

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071118\
 Data File : VU025322.D
 Acq On : 11 Jul 2018 18:18
 Operator : MD/SY
 Sample : J3921-05
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 KY038PS036-180709

Quant Time: Jul 12 03:13:29 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	200429	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	300483	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	277067	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	143190	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	151499	48.65	ug/l	0.00
Spiked Amount			Recovery	=	97.30%	
35) Dibromofluoromethane	4.89	113	118533	46.76	ug/l	0.00
Spiked Amount			Recovery	=	93.52%	
50) Toluene-d8	7.57	98	429943	49.53	ug/l	0.00
Spiked Amount			Recovery	=	99.06%	
62) 4-Bromofluorobenzene	10.31	95	158120	45.25	ug/l	0.00
Spiked Amount			Recovery	=	90.50%	

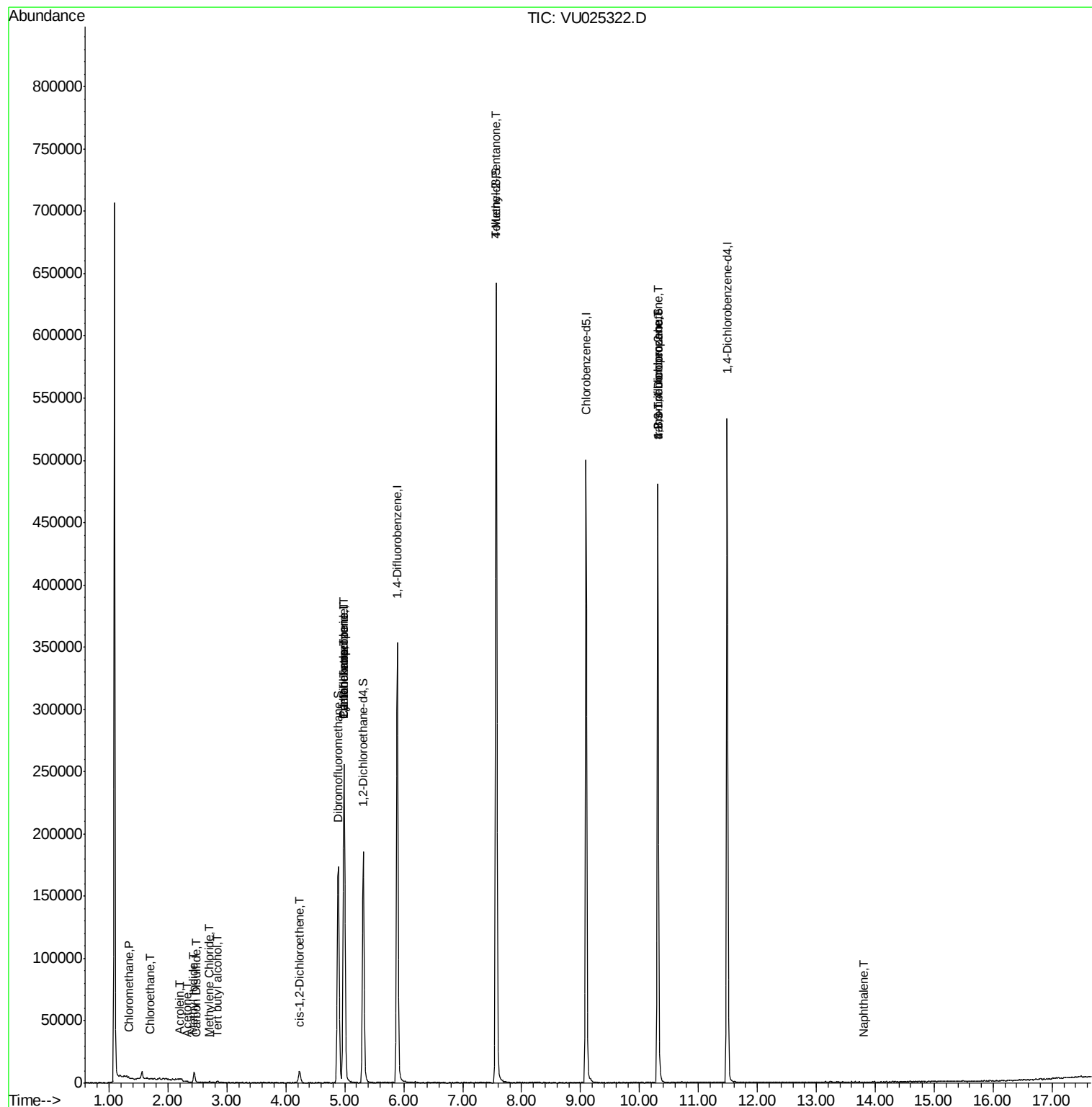
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	578	0.84	ug/l #	80
5) Bromomethane	1.64	94	277	Below Cal	#	57
6) Chloroethane	1.69	64	64	0.33	ug/l #	43
10) Methyl Iodide	2.42	142	21	7.71	ug/l #	39
11) Tert butyl alcohol	2.84	59	520	0.77	ug/l #	73
13) Acrolein	2.19	56	107	0.24	ug/l #	1
16) Acetone	2.32	43	826	5.38	ug/l #	87
17) Carbon Disulfide	2.49	76	193	1.96	ug/l #	74
20) Methylene Chloride	2.70	84	340	0.83	ug/l #	45
27) cis-1,2-Dichloroethene	4.24	96	5015	1.87	ug/l	97
31) Cyclohexane	4.99	56	3924	1.73	ug/l #	1
36) 1,1-Dichloropropene	4.99	75	14533	4.35	ug/l #	46
38) Carbon Tetrachloride	4.99	117	18453	5.13	ug/l #	15
51) 4-Methyl-2-Pentanone	7.57	43	2009	0.52	ug/l #	1
76) 1,2,3-Trichloropropane	10.31	75	83382	28.59	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	83382	73.09	ug/l #	100
95) Naphthalene	13.79	128	42	2.42	ug/l #	69

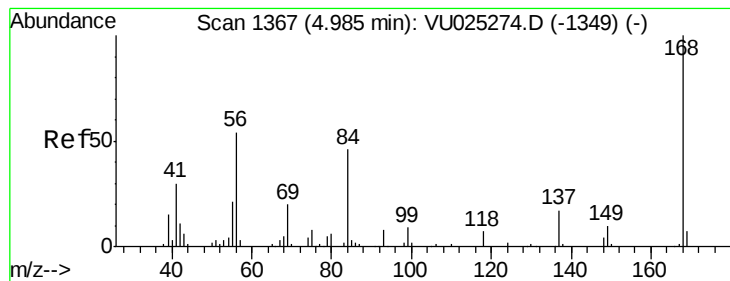
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025322.D

Acq: 11 Jul 2018 18:18

Instrument :

MSVOA_U

ClientSampleId :

