

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071218\
 Data File : VU025380.D
 Acq On : 13 Jul 2018 08:28
 Operator : MD/SY
 Sample : J3825-04
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 CL-02-071118-B

Quant Time: Jul 13 09:07:33 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U070918W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 10 09:34:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	187732	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	293420	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	276447	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	145339	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	146721	50.30	ug/l	0.00
Spiked Amount			Recovery	=	100.60%	
35) Dibromofluoromethane	4.89	113	114091	46.09	ug/l	0.00
Spiked Amount			Recovery	=	92.18%	
50) Toluene-d8	7.57	98	422225	49.81	ug/l	0.00
Spiked Amount			Recovery	=	99.62%	
62) 4-Bromofluorobenzene	10.31	95	154167	45.18	ug/l	0.00
Spiked Amount			Recovery	=	90.36%	

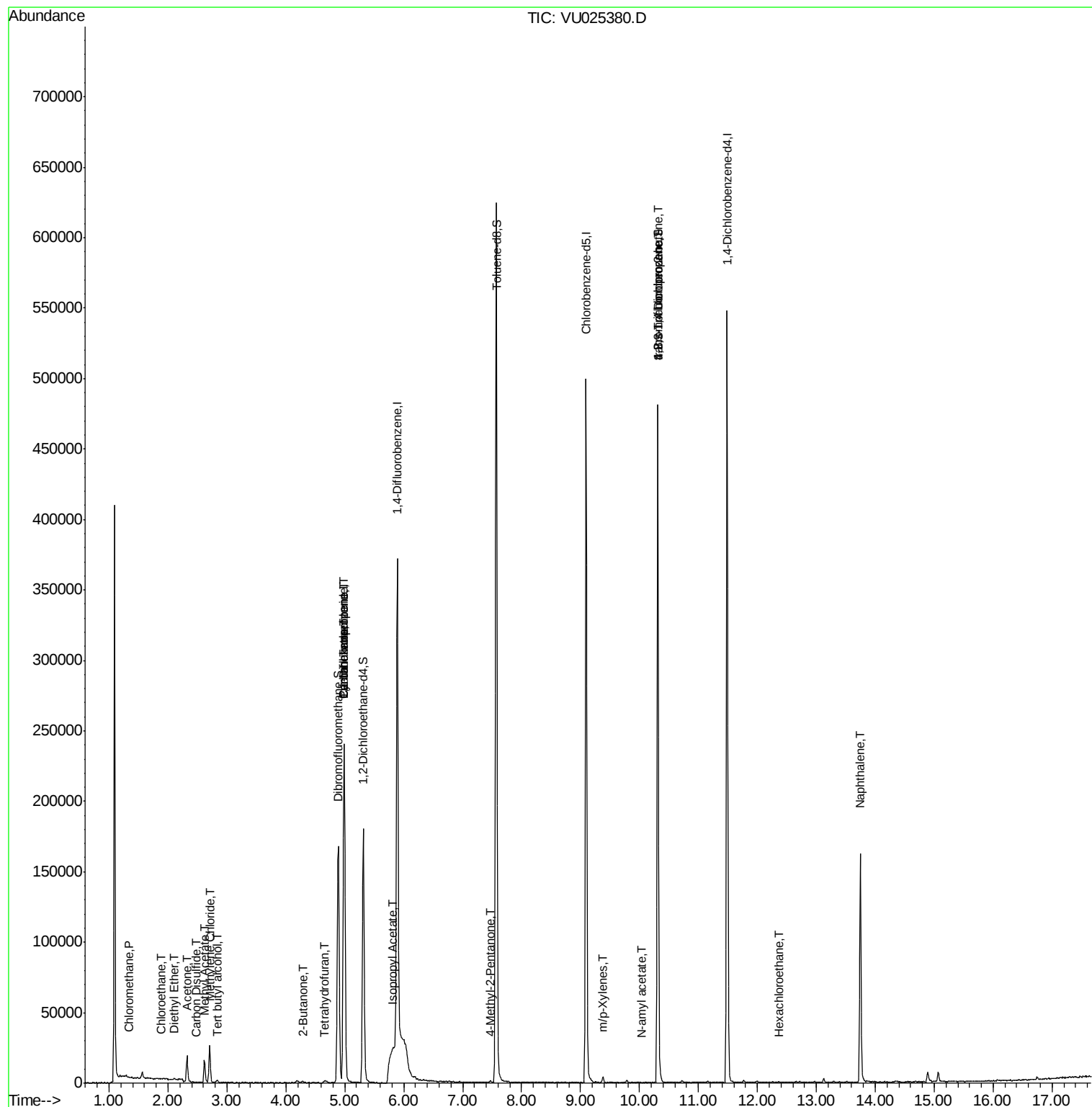
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	342	0.74	ug/l #	42
5) Bromomethane	1.64	94	148	Below Cal	#	72
6) Chloroethane	1.89	64	41	0.32	ug/l #	43
8) Diethyl Ether	2.10	74	328	0.26	ug/l	94
11) Tert butyl alcohol	2.82	59	843	1.32	ug/l #	73
16) Acetone	2.32	43	20197	18.17	ug/l	97
17) Carbon Disulfide	2.49	76	105	1.95	ug/l #	74
18) Methyl Acetate	2.62	43	19512	6.53	ug/l	99
20) Methylene Chloride	2.71	84	11723	5.82	ug/l	96
25) 2-Butanone	4.28	43	2461	1.22	ug/l	90
29) Tetrahydrofuran	4.64	42	739	0.61	ug/l #	34
31) Cyclohexane	5.00	56	3715	1.74	ug/l #	17
36) 1,1-Dichloropropene	4.99	75	13942	4.27	ug/l #	50
38) Carbon Tetrachloride	4.99	117	18759	5.34	ug/l #	15
43) Isopropyl Acetate	5.80	43	32762	5.62	ug/l #	62
51) 4-Methyl-2-Pentanone	7.47	43	965	0.25	ug/l #	82
68) m/p-Xylenes	9.38	106	1418	0.31	ug/l	94
74) N-amyl acetate	10.03	43	47	1.28	ug/l #	43
76) 1,2,3-Trichloropropane	10.31	75	80156	27.13	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	80156	69.23	ug/l #	100
90) Hexachloroethane	12.35	117	361	0.22	ug/l #	7
95) Naphthalene	13.75	128	137448	14.67	ug/l	100

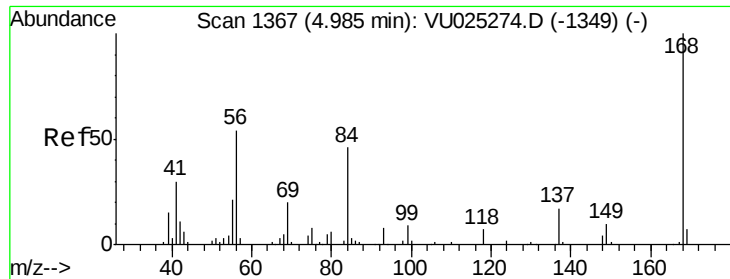
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jul 10 09:34:16 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: VU025380.D

Acq: 13 Jul 2018 08:28

Instrument :

MSVOA_U

ClientSampleId :

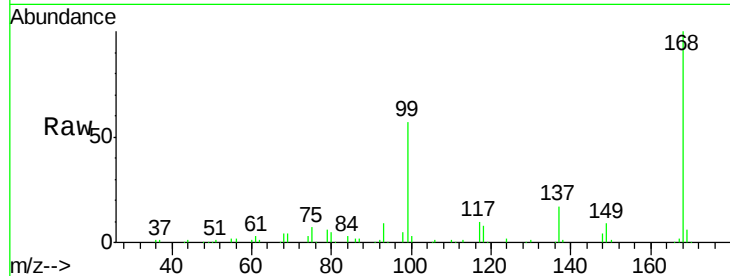
CL-02-071118-B

Tot Ion:168 Resp: 187732

Ion Ratio Lower Upper

168 100

99 56.8 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): VU025274.D (-1349) (-)

Ion 98.90 (98.60 to 99.60): VU025274.D (-1349) (-)

4.99

80000

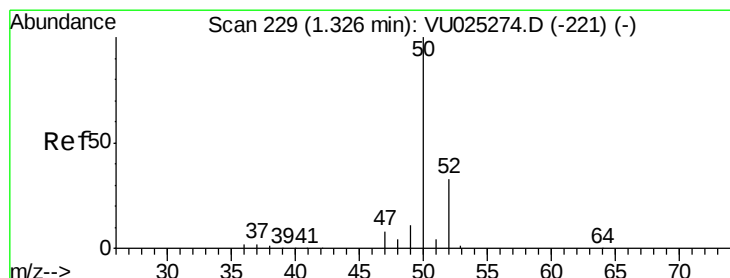
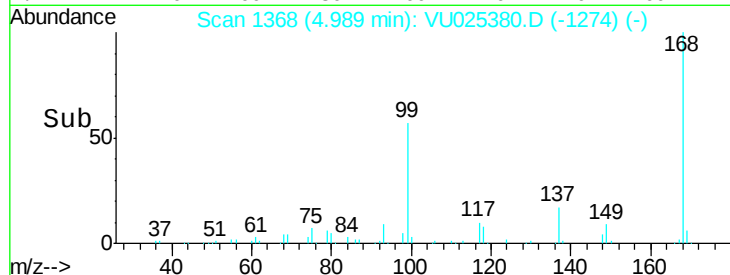
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.74 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU025380.D

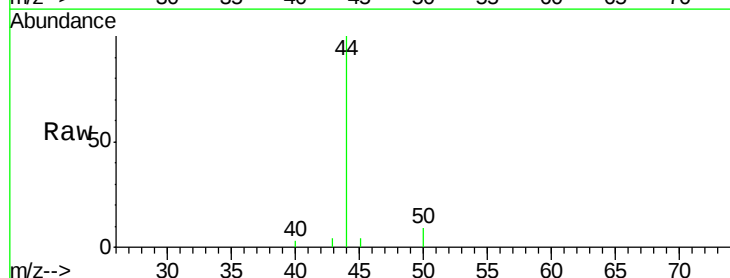
Acq: 13 Jul 2018 08:28

Tgt Ion: 50 Resp: 342

Ion Ratio Lower Upper

50 100

52 0.0 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VU025274.D (-221) (-)

Ion 51.90 (51.60 to 52.60): VU025274.D (-221) (-)

1.33

400

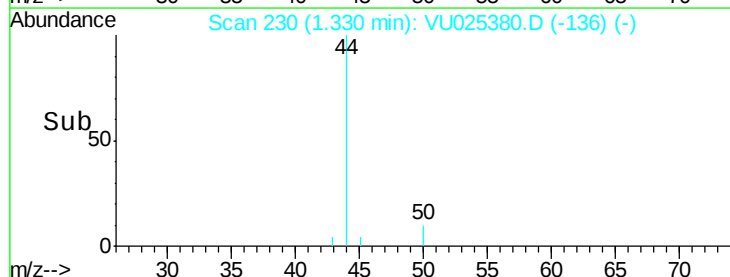
300

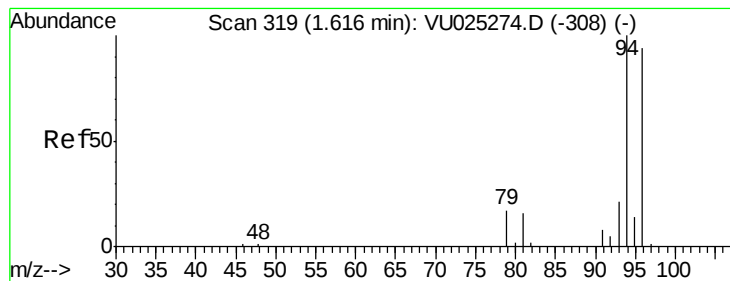
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 325

