

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061418\
 Data File : VU024571.D
 Acq On : 15 Jun 2018 04:04
 Operator : MD/SY
 Sample : J3478-08
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jun 15 05:14:14 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	4.99	168	183435	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	302009	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	288635	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	170317	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.32	65	132370	44.20	ug/l	0.00
Spiked Amount			Recovery	=	88.40%	
35) Dibromofluoromethane	4.89	113	120620	48.12	ug/l	0.00
Spiked Amount			Recovery	=	96.24%	
50) Toluene-d8	7.57	98	442466	48.40	ug/l	0.00
Spiked Amount			Recovery	=	96.80%	
62) 4-Bromofluorobenzene	10.31	95	171465	47.24	ug/l	0.00
Spiked Amount			Recovery	=	94.48%	

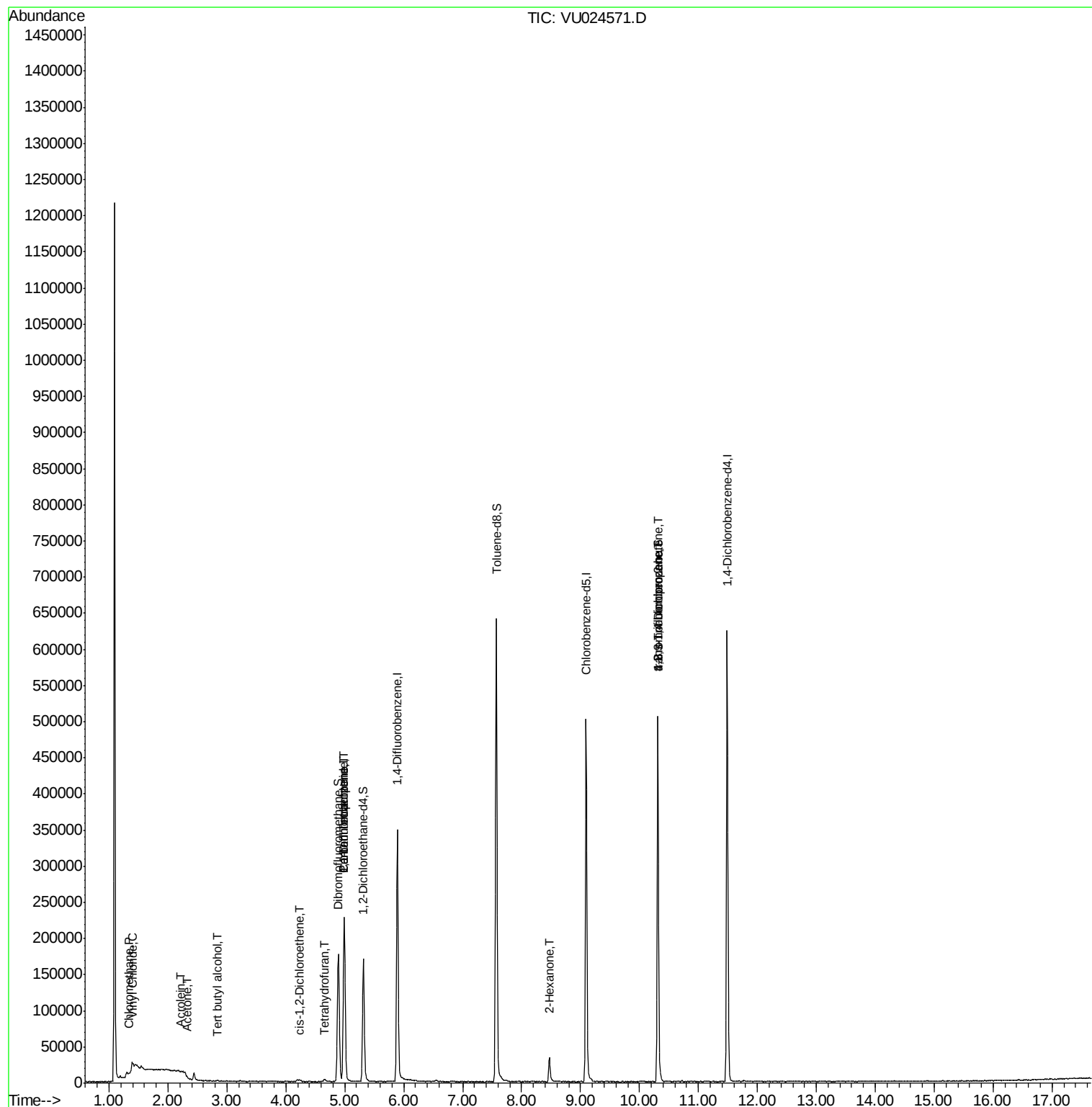
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	690	0.294	ug/l #	42
4) Vinyl Chloride	1.41	62	4032	1.667	ug/l #	72
6) Chloroethane	1.72	64	517	Below Cal	#	44
8) Diethyl Ether	1.84	74	19	Below Cal	#	1
11) Tert butyl alcohol	2.83	59	411	0.564	ug/l #	92
13) Acrolein	2.21	56	179	0.468	ug/l #	1
16) Acetone	2.33	43	1500	0.932	ug/l #	84
27) cis-1,2-Dichloroethene	4.23	96	1630	0.616	ug/l	78
29) Tetrahydrofuran	4.64	42	2444	1.826	ug/l #	78
31) Cyclohexane	4.99	56	3840	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	13031	3.672	ug/l #	51
38) Carbon Tetrachloride	4.99	117	17110	4.384	ug/l #	17
59) 2-Hexanone	8.47	43	6116	1.783	ug/l #	52
76) 1,2,3-Trichloropropane	10.31	75	84365	22.499	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	84365	52.072	ug/l #	100

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.00 min

Lab File: VU024571.D

Acq: 15 Jun 2018 04:04

Instrument :

MSVOA_U

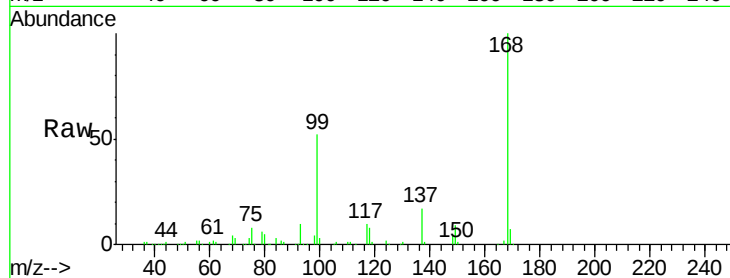
ClientSampled :

Tot Ion:168 Resp: 183435

Ion Ratio Lower Upper

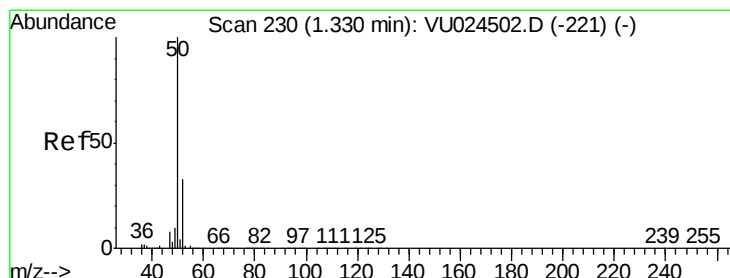
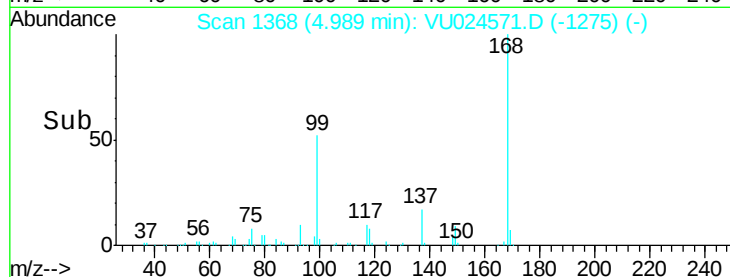
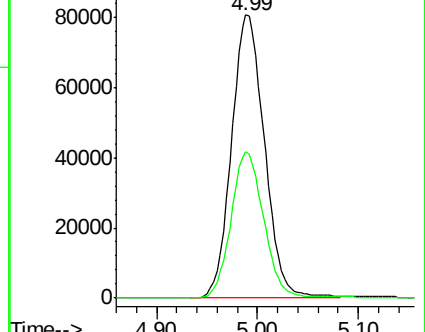
168 100

99 51.6 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) (-)