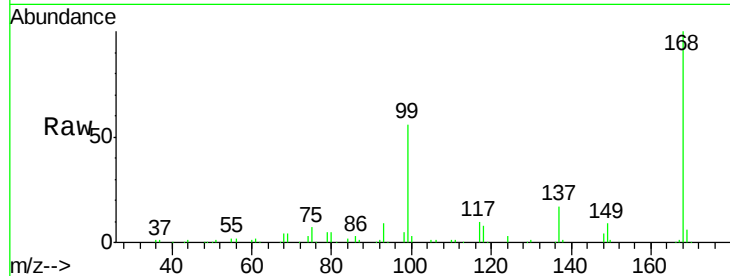
KY038PS036-180709

Tot Ion:168 Resp: 200429

Ion Ratio Lower Upper

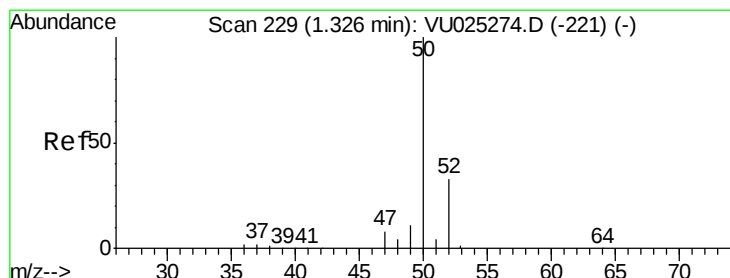
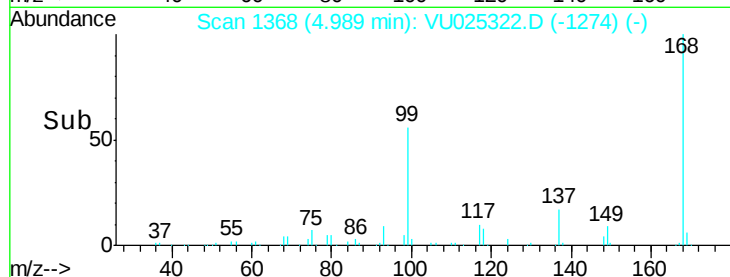
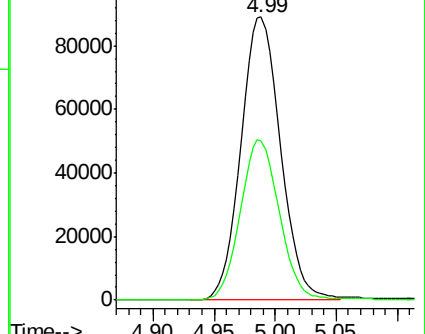
168 100

99 56.4 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) (-)



#3

Chloromethane

Concen: 0.84 ug/l

RT: 1.33 min Scan# 229

Delta R.T. 0.00 min

Lab File: VU025322.D

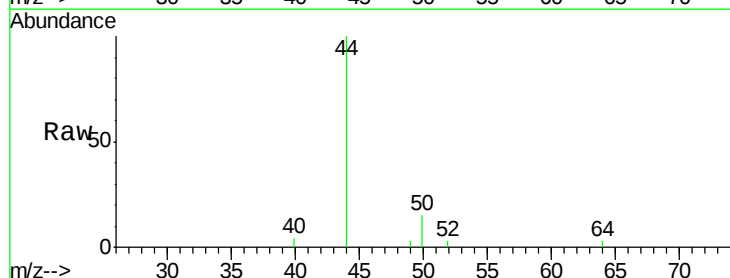
Acq: 11 Jul 2018 18:18

Tgt Ion: 50 Resp: 578

Ion Ratio Lower Upper

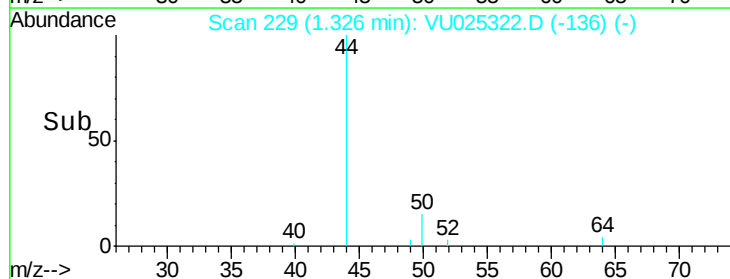
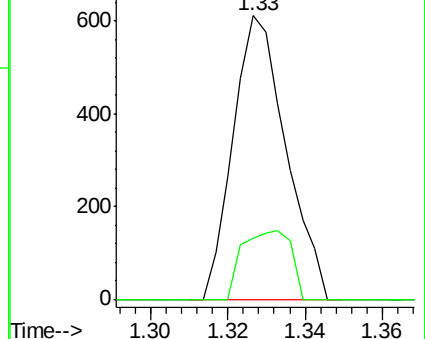
50 100

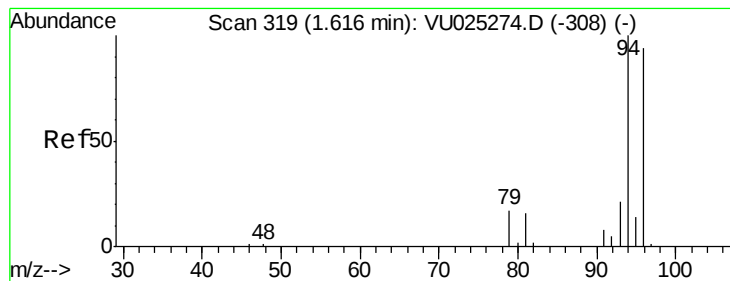
52 21.6 26.5 39.7#



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

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





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 326

Delta R.T. 0.02 min

Lab File: VU025322.D

Acq: 11 Jul 2018 18:18

Instrument :

MSVOA_U

ClientSampleId :

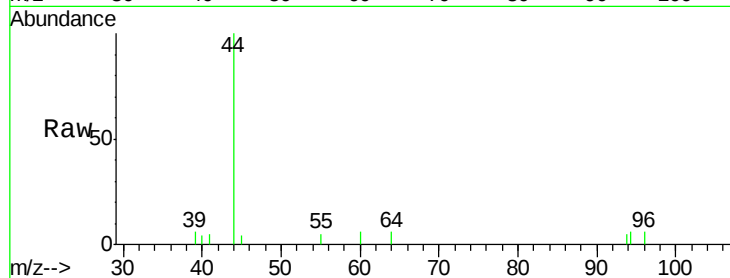
KY038PS036-180709

Tot Ion: 94 Resp: 277

Ion Ratio Lower Upper

94 100

96 52.6 75.0 112.4#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.64

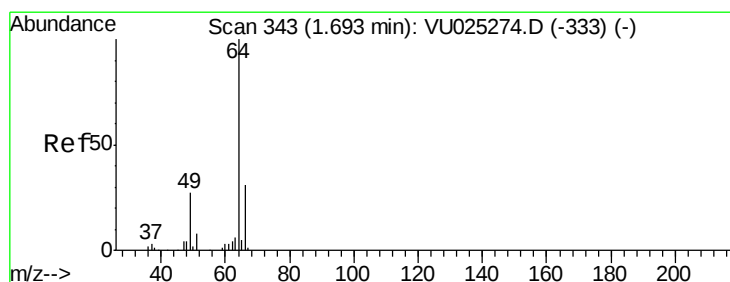
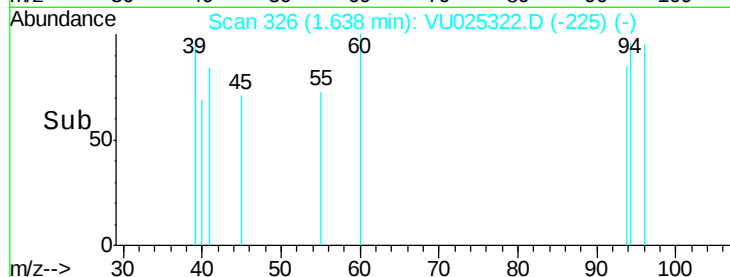
300