Delta R.T. 0.02 min

Lab File: VU025380.D

Acq: 13 Jul 2018 08:28

Instrument :

MSVOA_U

ClientSampleId :

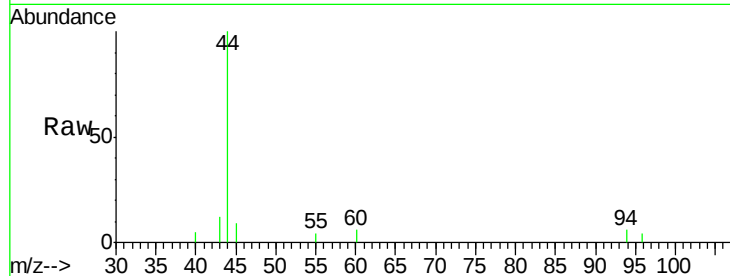
CL-02-071118-B

Tot Ion: 94 Resp: 148

Ion Ratio Lower Upper

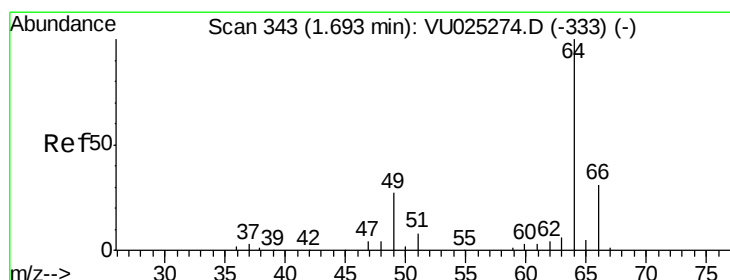
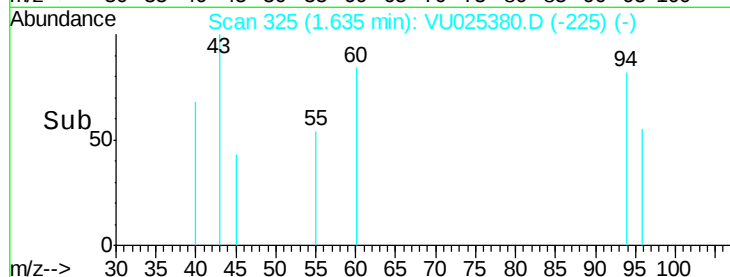
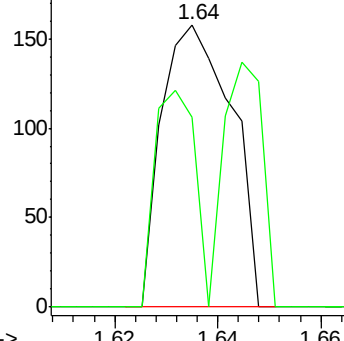
94 100

96 67.1 75.0 112.4#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: 0.32 ug/l

RT: 1.89 min Scan# 405

Delta R.T. 0.20 min

Lab File: VU025380.D

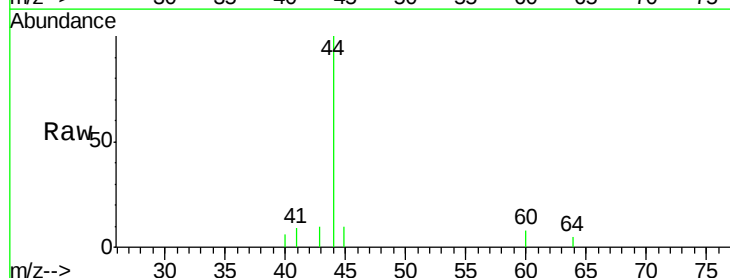
Acq: 13 Jul 2018 08:28

Tgt Ion: 64 Resp: 41

Ion Ratio Lower Upper

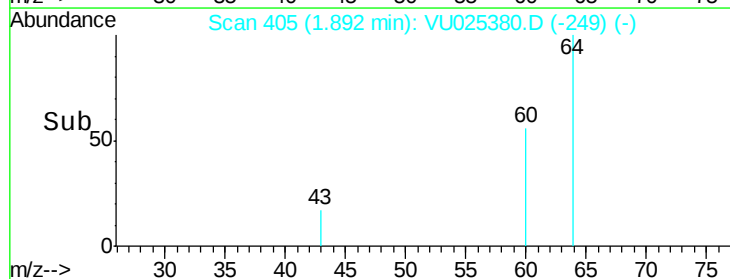
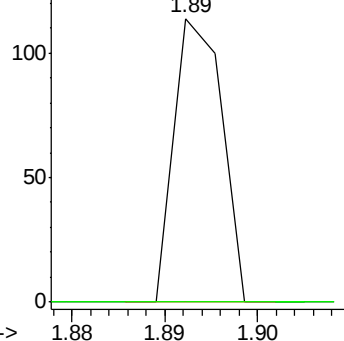
64 100

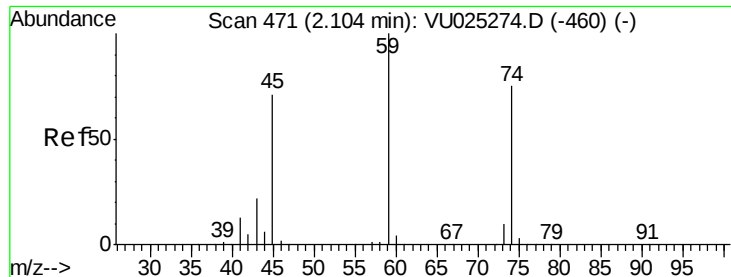
66 0.0 25.0 37.4#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0





#8

Diethyl Ether

Concen: 0.26 ug/l

RT: 2.10 min Scan# 470

Delta R.T. -0.00 min

Lab File: VU025380.D

Acq: 13 Jul 2018 08:28

Instrument :

MSVOA_U

ClientSampleId :

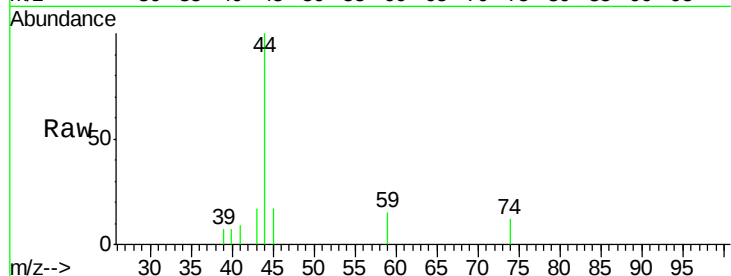
CL-02-071118-B

Tot Ion: 74 Resp: 328

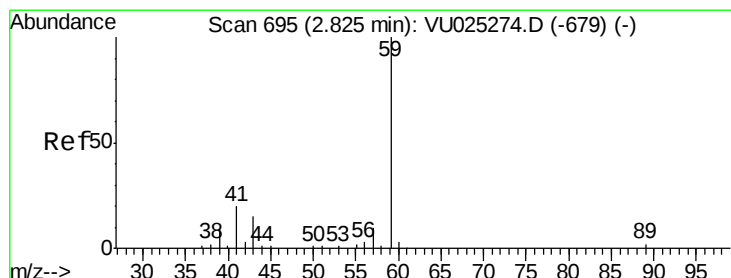
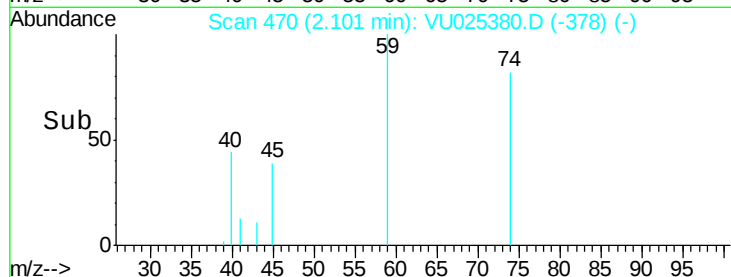
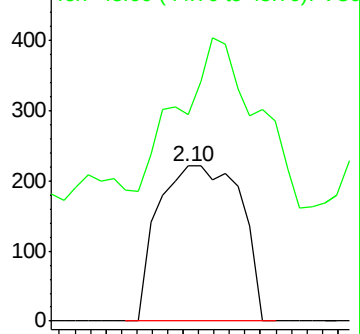
Ion Ratio Lower Upper

74 100

45 102.1 48.3 144.9



Abundance Ion 74.00 (73.70 to 74.70): VU025274.D (-460) (-)



#11

Tert butyl alcohol

Concen: 1.32 ug/l

RT: 2.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VU025380.D

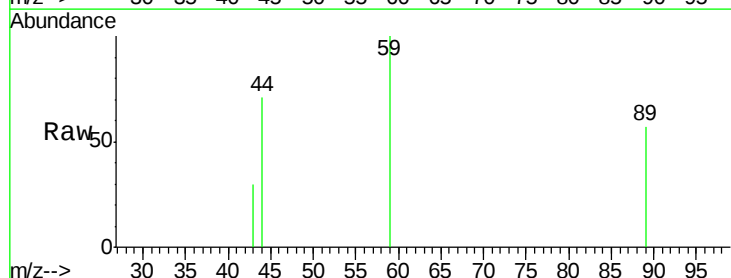
Acq: 13 Jul 2018 08:28

Tgt Ion: 59 Resp: 843

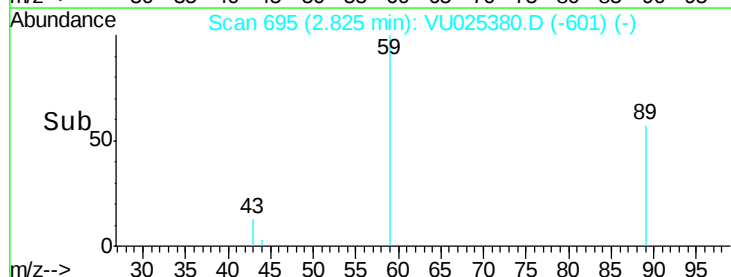
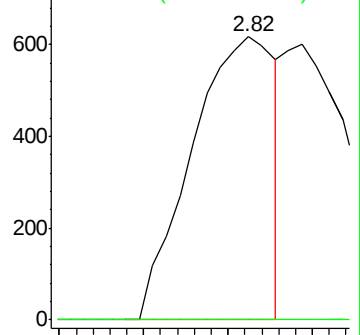
Ion Ratio Lower Upper

