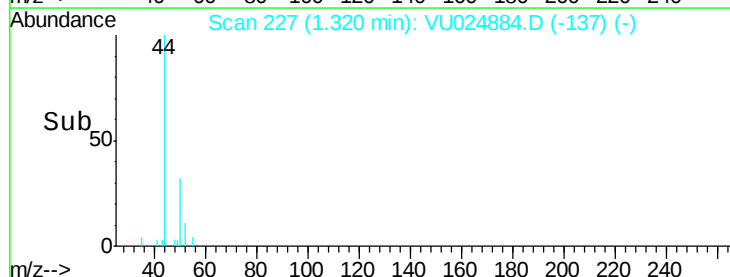
600

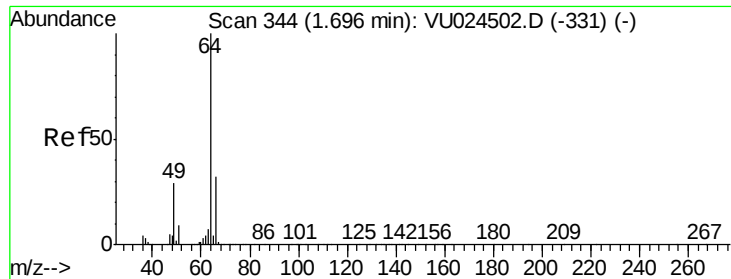
400

200

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 338

Delta R.T. -0.02 min

Lab File: VU024884.D

Acq: 25 Jun 2018 18:58

Instrument :

MSVOA_U

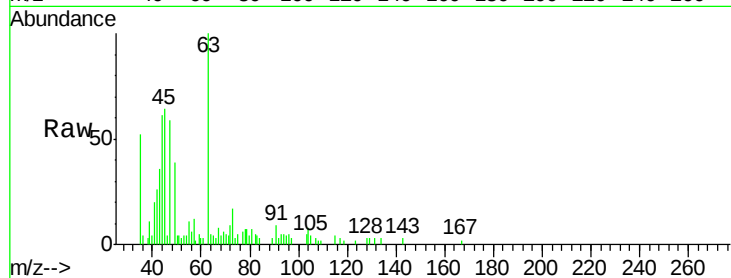
ClientSampled :

Tot Ion: 64 Resp: 109

Ion Ratio Lower Upper

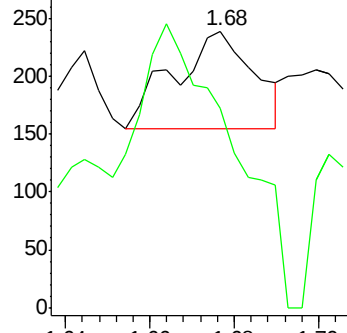
64 100

66 78.6 25.5 38.3#

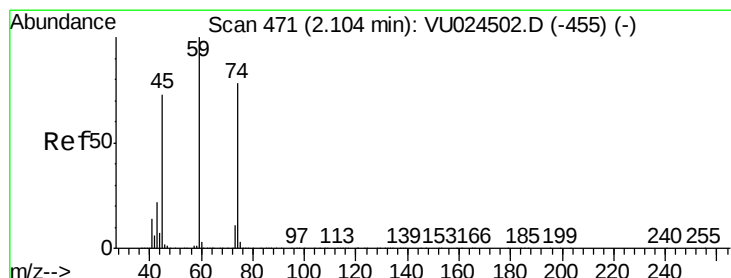
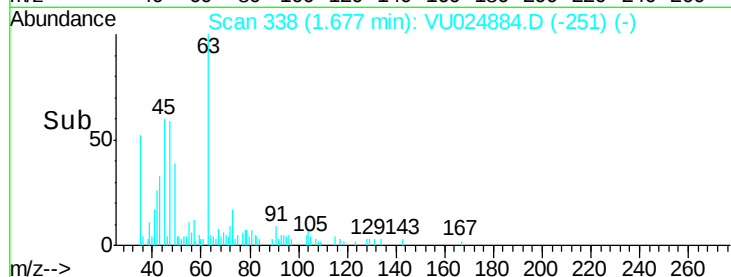


Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0



Time-->



#8

Diethyl Ether

Concen: Below Cal

RT: 1.84 min Scan# 388

Delta R.T. -0.27 min

Lab File: VU024884.D

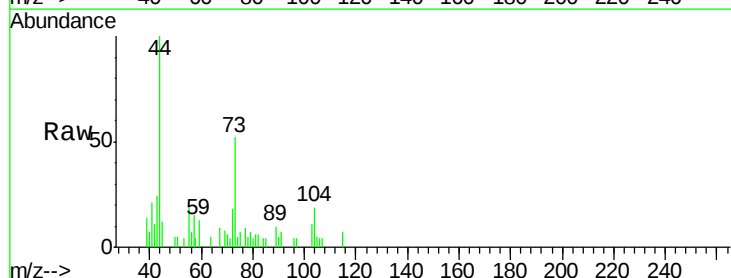
Acq: 25 Jun 2018 18:58

Tgt Ion: 74 Resp: 149

Ion Ratio Lower Upper

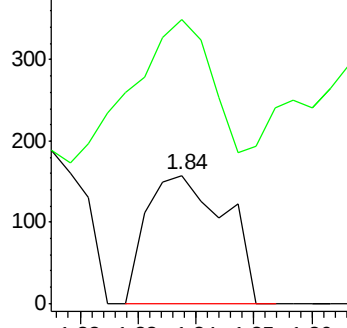
74 100

45 110.1 55.0 165.0

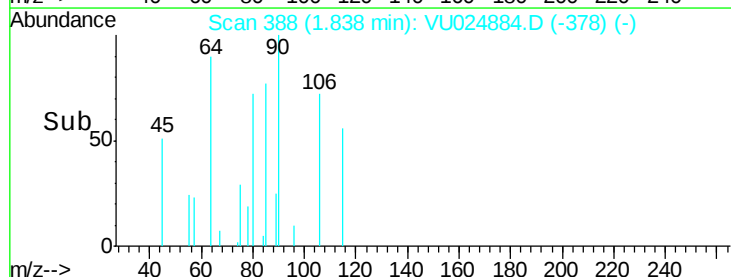


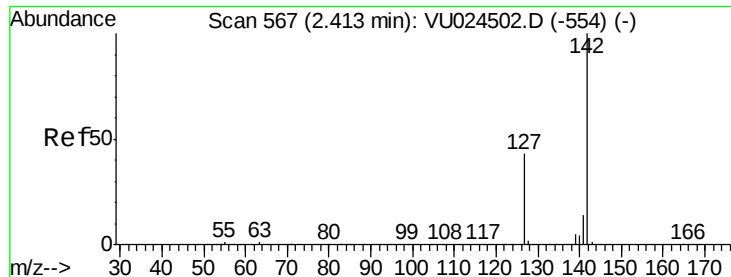
Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0



Time-->

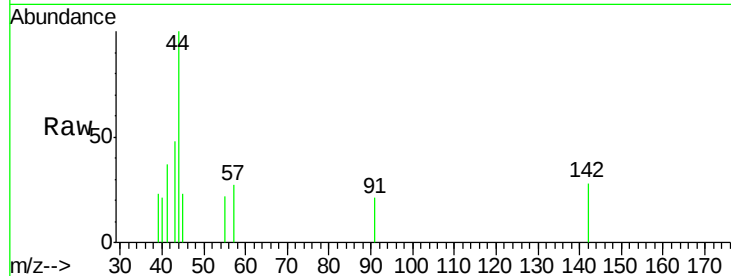




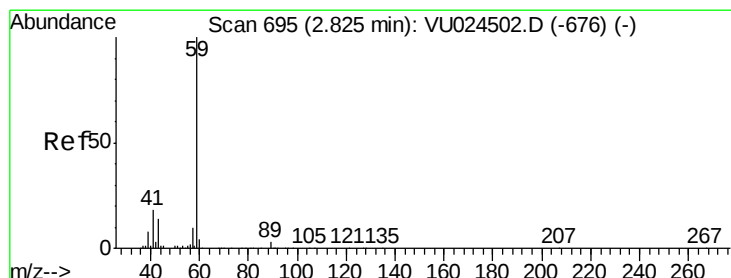
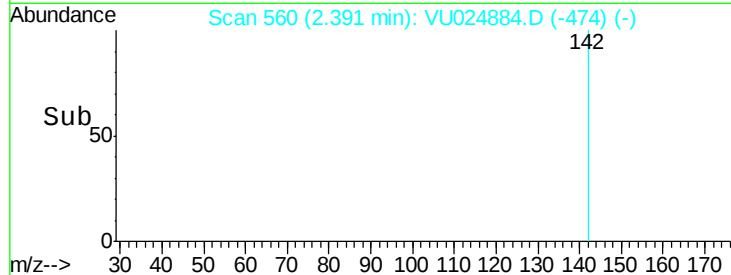
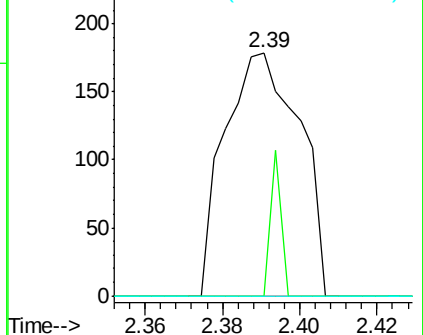
#10
Methvl Iodide
Concen: 5.39 ug/l
RT: 2.39 min Scan# 560
Delta R.T. -0.02 min
Lab File: VU024884.D
Acq: 25 Jun 2018 18:58