#3

Chloromethane

Concen: 0.294 ug/l

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU024571.D

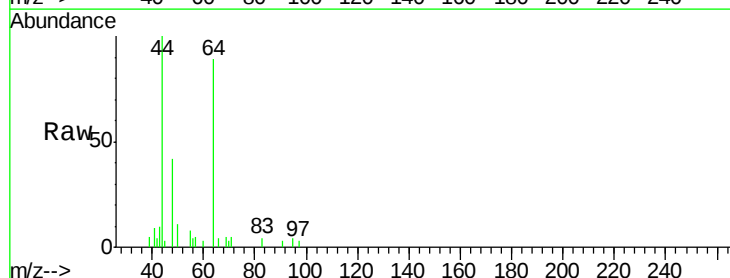
Acq: 15 Jun 2018 04:04

Tgt Ion: 50 Resp: 690

Ion Ratio Lower Upper

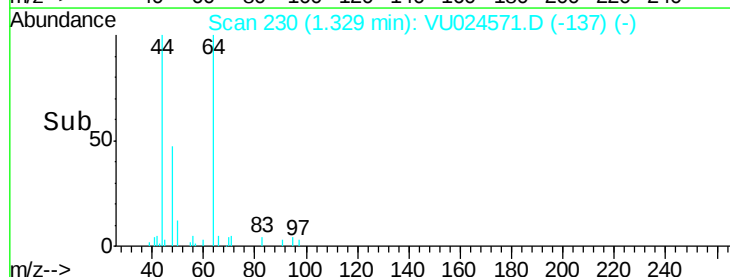
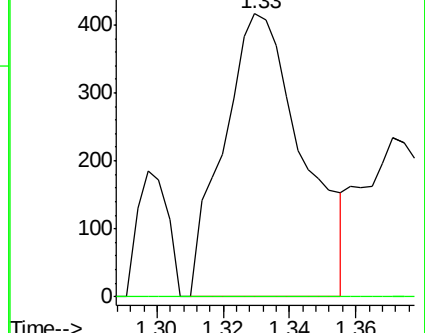
50 100

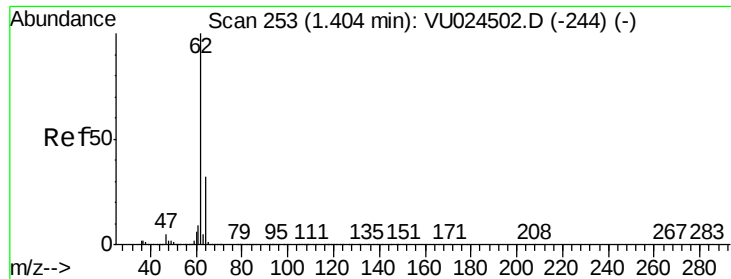
52 0.0 26.4 39.6#



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

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





#4

Vinyl Chloride

Concen: 1.667 ug/l

RT: 1.41 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU024571.D

Acq: 15 Jun 2018 04:04

Instrument :

MSVOA_U

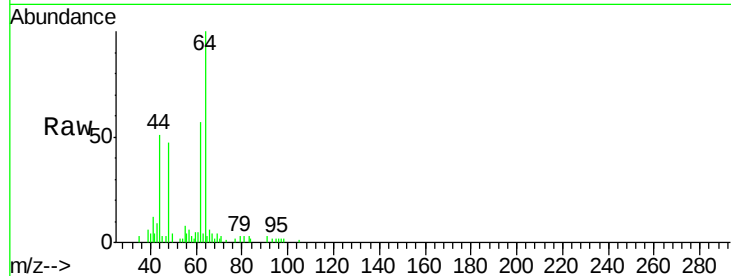
ClientSampleId :

Tot Ion: 62 Resp: 4032

Ion Ratio Lower Upper

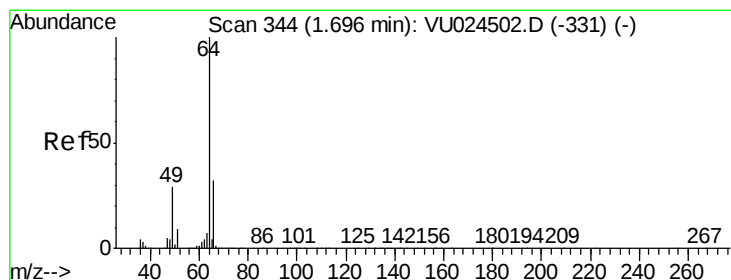
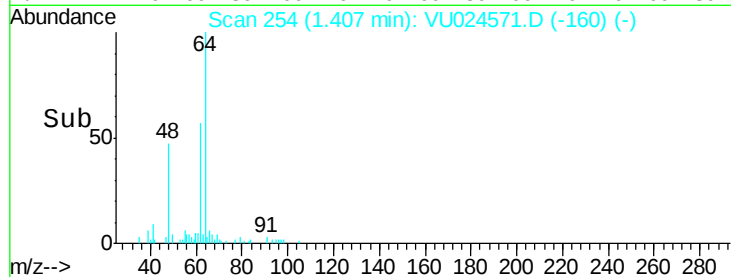
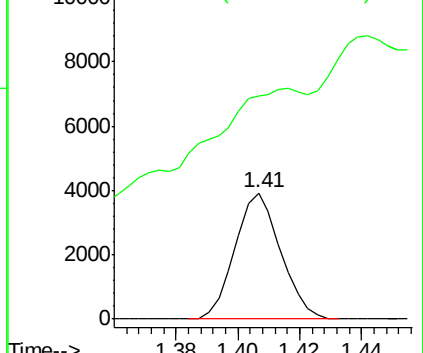
62 100

64 46.1 24.8 37.2#



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 350

Delta R.T. 0.02 min

Lab File: VU024571.D

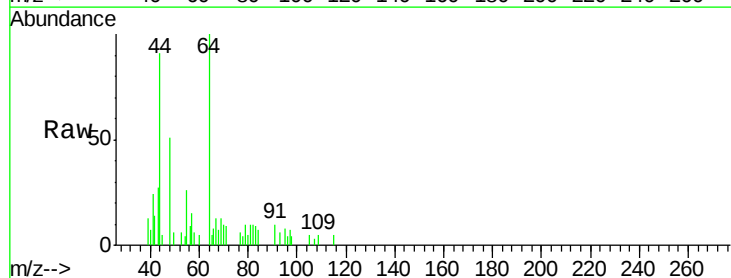
Acq: 15 Jun 2018 04:04

Tgt Ion: 64 Resp: 517

Ion Ratio Lower Upper

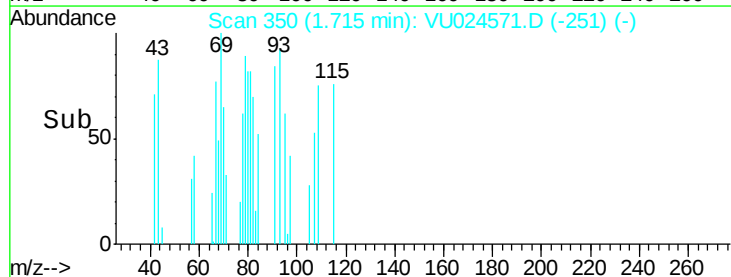
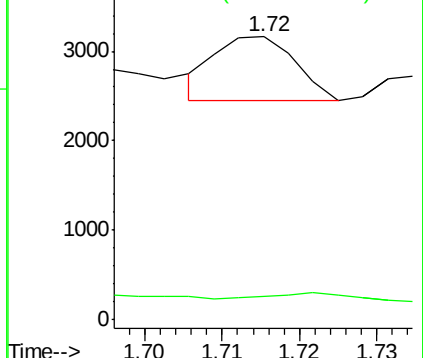
64 100

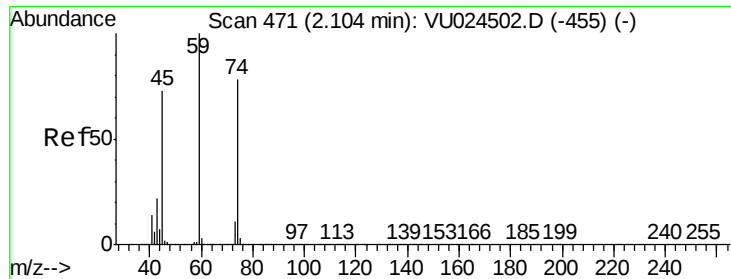
66 0.8 25.5 38.3#



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: 1.84 min Scan# 388

Delta R.T. -0.27 min

Lab File: VU024571.D

Acq: 15 Jun 2018 04:04

Instrument :