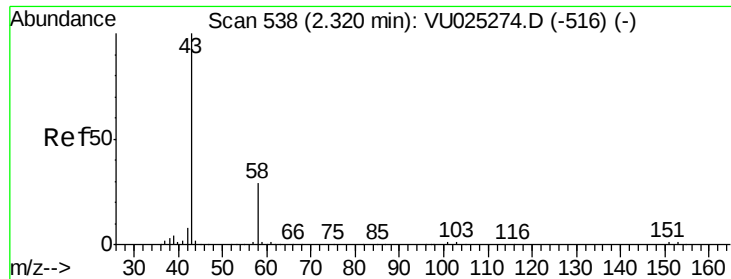
59 100

57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VU025274.D (-679) (-)





#16

Acetone

Concen: 18.17 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025380.D

Acq: 13 Jul 2018 08:28

Instrument :

MSVOA_U

ClientSampleId :

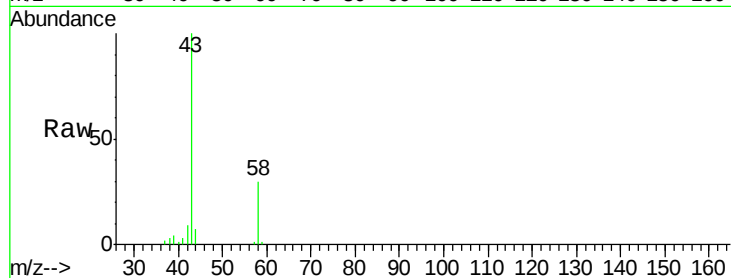
CL-02-071118-B

Tot Ion: 43 Resp: 20197

Ion Ratio Lower Upper

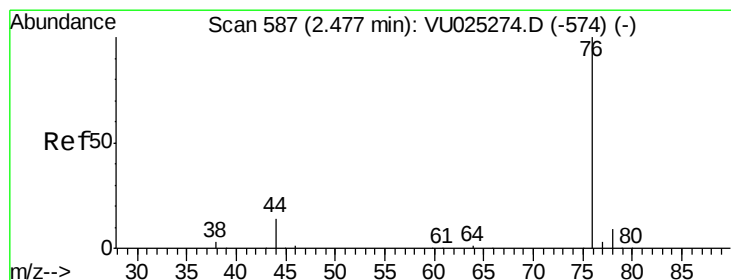
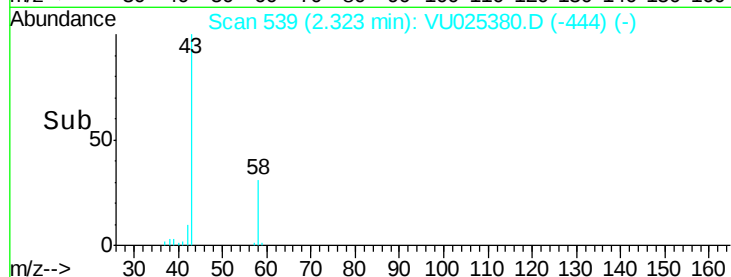
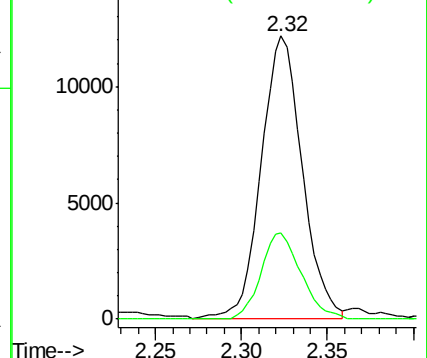
43 100

58 30.3 23.1 34.7



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#17

Carbon Disulfide

Concen: 1.95 ug/l

RT: 2.49 min Scan# 591

Delta R.T. 0.01 min

Lab File: VU025380.D

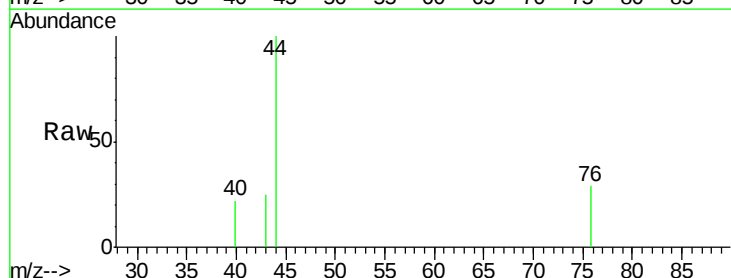
Acq: 13 Jul 2018 08:28

Tgt Ion: 76 Resp: 105

Ion Ratio Lower Upper

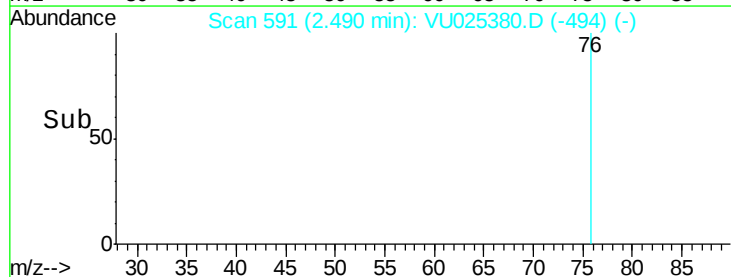
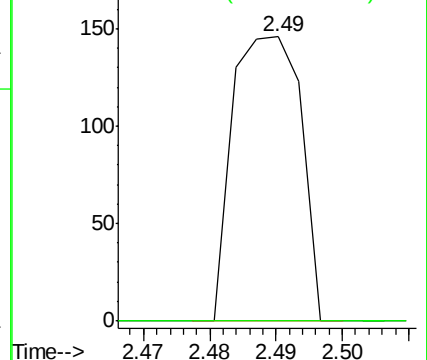
76 100

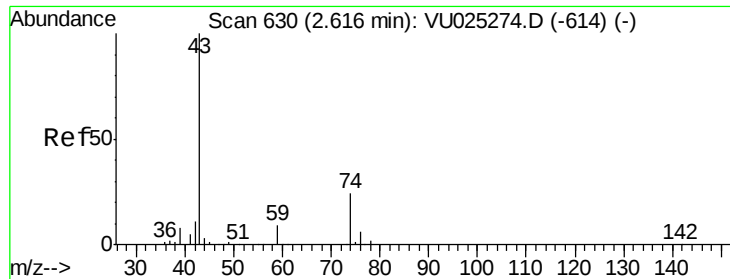
78 0.0 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

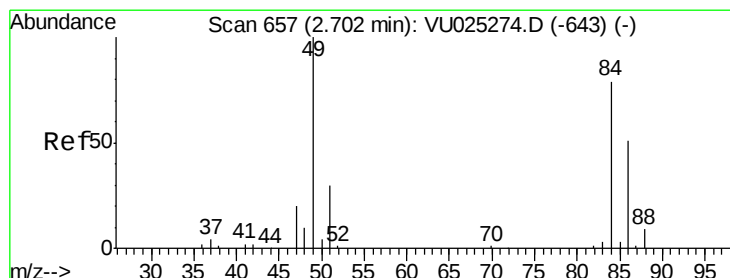
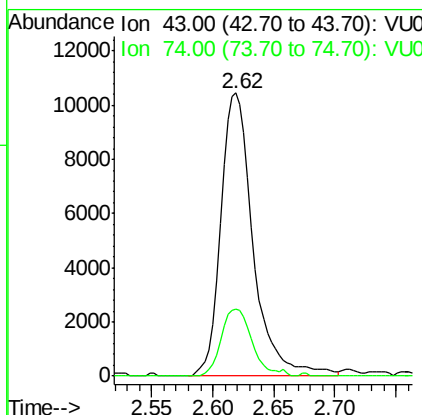
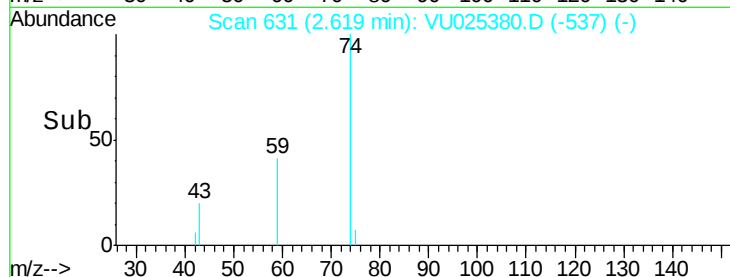
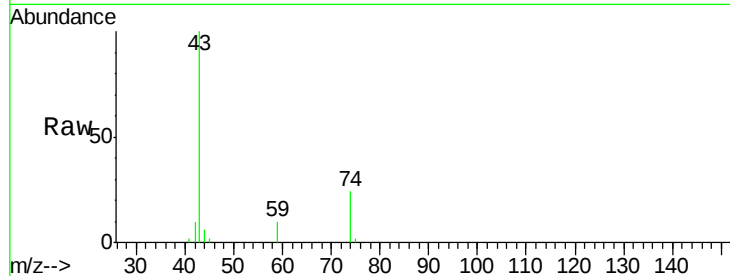




#18
Methyl Acetate
Concen: 6.53 ug/l
RT: 2.62 min Scan# 631
Delta R.T. 0.00 min
Lab File: VU025380.D
Acq: 13 Jul 2018 08:28

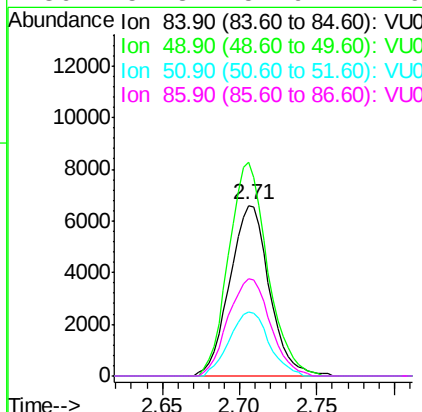
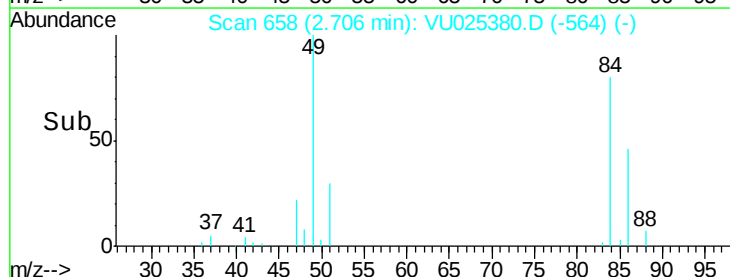
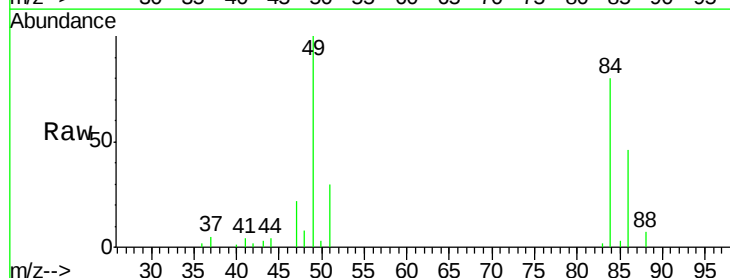
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CL-02-071118-B