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:142 Resp: 241
Ion Ratio Lower Upper
142 100
127 8.7 35.6 53.4#
141 0.0 11.7 17.5#

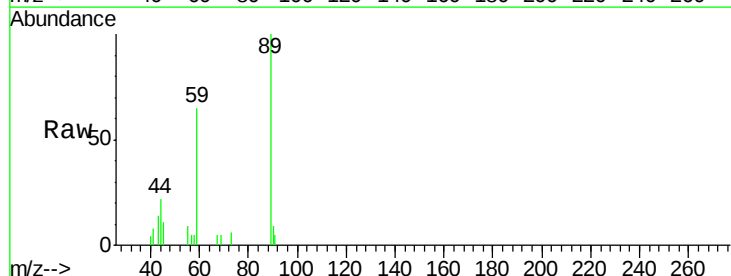


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

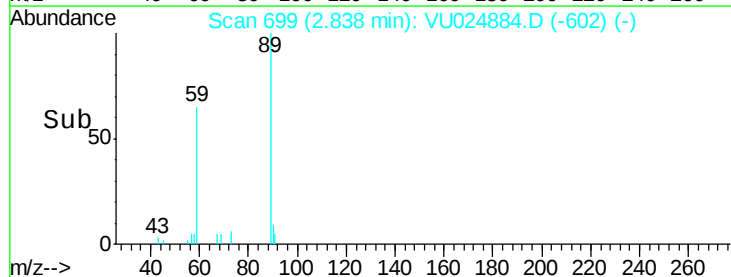
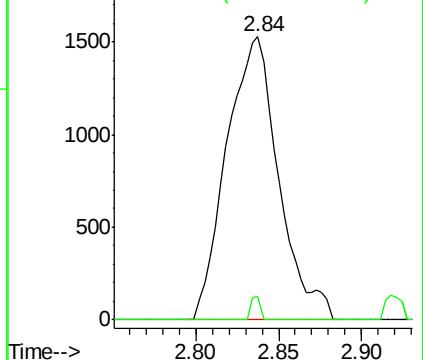


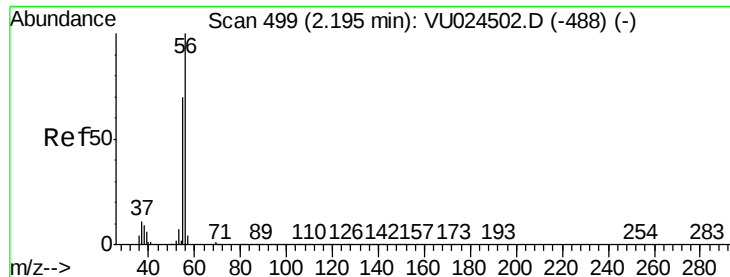
#11
Tert butyl alcohol
Concen: 4.01 ug/l
RT: 2.84 min Scan# 699
Delta R.T. 0.01 min
Lab File: VU024884.D
Acq: 25 Jun 2018 18:58

Tgt Ion: 59 Resp: 3325
Ion Ratio Lower Upper
59 100
57 1.4 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VU0
Ion 57.00 (56.70 to 57.70): VU0





#13

Acrolein

Concen: 0.42 ug/l

RT: 2.19 min Scan# 498

Delta R.T. -0.00 min

Lab File: VU024884.D

Acq: 25 Jun 2018 18:58

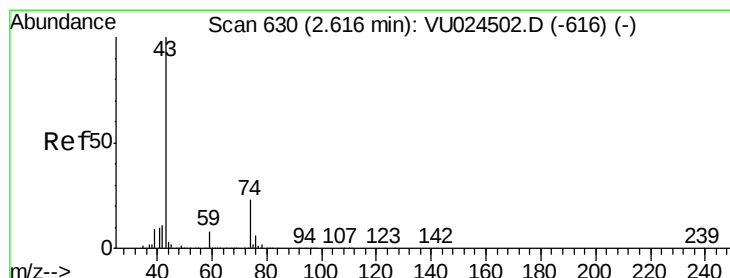
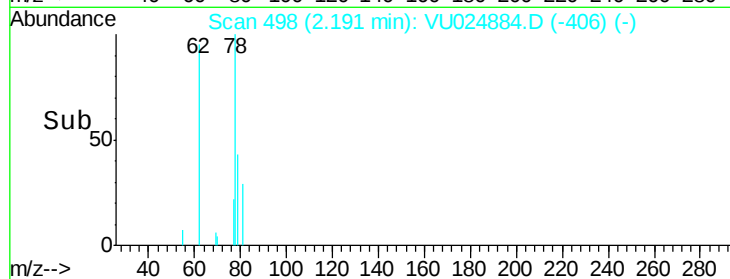
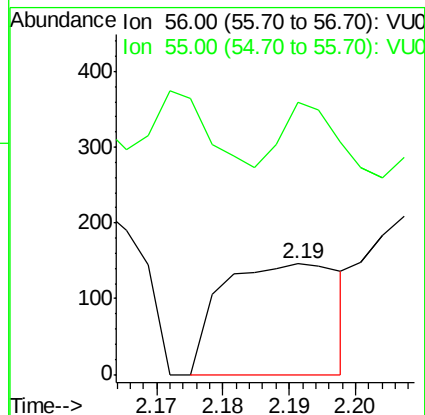
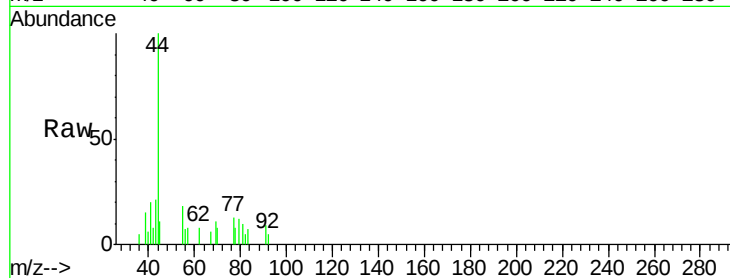
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 181

Ion Ratio Lower Upper

56 100

55 32.6 58.4 87.6#



#18

Methyl Acetate

Concen: 0.72 ug/l

RT: 2.62 min Scan# 632

Delta R.T. 0.01 min

Lab File: VU024884.D

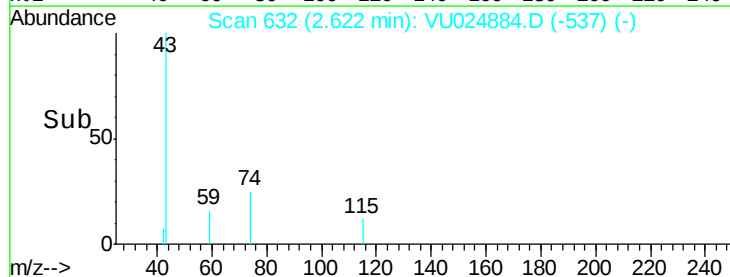
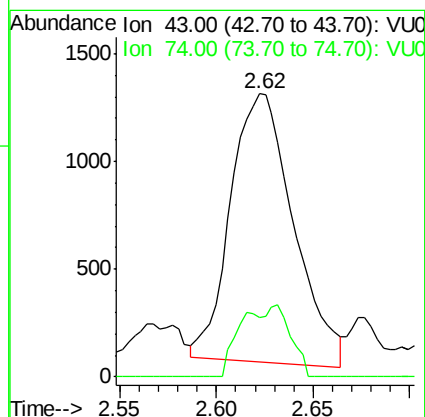
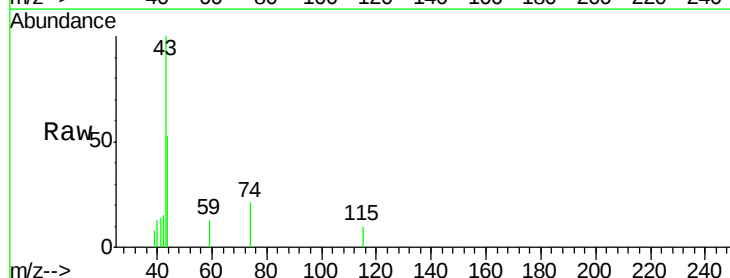
Acq: 25 Jun 2018 18:58