MSVOA_U

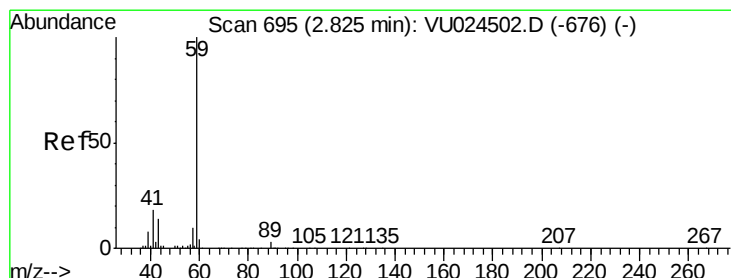
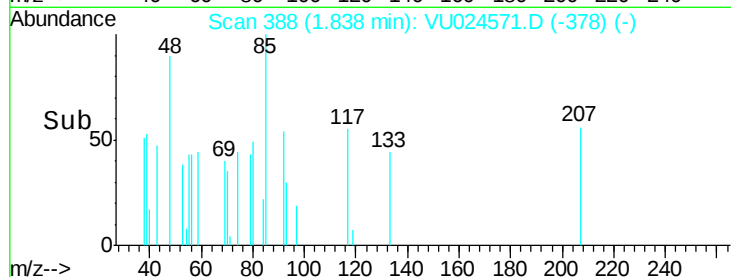
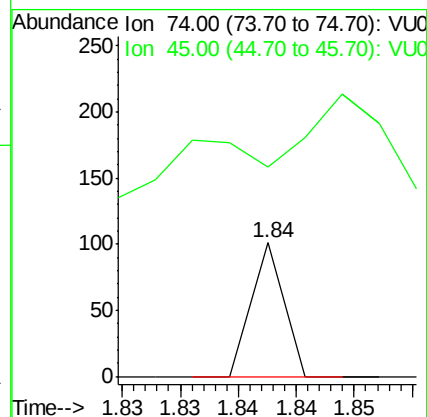
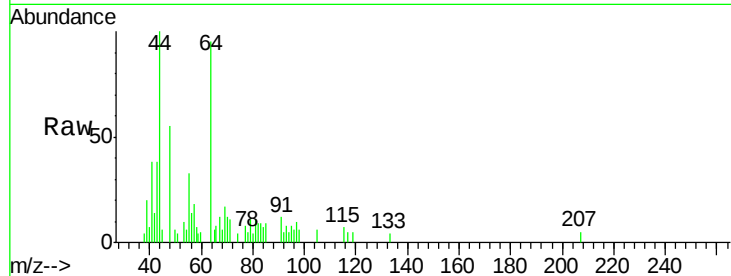
ClientSampled :

Tot Ion: 74 Resp: 19

Ion Ratio Lower Upper

74 100

45 0.0 55.0 165.0#



#11

Tert butyl alcohol

Concen: 0.564 ug/l

RT: 2.83 min Scan# 698

Delta R.T. 0.01 min

Lab File: VU024571.D

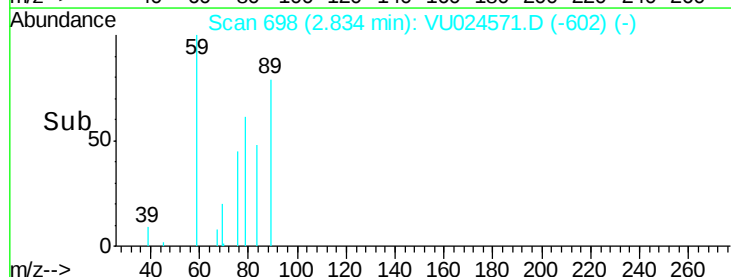
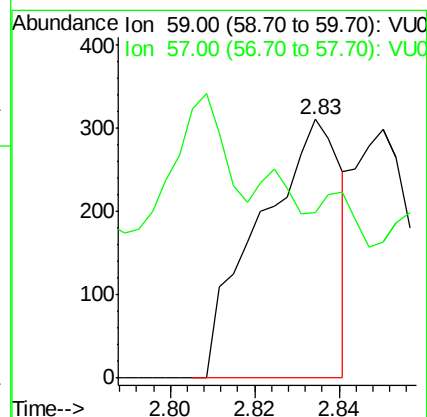
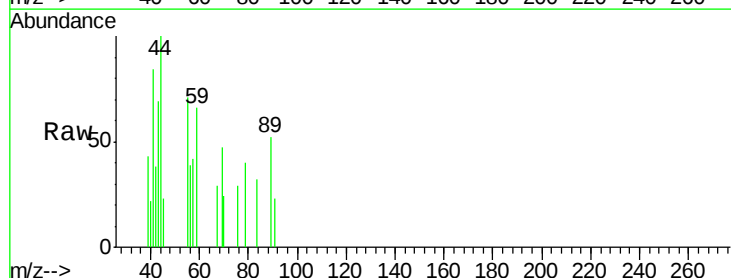
Acq: 15 Jun 2018 04:04

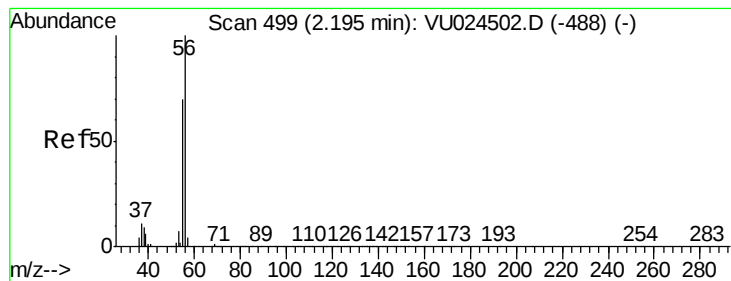
Tgt Ion: 59 Resp: 411

Ion Ratio Lower Upper

59 100

57 7.5 8.5 12.7#





#13

Acrolein

Concen: 0.468 ug/l

RT: 2.21 min Scan# 504

Delta R.T. 0.02 min

Lab File: VU024571.D

Acq: 15 Jun 2018 04:04

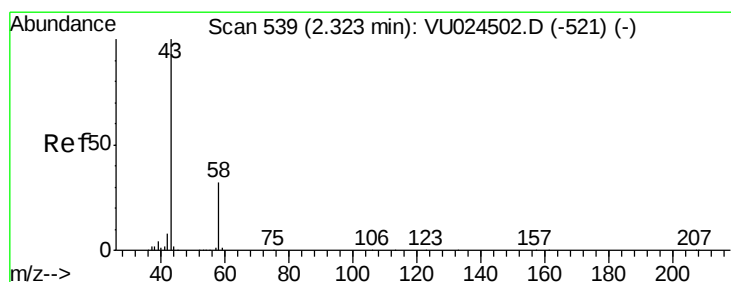
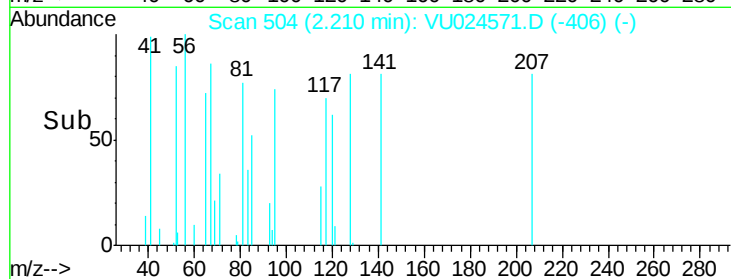
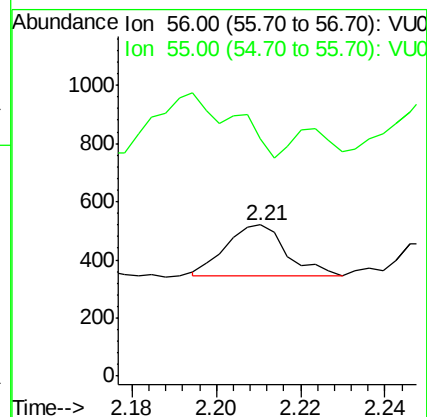
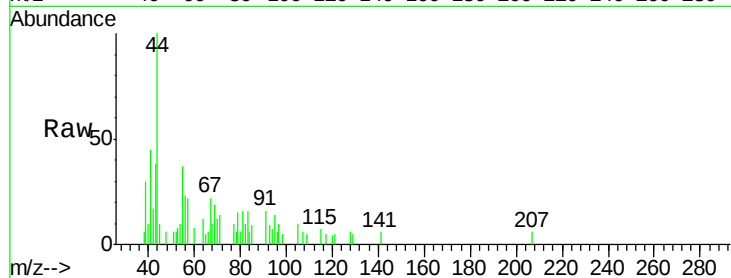
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 56 Resp: 179