200

100

0

Time-->



#6

Chloroethane

Concen: 0.33 ug/l

RT: 1.69 min Scan# 341

Delta R.T. -0.01 min

Lab File: VU025322.D

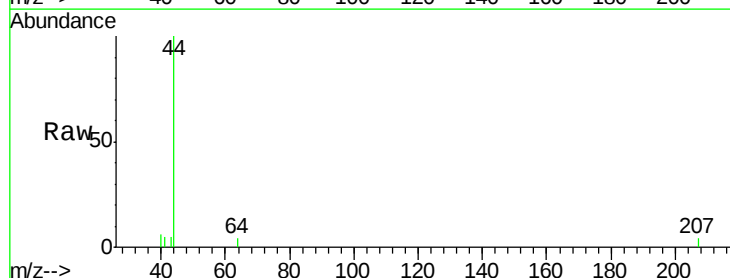
Acq: 11 Jul 2018 18:18

Tgt Ion: 64 Resp: 64

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

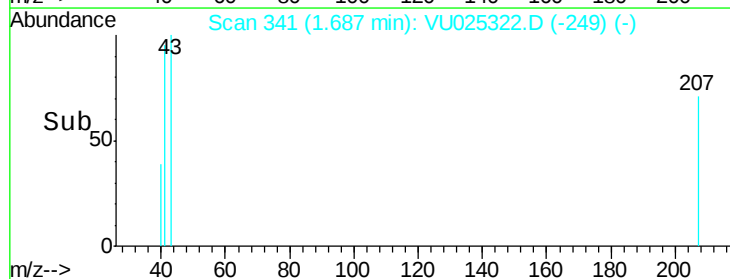
150

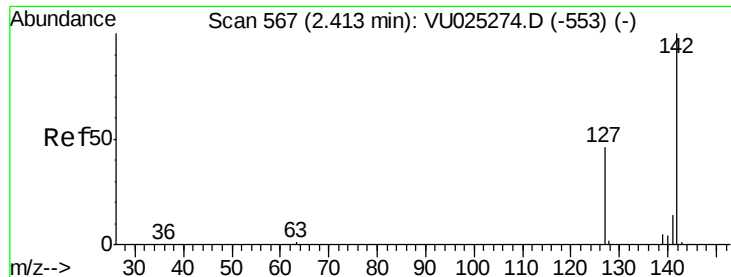
100

50

0

Time-->

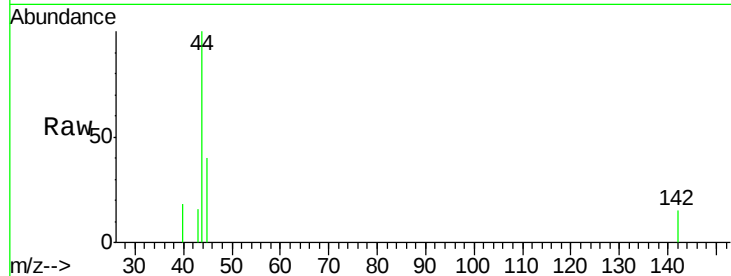




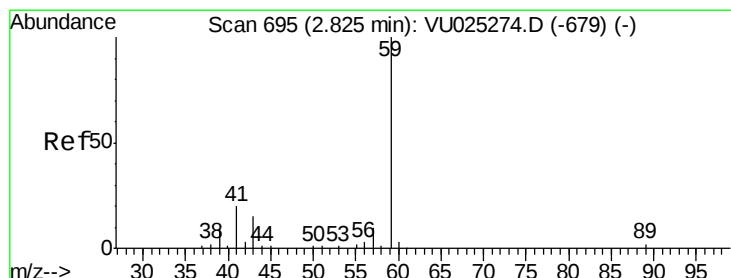
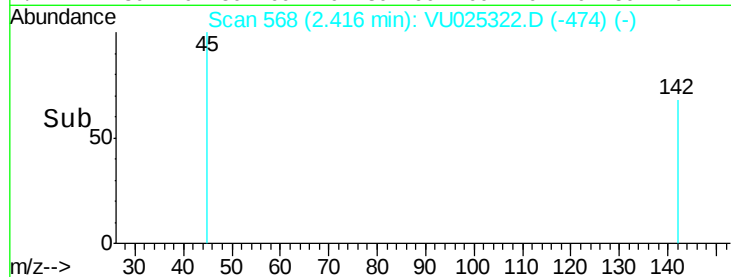
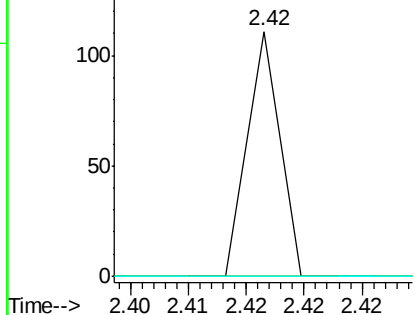
#10
Methvl Iodide
Concen: 7.71 ug/l
RT: 2.42 min Scan# 568
Delta R.T. 0.00 min
Lab File: VU025322.D
Acq: 11 Jul 2018 18:18

Instrument :
MSVOA_U
ClientSampleId :
KY038PS036-180709

Tot Ion:142 Resp: 21
Ion Ratio Lower Upper
142 100
127 0.0 36.5 54.7#
141 0.0 11.4 17.2#

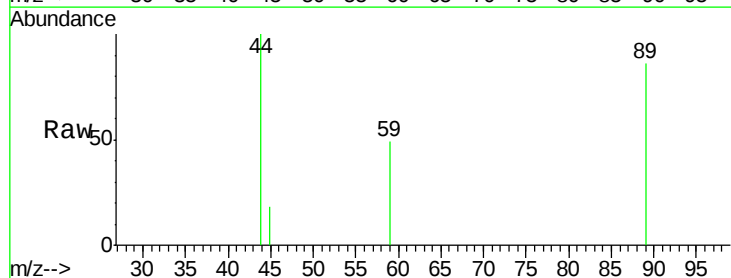


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

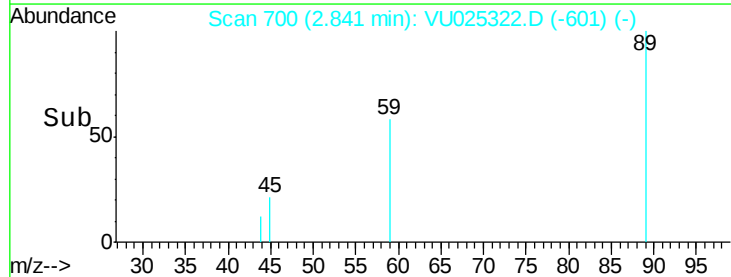
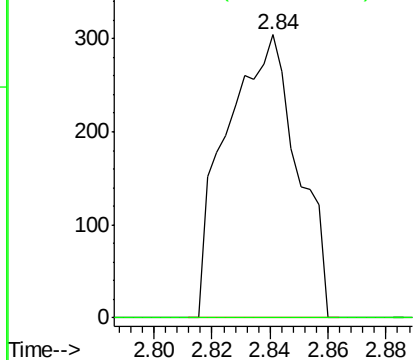


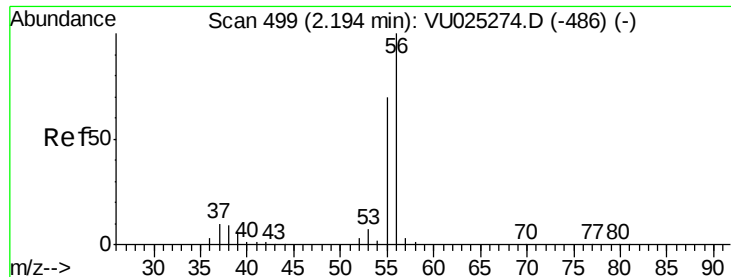
#11
Tert butyl alcohol
Concen: 0.77 ug/l
RT: 2.84 min Scan# 700
Delta R.T. 0.02 min
Lab File: VU025322.D
Acq: 11 Jul 2018 18:18

Tgt Ion: 59 Resp: 520
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



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





#13

Acrolein

Concen: 0.24 ug/l

RT: 2.19 min Scan# 499

Delta R.T. 0.00 min

Lab File: VU025322.D

Acq: 11 Jul 2018 18:18

Instrument :

MSVOA_U

ClientSampleId :