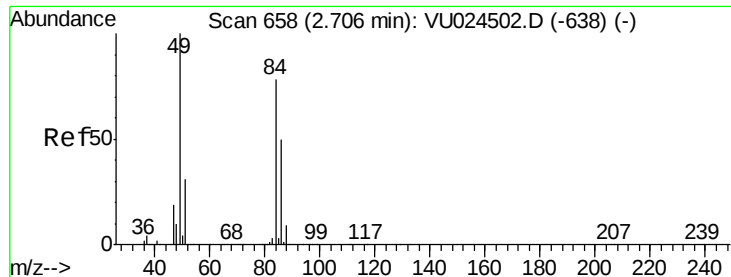
Tgt Ion: 43 Resp: 2836

Ion Ratio Lower Upper

43 100

74 9.7 18.0 27.0#

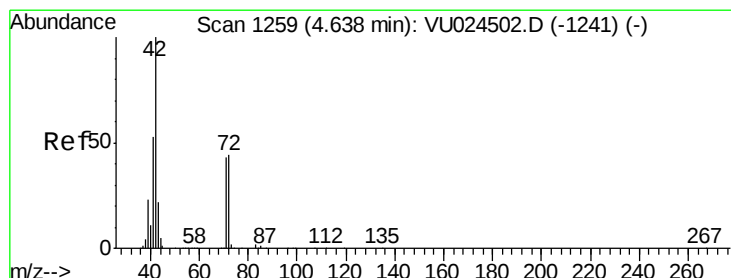
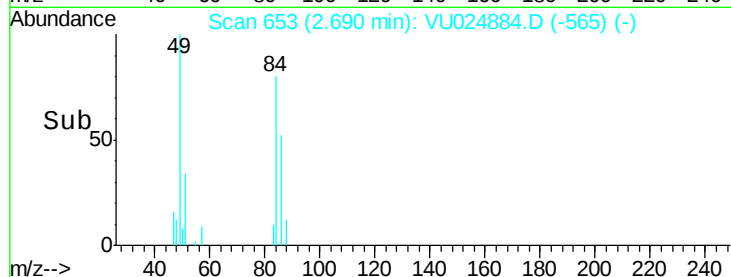
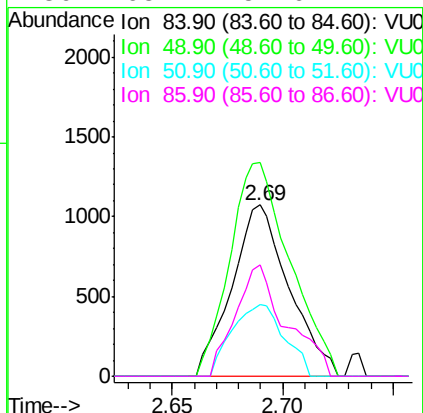
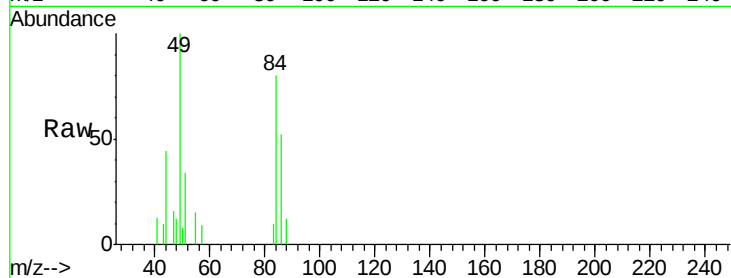




#20
Methvlene Chloride
Concen: 0.67 ug/l
RT: 2.69 min Scan# 653
Delta R.T. -0.02 min
Lab File: VU024884.D
Acq: 25 Jun 2018 18:58

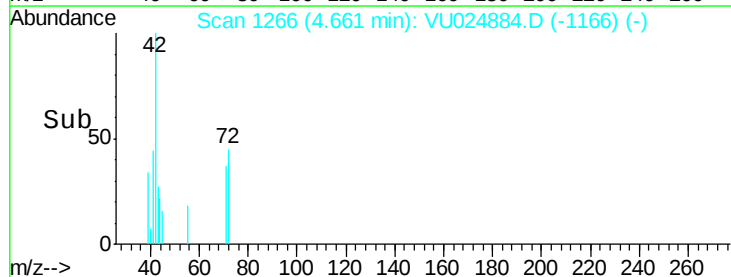
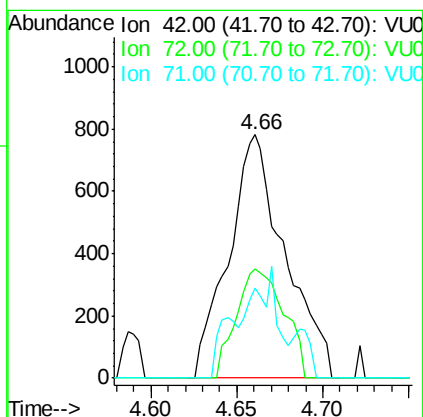
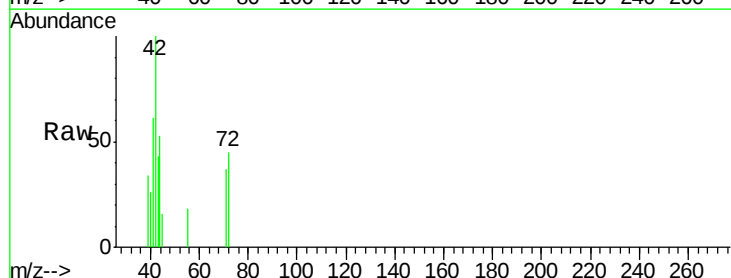
Instrument :
MSVOA_U
ClientSampleId :

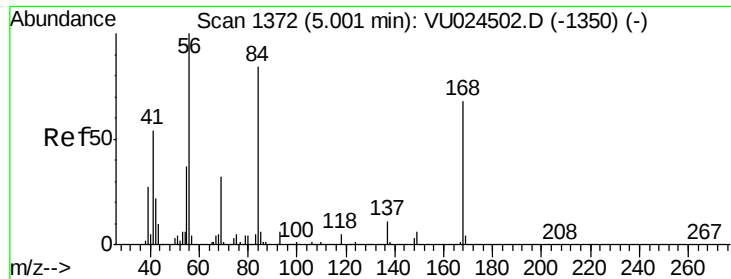
Tot Ion:	84	Resp:	1928
Ion	Ratio	Lower	Upper
84	100		
49	124.6	103.8	155.8
51	42.0	32.0	48.0
86	65.1	51.6	77.4



#29
Tetrahydrofuran
Concen: 1.17 ug/l
RT: 4.66 min Scan# 1266
Delta R.T. 0.02 min
Lab File: VU024884.D
Acq: 25 Jun 2018 18:58

Tgt Ion:	42	Resp:	1782
Ion	Ratio	Lower	Upper
42	100		
72	37.9	34.5	51.7
71	21.5	32.2	48.4#

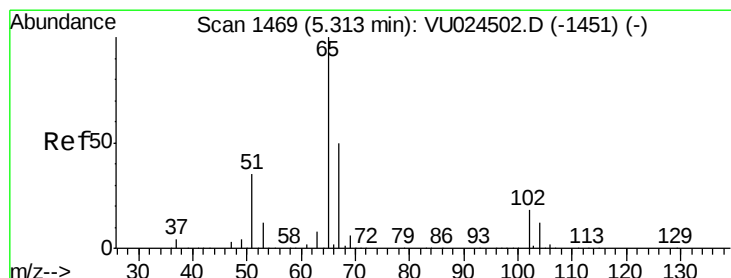
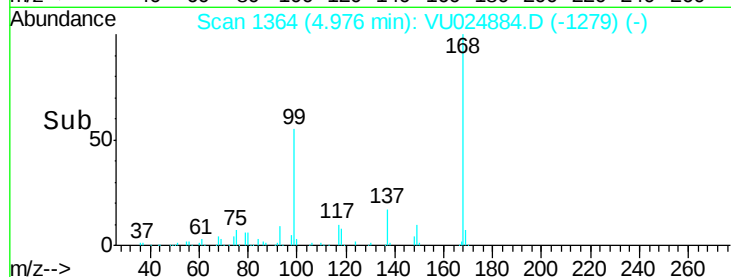
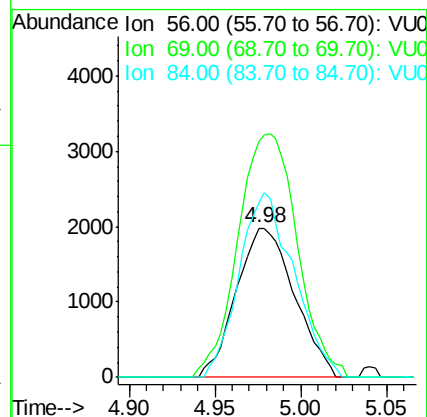
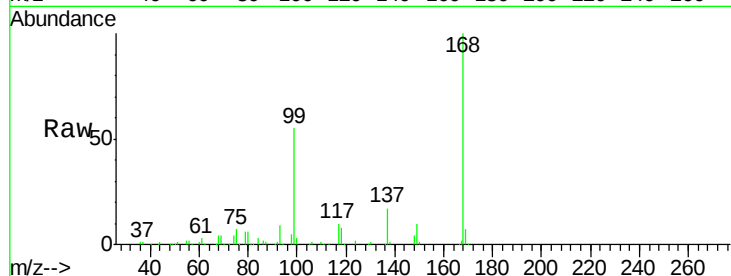




#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1364
Delta R.T. -0.03 min
Lab File: VU024884.D
Acq: 25 Jun 2018 18:58