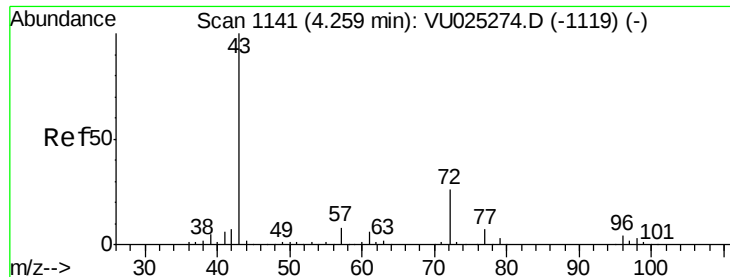
Tot Ion: 43 Resp: 19512
Ion Ratio Lower Upper
43 100
74 22.6 18.5 27.7



#20
Methylene Chloride
Concen: 5.82 ug/l
RT: 2.71 min Scan# 658
Delta R.T. 0.00 min
Lab File: VU025380.D
Acq: 13 Jul 2018 08:28

Tgt Ion: 84 Resp: 11723
Ion Ratio Lower Upper
84 100
49 125.1 101.8 152.6
51 37.4 30.8 46.2
86 57.3 51.9 77.9

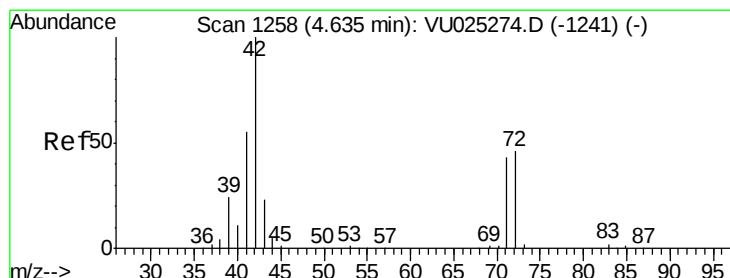
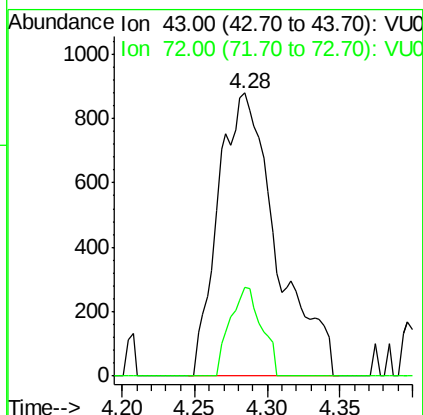
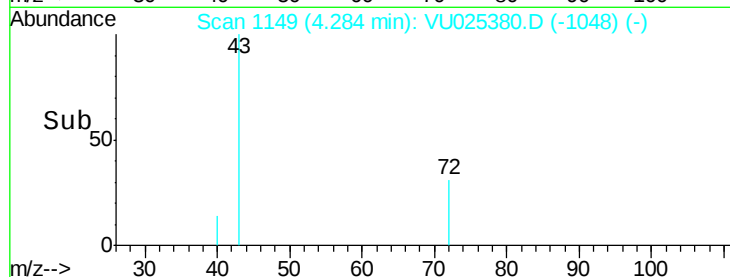
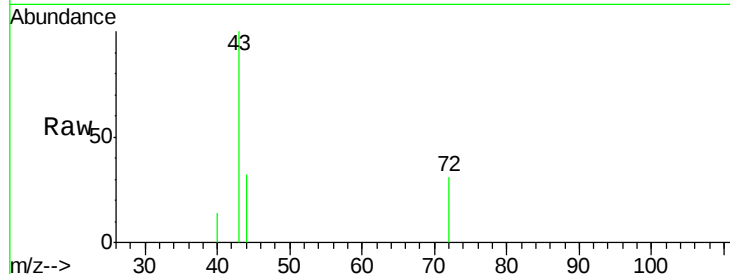




#25
 2-Butanone
 Concen: 1.22 ug/l
 RT: 4.28 min Scan# 1149
 Delta R.T. 0.03 min
 Lab File: VU025380.D
 Acq: 13 Jul 2018 08:28

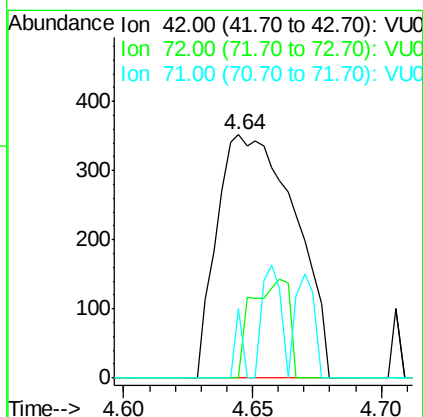
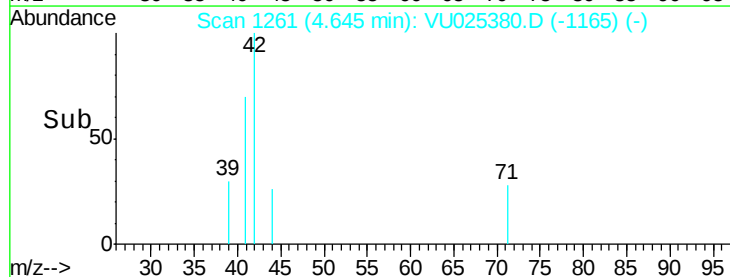
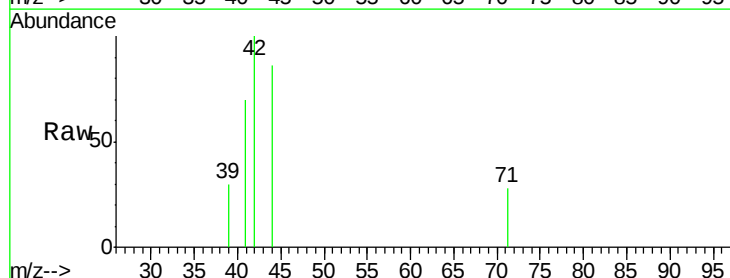
Instrument :
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 CL-02-071118-B

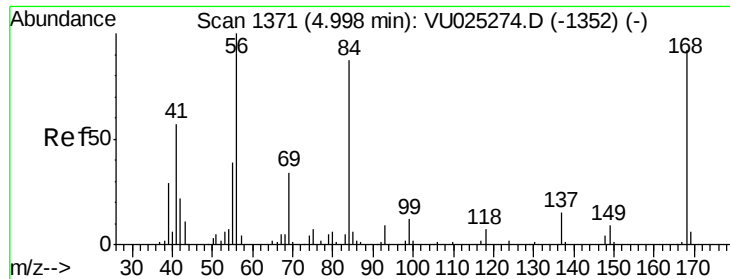
Tot Ion: 43 Resp: 2461
 Ion Ratio Lower Upper
 43 100
 72 31.3 21.0 31.4



#29
 Tetrahydrofuran
 Concen: 0.61 ug/l
 RT: 4.64 min Scan# 1261
 Delta R.T. 0.01 min
 Lab File: VU025380.D
 Acq: 13 Jul 2018 08:28

Tgt Ion: 42 Resp: 739
 Ion Ratio Lower Upper
 42 100
 72 0.0 36.7 55.1#
 71 2.6 33.9 50.9#

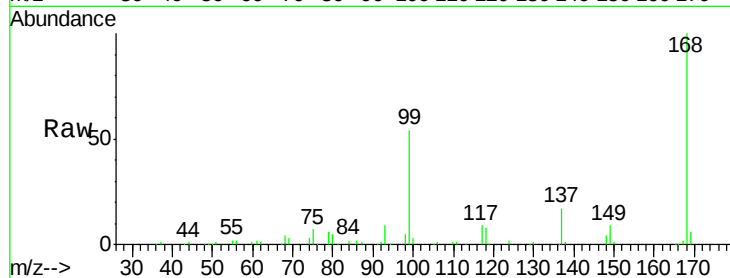




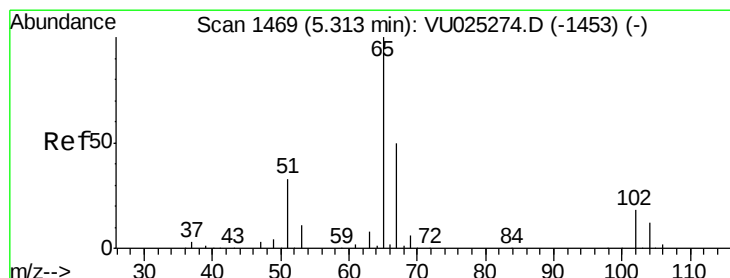
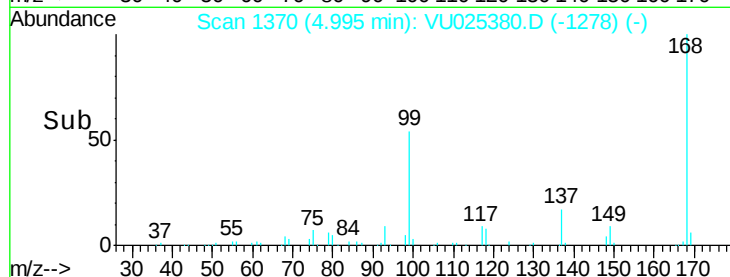
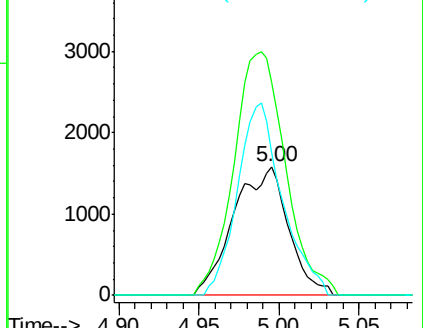
#31
Cyclohexane
Concen: 1.74 ug/l
RT: 5.00 min Scan# 1370
Delta R.T. -0.00 min
Lab File: VU025380.D
Acq: 13 Jul 2018 08:28

Instrument :
MSVOA_U
ClientSampleId :
CL-02-071118-B

Tot Ion: 56 Resp: 3715
Ion Ratio Lower Upper
56 100
69 165.1 26.8 40.2#
84 110.7 69.7 104.5#

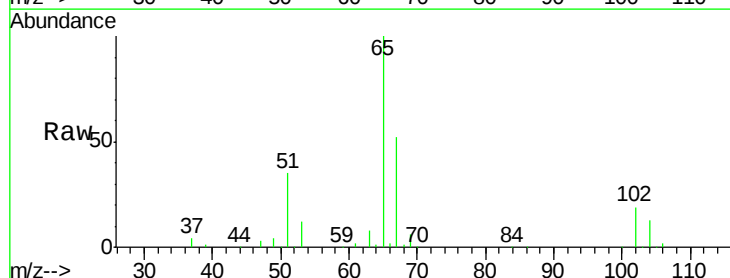


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

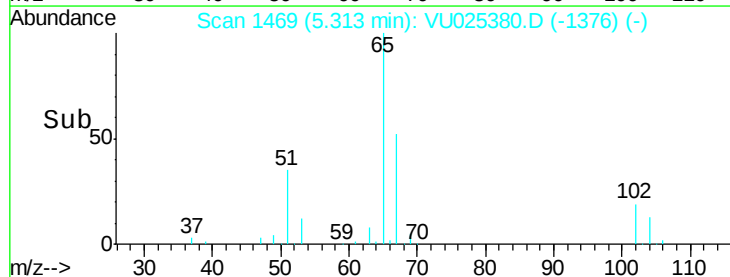
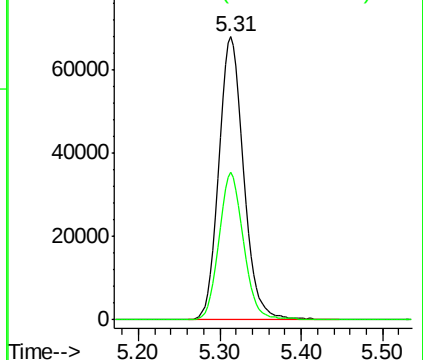