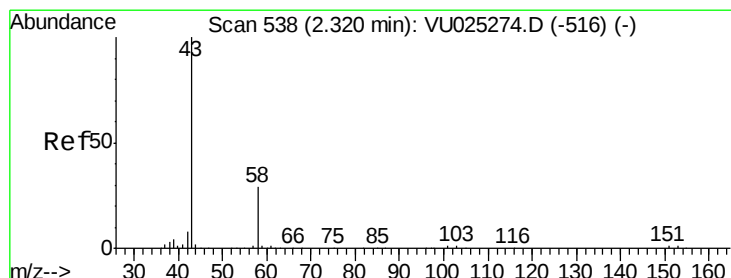
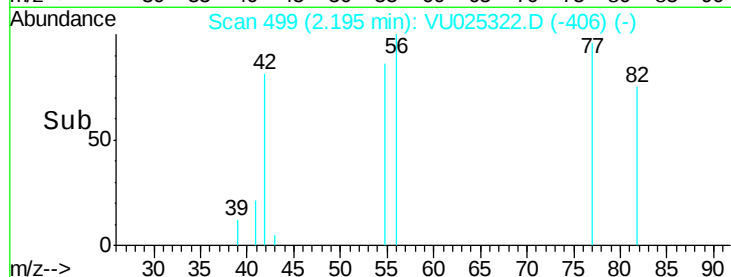
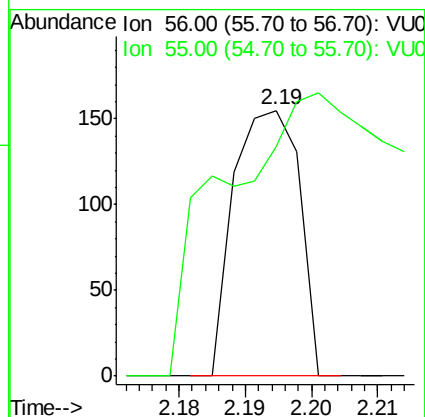
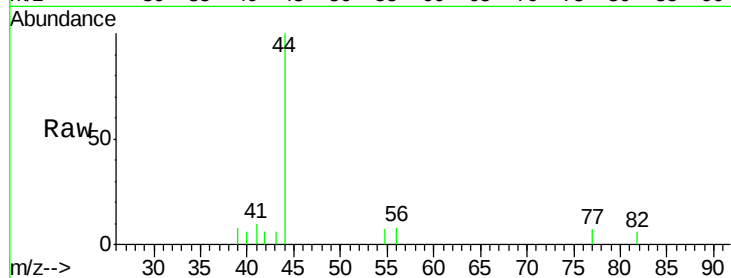
KY038PS036-180709

Tot Ion: 56 Resp: 107

Ion Ratio Lower Upper

56 100

55 265.4 57.2 85.8#



#16

Acetone

Concen: 5.38 ug/l

RT: 2.32 min Scan# 538

Delta R.T. 0.00 min

Lab File: VU025322.D

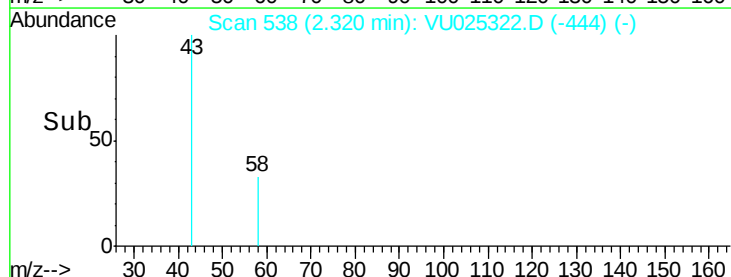
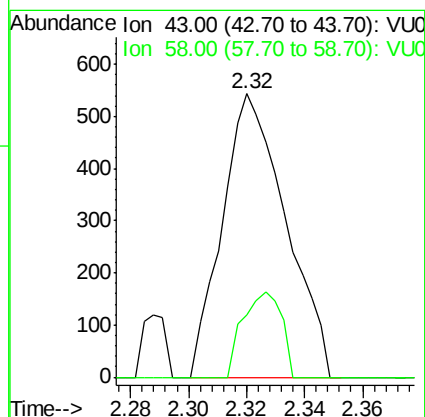
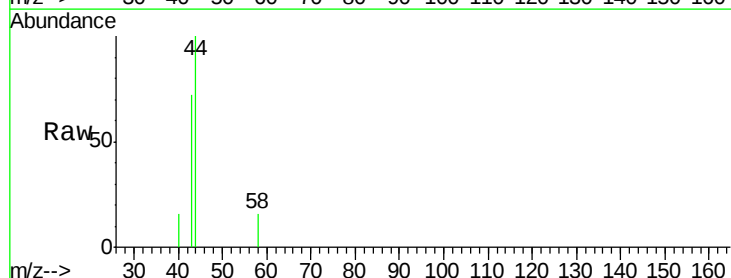
Acq: 11 Jul 2018 18:18

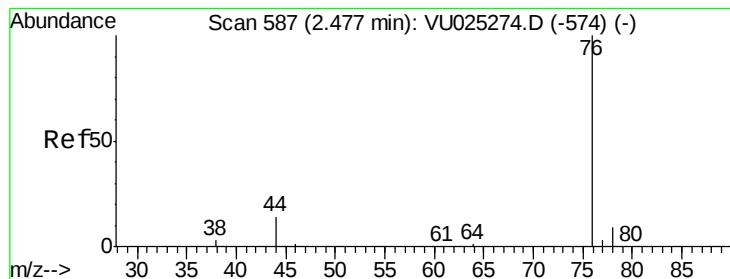
Tgt Ion: 43 Resp: 826

Ion Ratio Lower Upper

43 100

58 22.1 23.1 34.7#





#17

Carbon Disulfide

Concen: 1.96 ug/l

RT: 2.49 min Scan# 590

Delta R.T. 0.01 min

Lab File: VU025322.D

Acq: 11 Jul 2018 18:18

Instrument :

MSVOA_U

ClientSampleId :

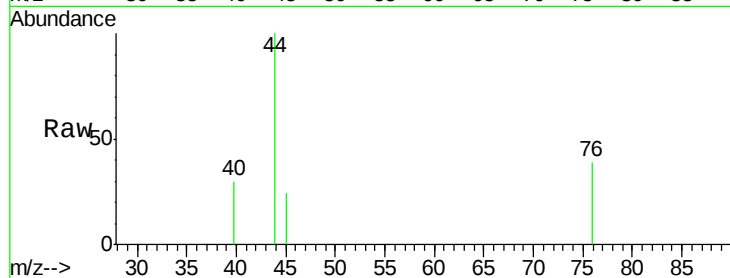
KY038PS036-180709

Tot Ion: 76 Resp: 193

Ion Ratio Lower Upper

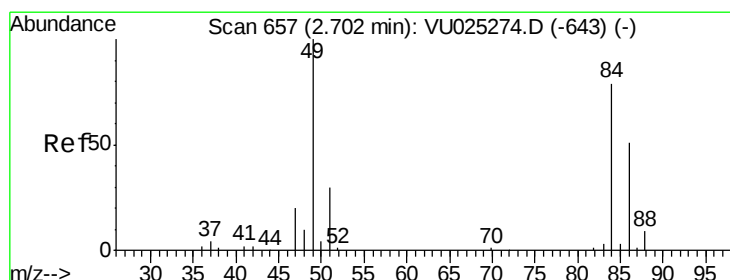
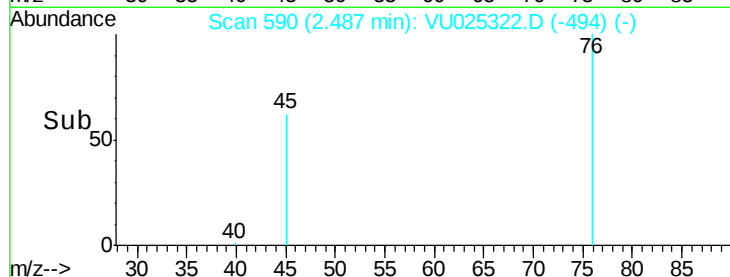
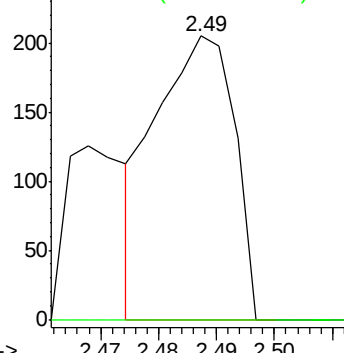
76 100