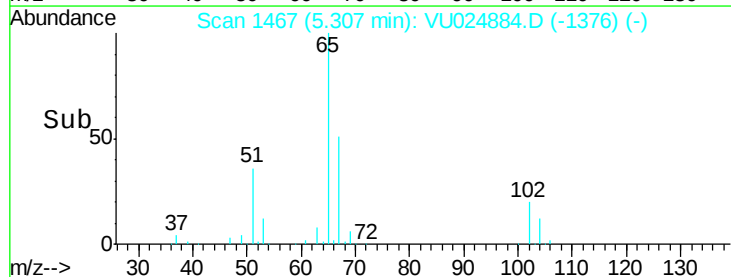
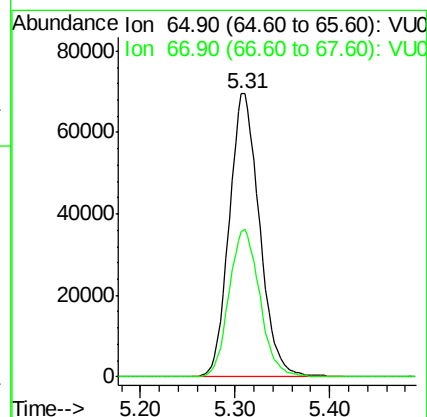
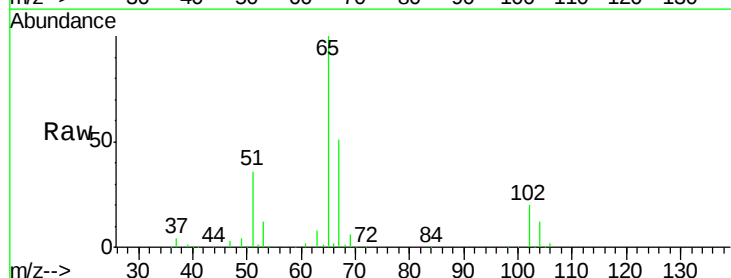
Instrument :
MSVOA_U
ClientSampled :

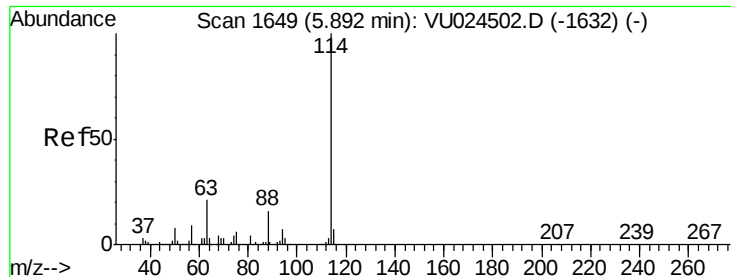
Tot Ion: 56 Resp: 4656
Ion Ratio Lower Upper
56 100
69 158.4 24.8 37.2#
84 116.7 65.2 97.8#



#33
1,2-Dichloroethane-d4
Concen: 45.38 ug/l
RT: 5.31 min Scan# 1467
Delta R.T. -0.01 min
Lab File: VU024884.D
Acq: 25 Jun 2018 18:58

Tgt Ion: 65 Resp: 154908
Ion Ratio Lower Upper
65 100
67 52.8 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1647

Delta R.T. -0.01 min

Lab File: VU024884.D

Acq: 25 Jun 2018 18:58

Instrument :

MSVOA_U

ClientSampleId :

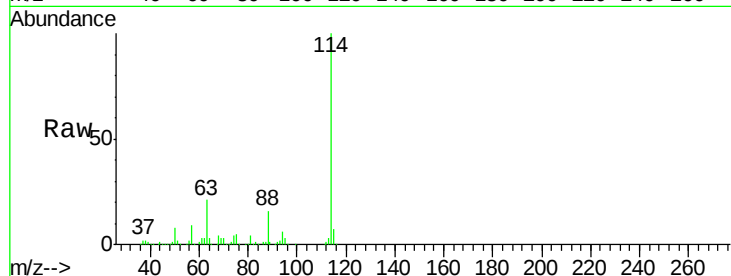
Tot Ion:114 Resp: 324871

Ion Ratio Lower Upper

114 100

63 21.0 0.0 45.4

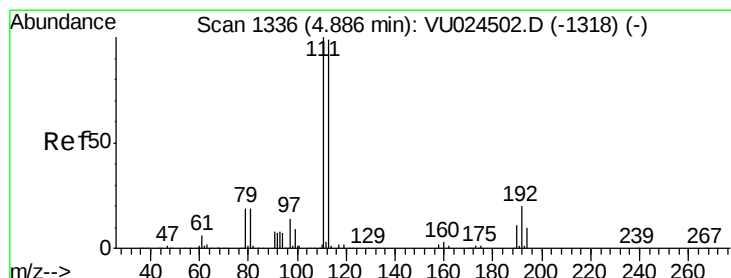
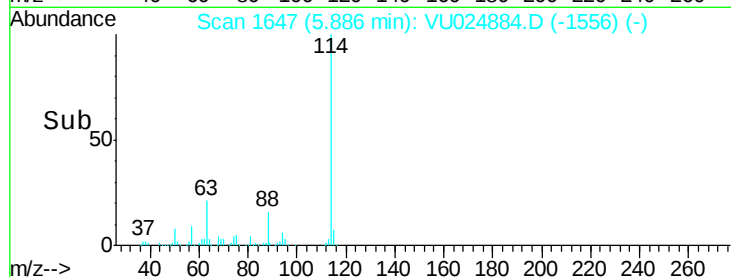
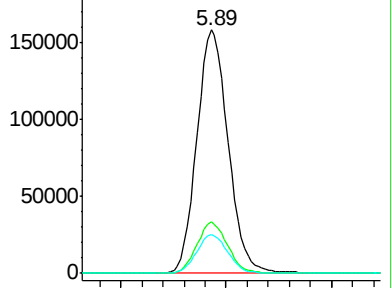
88 15.8 0.0 31.0



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: 45.88 ug/l

RT: 4.88 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VU024884.D

Acq: 25 Jun 2018 18:58

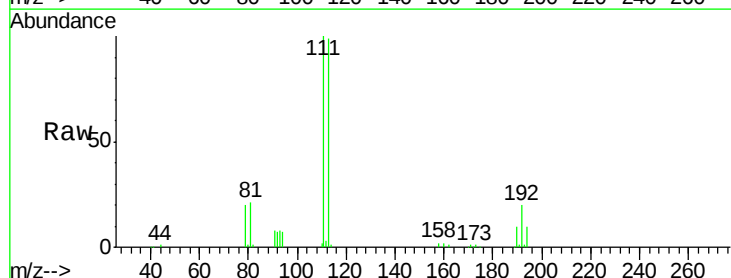
Tgt Ion:113 Resp: 123700

Ion Ratio Lower Upper

113 100

111 102.6 82.2 123.4

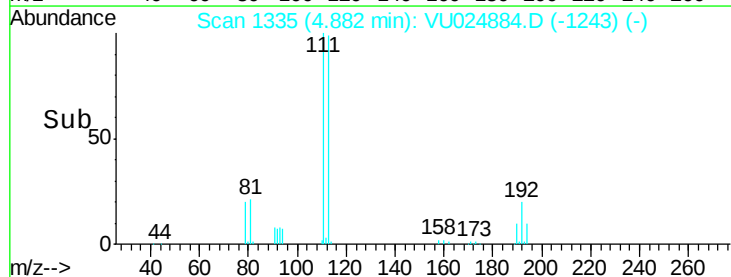
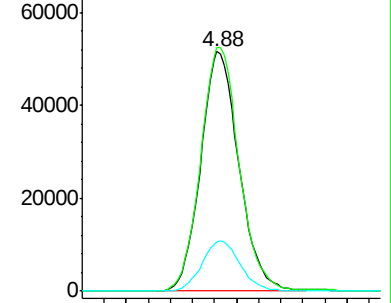
192 20.8 16.2 24.4

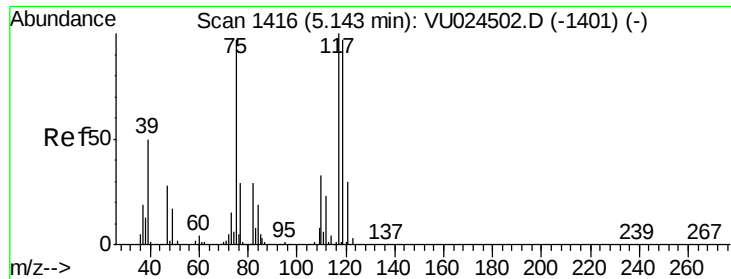


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

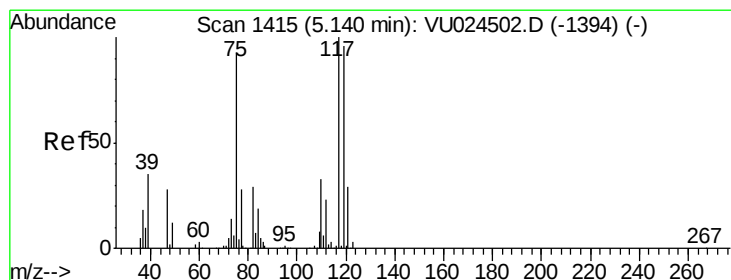
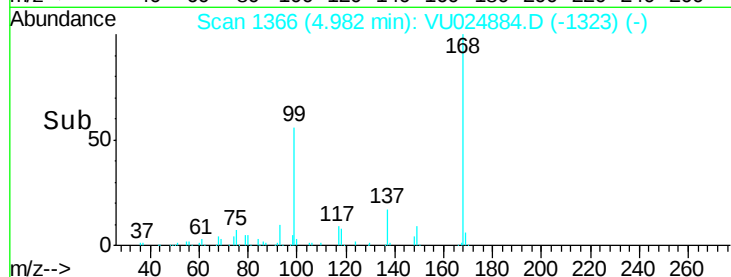
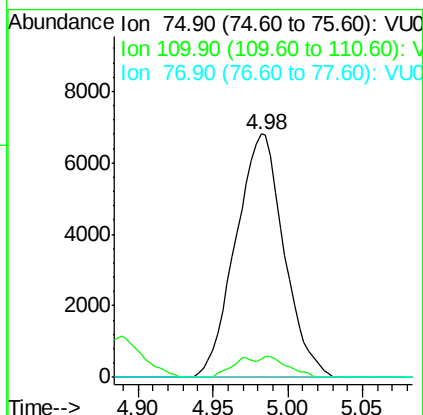
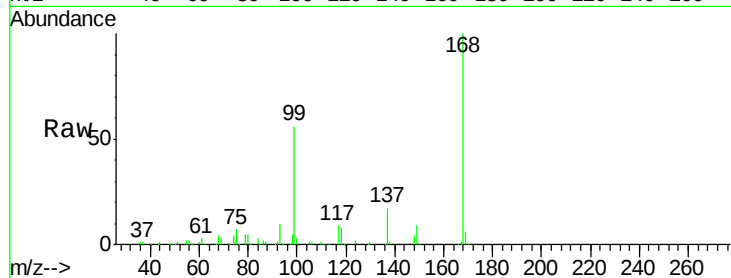