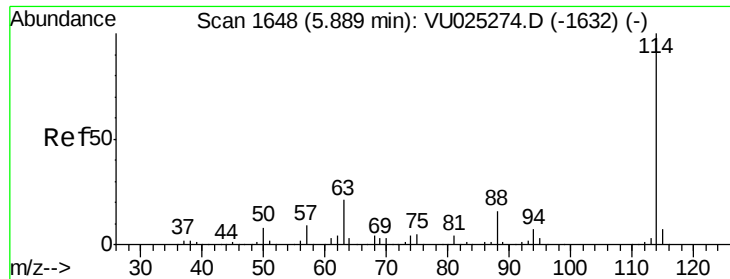
#33
1,2-Dichloroethane-d4
Concen: 50.30 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VU025380.D
Acq: 13 Jul 2018 08:28

Tgt Ion: 65 Resp: 146721
Ion Ratio Lower Upper
65 100
67 51.5 0.0 103.6



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





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1648

Delta R.T. 0.00 min

Lab File: VU025380.D

Acq: 13 Jul 2018 08:28

Instrument :

MSVOA_U

ClientSampleId :

CL-02-071118-B

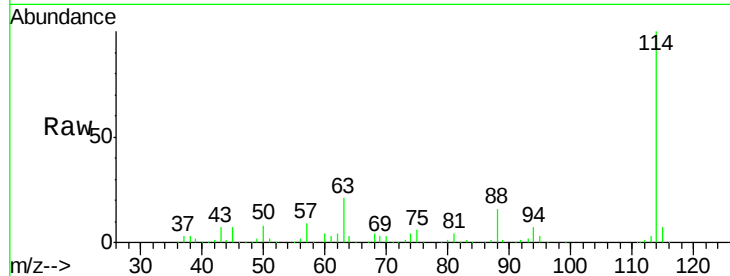
Tot Ion:114 Resp: 293420

Ion Ratio Lower Upper

114 100

63 21.0 0.0 41.6

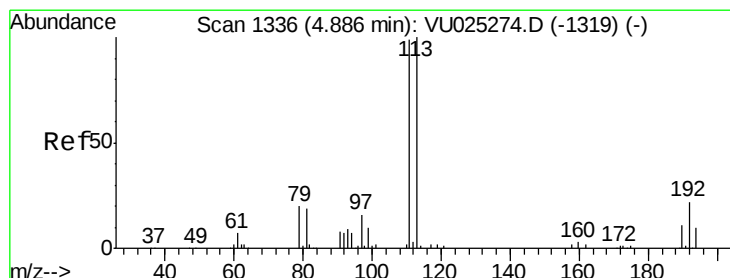
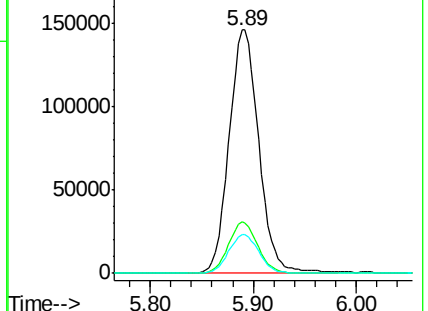
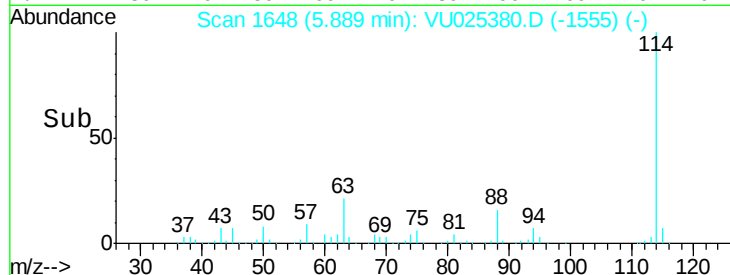
88 16.0 0.0 32.4



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: 46.09 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU025380.D

Acq: 13 Jul 2018 08:28

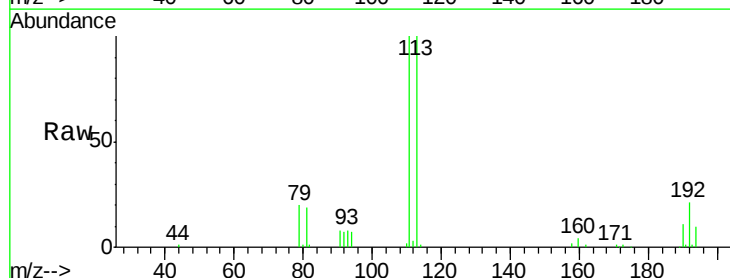
Tgt Ion:113 Resp: 114091

Ion Ratio Lower Upper

113 100

111 102.6 81.7 122.5

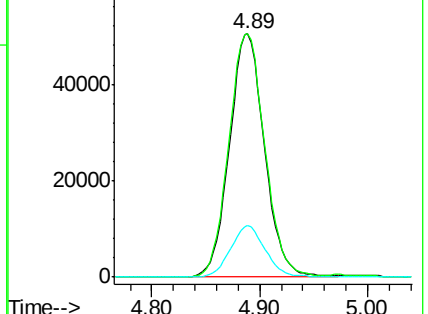
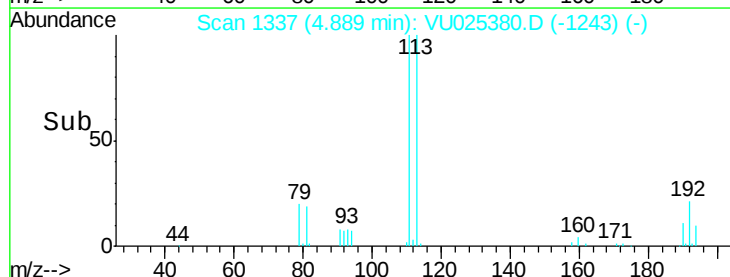
192 20.6 17.1 25.7

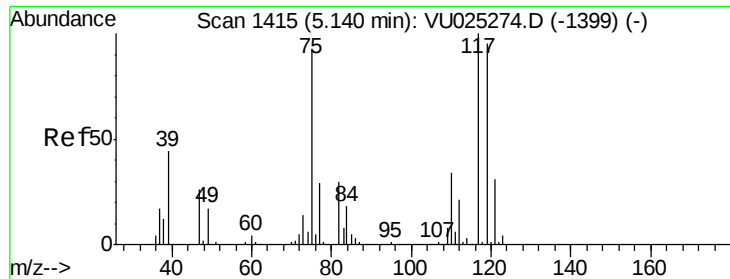


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.27 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025380.D

Acq: 13 Jul 2018 08:28

Instrument :

MSVOA_U

ClientSampleId :

CL-02-071118-B

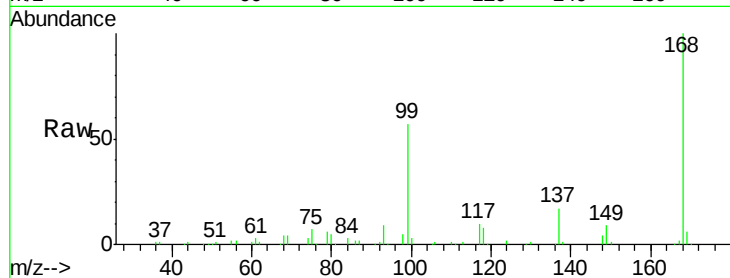
Tot Ion: 75 Resp: 13942

Ion Ratio Lower Upper

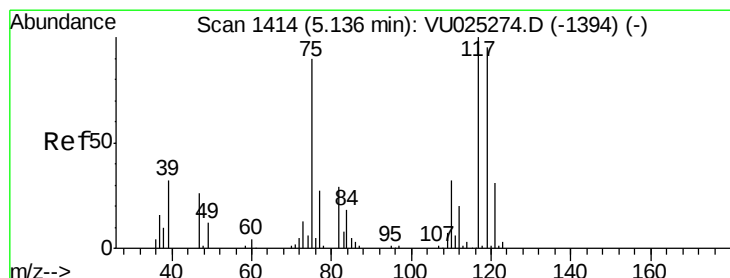
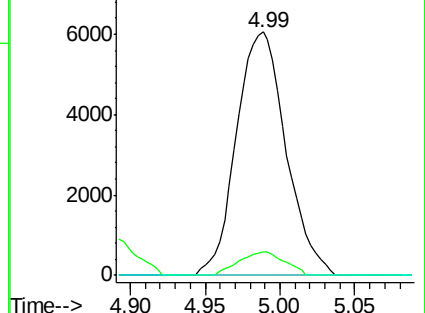
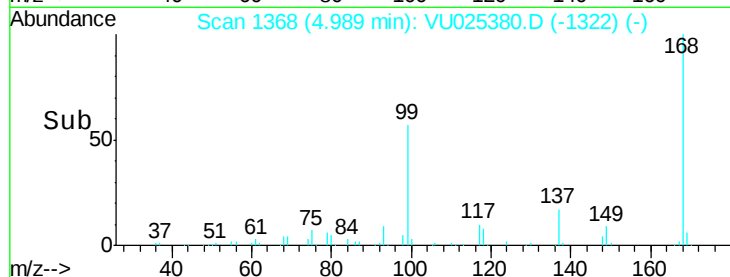
75 100

110 8.9 17.6 52.9#

77 0.0 24.4 36.6#



Abundance Ion 74.90 (74.60 to 75.60): VU025380.D (-1322) (-)



#38

Carbon Tetrachloride

Concen: 5.34 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025380.D

Acq: 13 Jul 2018 08:28

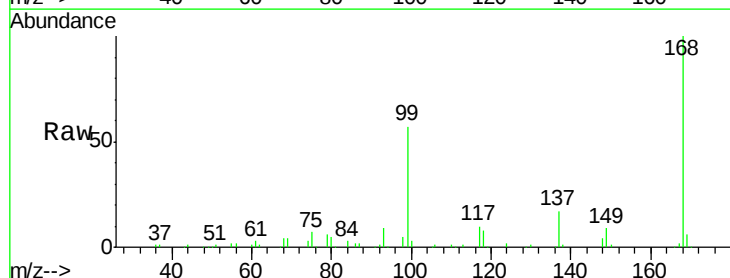
Tgt Ion: 117 Resp: 18759

Ion Ratio Lower Upper

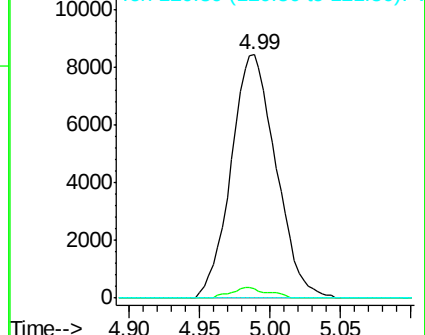
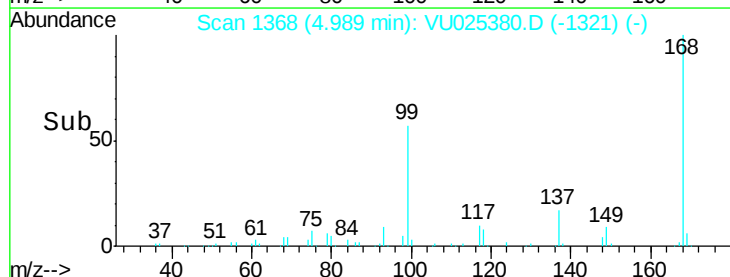
117 100