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



#20

Methylene Chloride

Concen: 0.83 ug/l

RT: 2.70 min Scan# 656

Delta R.T. -0.00 min

Lab File: VU025322.D

Acq: 11 Jul 2018 18:18

Tgt Ion: 84 Resp: 340

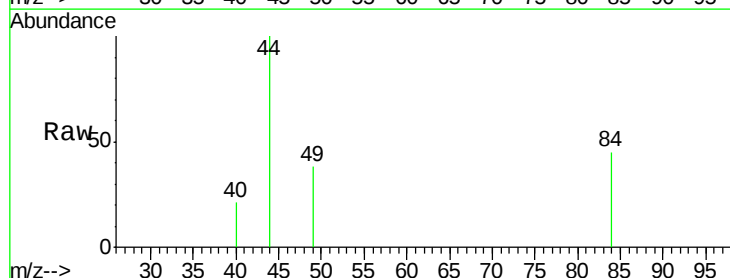
Ion Ratio Lower Upper

84 100

49 83.7 101.8 152.6#

51 0.0 30.8 46.2#

86 0.0 51.9 77.9#

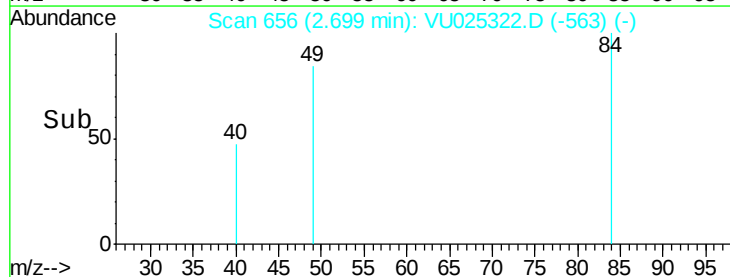
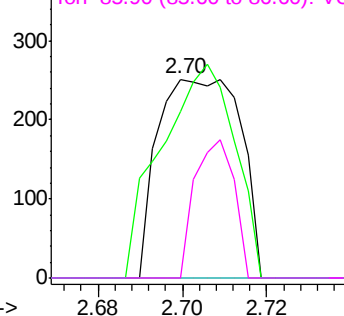


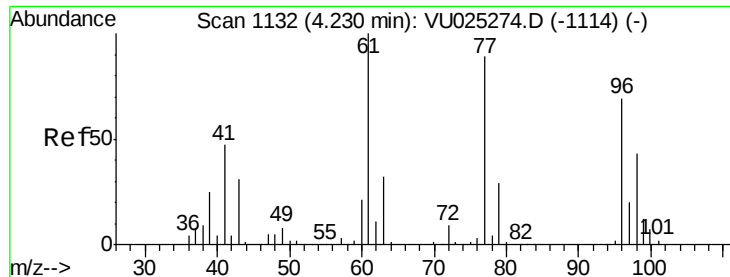
Abundance Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0





#27

cis-1,2-Dichloroethene

Concen: 1.87 ug/l

RT: 4.24 min Scan# 1135

Delta R.T. 0.01 min

Lab File: VU025322.D

Acq: 11 Jul 2018 18:18

Instrument :

MSVOA_U

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KY038PS036-180709

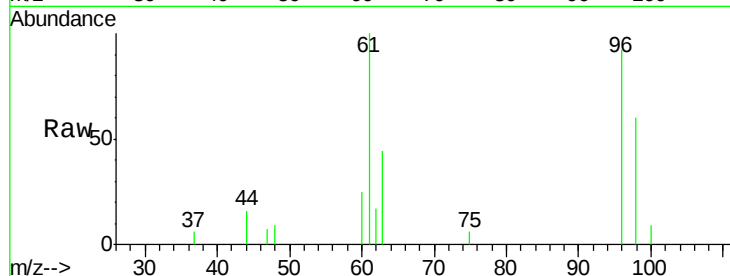
Tot Ion: 96 Resp: 5015

Ion Ratio Lower Upper

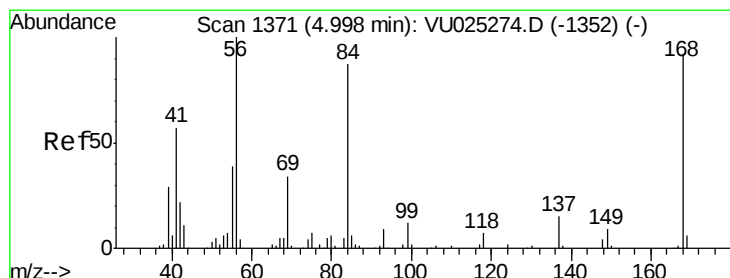
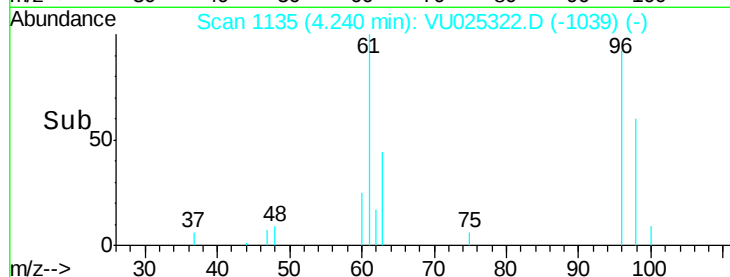
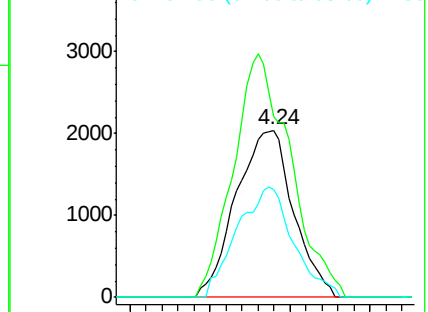
96 100

61 144.3 0.0 299.8

98 65.0 0.0 128.6



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: 1.73 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VU025322.D

Acq: 11 Jul 2018 18:18

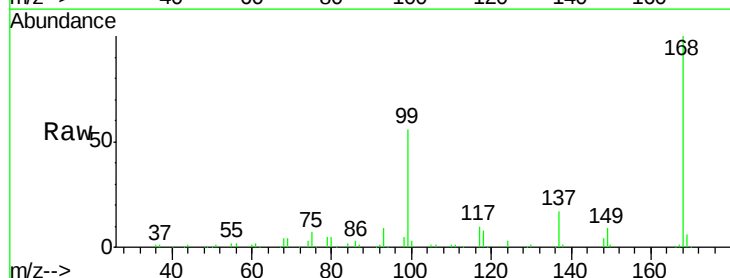
Tgt Ion: 56 Resp: 3924

Ion Ratio Lower Upper

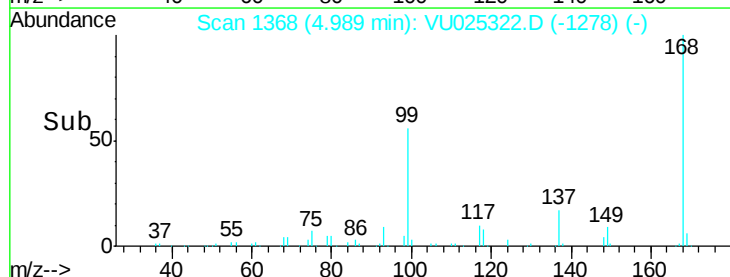
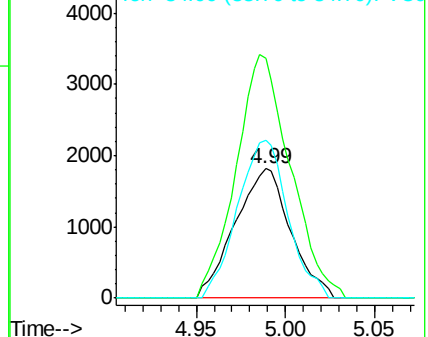
56 100

