

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062518\
 Data File : VU024870.D
 Acq On : 25 Jun 2018 13:18
 Operator : MD/SY
 Sample : J3662-07
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jun 26 05:13:18 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	209734	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	319829	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	296762	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	159448	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	156351	45.66	ug/l	0.00
Spiked Amount			Recovery	=	91.32%	
35) Dibromofluoromethane	4.89	113	126625	47.70	ug/l	0.00
Spiked Amount			Recovery	=	95.40%	
50) Toluene-d8	7.57	98	463764	47.90	ug/l	0.00
Spiked Amount			Recovery	=	95.80%	
62) 4-Bromofluorobenzene	10.31	95	173158	45.04	ug/l	0.00
Spiked Amount			Recovery	=	90.08%	

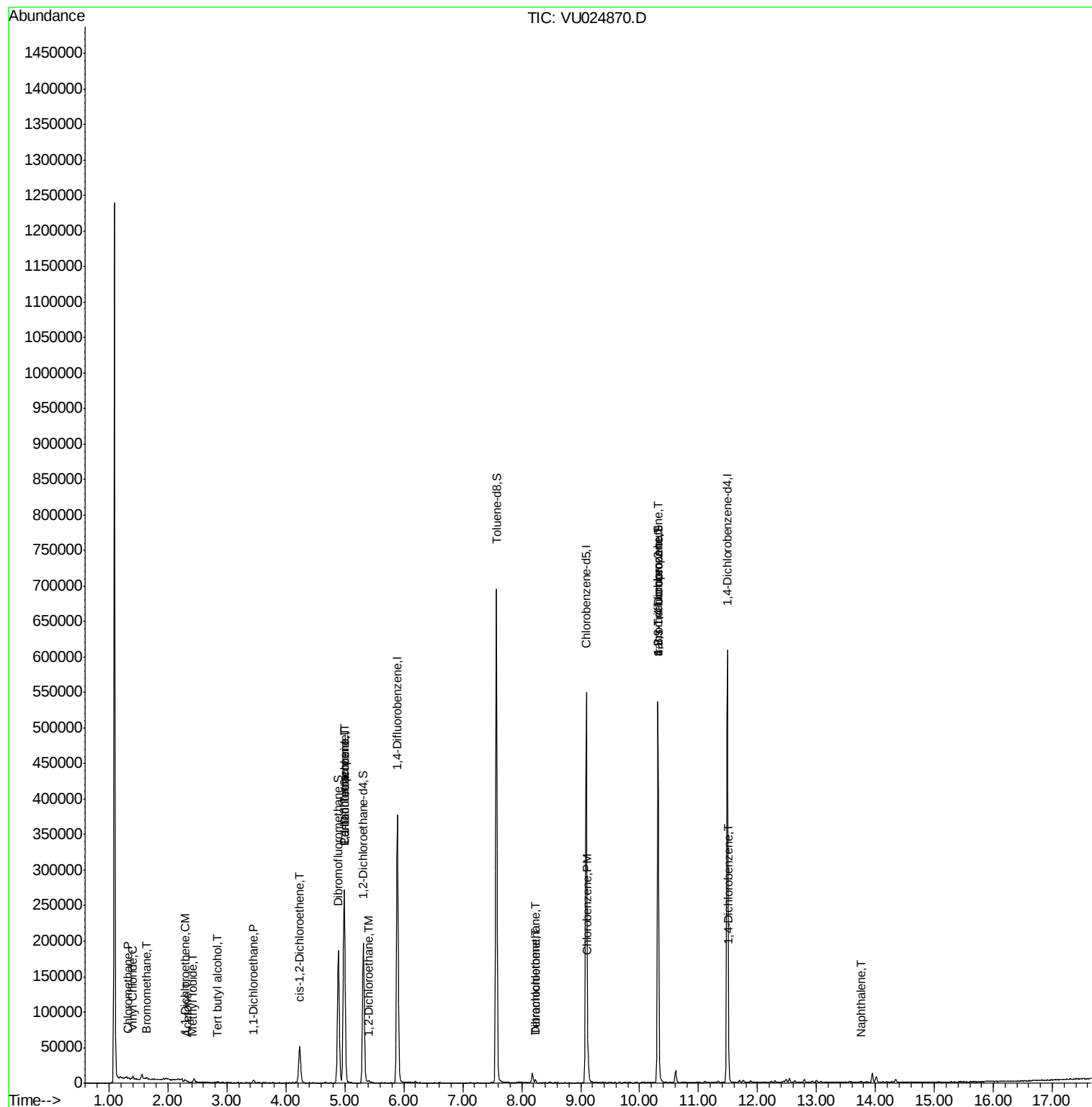
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	835	0.31	ug/l	# 77
4) Vinyl Chloride	1.40	62	2398	0.87	ug/l	92
5) Bromomethane	1.63	94	762	0.57	ug/l	95
6) Chloroethane	1.71	64	85	Below Cal	#	43
10) Methyl Iodide	2.41	142	361	5.43	ug/l	# 55
11) Tert butyl alcohol	2.84	59	835	1.00	ug/l	# 72
12) 1,1-Dichloroethene	2.28	96	1067	0.45	ug/l	# 66
16) Acetone	2.32	43	1766	0.96	ug/l	91
24) 1,1-Dichloroethane	3.45	63	4528	0.90	ug/l	# 95
27) cis-1,2-Dichloroethene	4.23	96	29122	9.63	ug/l	87
31) Cyclohexane	4.99	56	4354	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	15155	4.03	ug/l	# 52
38) Carbon Tetrachloride	4.99	117	19793	4.79	ug/l	# 16
42) 1,2-Dichloroethane	5.41	62	1361	0.33	ug/l	# 77
60) Dibromochloromethane	8.23	129	768	0.22	ug/l	# 11
64) Tetrachloroethene	8.23	164	1092	0.39	ug/l	# 83
65) Chlorobenzene	9.12	112	15989	2.11	ug/l	99
76) 1,2,3-Trichloropropane	10.31	75	89627	25.53	ug/l	# 35
81) trans-1,4-Dichloro-2-buten	10.31	75	89627	59.09	ug/l	# 100
88) 1,4-Dichlorobenzene	11.52	146	1389	0.24	ug/l	# 25
95) Naphthalene	13.75	128	1845	0.83	ug/l	# 85

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

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QLast Update : Wed Jun 13 13:55:26 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.00 min

Lab File: VU024870.D

Acq: 25 Jun 2018 13:18

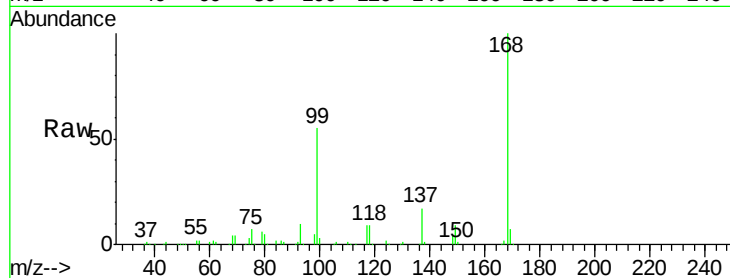
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 209734

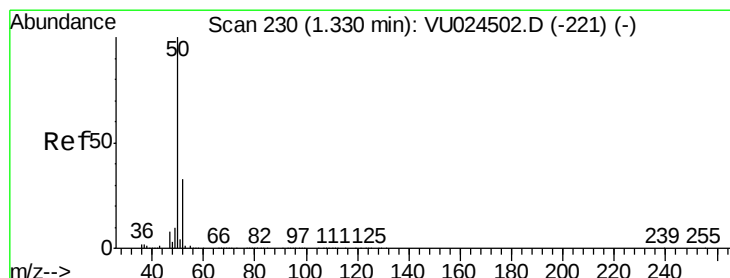
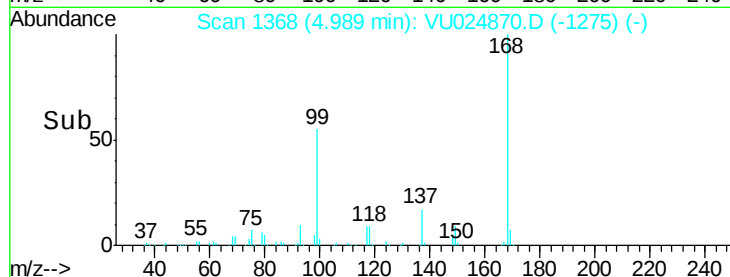
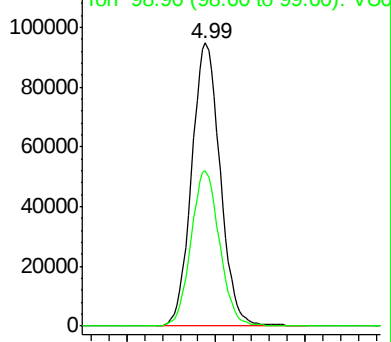
Ion Ratio Lower Upper

168 100

99 54.7 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024870.D (-1351) (-)



#3

Chloromethane

Concen: 0.31 ug/l

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU024870.D

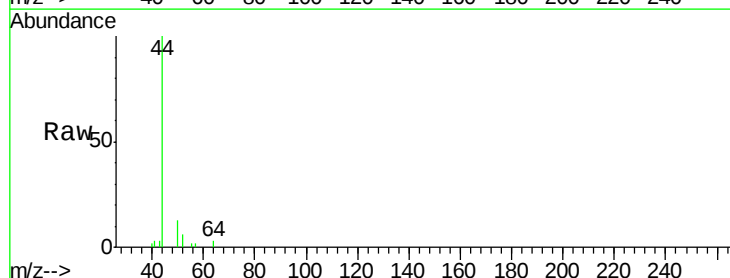
Acq: 25 Jun 2018 13:18

Tgt Ion: 50 Resp: 835

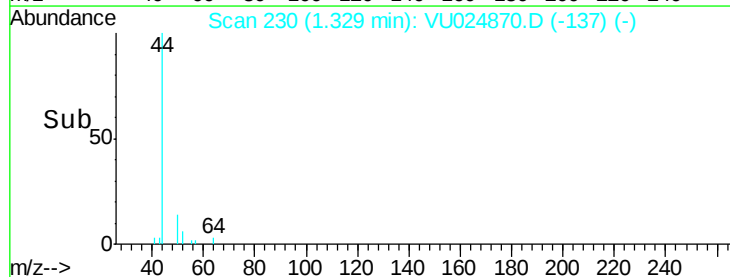
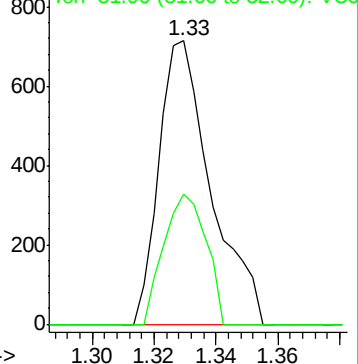
Ion Ratio Lower Upper