Ion Ratio Lower Upper

56 100

55 167.6 58.4 87.6#



#16

Acetone

Concen: 0.932 ug/l

RT: 2.33 min Scan# 540

Delta R.T. 0.00 min

Lab File: VU024571.D

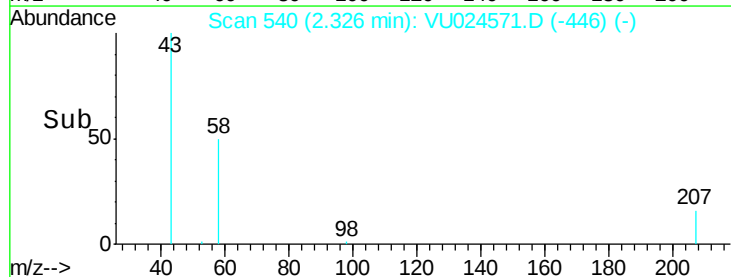
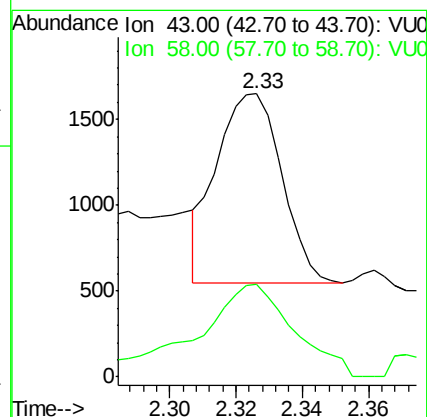
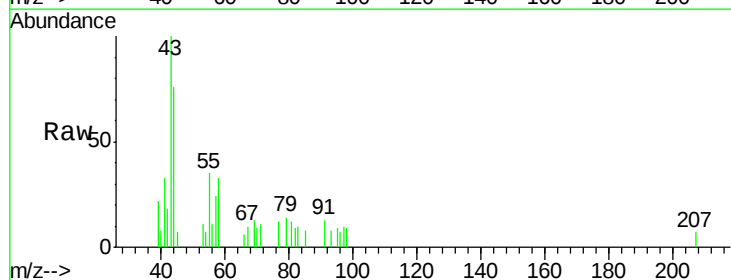
Acq: 15 Jun 2018 04:04

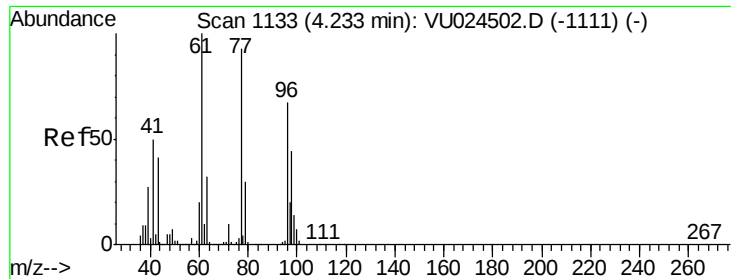
Tgt Ion: 43 Resp: 1500

Ion Ratio Lower Upper

43 100

58 39.2 24.4 36.6#





#27

cis-1,2-Dichloroethene

Concen: 0.616 ug/l

RT: 4.23 min Scan# 1133

Delta R.T. -0.00 min

Lab File: VU024571.D

Acq: 15 Jun 2018 04:04

Instrument :
MSVOA_U
ClientSampleId :

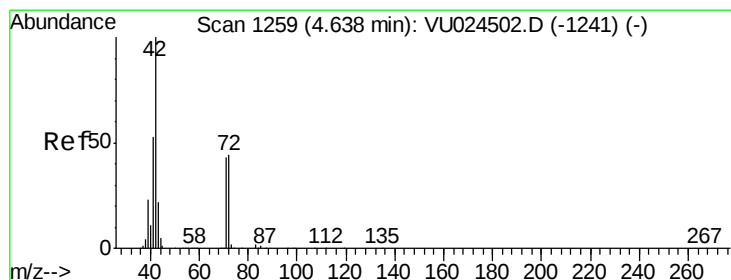
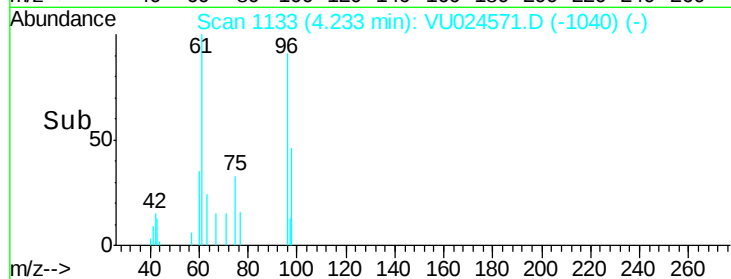
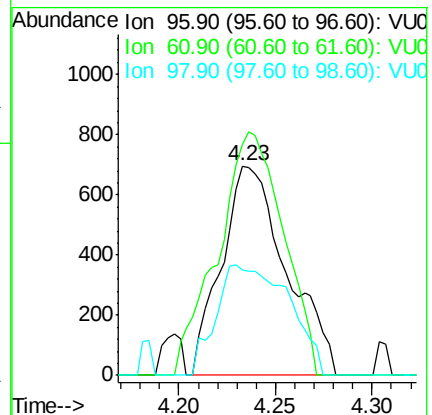
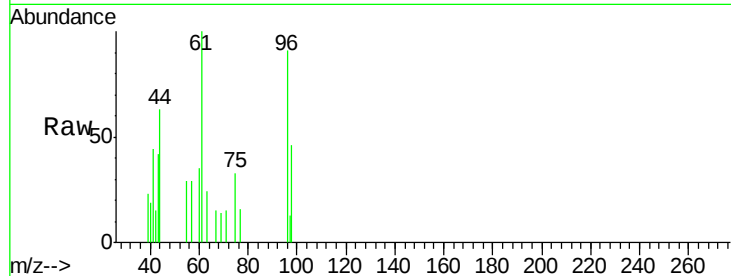
Tot Ion: 96 Resp: 1630

Ion Ratio Lower Upper

96 100

61 117.5 0.0 306.6

98 59.1 0.0 128.8



#29

Tetrahydrofuran

Concen: 1.826 ug/l

RT: 4.64 min Scan# 1260

Delta R.T. 0.00 min

Lab File: VU024571.D

Acq: 15 Jun 2018 04:04

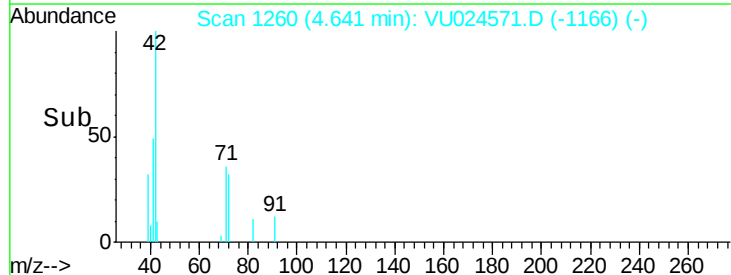
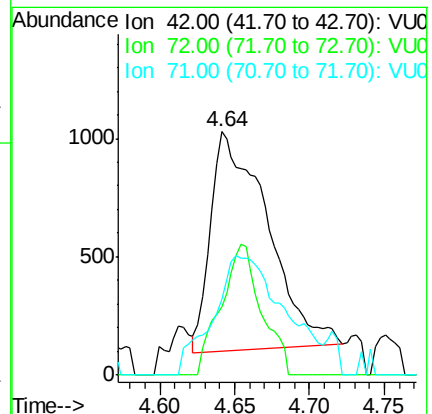
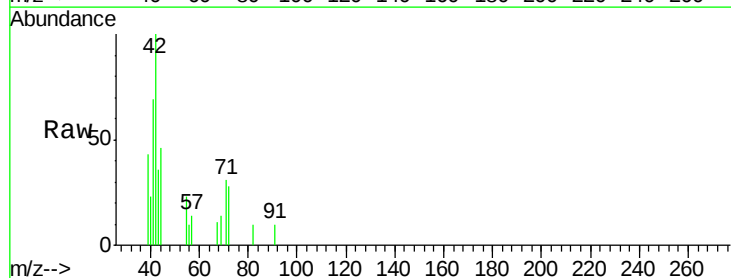
Tgt Ion: 42 Resp: 2444

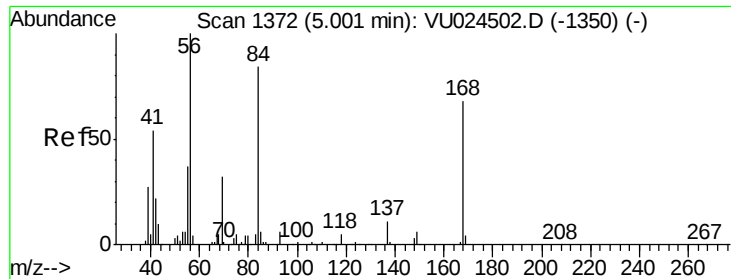
Ion Ratio Lower Upper

42 100

72 42.6 34.5 51.7

71 68.1 32.2 48.4#





#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1369

Delta R.T. -0.01 min

Lab File: VU024571.D

Acq: 15 Jun 2018 04:04

Instrument :
MSVOA_U
ClientSampleId :