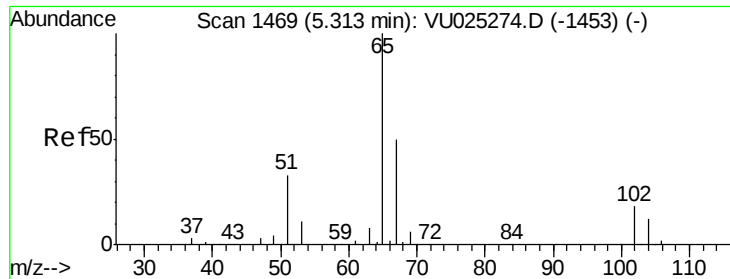
69 185.3 26.8 40.2#

84 122.4 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

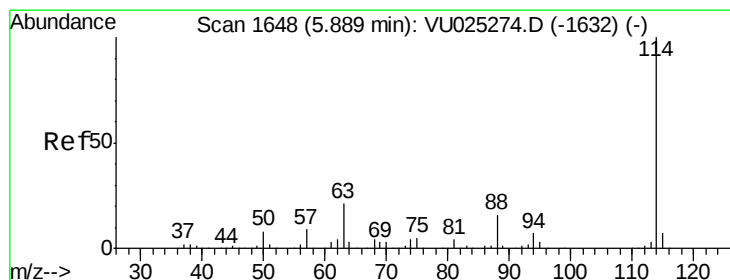
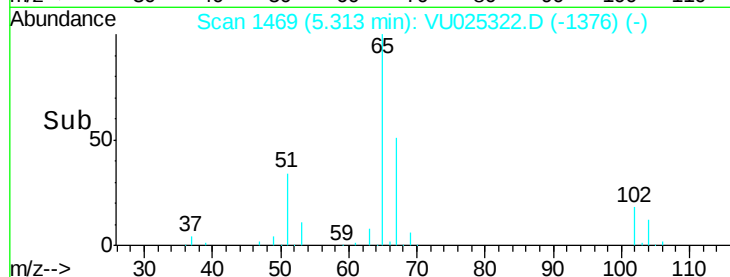
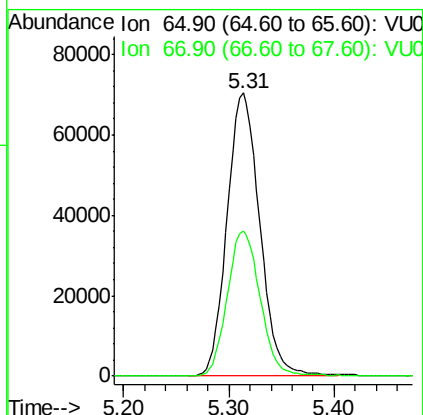
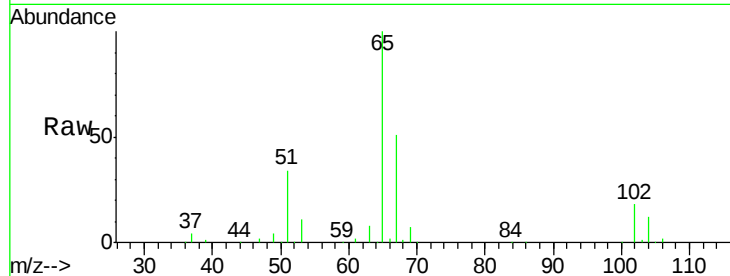




#33
 1,2-Dichloroethane-d4
 Concen: 48.65 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VU025322.D
 Acq: 11 Jul 2018 18:18

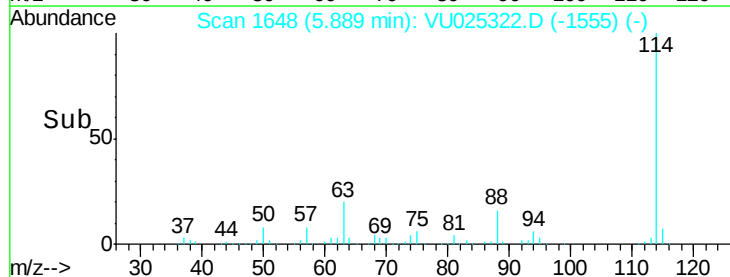
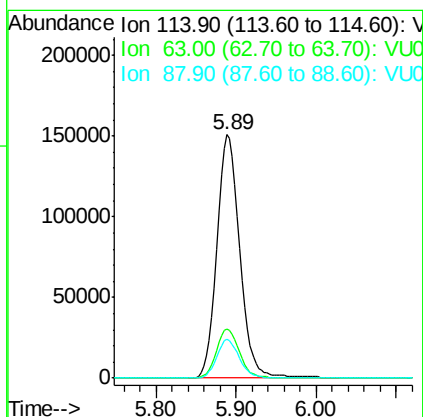
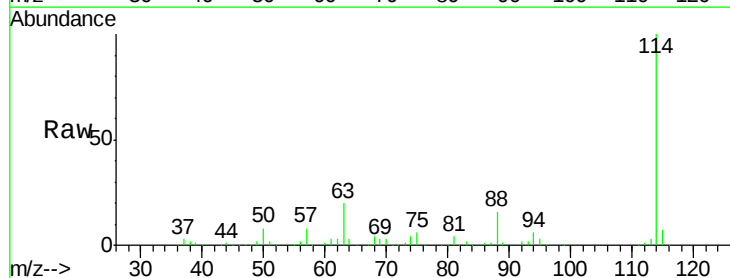
Instrument :
 MSVOA_U
 ClientSampleId :
 KY038PS036-180709

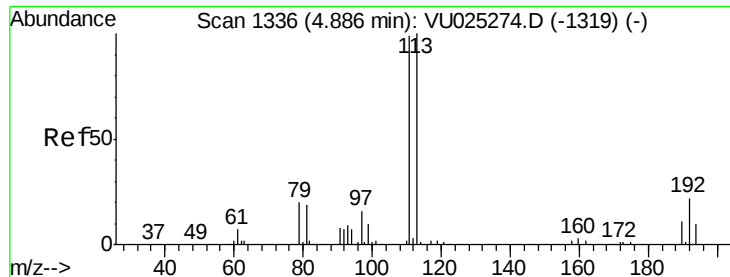
Tot Ion: 65 Resp: 151499
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1648
 Delta R.T. 0.00 min
 Lab File: VU025322.D
 Acq: 11 Jul 2018 18:18

Tgt Ion: 114 Resp: 300483
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 41.6
 88 16.1 0.0 32.4