50 100

52 45.8 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VU024870.D (-137) (-)





#4

Vinyl Chloride

Concen: 0.87 ug/l

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU024870.D

Acq: 25 Jun 2018 13:18

Instrument :

MSVOA_U

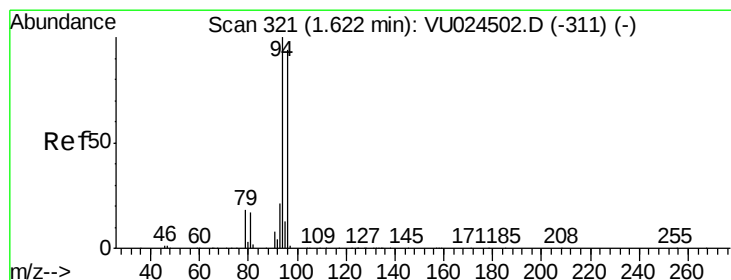
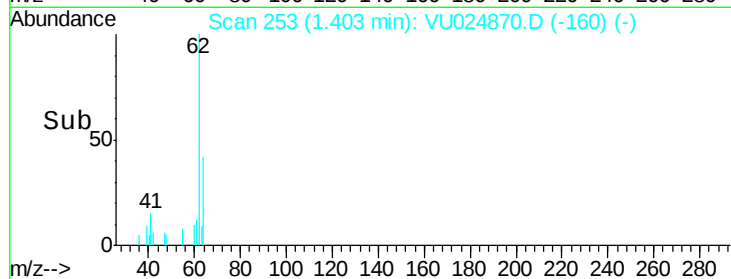
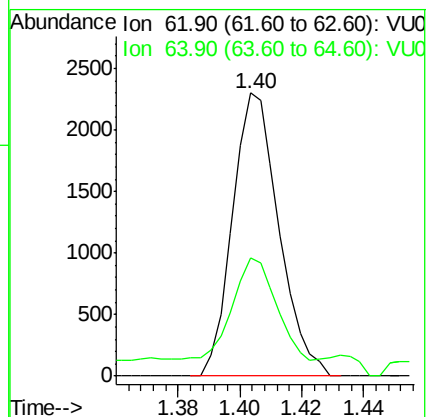
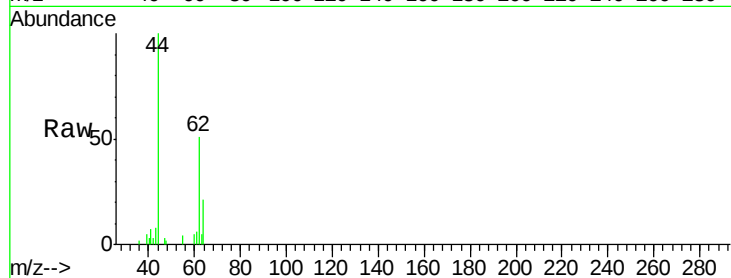
ClientSampleId :

Tot Ion: 62 Resp: 2398

Ion Ratio Lower Upper

62 100

64 35.3 24.8 37.2



#5

Bromomethane

Concen: 0.57 ug/l

RT: 1.63 min Scan# 325

Delta R.T. 0.01 min

Lab File: VU024870.D

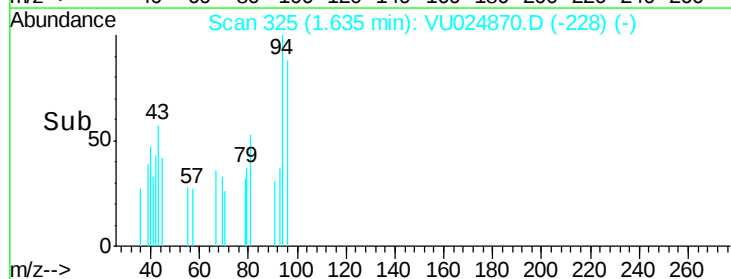
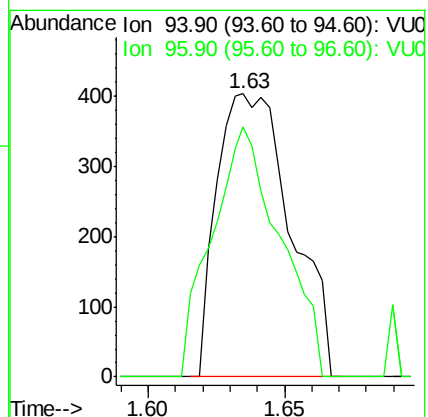
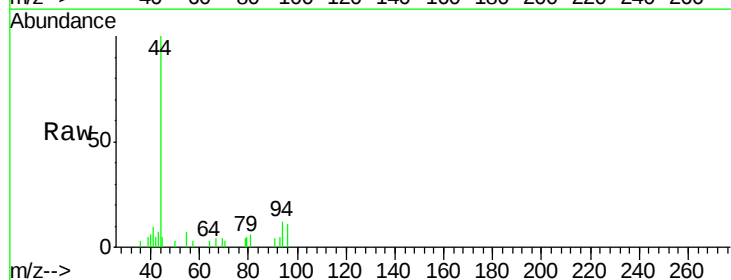
Acq: 25 Jun 2018 13:18

Tgt Ion: 94 Resp: 762

Ion Ratio Lower Upper

94 100

96 88.3 74.5 111.7





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 348

Delta R.T. 0.01 min

Lab File: VU024870.D

Acq: 25 Jun 2018 13:18

Instrument :

MSVOA_U

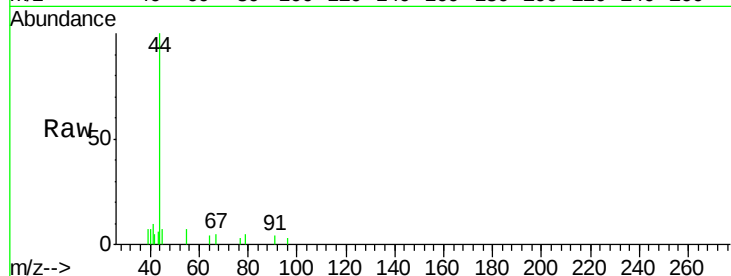
ClientSampleId :

Tot Ion: 64 Resp: 85

Ion Ratio Lower Upper

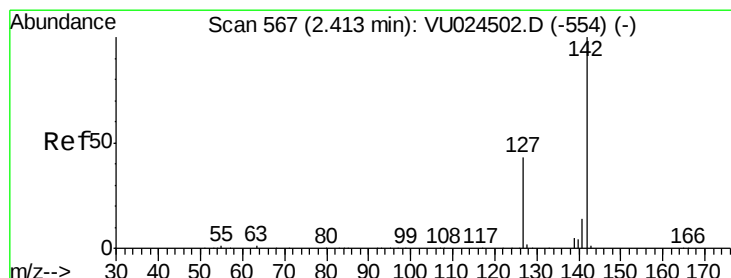
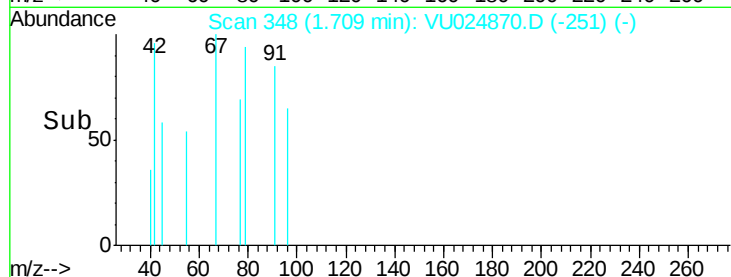
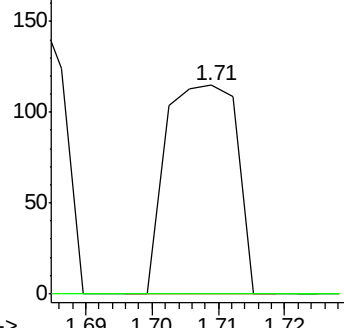
64 100

66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU024870.D (-251) (-)

Ion 65.90 (65.60 to 66.60): VU024870.D (-251) (-)



#10

Methyl Iodide

Concen: 5.43 ug/l

RT: 2.41 min Scan# 567

Delta R.T. 0.00 min

Lab File: VU024870.D

Acq: 25 Jun 2018 13:18

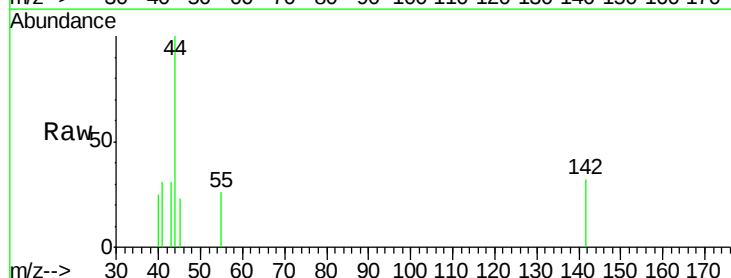
Tgt Ion: 142 Resp: 361

Ion Ratio Lower Upper

142 100

127 13.0 35.6 53.4#

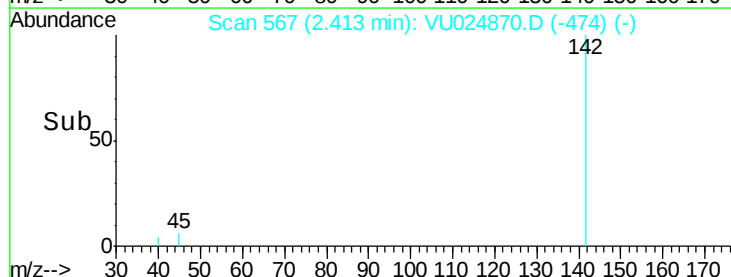
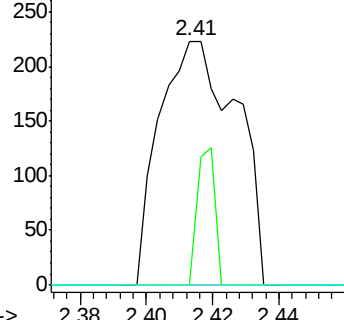
141 0.0 11.7 17.5#