#36
 1,1-Dichloropropene
 Concen: 4.00 ug/l
 RT: 4.98 min Scan# 1366
 Delta R.T. -0.16 min
 Lab File: VU024884.D
 Acq: 25 Jun 2018 18:58

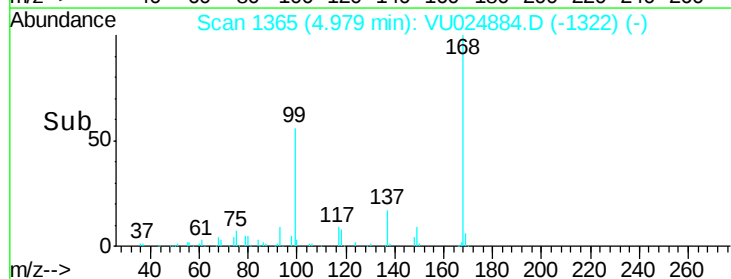
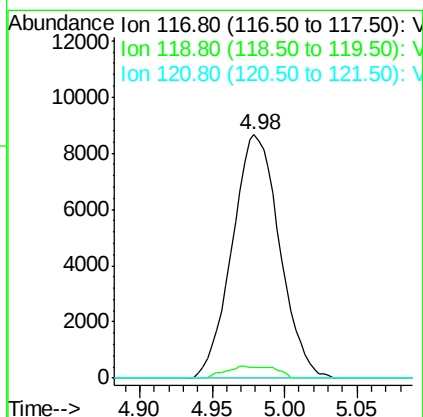
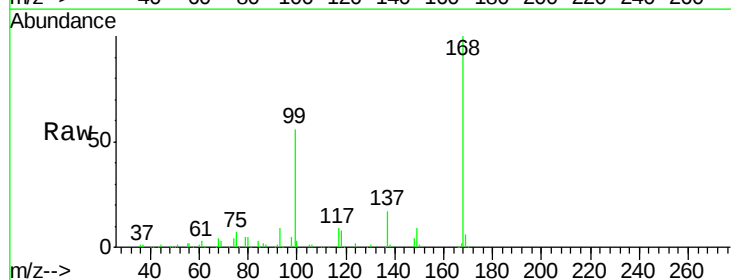
Instrument :
 MSVOA_U
 ClientSampleId :

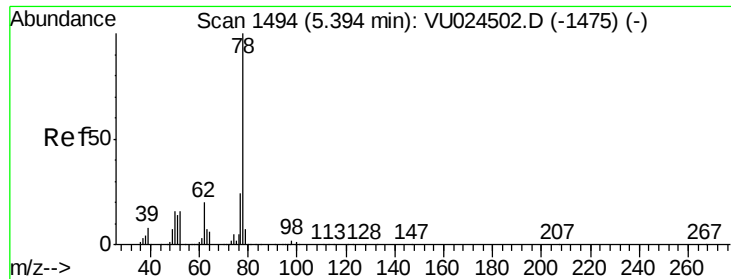
Tot Ion	Ratio	Lower	Upper
75	100		
110	4.9	17.0	50.9#
77	0.0	24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 4.68 ug/l
 RT: 4.98 min Scan# 1365
 Delta R.T. -0.16 min
 Lab File: VU024884.D
 Acq: 25 Jun 2018 18:58

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.2	76.1	114.1#
121	0.0	23.7	35.5#





#40

Benzene

Concen: 0.51 ug/l

RT: 5.39 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VU024884.D

Acq: 25 Jun 2018 18:58

Instrument :

MSVOA_U

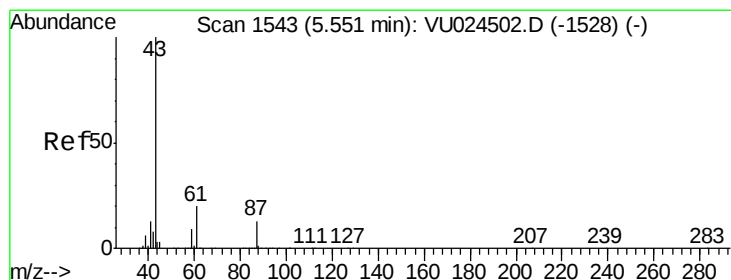
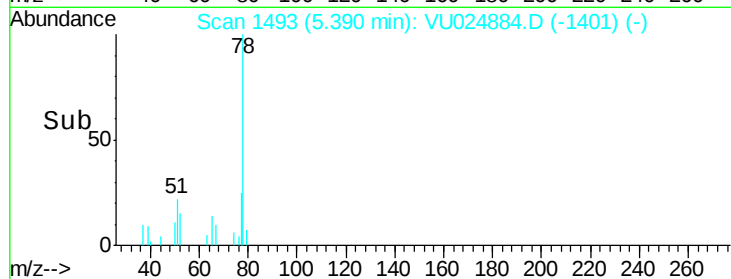
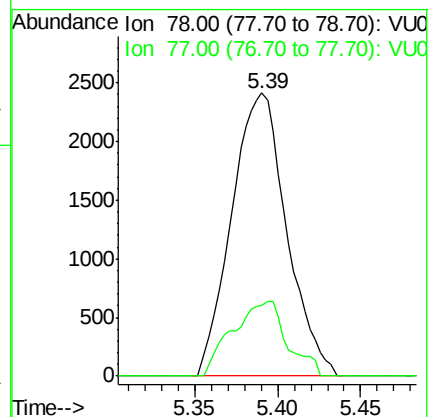
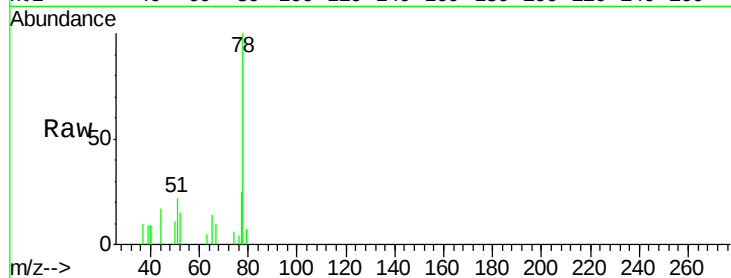
ClientSampled :

Tot Ion: 78 Resp: 5547

Ion Ratio Lower Upper

78 100

77 25.1 19.2 28.8



#43

Isopropyl Acetate

Concen: 0.26 ug/l

RT: 5.62 min Scan# 1563

Delta R.T. 0.06 min

Lab File: VU024884.D

Acq: 25 Jun 2018 18:58

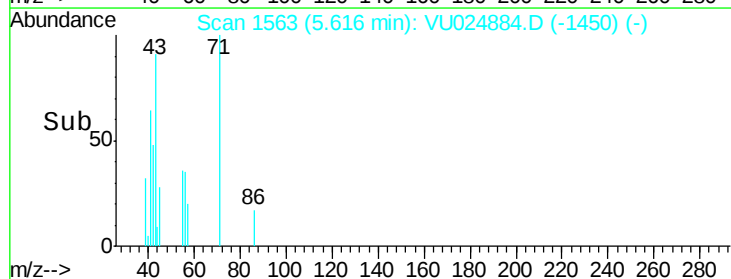
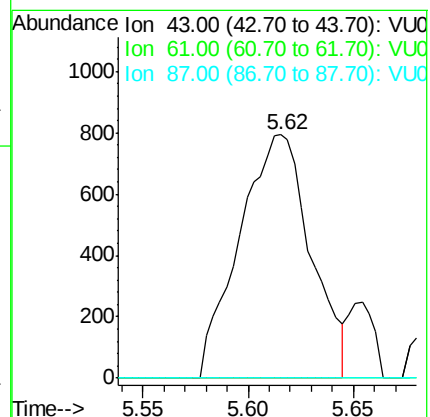
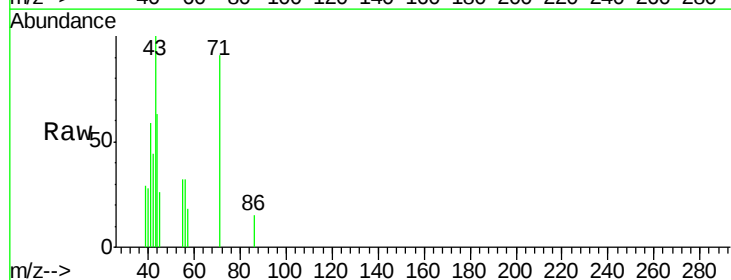
Tgt Ion: 43 Resp: 1866