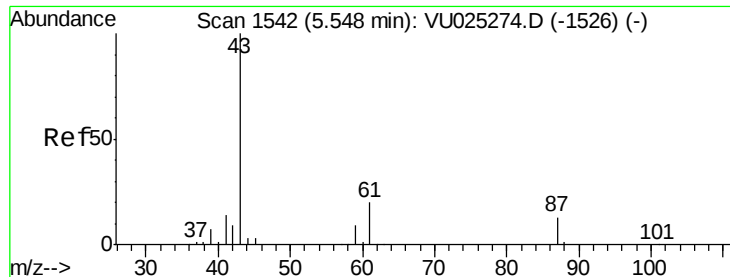
119 3.6 75.7 113.5#

121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): VU025380.D (-1321) (-)





#43

Isopropyl Acetate

Concen: 5.62 ug/l

RT: 5.80 min Scan# 1621

Delta R.T. 0.25 min

Lab File: VU025380.D

Acq: 13 Jul 2018 08:28

Instrument :

MSVOA_U

ClientSampleId :

CL-02-071118-B

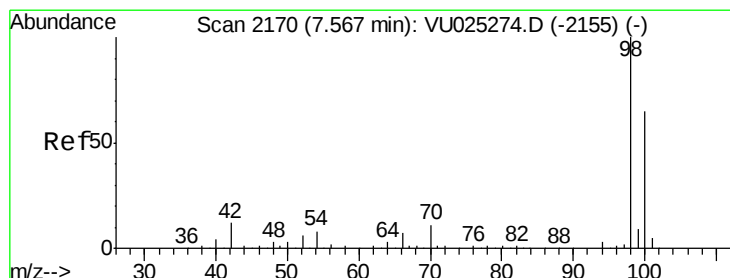
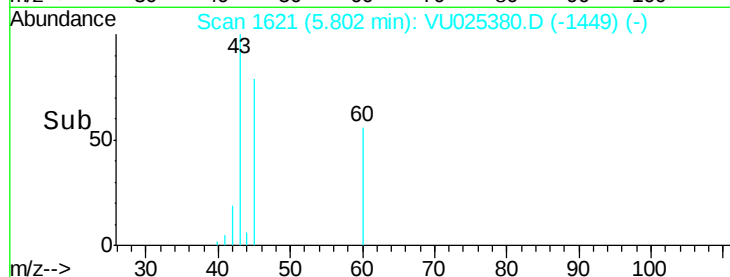
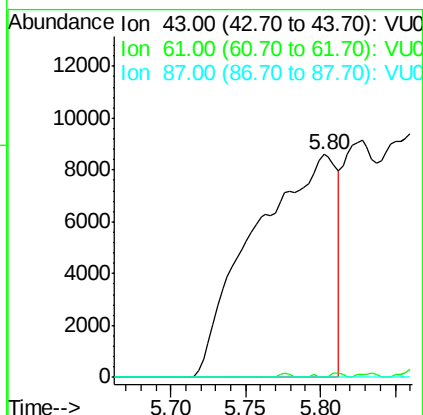
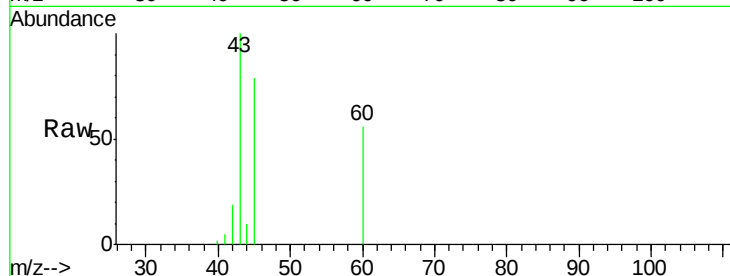
Tot Ion: 43 Resp: 32762

Ion Ratio Lower Upper

43 100

61 0.3 15.5 23.3#

87 0.0 10.6 16.0#



#50

Toluene-d8

Concen: 49.81 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. 0.00 min

Lab File: VU025380.D

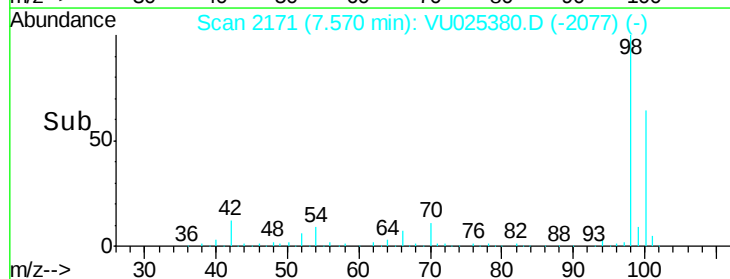
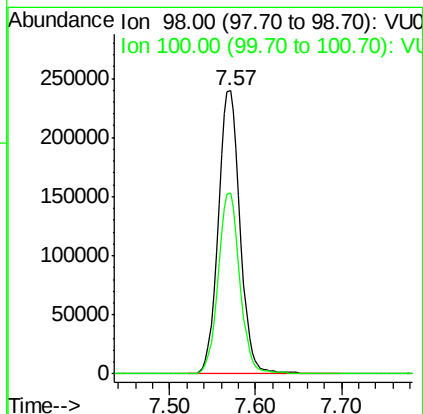
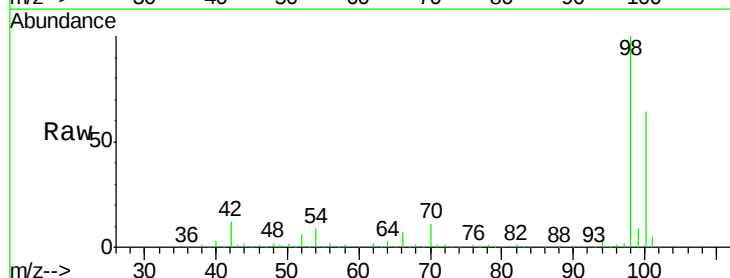
Acq: 13 Jul 2018 08:28

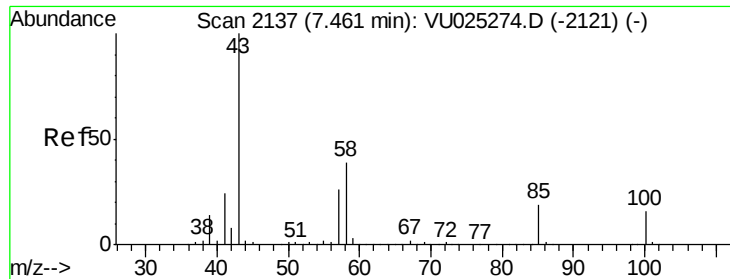
Tgt Ion: 98 Resp: 422225

Ion Ratio Lower Upper

98 100

100 63.2 51.1 76.7





#51

4-Methyl-2-Pentanone

Concen: 0.25 ug/l

RT: 7.47 min Scan# 2140

Delta R.T. 0.01 min

Lab File: VU025380.D

Acq: 13 Jul 2018 08:28

Instrument :

MSVOA_U

ClientSampleId :

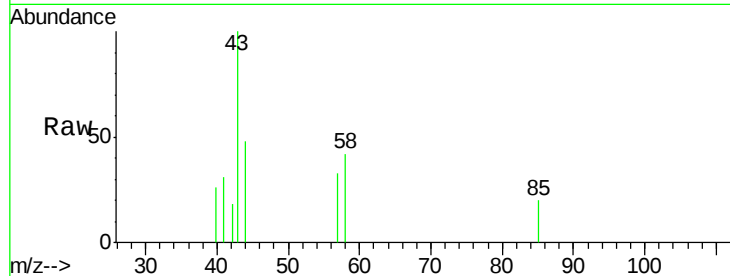
CL-02-071118-B

Tot Ion: 43 Resp: 965

Ion Ratio Lower Upper

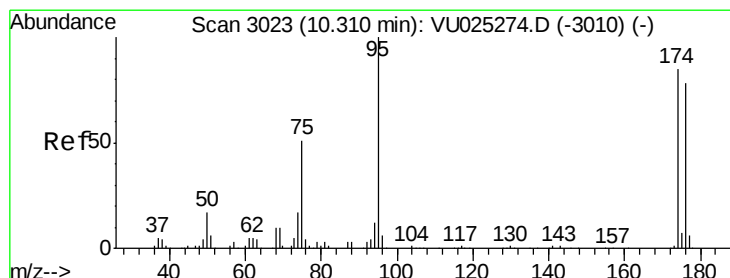
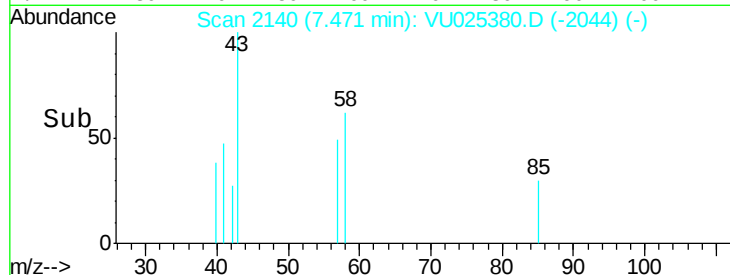
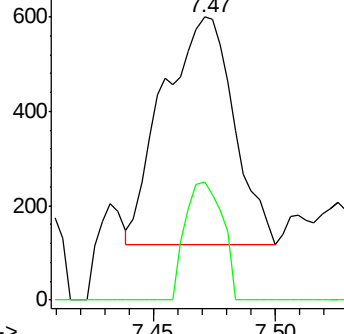
43 100