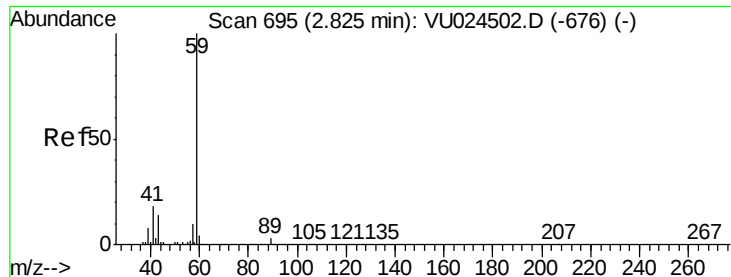


Abundance Ion 141.80 (141.50 to 142.50): VU024870.D (-474) (-)

Ion 126.80 (126.50 to 127.50): VU024870.D (-474) (-)

Ion 140.80 (140.50 to 141.50): VU024870.D (-474) (-)

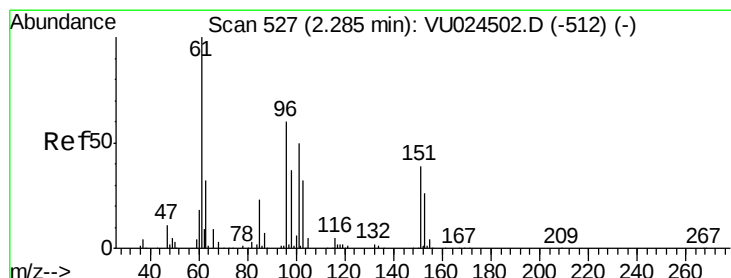
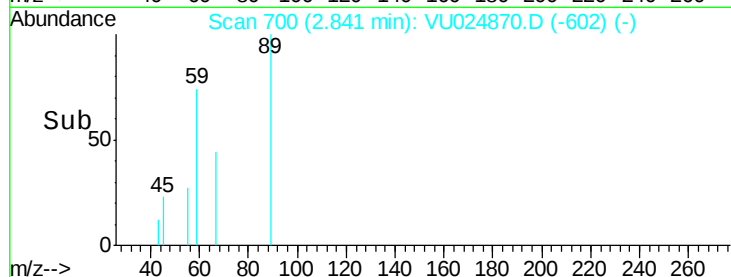
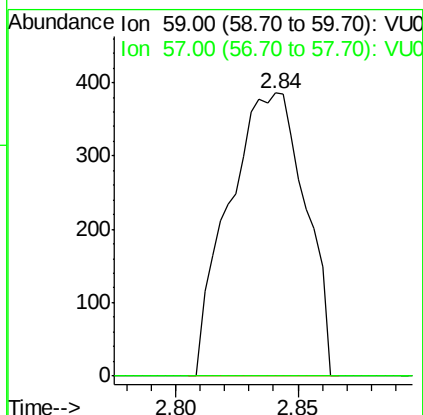
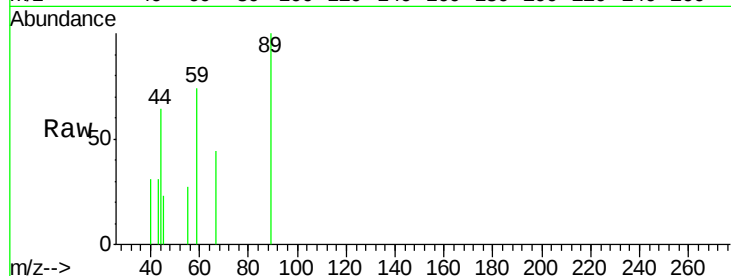




#11
Tert butyl alcohol
Concen: 1.00 ug/l
RT: 2.84 min Scan# 700
Delta R.T. 0.02 min
Lab File: VU024870.D
Acq: 25 Jun 2018 13:18

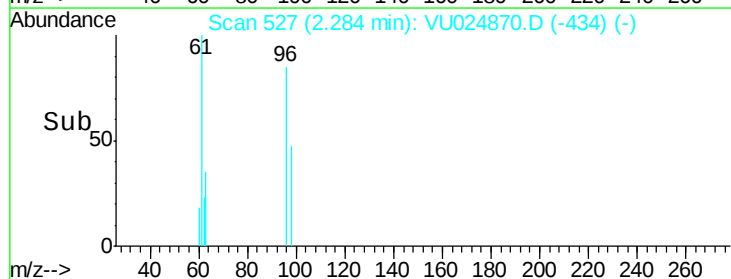
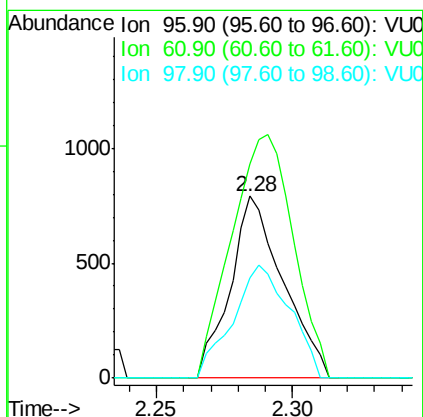
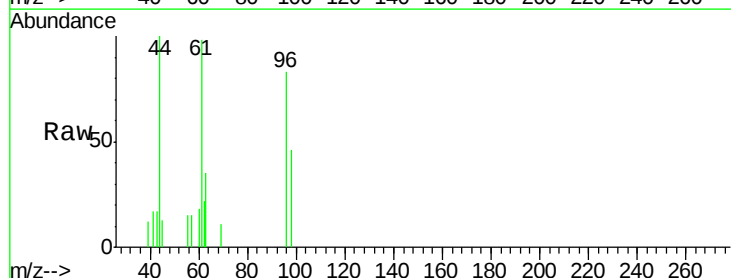
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 59 Resp: 835
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#12
1,1-Dichloroethene
Concen: 0.45 ug/l
RT: 2.28 min Scan# 527
Delta R.T. -0.00 min
Lab File: VU024870.D
Acq: 25 Jun 2018 13:18

Tgt Ion: 96 Resp: 1067
Ion Ratio Lower Upper
96 100
61 117.6 141.7 212.5#
98 55.2 51.6 77.4





#16

Acetone

Concen: 0.96 ug/l

RT: 2.32 min Scan# 539

Delta R.T. -0.00 min

Lab File: VU024870.D

Acq: 25 Jun 2018 13:18

Instrument :

MSVOA_U

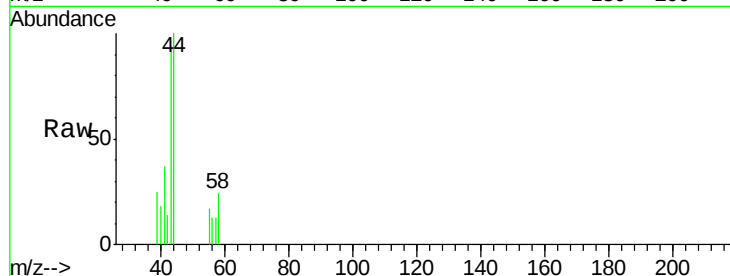
ClientSampleId :

Tot Ion: 43 Resp: 1766

Ion Ratio Lower Upper

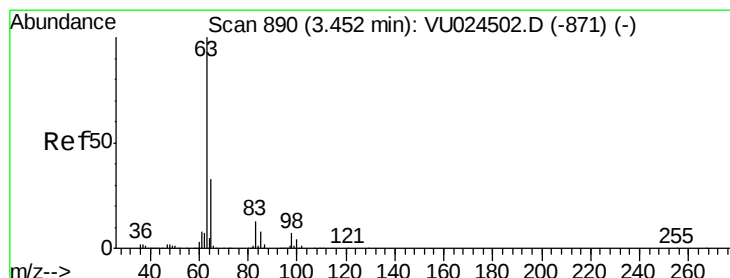
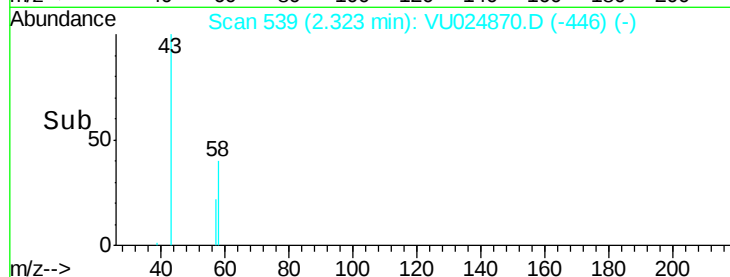
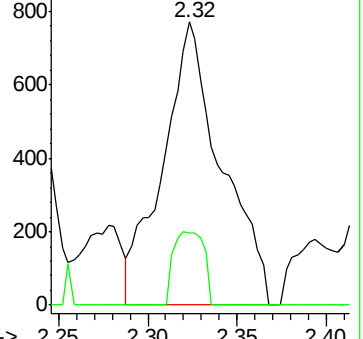
43 100

58 25.4 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: 0.90 ug/l

RT: 3.45 min Scan# 891

Delta R.T. 0.00 min

Lab File: VU024870.D

Acq: 25 Jun 2018 13:18

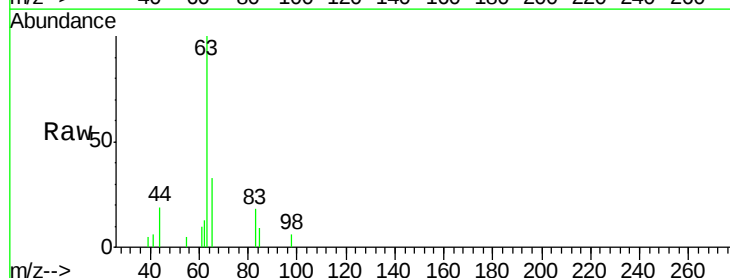
Tgt Ion: 63 Resp: 4528

Ion Ratio Lower Upper

63 100

98 6.4 3.5 10.4

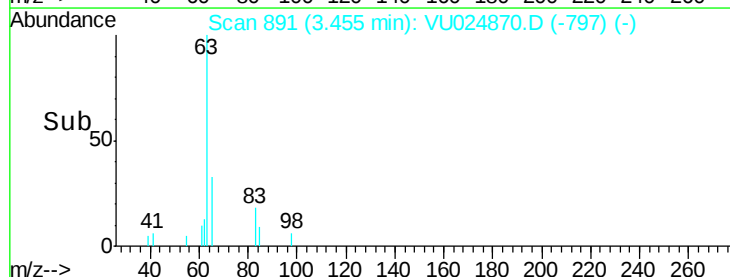
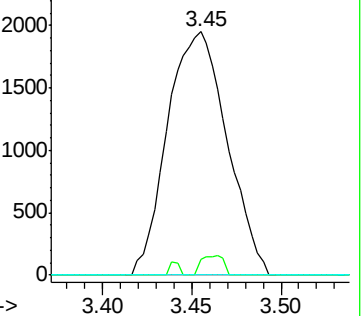
100 0.0 1.8 5.5#