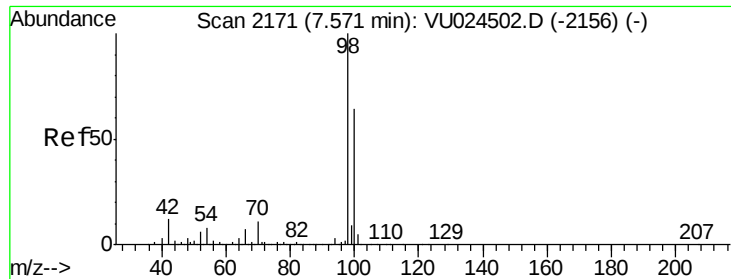
Ion Ratio Lower Upper

43 100

61 0.0 15.4 23.0#

87 0.0 10.0 15.0#

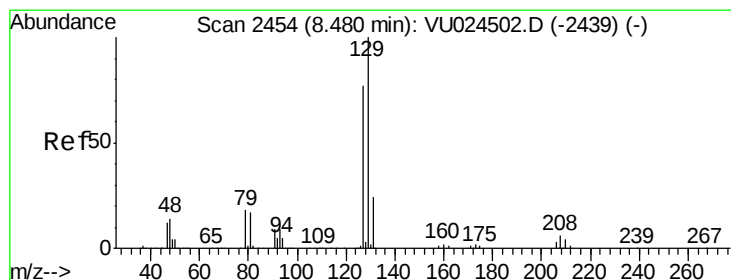
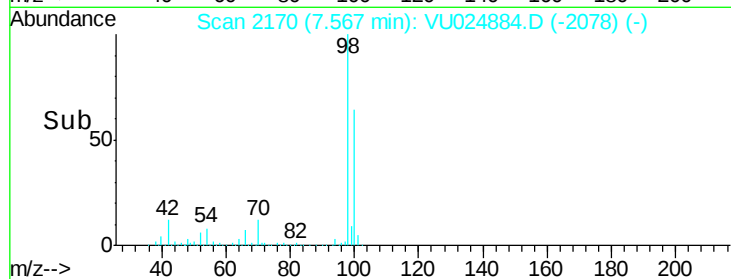
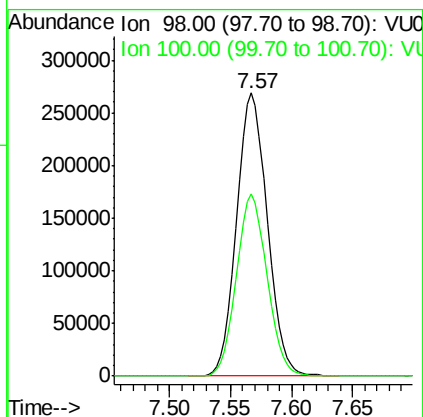
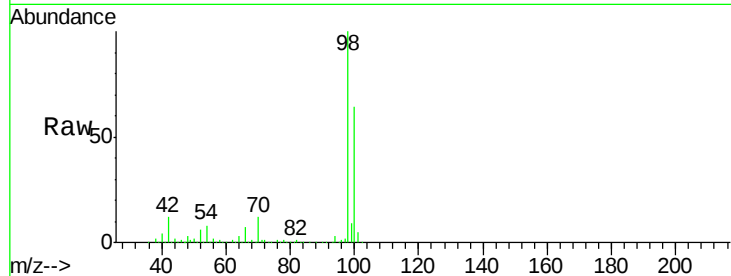




#50
Toluene-d8
Concen: 47.66 ug/l
RT: 7.57 min Scan# 2170
Delta R.T. -0.00 min
Lab File: VU024884.D
Acq: 25 Jun 2018 18:58

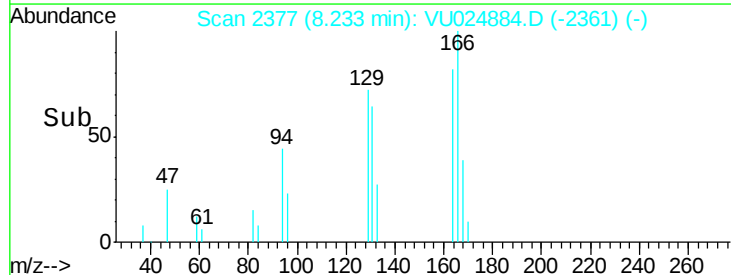
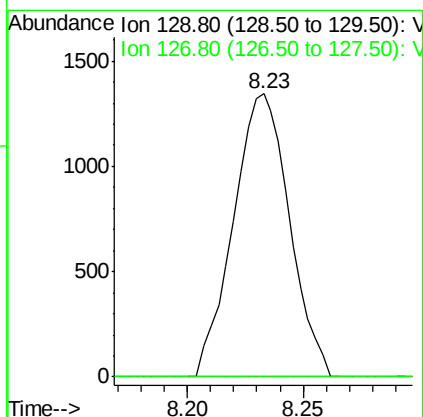
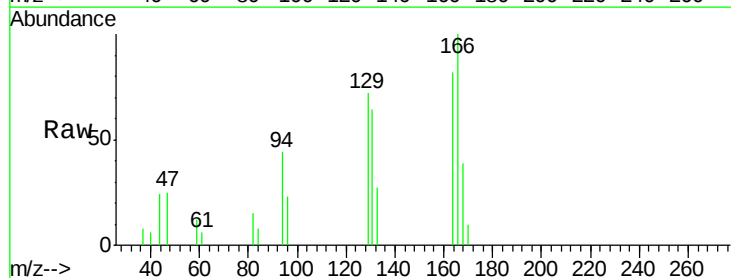
Instrument :
MSVOA_U
ClientSampled :

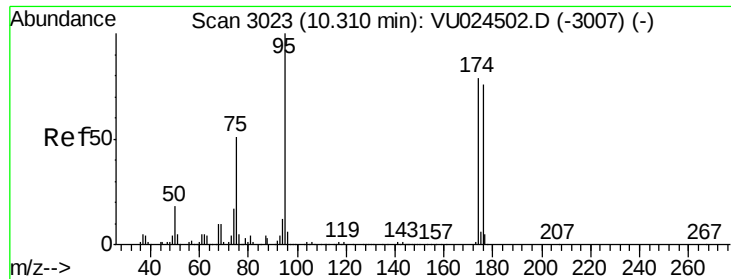
Tot Ion: 98 Resp: 468741
Ion Ratio Lower Upper
98 100
100 64.1 51.1 76.7



#60
Dibromochloromethane
Concen: 0.64 ug/l
RT: 8.23 min Scan# 2377
Delta R.T. -0.25 min
Lab File: VU024884.D
Acq: 25 Jun 2018 18:58

Tgt Ion:129 Resp: 2258
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#





#62

4-Bromofluorobenzene

Concen: 50.52 ug/l

RT: 10.31 min Scan# 3024

Delta R.T. 0.00 min

Lab File: VU024884.D

Acq: 25 Jun 2018 18:58

Instrument :

MSVOA_U

ClientSampleId :

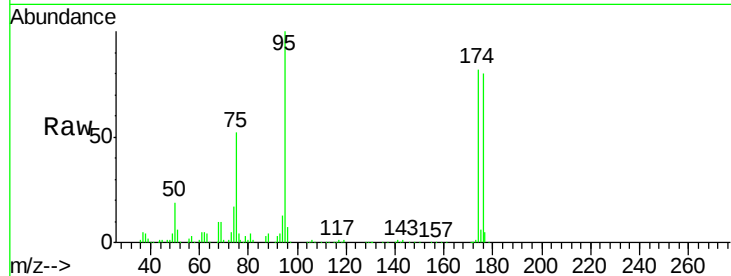
Tot Ion: 95 Resp: 197249

Ion Ratio Lower Upper

95 100

174 84.2 0.0 165.8

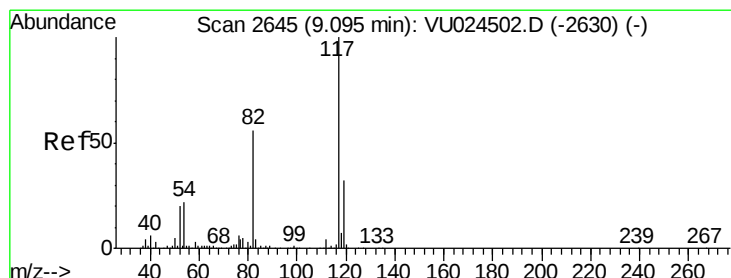
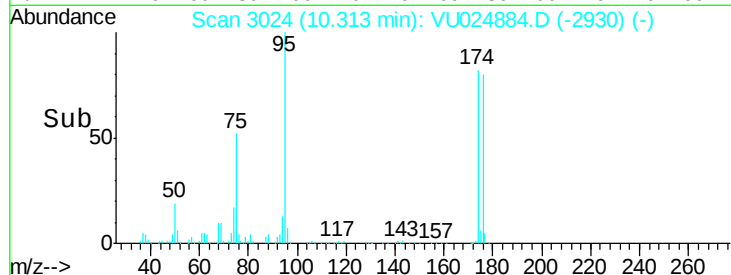
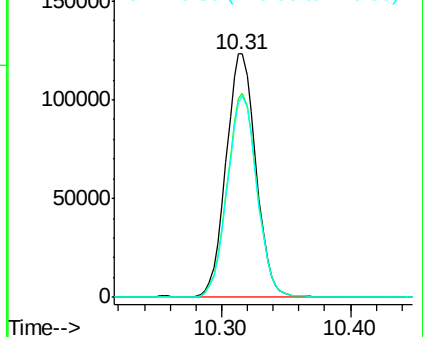
176 82.6 0.0 159.4