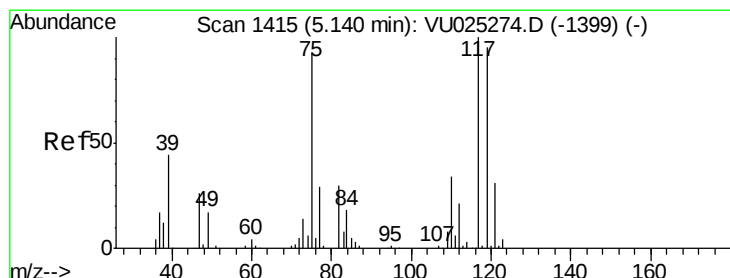
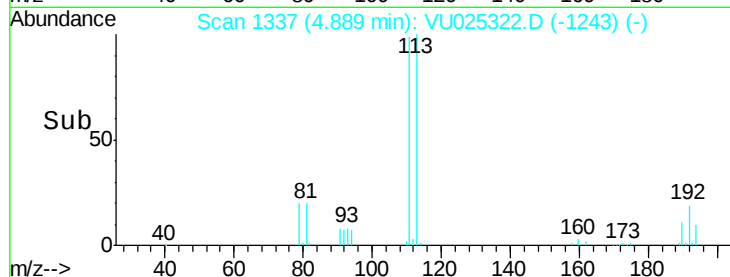
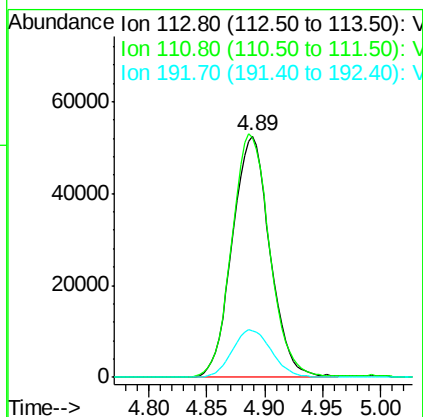
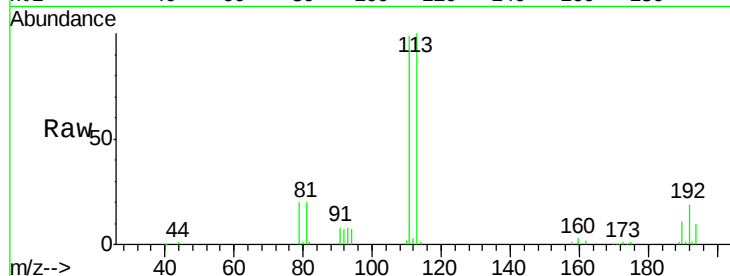




#35
 Dibromofluoromethane
 Concen: 46.76 ug/l
 RT: 4.89 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VU025322.D
 Acq: 11 Jul 2018 18:18

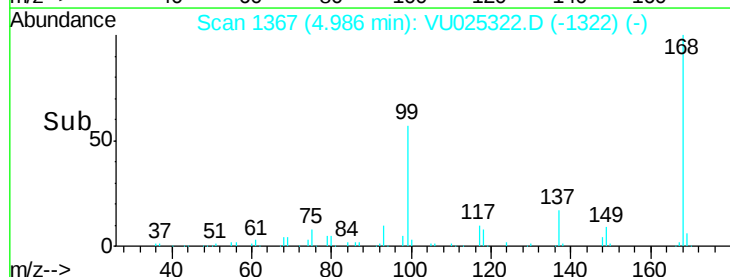
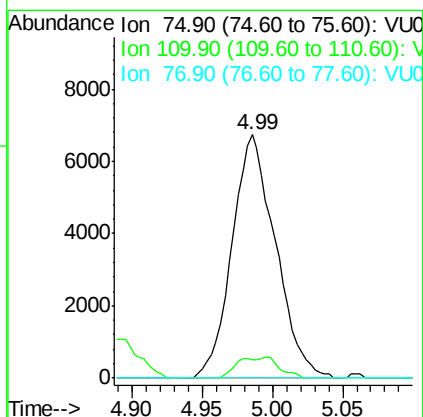
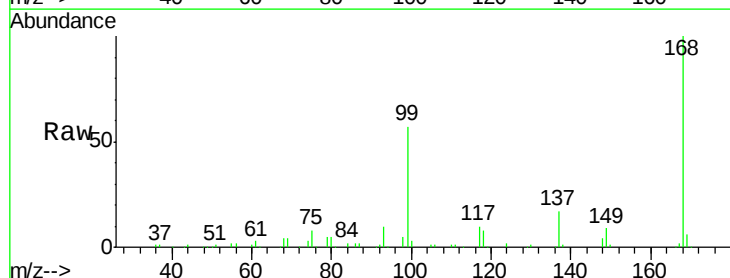
Instrument :
 MSVOA_U
 ClientSampleId :
 KY038PS036-180709

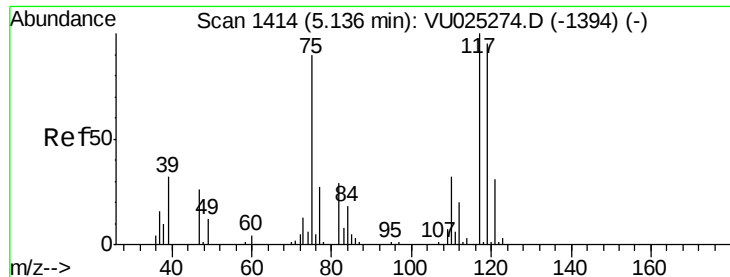
Tot Ion:113 Resp: 118533
 Ion Ratio Lower Upper
 113 100
 111 101.6 81.7 122.5
 192 20.6 17.1 25.7



#36
 1,1-Dichloropropene
 Concen: 4.35 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.15 min
 Lab File: VU025322.D
 Acq: 11 Jul 2018 18:18

Tgt Ion: 75 Resp: 14533
 Ion Ratio Lower Upper
 75 100
 110 4.3 17.6 52.9#
 77 0.0 24.4 36.6#





#38

Carbon Tetrachloride

Concen: 5.13 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025322.D

Acq: 11 Jul 2018 18:18

Instrument :

MSVOA_U

ClientSampleId :

KY038PS036-180709

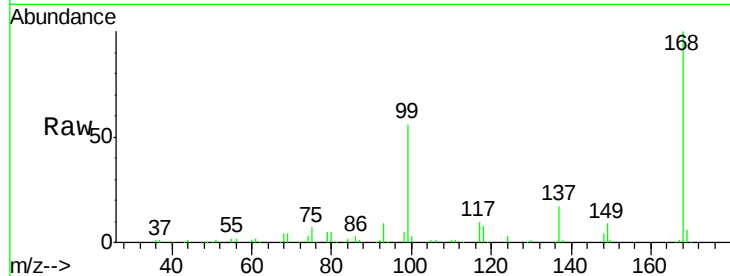
Tot Ion:117 Resp: 18453

Ion Ratio Lower Upper

117 100

119 3.8 75.7 113.5#

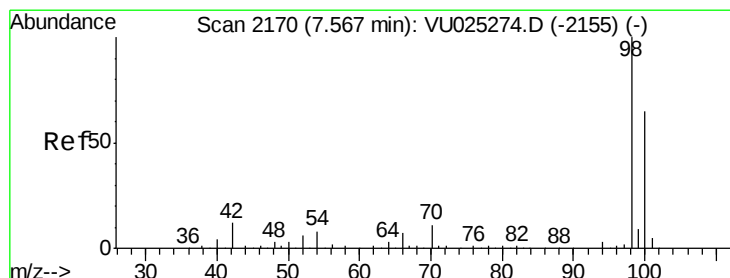
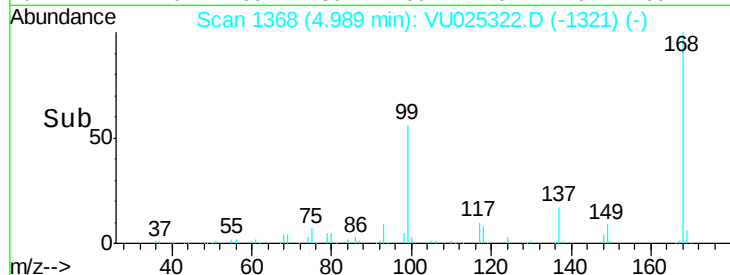
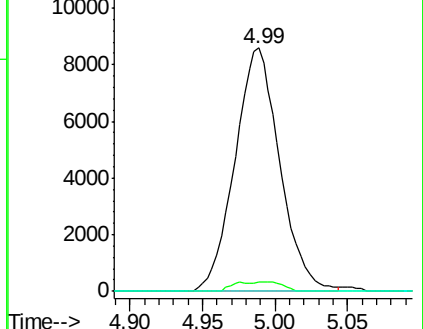
121 0.0 24.6 36.8#