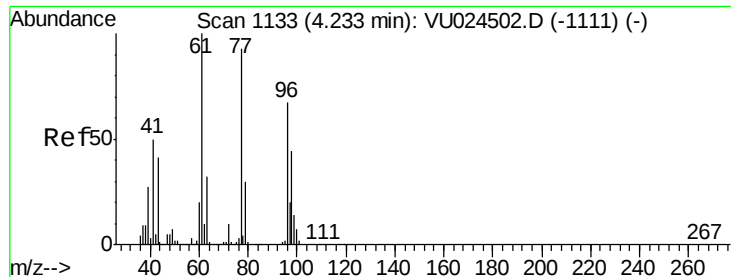


Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

Ion 99.90 (99.60 to 100.60): VU0





#27

cis-1,2-Dichloroethene

Concen: 9.63 ug/l

RT: 4.23 min Scan# 1133

Delta R.T. -0.00 min

Lab File: VU024870.D

Acq: 25 Jun 2018 13:18

Instrument :

MSVOA_U

ClientSampleId :

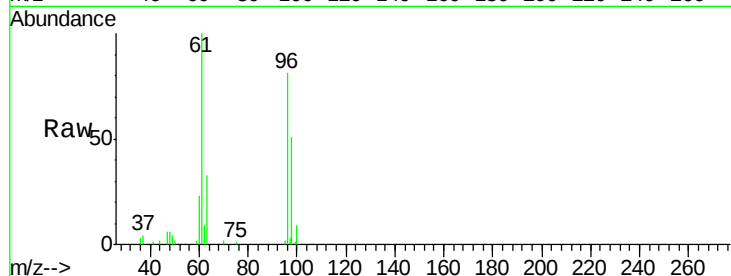
Tot Ion: 96 Resp: 29122

Ion Ratio Lower Upper

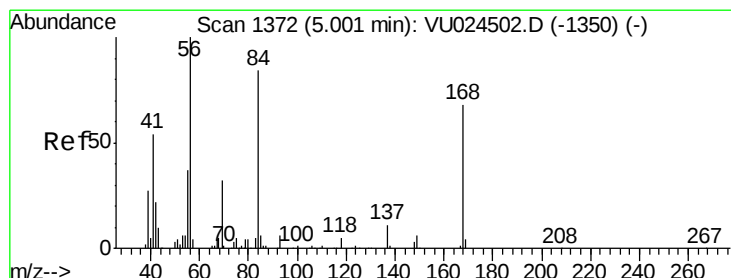
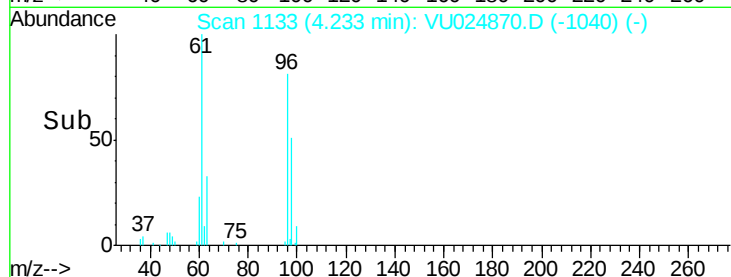
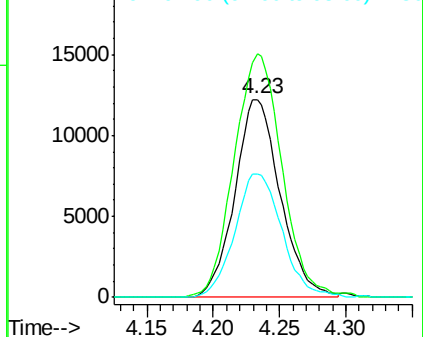
96 100

61 129.4 0.0 306.6

98 64.7 0.0 128.8



Abundance Ion 95.90 (95.60 to 96.60): VU0
Ion 60.90 (60.60 to 61.60): VU0
Ion 97.90 (97.60 to 98.60): VU0



#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VU024870.D

Acq: 25 Jun 2018 13:18

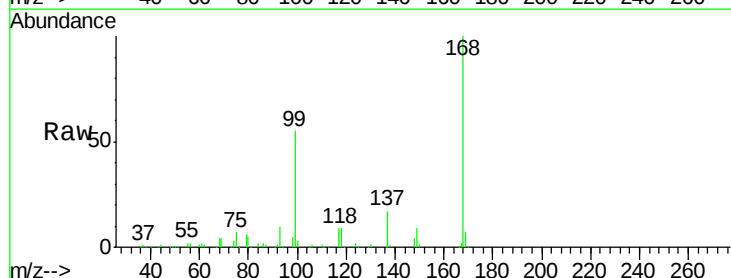
Tgt Ion: 56 Resp: 4354

Ion Ratio Lower Upper

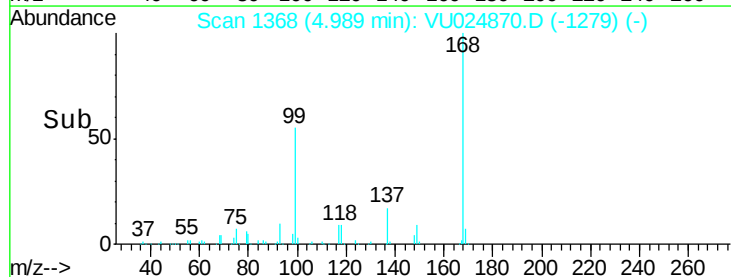
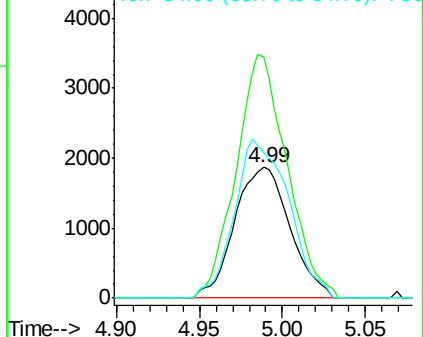
56 100

69 184.4 24.8 37.2#

84 111.3 65.2 97.8#



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

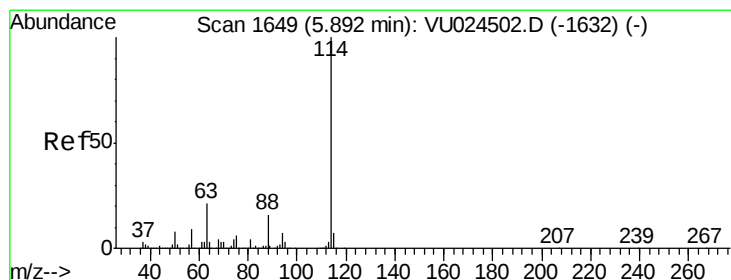
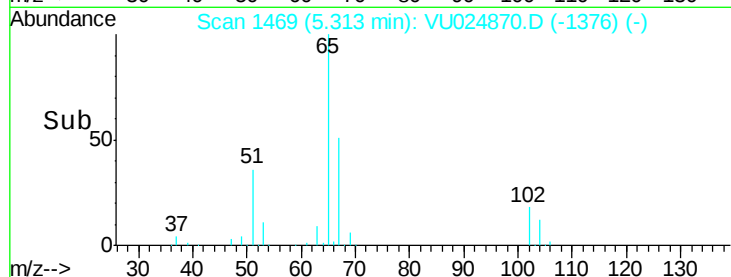
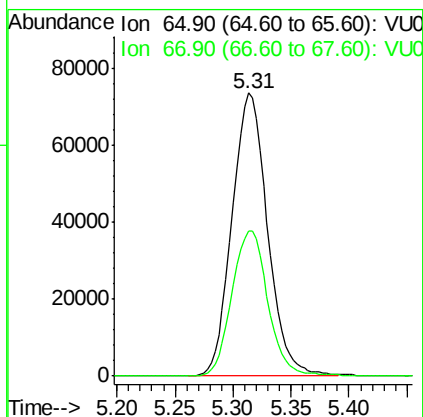
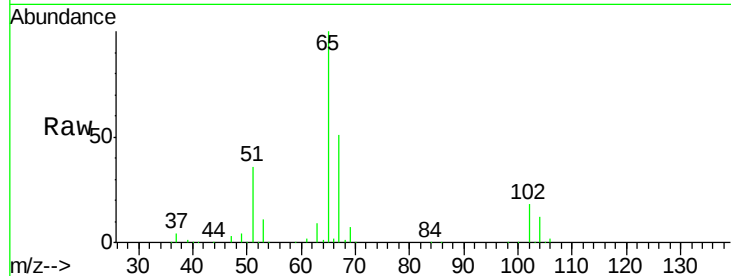




#33
 1,2-Dichloroethane-d4
 Concen: 45.66 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. -0.00 min
 Lab File: VU024870.D
 Acq: 25 Jun 2018 13:18

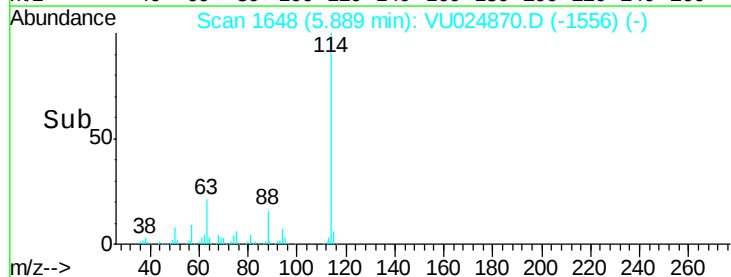
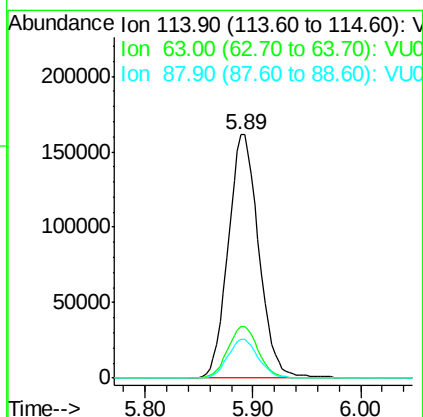
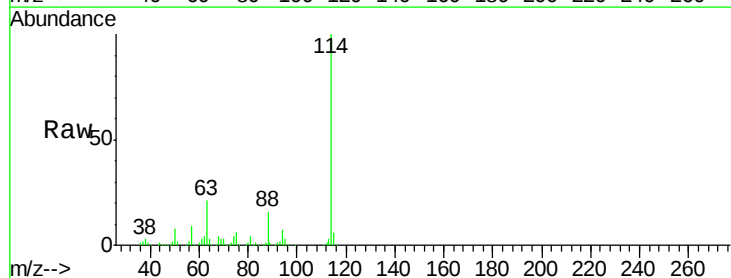
Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 65 Resp: 156351
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1648
 Delta R.T. -0.00 min
 Lab File: VU024870.D
 Acq: 25 Jun 2018 13:18