58 27.5 31.0 46.4#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#62

4-Bromofluorobenzene

Concen: 45.18 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU025380.D

Acq: 13 Jul 2018 08:28

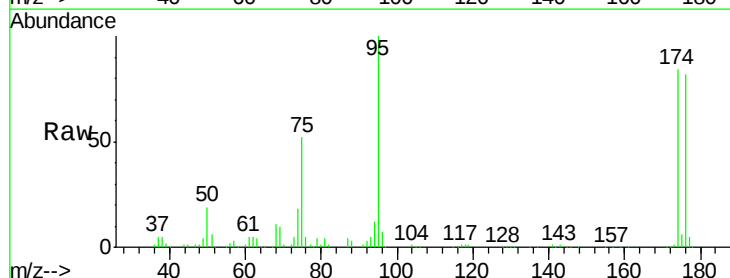
Tgt Ion: 95 Resp: 154167

Ion Ratio Lower Upper

95 100

174 86.1 0.0 172.2

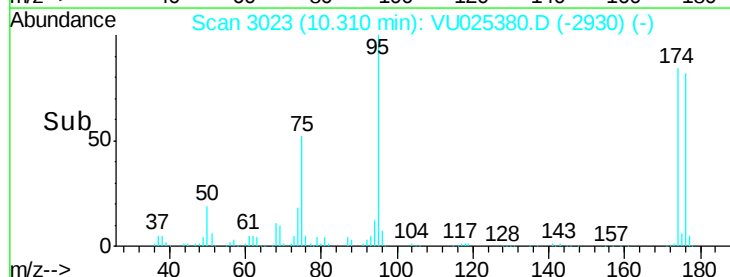
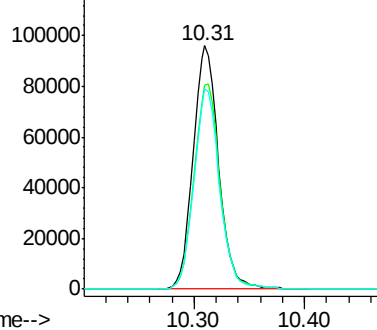
176 82.9 0.0 162.6

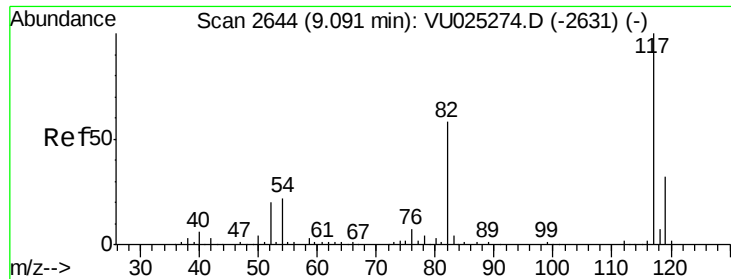


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

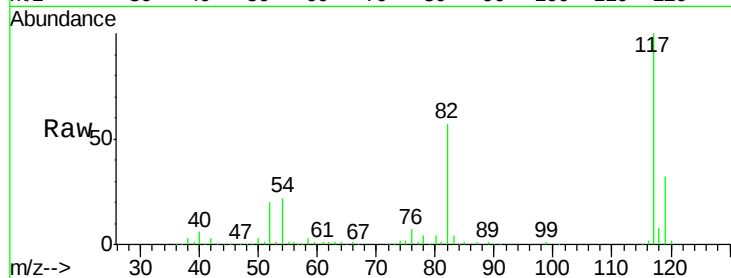




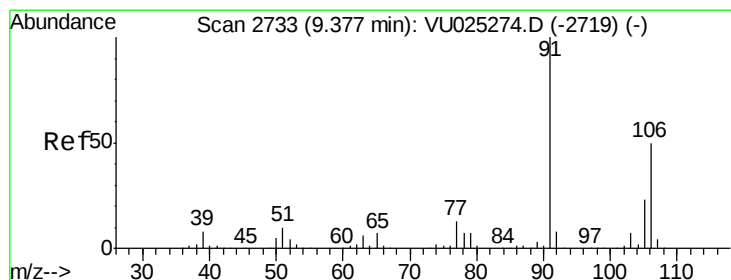
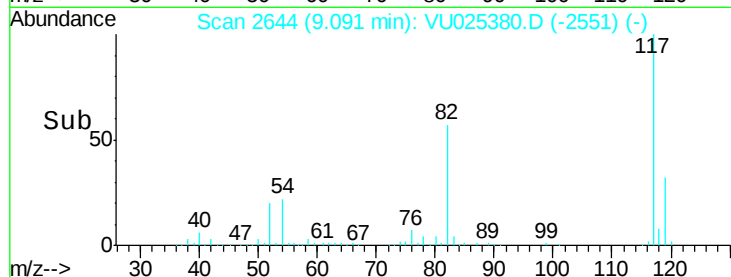
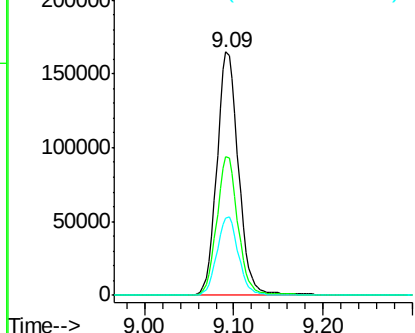
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VU025380.D
Acq: 13 Jul 2018 08:28

Instrument :
MSVOA_U
ClientSampleId :
CL-02-071118-B

Tot Ion:117 Resp: 276447
Ion Ratio Lower Upper
117 100
82 56.8 46.0 69.0
119 32.0 26.0 39.0

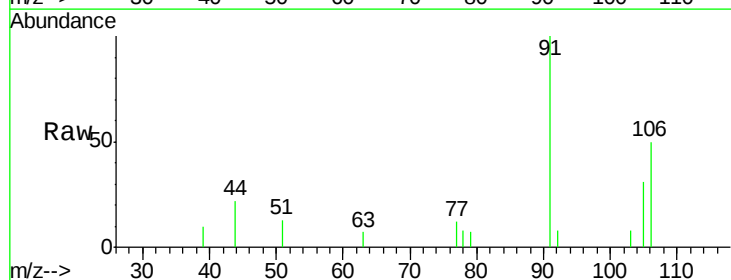


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

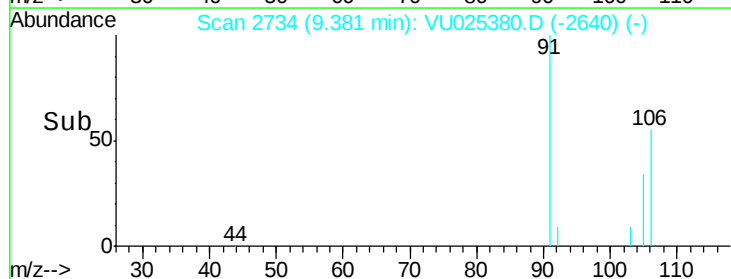
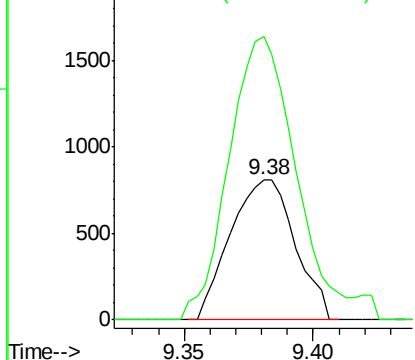


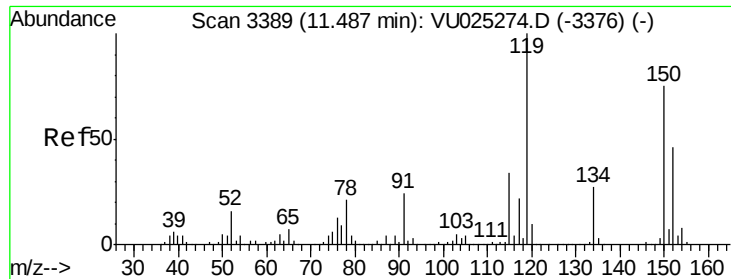
#68
m/p-Xylenes
Concen: 0.31 ug/l
RT: 9.38 min Scan# 2734
Delta R.T. 0.00 min
Lab File: VU025380.D
Acq: 13 Jul 2018 08:28

Tgt Ion:106 Resp: 1418
Ion Ratio Lower Upper
106 100
91 211.9 162.3 243.5



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025380.D

Acq: 13 Jul 2018 08:28

Instrument :

MSVOA_U

ClientSampleId :

CL-02-071118-B

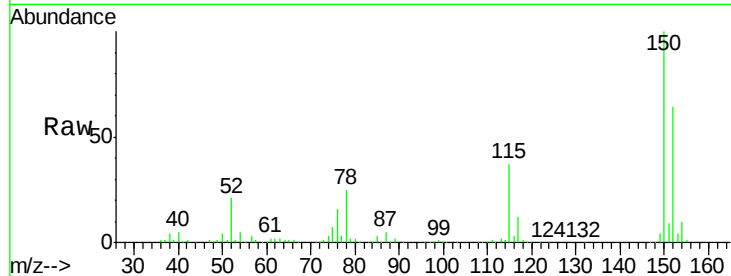
Tot Ion:152 Resp: 145339

Ion Ratio Lower Upper

152 100

115 57.4 40.1 120.3

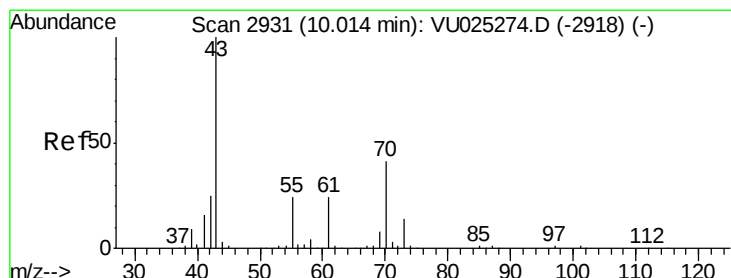
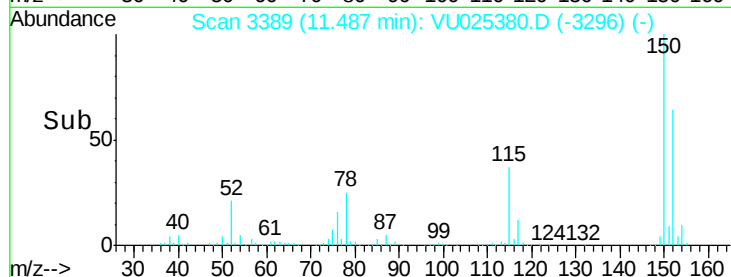
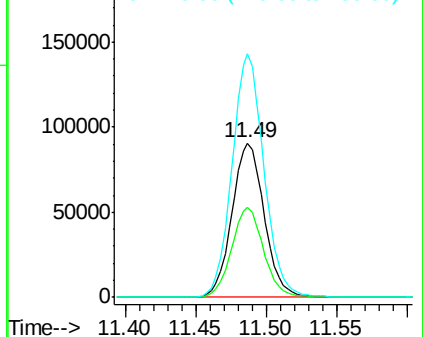
150 155.9 0.0 351.4



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



#74

N-amil acetate

Concen: 1.28 ug/l

RT: 10.03 min Scan# 2936

Delta R.T. 0.02 min

Lab File: VU025380.D

Acq: 13 Jul 2018 08:28

Tgt Ion: 43 Resp: 47

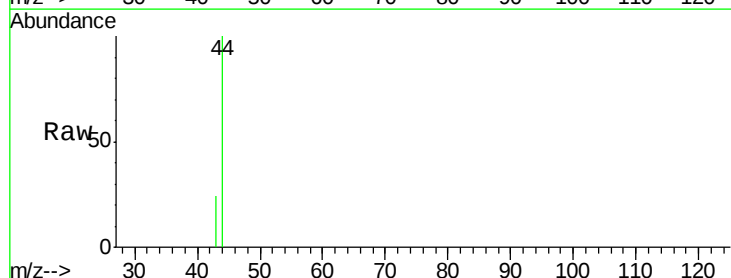
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.2#