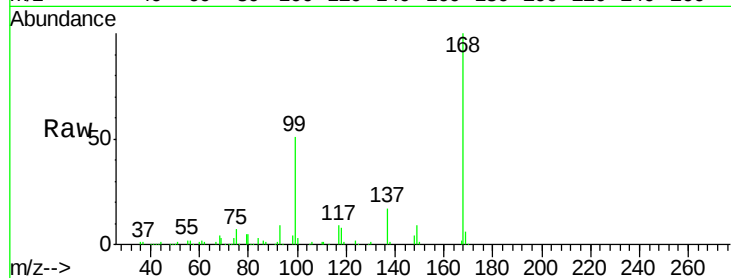
Tot Ion: 56 Resp: 3840

Ion Ratio Lower Upper

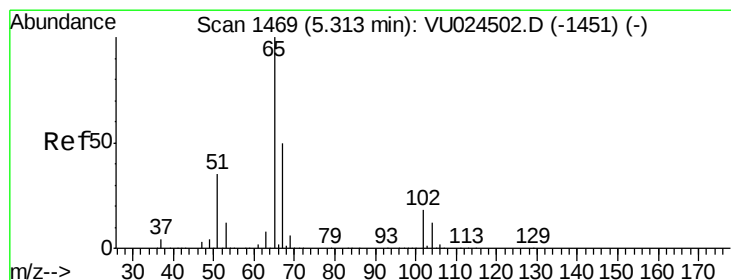
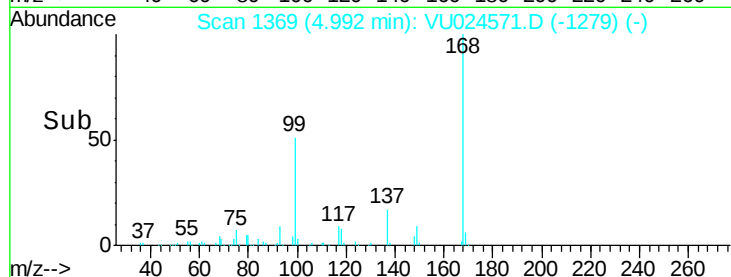
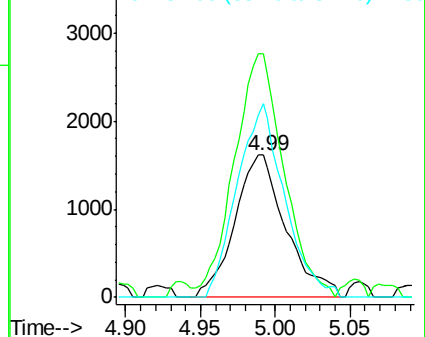
56 100

69 164.3 24.8 37.2#

84 136.0 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: 44.203 ug/l

RT: 5.32 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VU024571.D

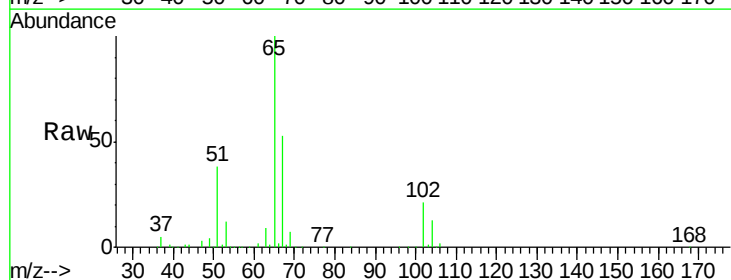
Acq: 15 Jun 2018 04:04

Tgt Ion: 65 Resp: 132370

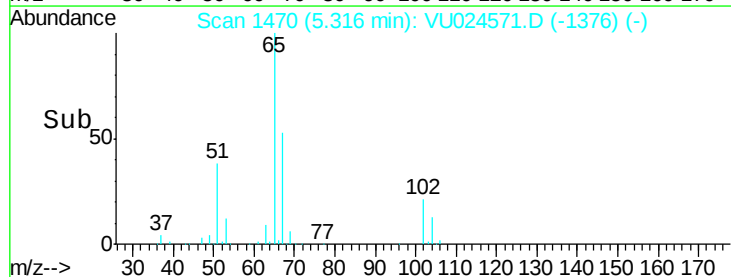
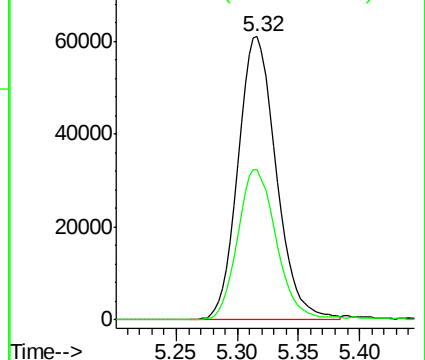
Ion Ratio Lower Upper

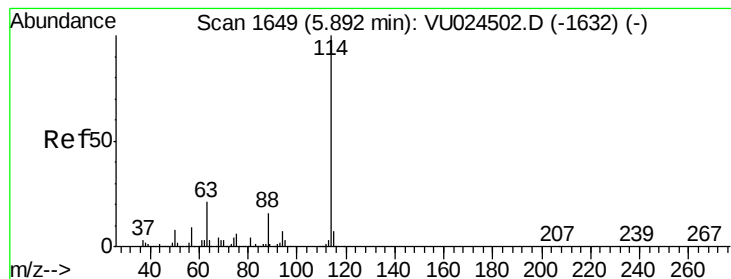
65 100

67 54.0 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU024571.D

Acq: 15 Jun 2018 04:04

Instrument :

MSVOA_U

ClientSampleId :

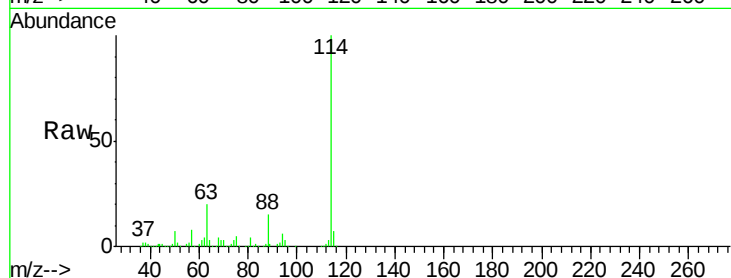
Tot Ion:114 Resp: 302009

Ion Ratio Lower Upper

114 100

63 19.5 0.0 45.4

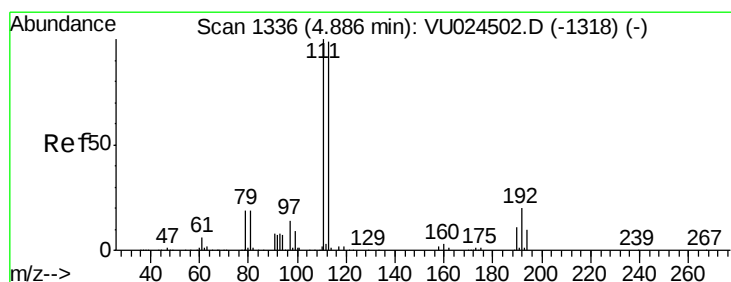
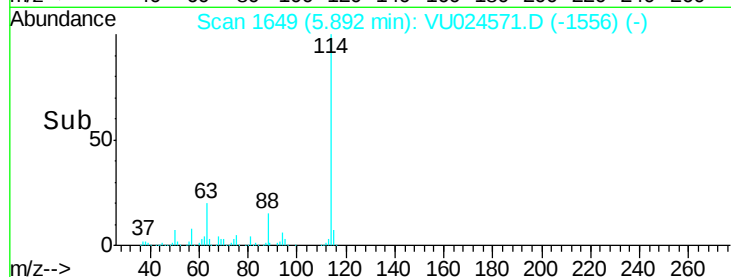
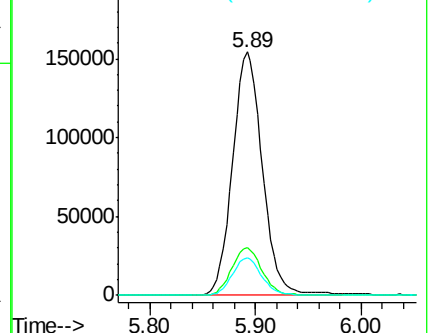
88 15.4 0.0 31.0



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: 48.124 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU024571.D