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.09 min Scan# 2645

Delta R.T. -0.00 min

Lab File: VU024884.D

Acq: 25 Jun 2018 18:58

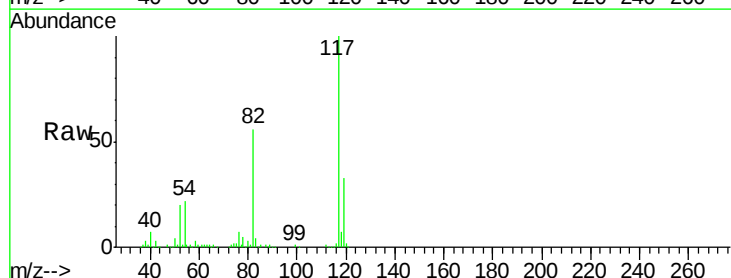
Tgt Ion: 117 Resp: 316717

Ion Ratio Lower Upper

117 100

82 56.3 44.3 66.5

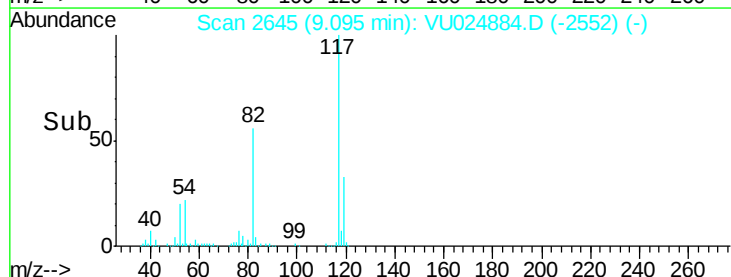
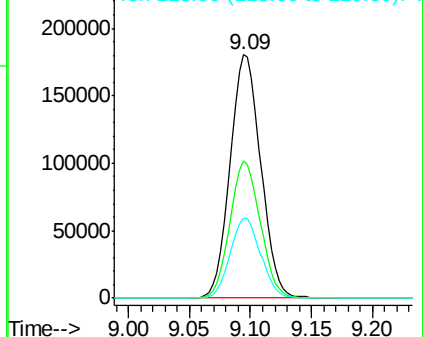
119 32.7 25.4 38.2

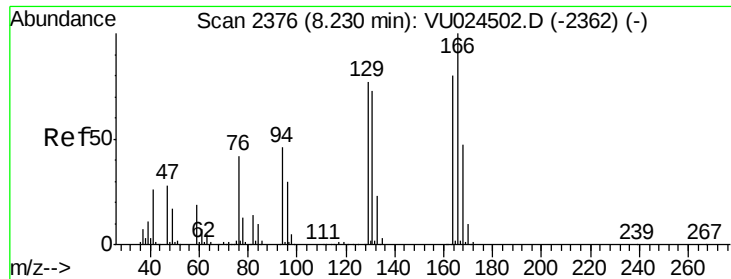


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): V

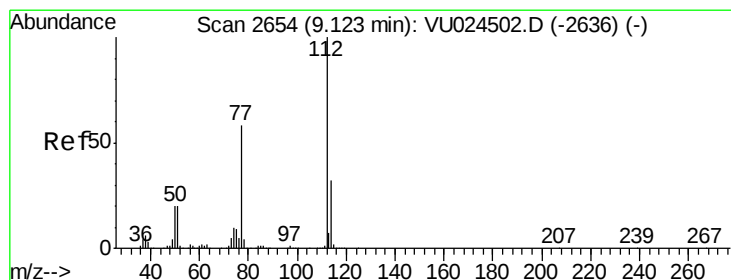
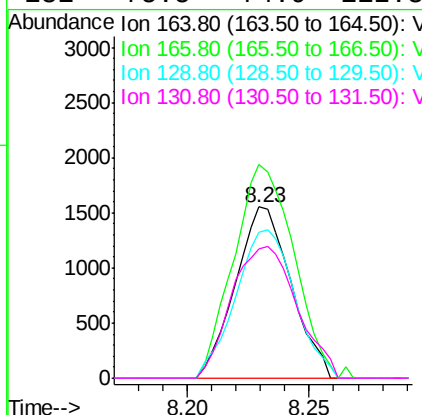
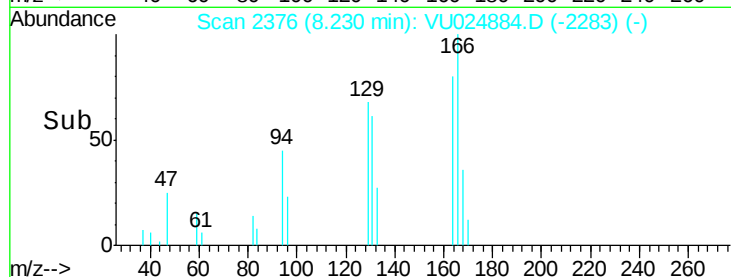
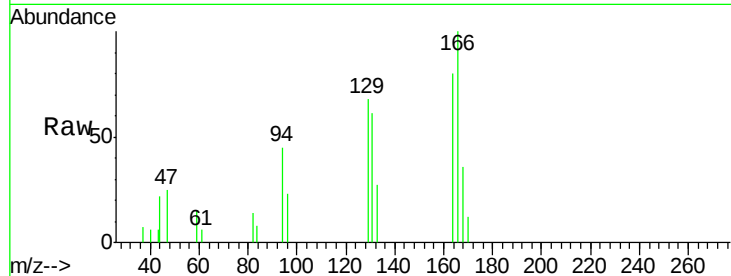




#64
Tetrachloroethene
Concen: 0.81 ug/l
RT: 8.23 min Scan# 2376
Delta R.T. -0.00 min
Lab File: VU024884.D
Acq: 25 Jun 2018 18:58

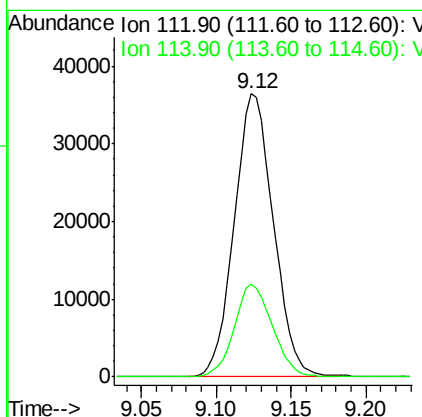
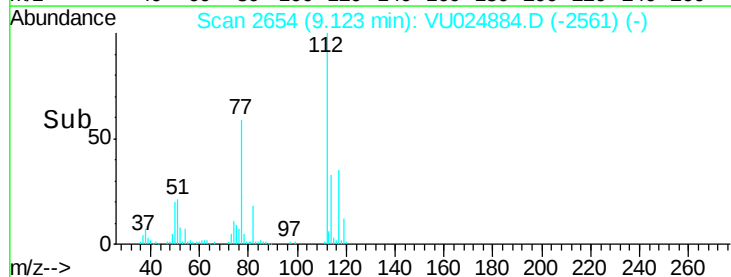
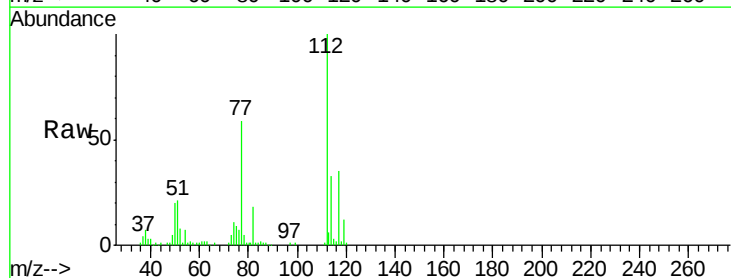
Instrument :
MSVOA_U
ClientSampleId :

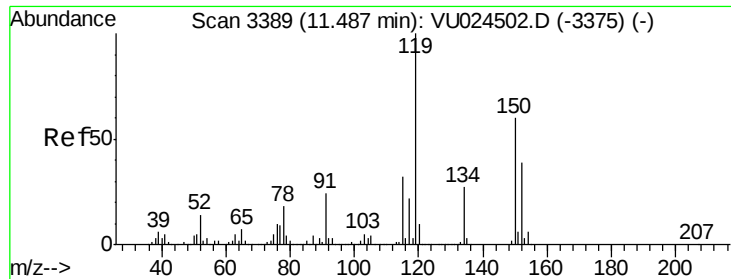
Tot Ion:164 Resp: 2447
Ion Ratio Lower Upper
164 100
166 124.6 101.7 152.5
129 85.1 76.9 115.3
131 75.5 74.9 112.3



#65
Chlorobenzene
Concen: 8.21 ug/l
RT: 9.12 min Scan# 2654
Delta R.T. -0.00 min
Lab File: VU024884.D
Acq: 25 Jun 2018 18:58

Tgt Ion:112 Resp: 66389
Ion Ratio Lower Upper
112 100
114 32.7 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VU024884.D

Acq: 25 Jun 2018 18:58

Instrument :