Tgt Ion: 114 Resp: 319829
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 45.4
 88 15.8 0.0 31.0





#35

Dibromofluoromethane

Concen: 47.70 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU024870.D

Acq: 25 Jun 2018 13:18

Instrument :

MSVOA_U

ClientSampleId :

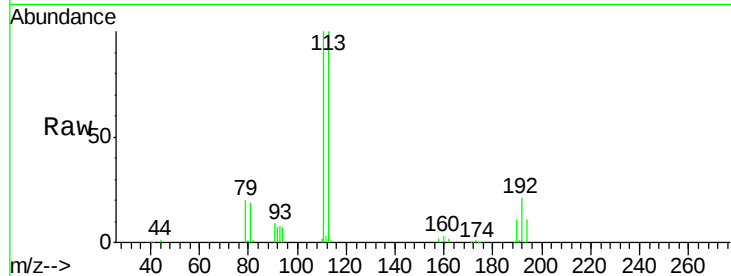
Tot Ion:113 Resp: 126625

Ion Ratio Lower Upper

113 100

111 101.7 82.2 123.4

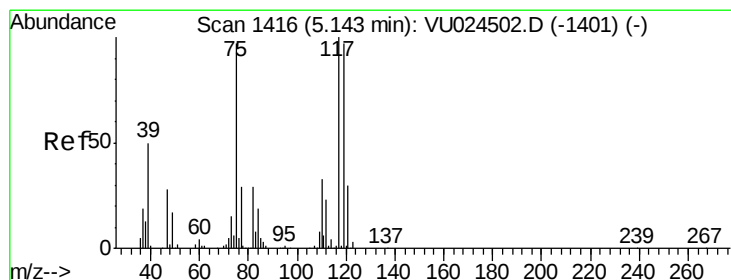
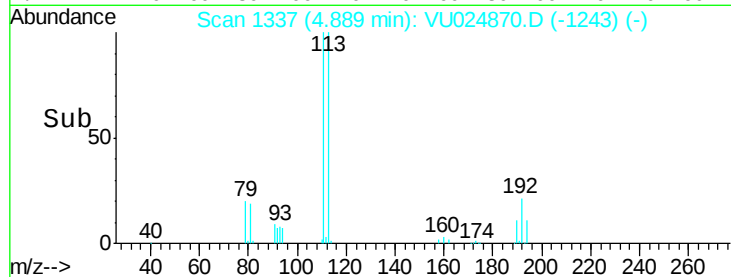
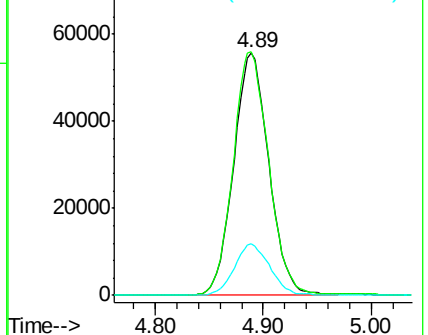
192 21.3 16.2 24.4



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: 4.03 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024870.D

Acq: 25 Jun 2018 13:18

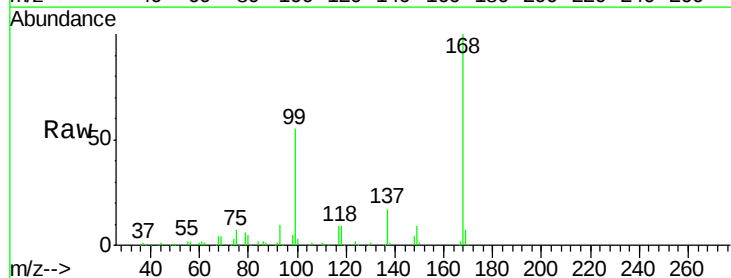
Tgt Ion: 75 Resp: 15155

Ion Ratio Lower Upper

75 100

110 10.2 17.0 50.9#

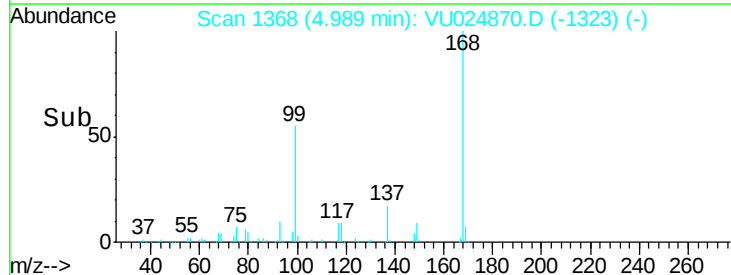
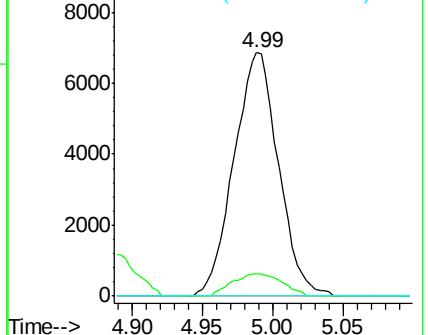
77 0.0 24.2 36.4#

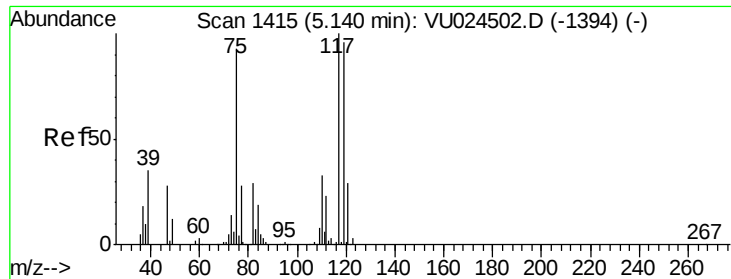


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 4.79 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.15 min

Lab File: VU024870.D

Acq: 25 Jun 2018 13:18

Instrument :

MSVOA_U

ClientSampleId :

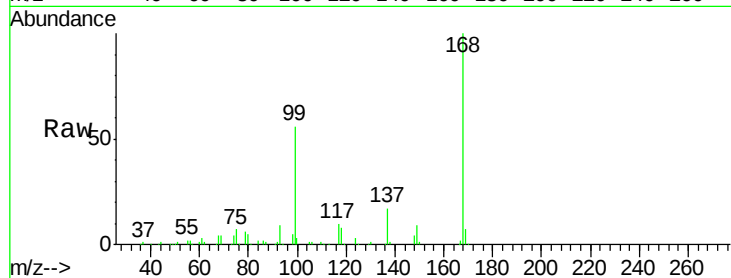
Tot Ion:117 Resp: 19793

Ion Ratio Lower Upper

117 100

119 4.6 76.1 114.1#

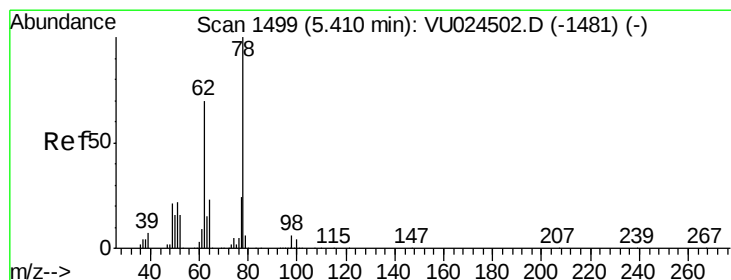
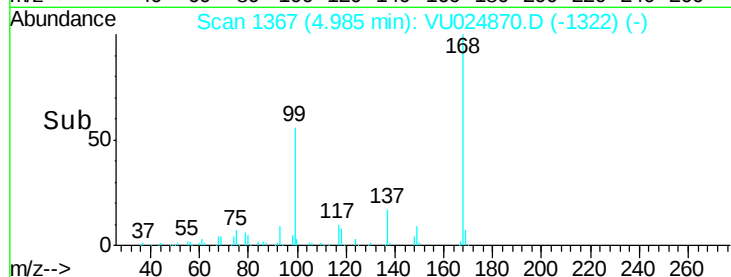
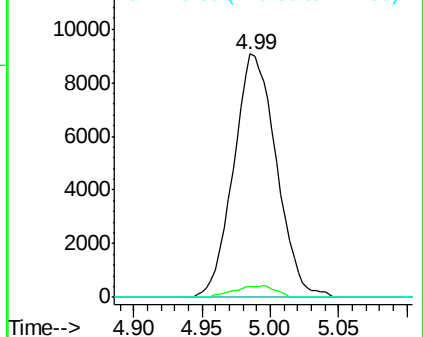
121 0.0 23.7 35.5#



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



#42

1,2-Dichloroethane

Concen: 0.33 ug/l

RT: 5.41 min Scan# 1498

Delta R.T. -0.00 min

Lab File: VU024870.D

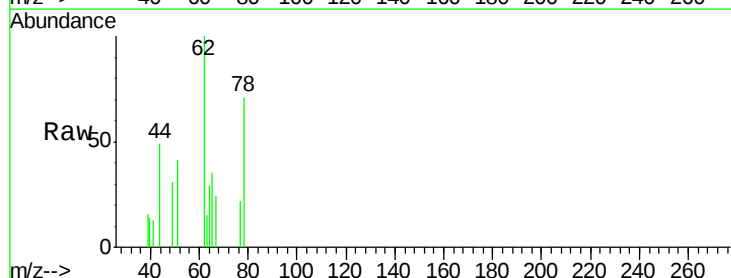
Acq: 25 Jun 2018 13:18

Tgt Ion: 62 Resp: 1361

Ion Ratio Lower Upper

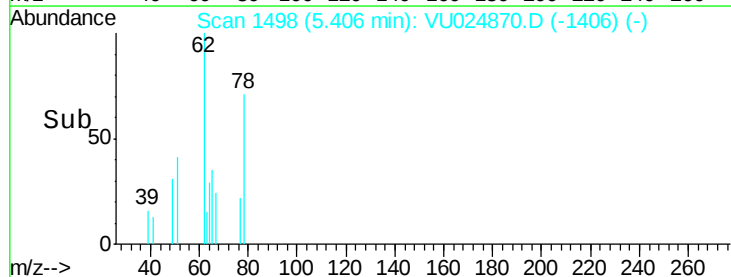
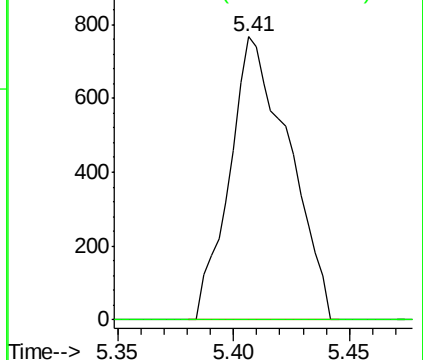
62 100