Acq: 15 Jun 2018 04:04

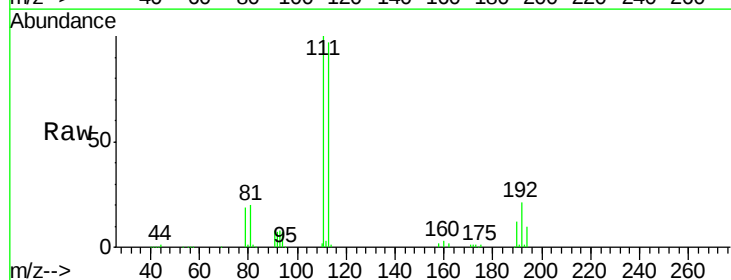
Tgt Ion:113 Resp: 120620

Ion Ratio Lower Upper

113 100

111 103.6 82.2 123.4

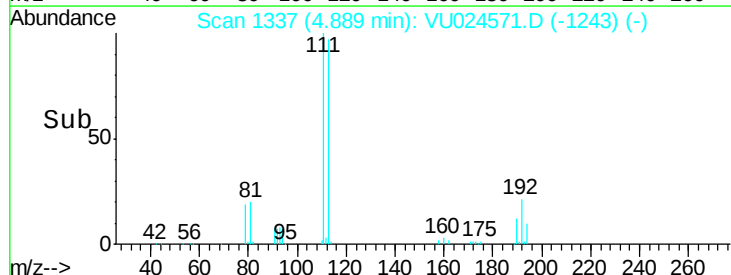
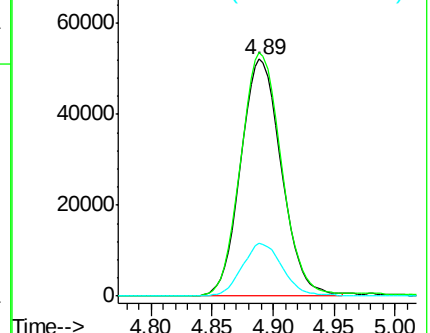
192 22.0 16.2 24.4

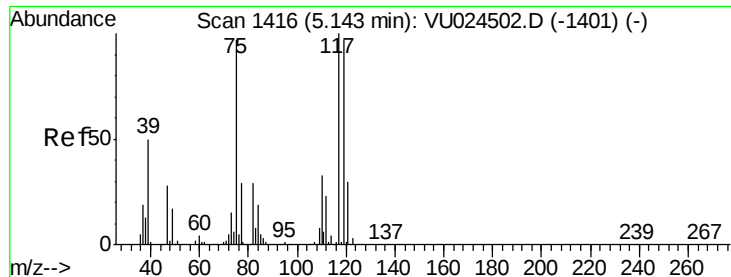


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.672 ug/l

RT: 4.99 min Scan# 1368

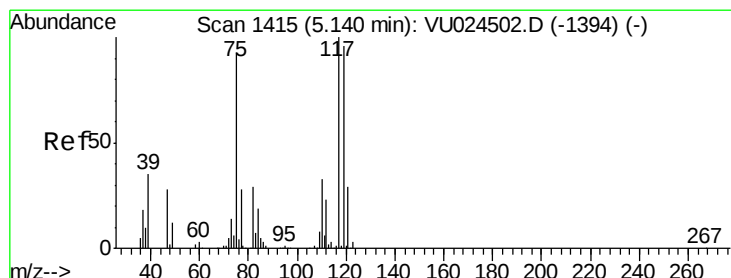
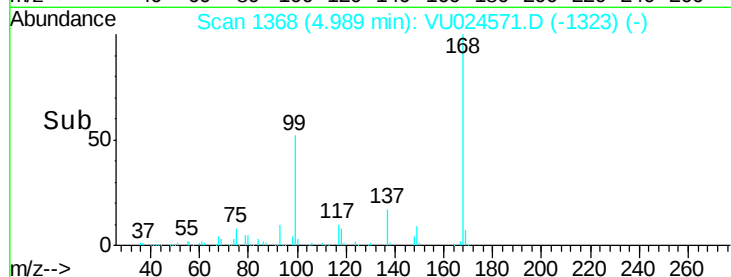
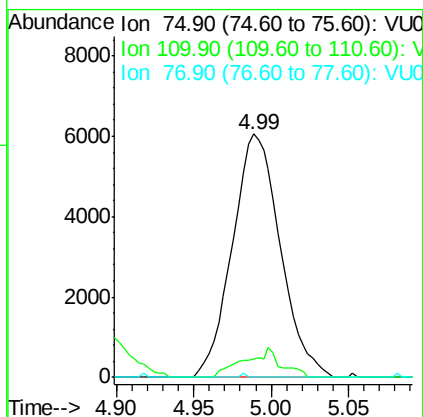
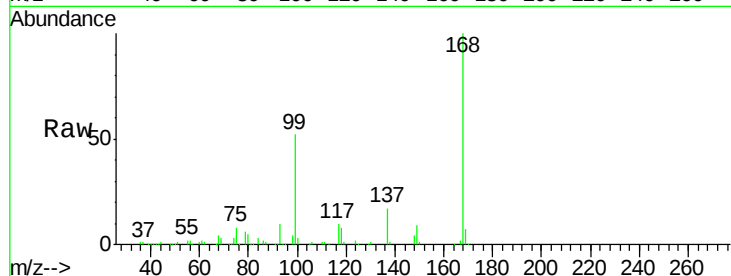
Delta R.T. -0.15 min

Lab File: VU024571.D

Acq: 15 Jun 2018 04:04

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	75	Resp:	13031
Ion	Ratio	Lower	Upper
75	100		
110	9.3	17.0	50.9#
77	0.1	24.2	36.4#



#38

Carbon Tetrachloride

Concen: 4.384 ug/l

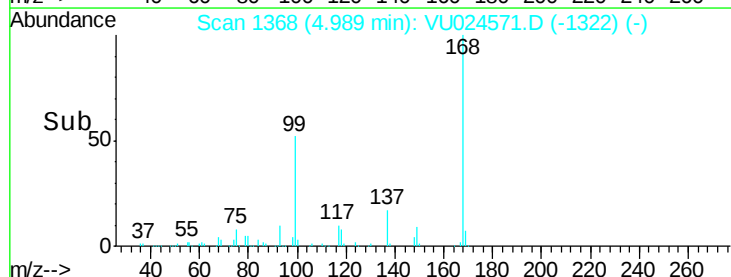
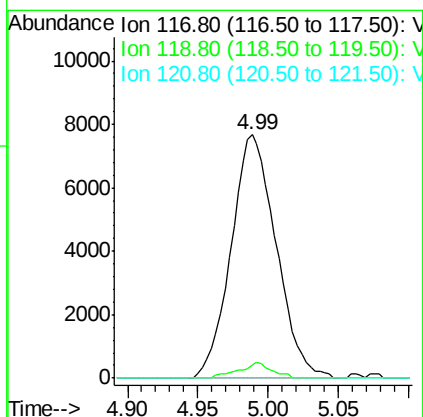
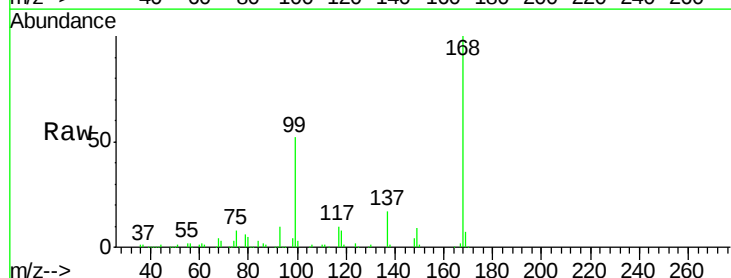
RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024571.D

Acq: 15 Jun 2018 04:04

Tgt Ion:	117	Resp:	17110
Ion	Ratio	Lower	Upper
117	100		
119	5.4	76.1	114.1#
121	0.0	23.7	35.5#

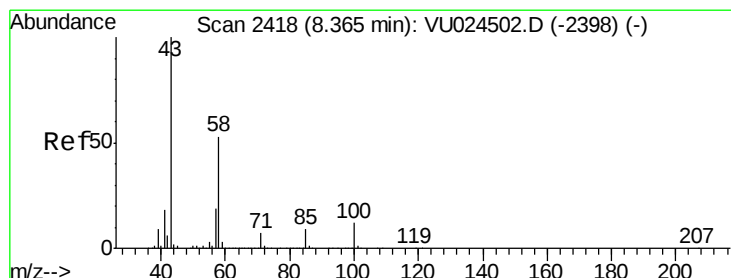
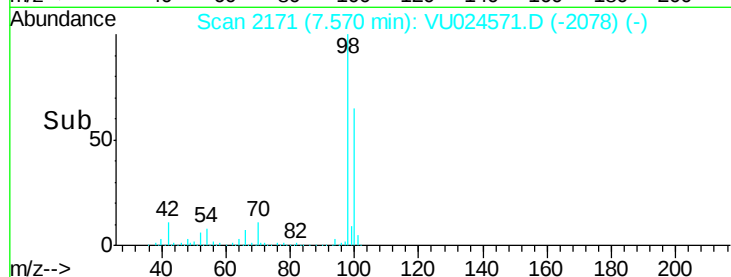
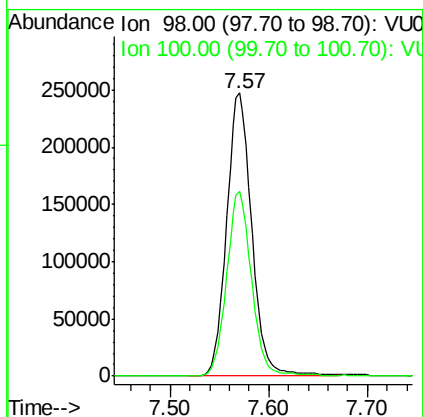
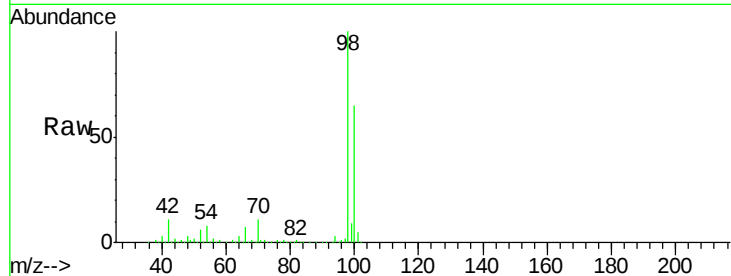