MSVOA_U

ClientSampleId :

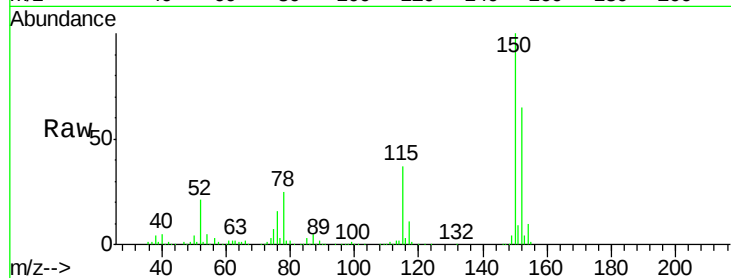
Tot Ion:152 Resp: 184428

Ion Ratio Lower Upper

152 100

115 57.7 43.0 129.0

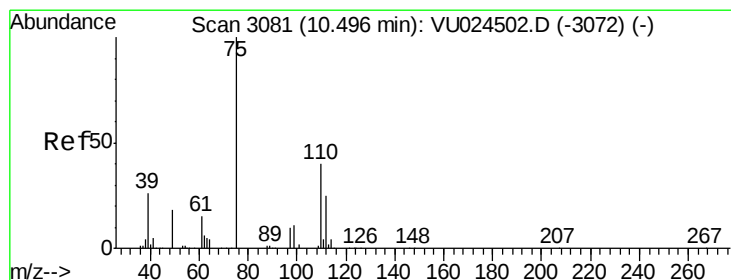
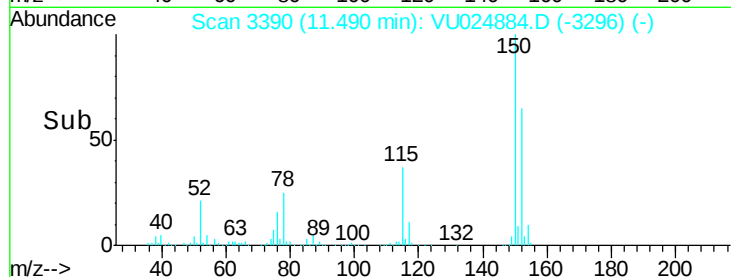
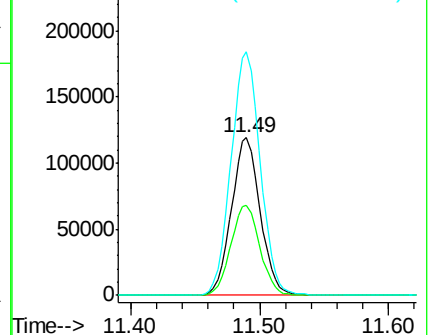
150 157.0 0.0 354.0



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: 25.13 ug/l

RT: 10.31 min Scan# 3024

Delta R.T. -0.18 min

Lab File: VU024884.D

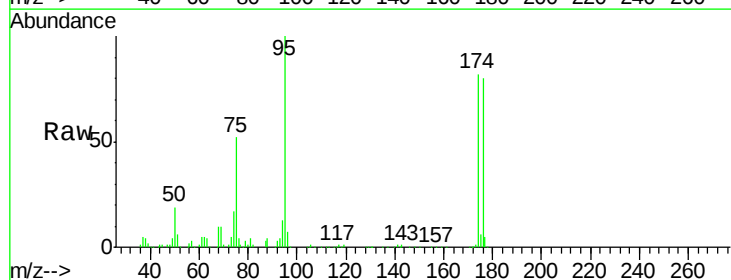
Acq: 25 Jun 2018 18:58

Tgt Ion: 75 Resp: 102020

Ion Ratio Lower Upper

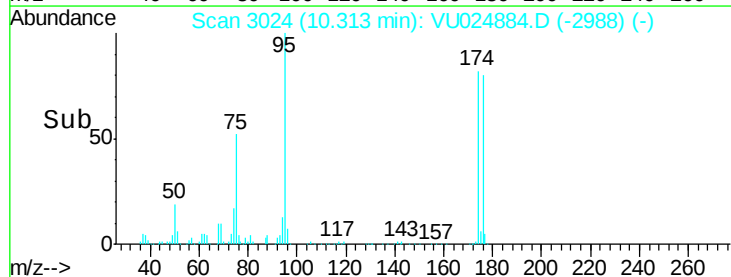
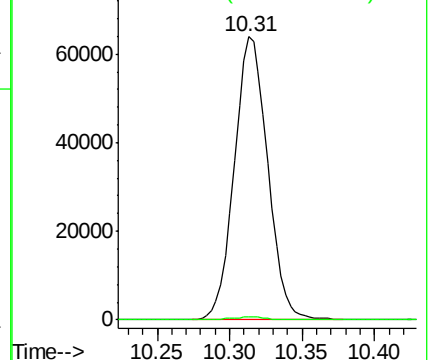
75 100

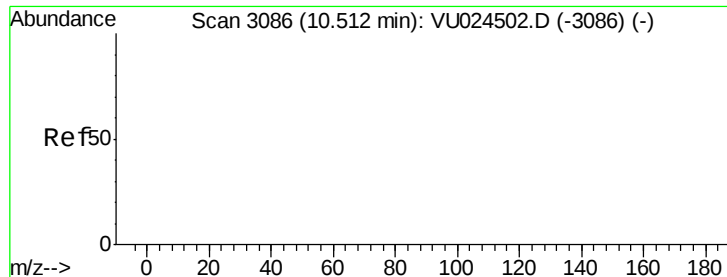
77 1.1 20.9 62.7#



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: 58.15 ug/l

RT: 10.31 min Scan# 3024

Delta R.T. -0.20 min

Lab File: VU024884.D

Acq: 25 Jun 2018 18:58

Instrument :

MSVOA_U

ClientSampleId :

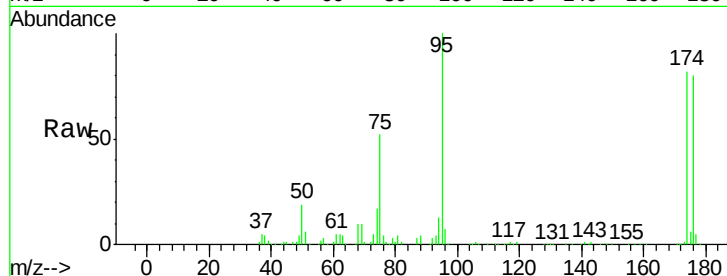
Tot Ion: 75 Resp: 102020

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

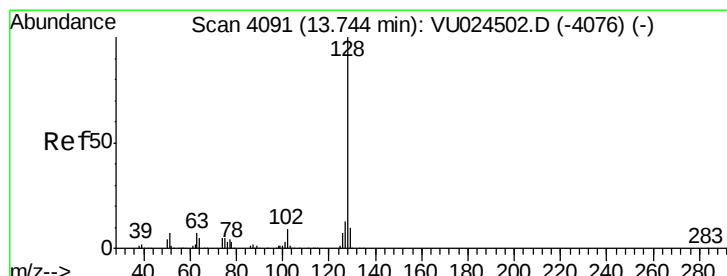
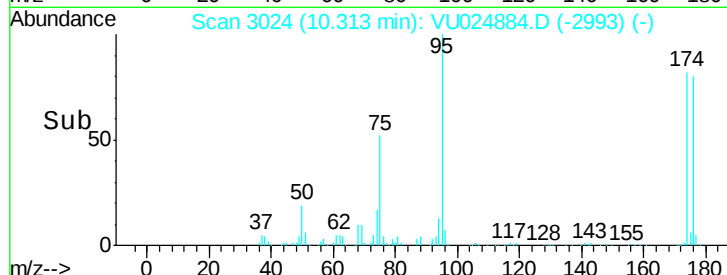
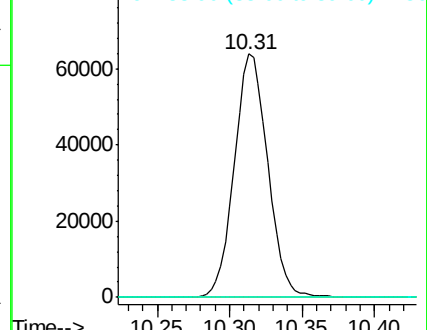
89 0.0 0.0 0.0



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) (-)



#95

Naphthalene

Concen: 0.71 ug/l

RT: 13.77 min Scan# 4098

Delta R.T. 0.02 min

Lab File: VU024884.D

Acq: 25 Jun 2018 18:58

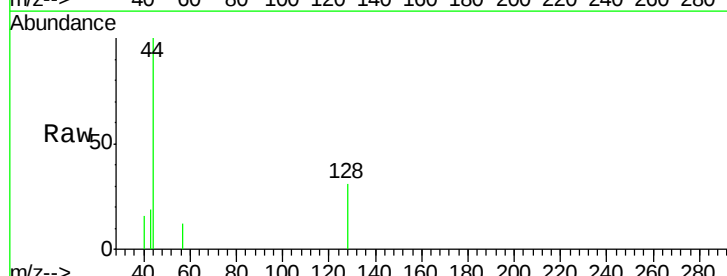
Tgt Ion:128 Resp: 413

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): VU024502.D (-4076) (-)

Ion 127.00 (126.70 to 127.70): VU024502.D (-4076) (-)

Ion 129.00 (128.70 to 129.70): VU024502.D (-4076) (-)