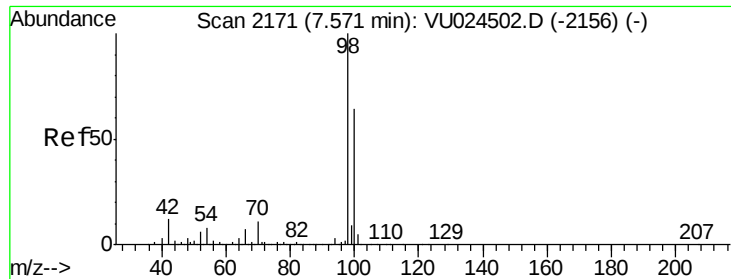
98 0.0 0.0 16.6



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

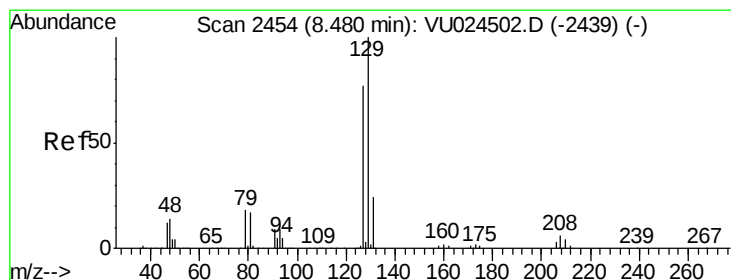
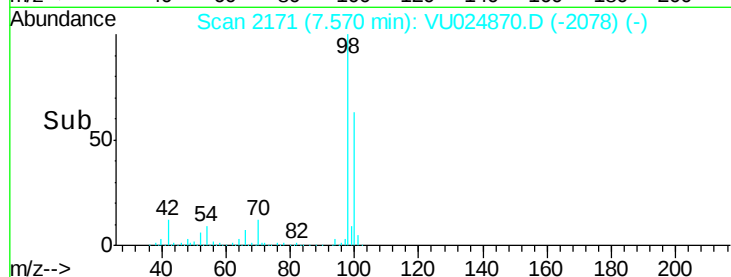
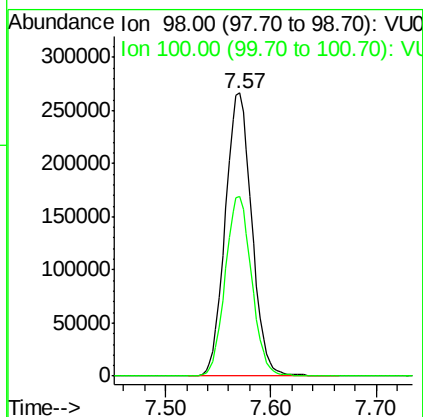
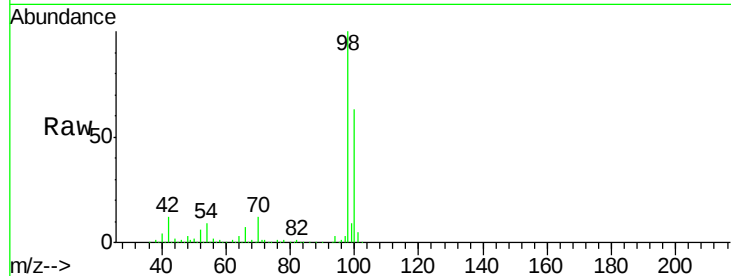




#50
Toluene-d8
Concen: 47.90 ug/l
RT: 7.57 min Scan# 2171
Delta R.T. -0.00 min
Lab File: VU024870.D
Acq: 25 Jun 2018 13:18

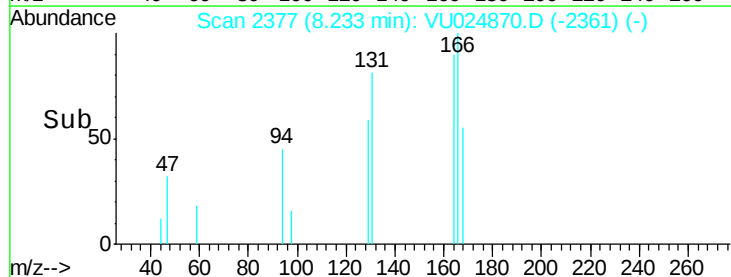
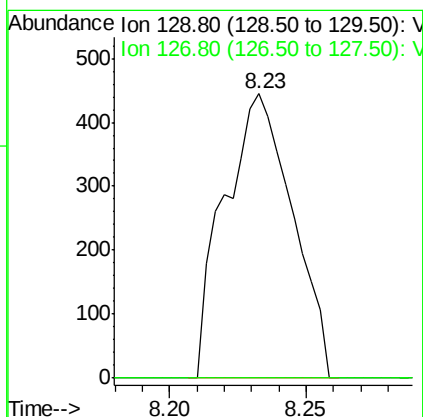
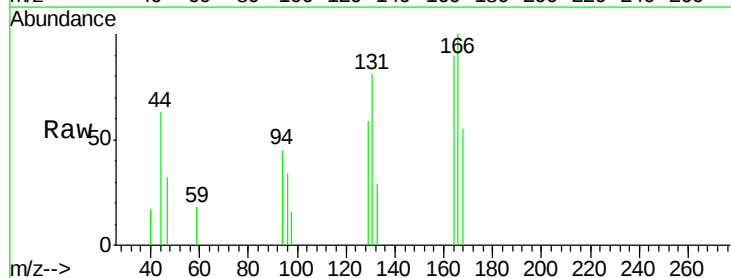
Instrument :
MSVOA_U
ClientSampled :

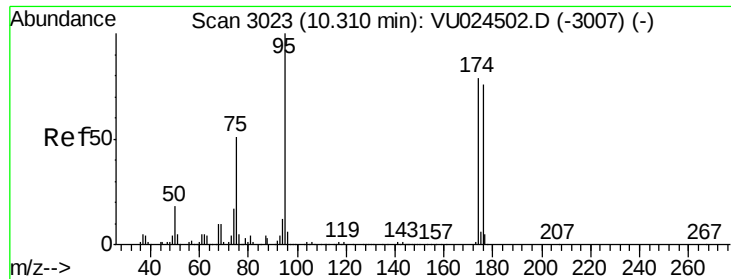
Tot Ion: 98 Resp: 463764
Ion Ratio Lower Upper
98 100
100 63.2 51.1 76.7



#60
Dibromochloromethane
Concen: 0.22 ug/l
RT: 8.23 min Scan# 2377
Delta R.T. -0.25 min
Lab File: VU024870.D
Acq: 25 Jun 2018 13:18

Tgt Ion: 129 Resp: 768
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#

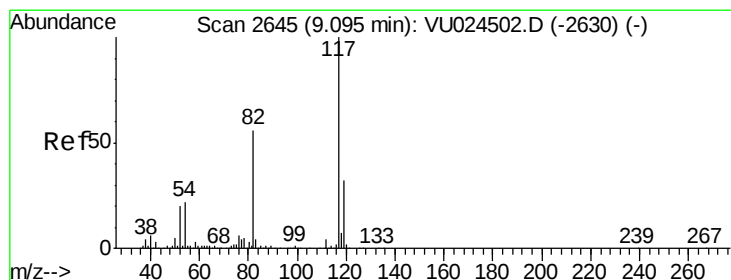
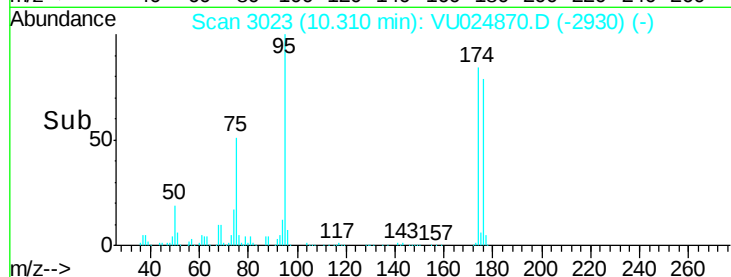
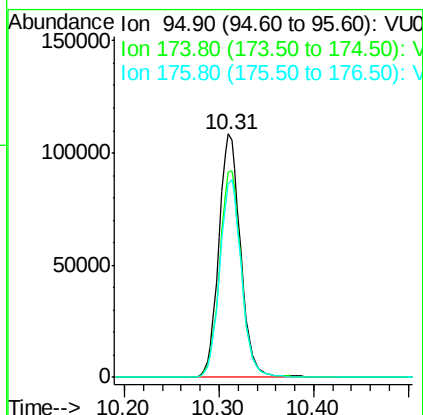
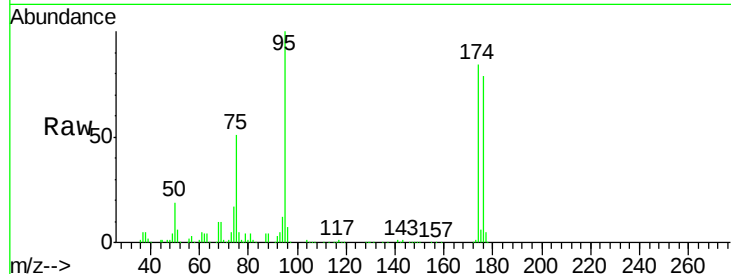




#62
4-Bromofluorobenzene
Concen: 45.04 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.00 min
Lab File: VU024870.D
Acq: 25 Jun 2018 13:18