#50
Toluene-d8
Concen: 48.397 ug/l
RT: 7.57 min Scan# 2171
Delta R.T. -0.00 min
Lab File: VU024571.D
Acq: 15 Jun 2018 04:04

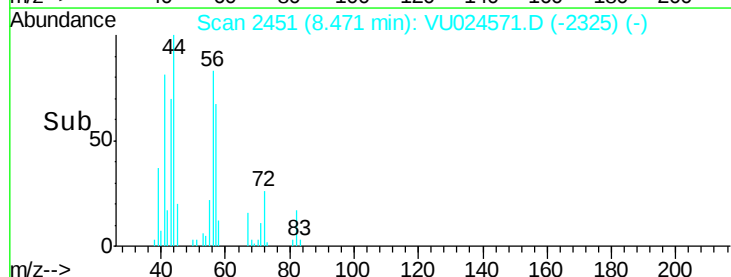
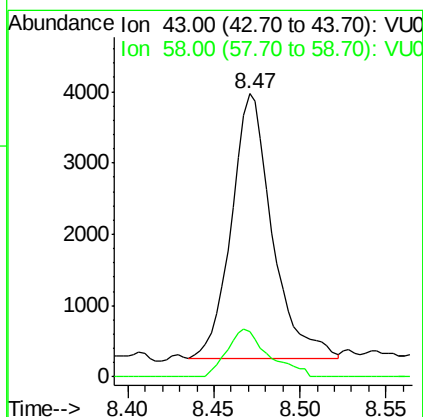
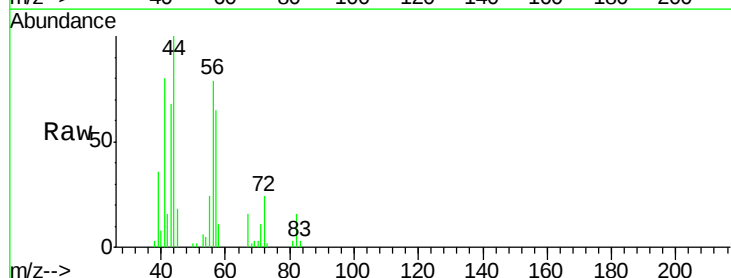
Instrument :
MSVOA_U
ClientSampled :

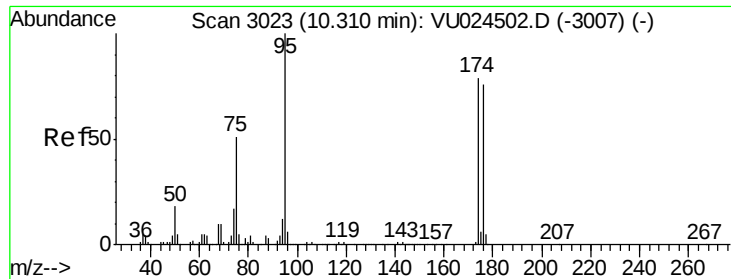
Tot Ion: 98 Resp: 442466
Ion Ratio Lower Upper
98 100
100 64.4 51.1 76.7



#59
2-Hexanone
Concen: 1.783 ug/l
RT: 8.47 min Scan# 2451
Delta R.T. 0.11 min
Lab File: VU024571.D
Acq: 15 Jun 2018 04:04

Tgt Ion: 43 Resp: 6116
Ion Ratio Lower Upper
43 100
58 18.5 26.4 79.0#





#62

4-Bromofluorobenzene

Concen: 47.236 ug/l

RT: 10.31 min Scan# 3024

Delta R.T. 0.00 min

Lab File: VU024571.D

Acq: 15 Jun 2018 04:04

Instrument :

MSVOA_U

ClientSampleId :

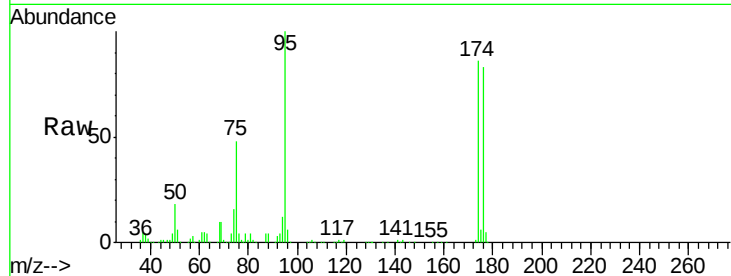
Tot Ion: 95 Resp: 171465

Ion Ratio Lower Upper

95 100

174 86.8 0.0 165.8

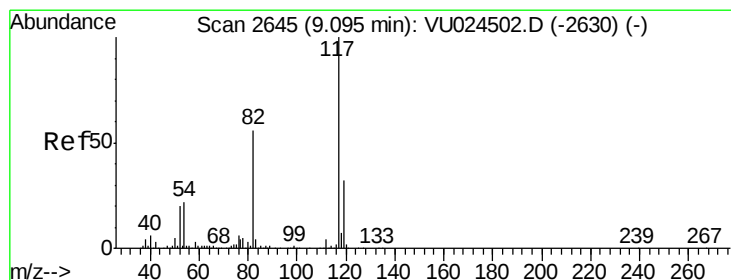
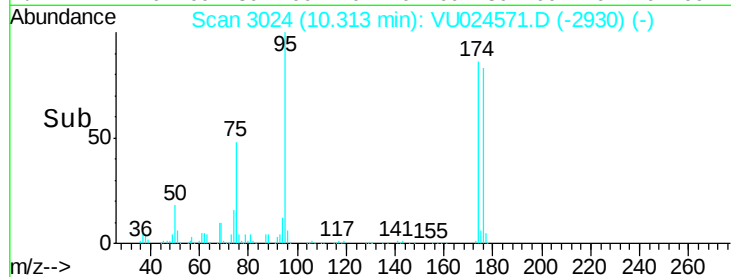
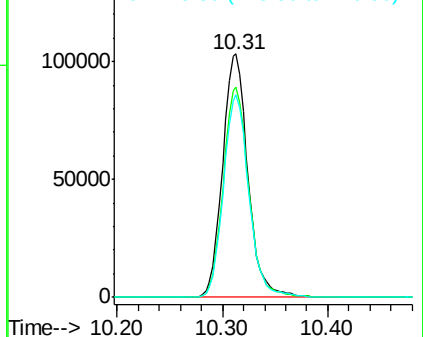
176 83.4 0.0 159.4



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: 50.000 ug/l

RT: 9.09 min Scan# 2645

Delta R.T. -0.00 min

Lab File: VU024571.D

Acq: 15 Jun 2018 04:04

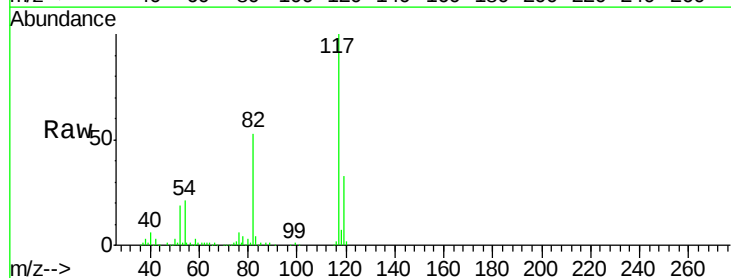
Tgt Ion: 117 Resp: 288635

Ion Ratio Lower Upper

117 100

82 53.0 44.3 66.5

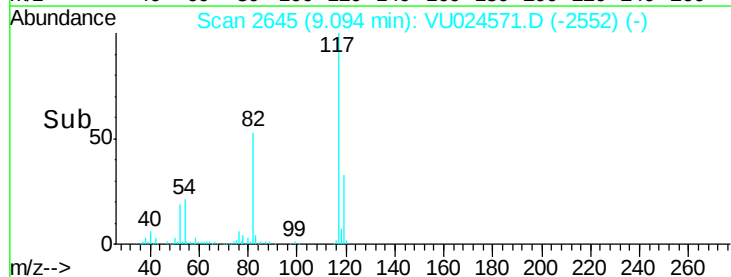
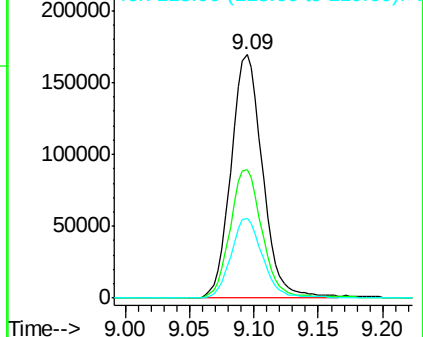
119 32.7 25.4 38.2