55 0.0 19.0 28.6#

61 0.0 19.3 28.9#

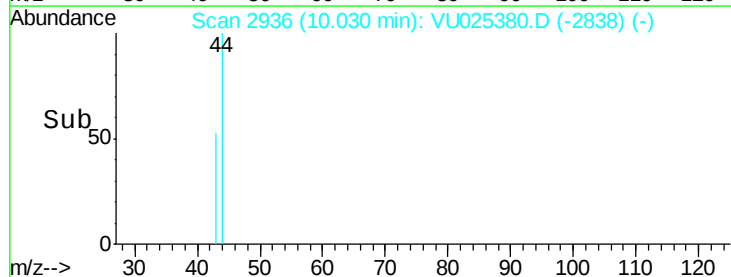
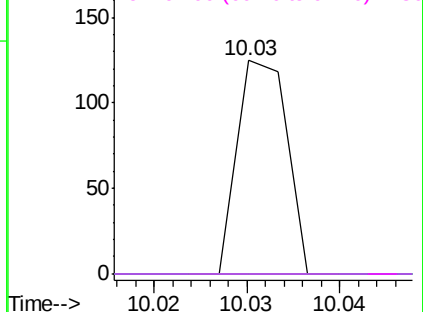


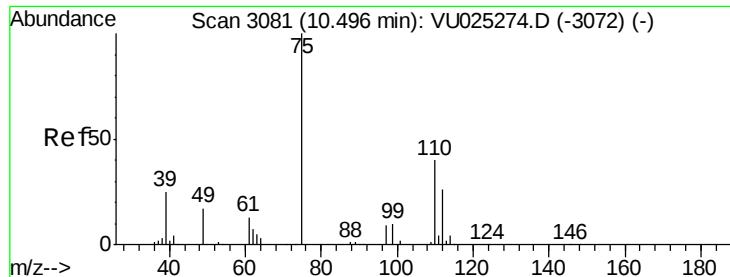
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0





#76

1,2,3-Trichloropropane

Concen: 27.13 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025380.D

Acq: 13 Jul 2018 08:28

Instrument :

MSVOA_U

ClientSampleId :

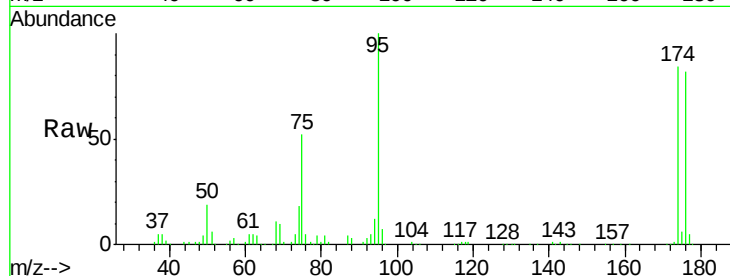
CL-02-071118-B

Tot Ion: 75 Resp: 80156

Ion Ratio Lower Upper

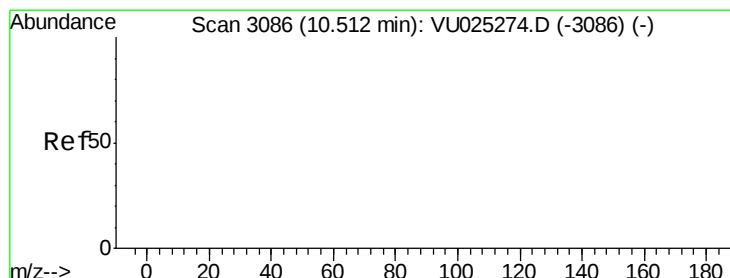
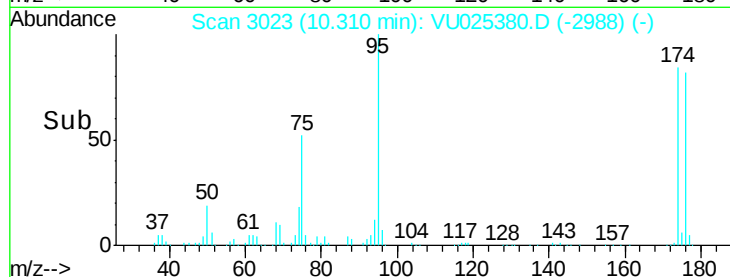
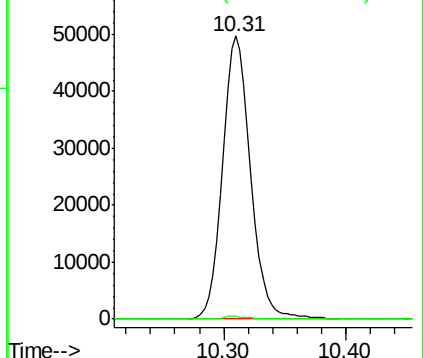
75 100

77 0.8 20.4 61.3#



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: 69.23 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025380.D

Acq: 13 Jul 2018 08:28

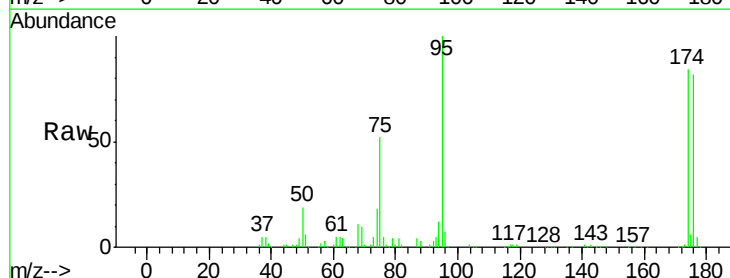
Tgt Ion: 75 Resp: 80156

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

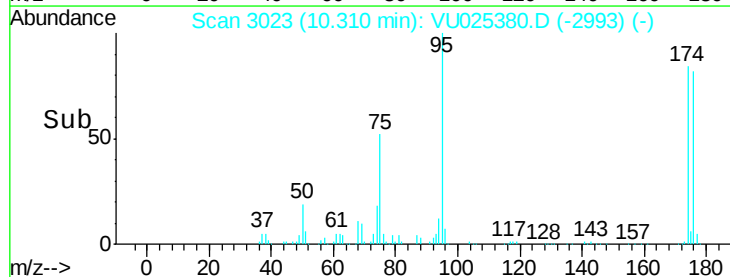
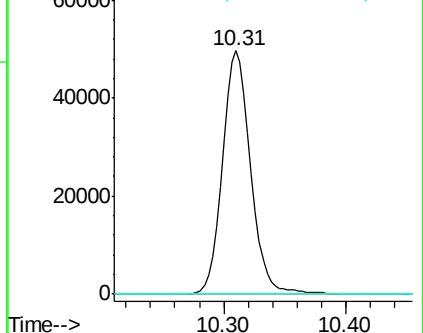
89 0.0 0.0 0.0

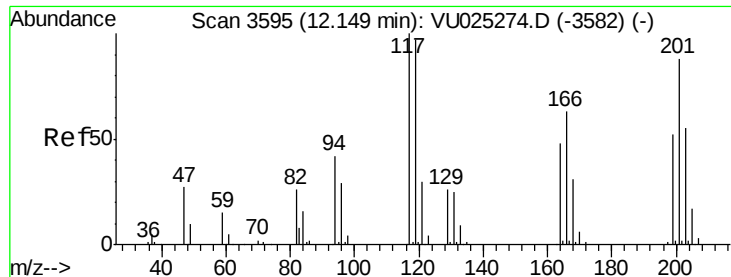


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

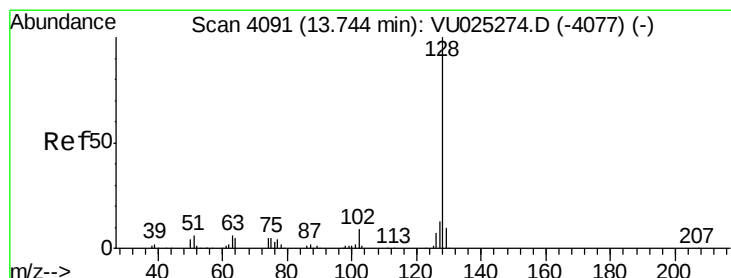
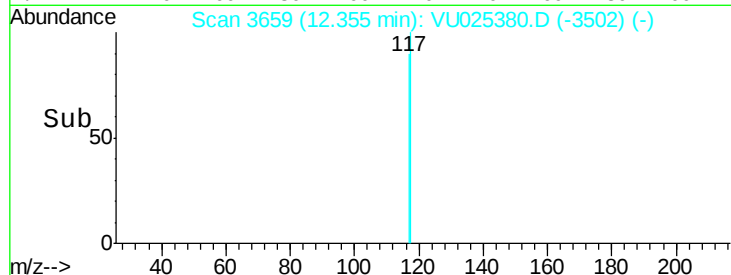
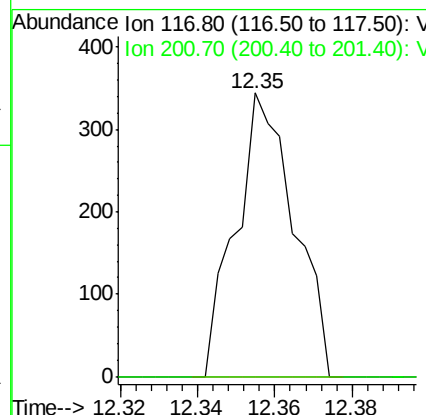
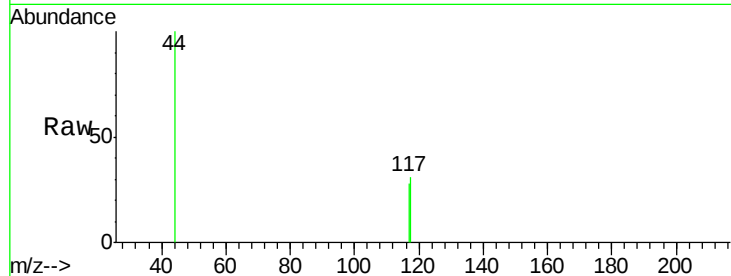




#90
 Hexachloroethane
 Concen: 0.22 ug/l
 RT: 12.35 min Scan# 3659
 Delta R.T. 0.21 min
 Lab File: VU025380.D
 Acq: 13 Jul 2018 08:28

Instrument :
 MSVOA_U
 ClientSampleId :
 CL-02-071118-B

Tot Ion:117 Resp: 361
 Ion Ratio Lower Upper
 117 100
 201 0.0 42.5 127.6#



#95
 Naphthalene
 Concen: 14.67 ug/l
 RT: 13.75 min Scan# 4092
 Delta R.T. 0.00 min
 Lab File: VU025380.D
 Acq: 13 Jul 2018 08:28

Tgt Ion:128 Resp: 137448
 Ion Ratio Lower Upper
 128 100
 127 13.0 10.5 15.7
 129 10.6 8.3 12.5