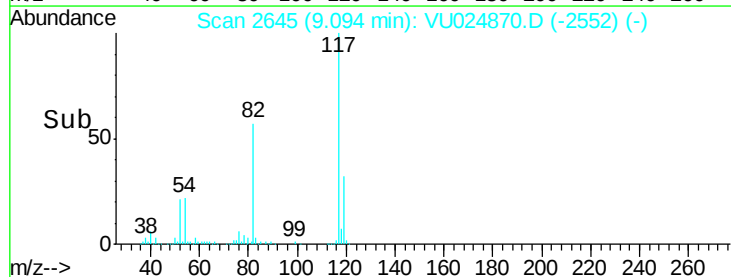
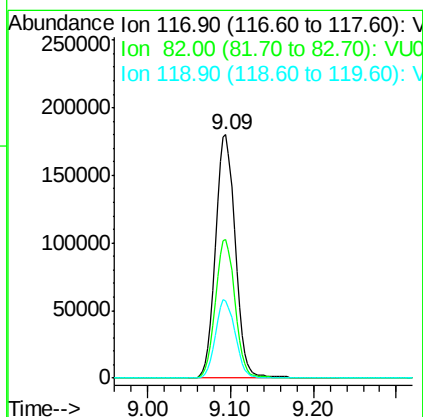
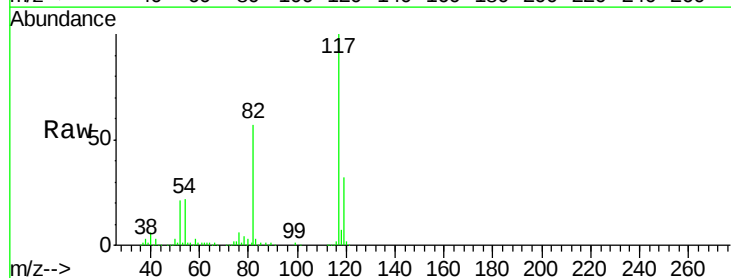
Instrument :
MSVOA_U
ClientSampled :

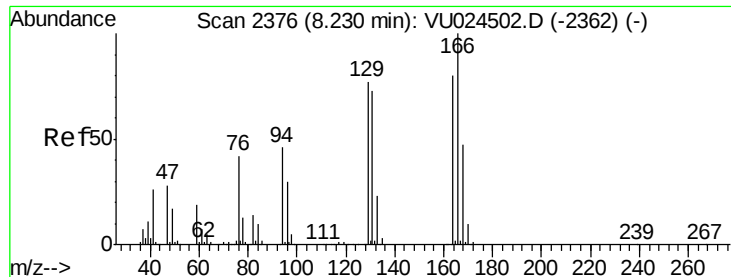
Tot Ion	Ratio	Lower	Upper
95	100		
174	84.5	0.0	165.8
176	80.8	0.0	159.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VU024870.D
Acq: 25 Jun 2018 13:18

Tgt Ion	Ratio	Lower	Upper
117	100		
82	57.0	44.3	66.5
119	32.0	25.4	38.2





#64

Tetrachloroethene

Concen: 0.39 ug/l

RT: 8.23 min Scan# 2377

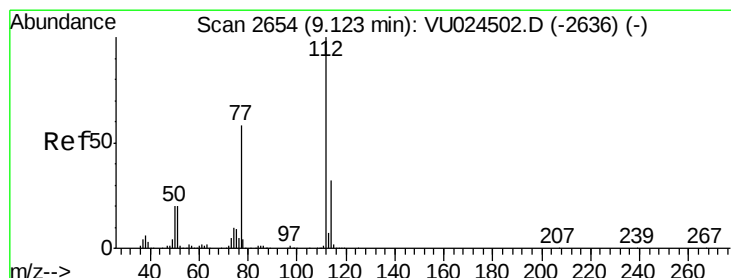
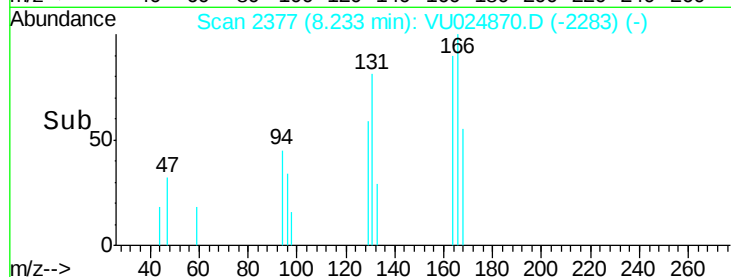
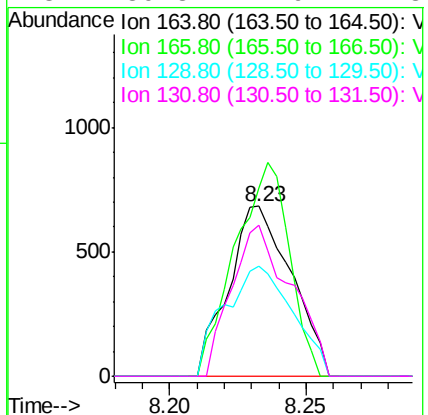
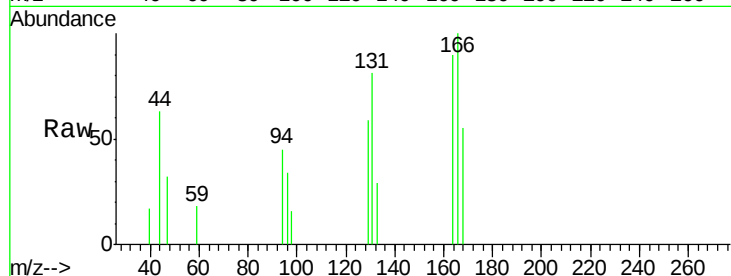
Delta R.T. 0.00 min

Lab File: VU024870.D

Acq: 25 Jun 2018 13:18

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	164	Resp:	1092
Ion	Ratio	Lower	Upper
164	100		
166	110.6	101.7	152.5
129	65.2	76.9	115.3#
131	89.3	74.9	112.3



#65

Chlorobenzene

Concen: 2.11 ug/l

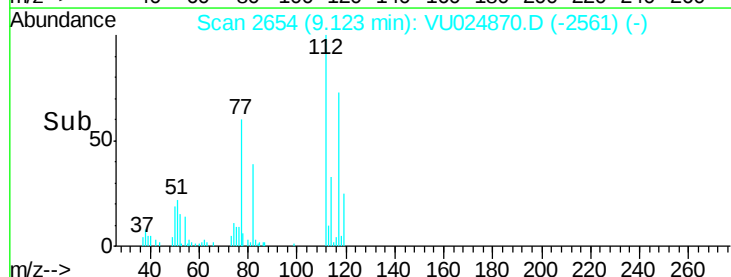
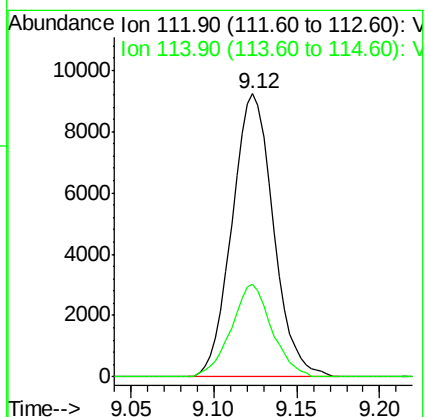
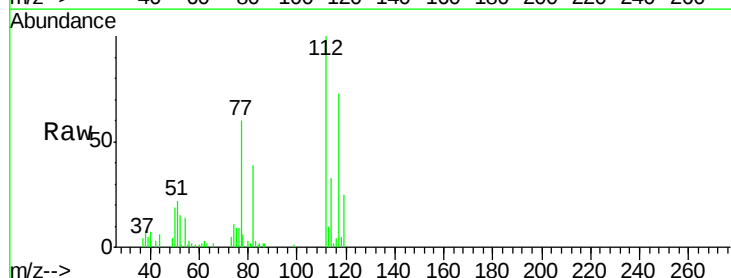
RT: 9.12 min Scan# 2654

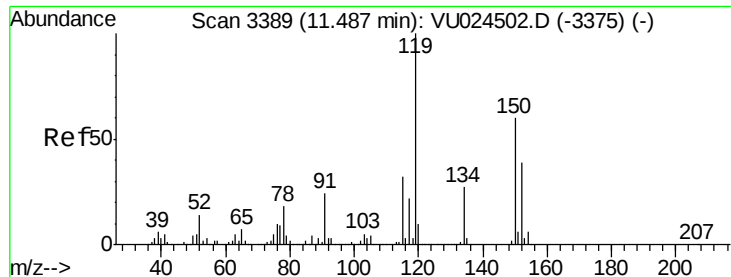
Delta R.T. -0.00 min

Lab File: VU024870.D

Acq: 25 Jun 2018 13:18

Tgt Ion:	112	Resp:	15989
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# 3389

Delta R.T. -0.00 min

Lab File: VU024870.D

Acq: 25 Jun 2018 13:18

Instrument :

MSVOA_U

ClientSampleId :

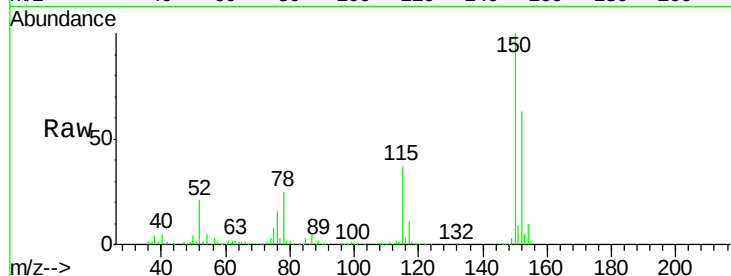
Tot Ion:152 Resp: 159448

Ion Ratio Lower Upper

152 100

115 57.8 43.0 129.0

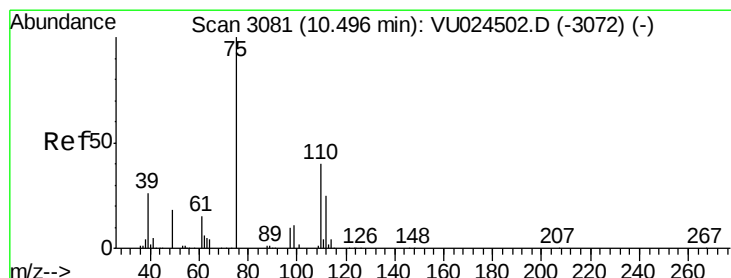
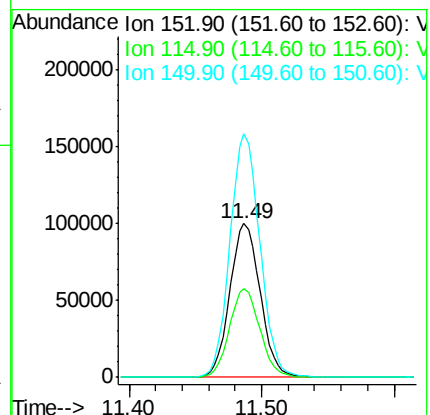
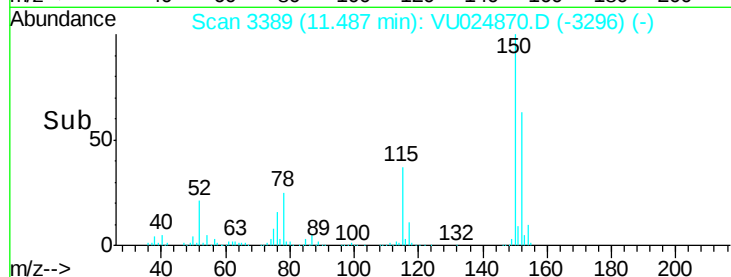
150 156.4 0.0 354.0