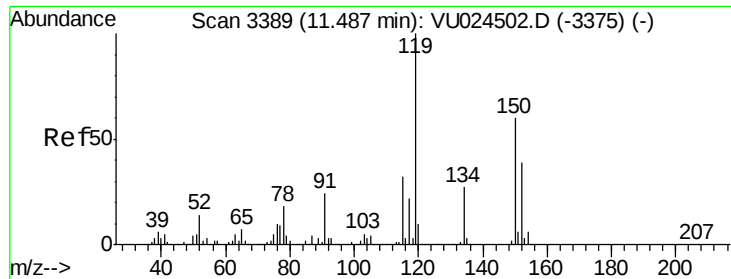


Abundance Ion 116.90 (116.60 to 117.60): VU024502.D (-2630) (-)

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

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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VU024571.D

Acq: 15 Jun 2018 04:04

Instrument :

MSVOA_U

ClientSampleId :

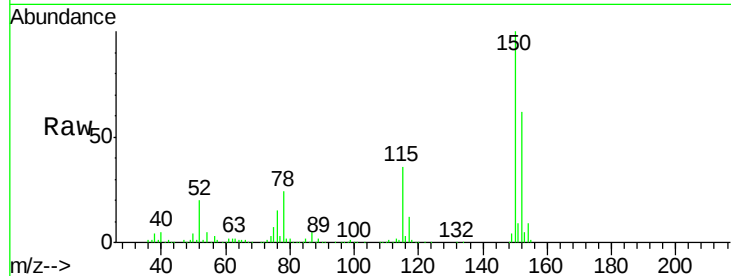
Tot Ion:152 Resp: 170317

Ion Ratio Lower Upper

152 100

115 56.8 43.0 129.0

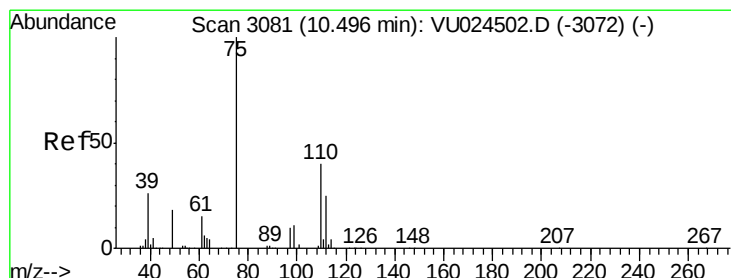
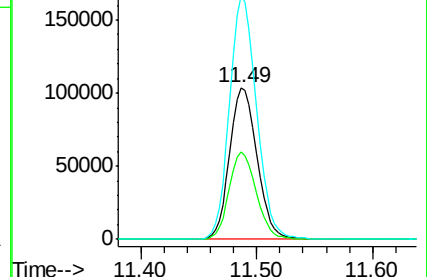
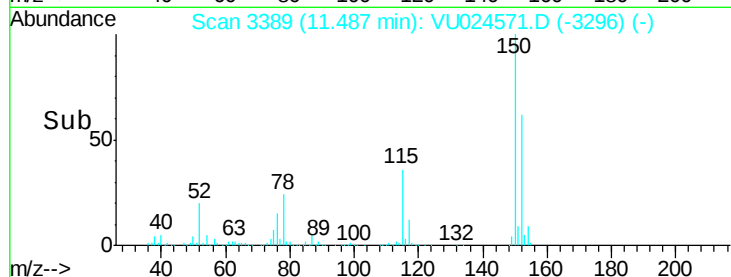
150 157.2 0.0 354.0



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: 22.499 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024571.D

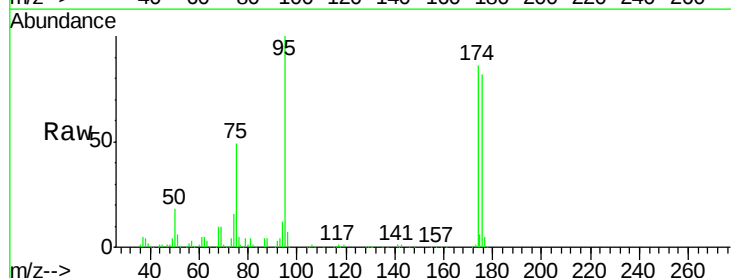
Acq: 15 Jun 2018 04:04

Tgt Ion: 75 Resp: 84365

Ion Ratio Lower Upper

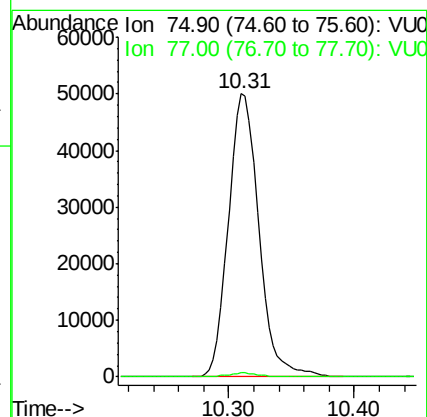
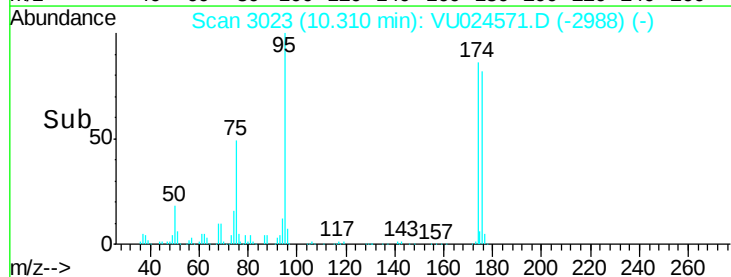
75 100

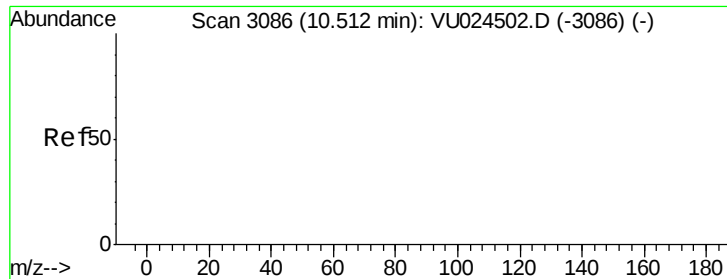
77 1.3 20.9 62.7#



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: 52.072 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024571.D

Acq: 15 Jun 2018 04:04

Instrument :

MSVOA_U

ClientSampleId :

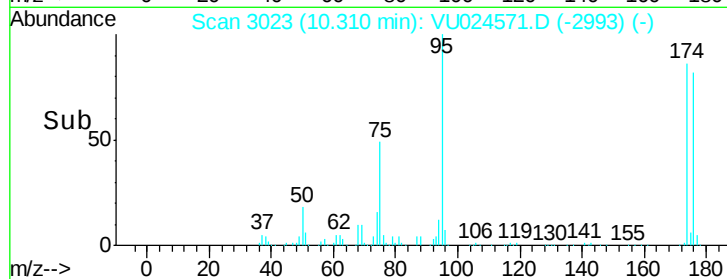
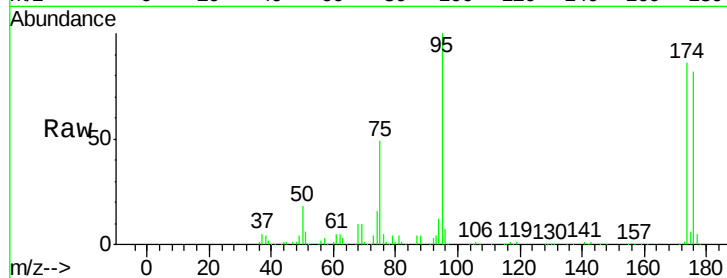
Tot Ion: 75 Resp: 84365

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