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: 25.53 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024870.D

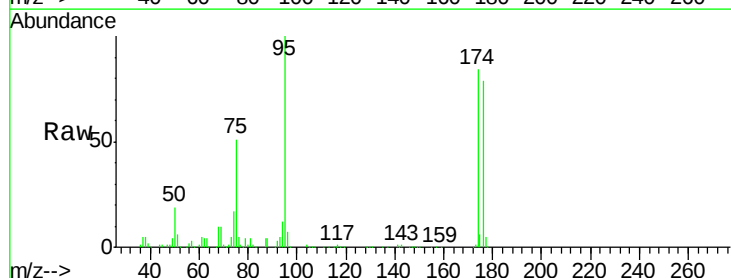
Acq: 25 Jun 2018 13:18

Tgt Ion: 75 Resp: 89627

Ion Ratio Lower Upper

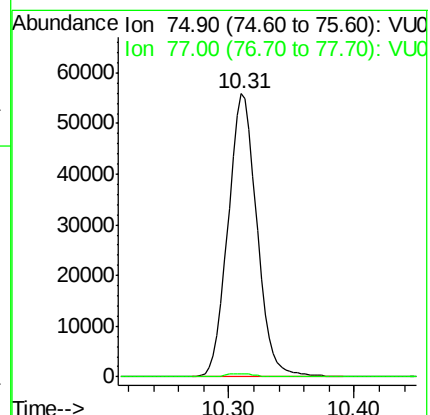
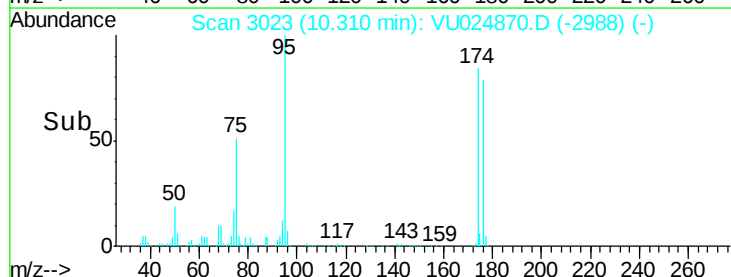
75 100

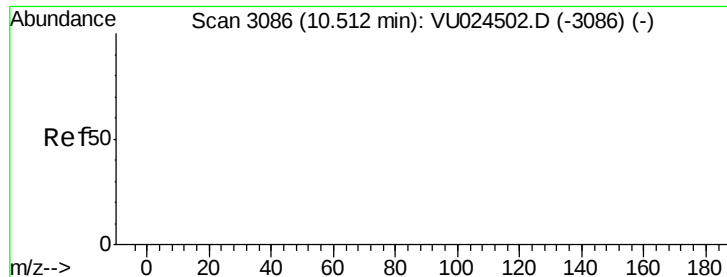
77 1.0 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

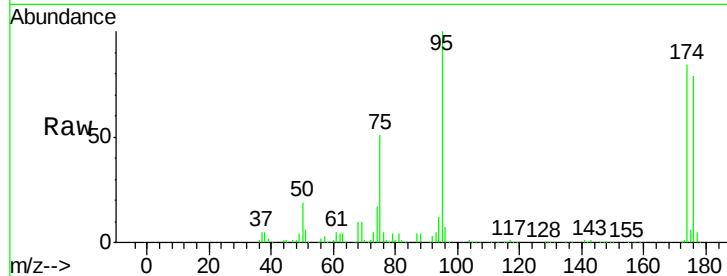




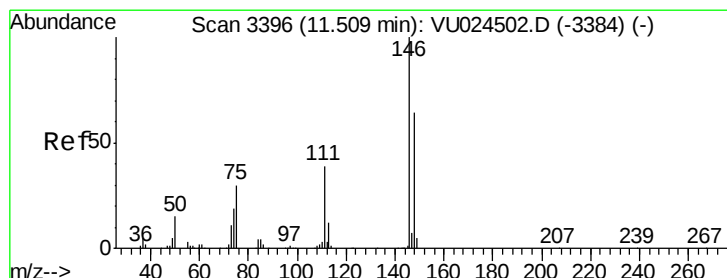
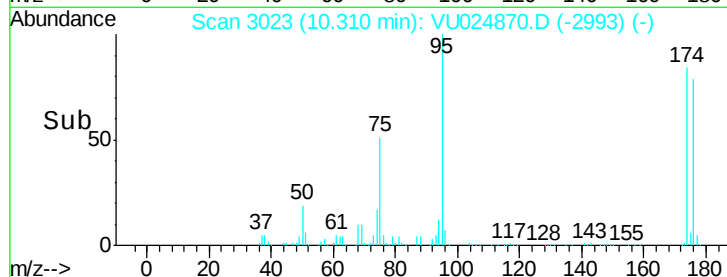
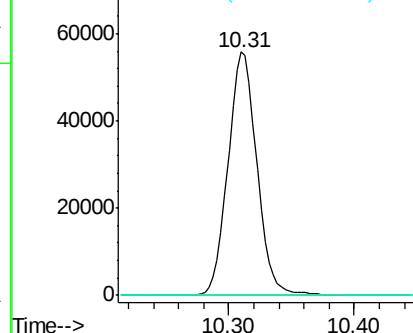
#81
 trans-1,4-Dichloro-2-butene
 Concen: 59.09 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.20 min
 Lab File: VU024870.D
 Acq: 25 Jun 2018 13:18

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 75 Resp: 89627
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0

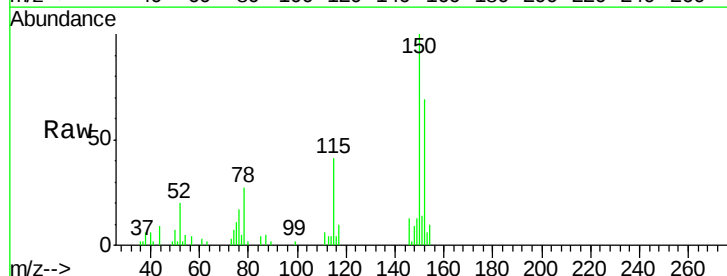


Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 53.00 (52.70 to 53.70): VU0
 Ion 88.90 (88.60 to 89.60): VU0

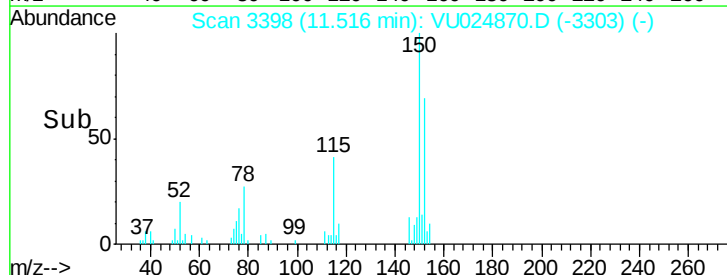
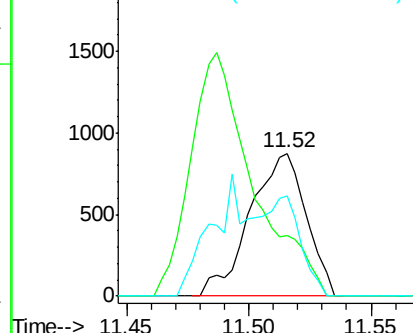


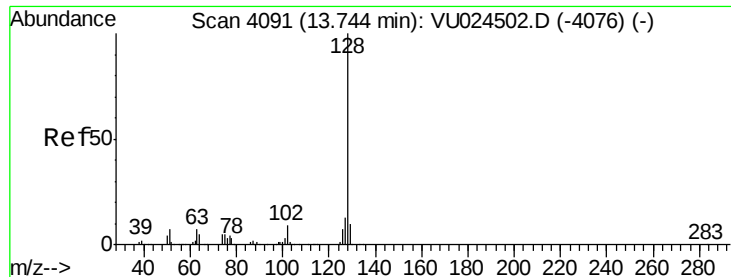
#88
 1,4-Dichlorobenzene
 Concen: 0.24 ug/l
 RT: 11.52 min Scan# 3398
 Delta R.T. 0.01 min
 Lab File: VU024870.D
 Acq: 25 Jun 2018 13:18

Tgt Ion: 146 Resp: 1389
 Ion Ratio Lower Upper
 146 100
 111 0.0 19.5 58.5#
 148 0.0 32.4 97.0#



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: 0.83 ug/l

RT: 13.75 min Scan# 4093

Delta R.T. 0.01 min

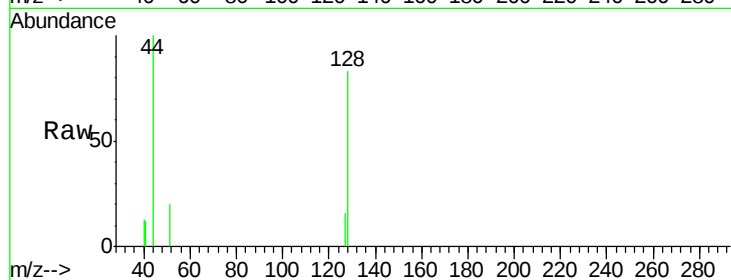
Lab File: VU024870.D

Acq: 25 Jun 2018 13:18

Instrument :

MSVOA_U

ClientSampleId :



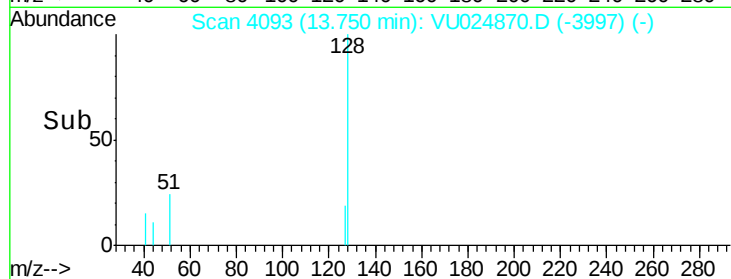
Tot Ion:128 Resp: 1845

Ion Ratio Lower Upper

128 100

127 9.0 10.6 16.0#

129 2.7 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

1000

800

600

400

200

0

13.75

13.70

13.80

Time-->