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



#50

Toluene-d8

Concen: 49.53 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. 0.00 min

Lab File: VU025322.D

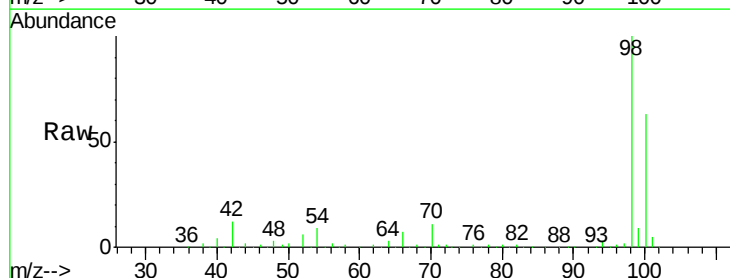
Acq: 11 Jul 2018 18:18

Tgt Ion: 98 Resp: 429943

Ion Ratio Lower Upper

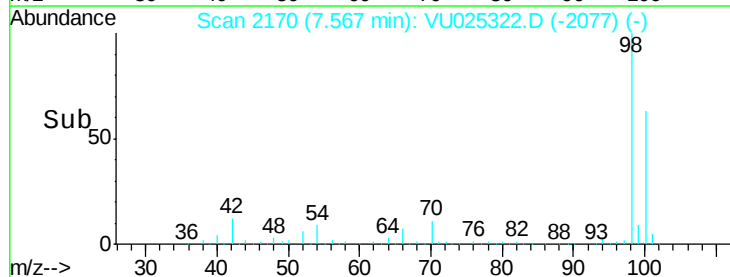
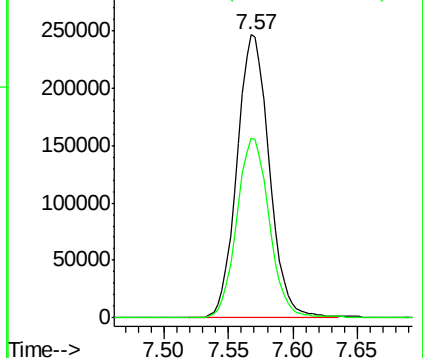
98 100

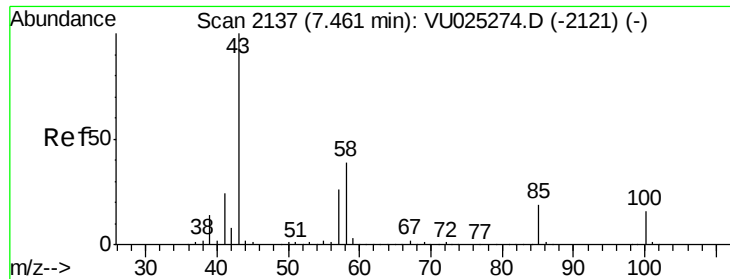
100 64.0 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU





#51

4-Methyl-2-Pentanone

Concen: 0.52 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. 0.11 min

Lab File: VU025322.D

Acq: 11 Jul 2018 18:18

Instrument :

MSVOA_U

ClientSampleId :

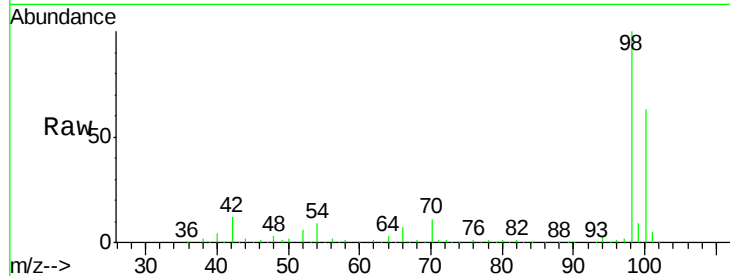
KY038PS036-180709

Tot Ion: 43 Resp: 2009

Ion Ratio Lower Upper

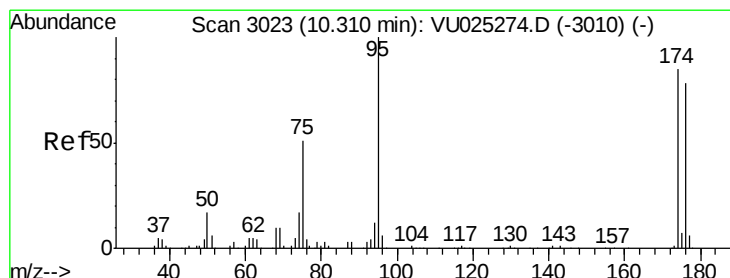
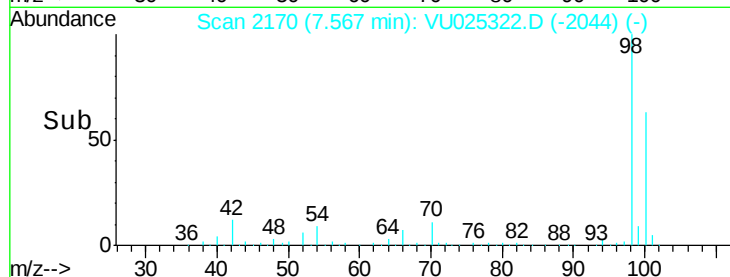
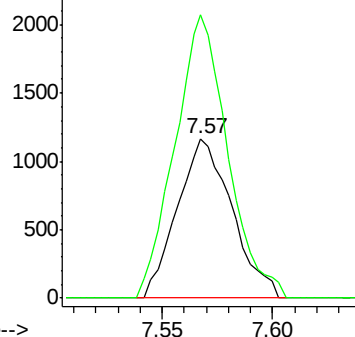
43 100

58 171.1 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: 45.25 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU025322.D

Acq: 11 Jul 2018 18:18

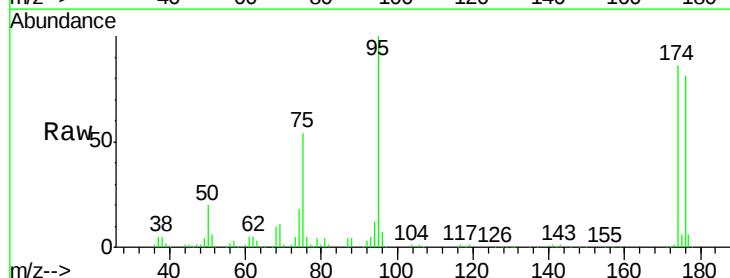
Tgt Ion: 95 Resp: 158120

Ion Ratio Lower Upper

95 100

174 86.0 0.0 172.2

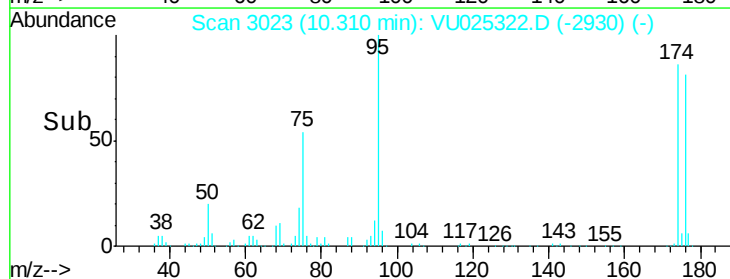
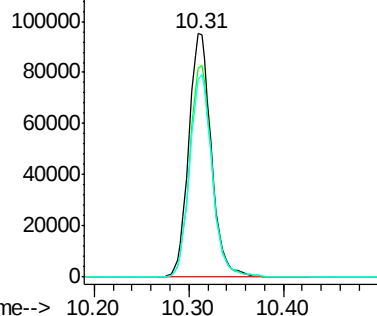
176 82.5 0.0 162.6

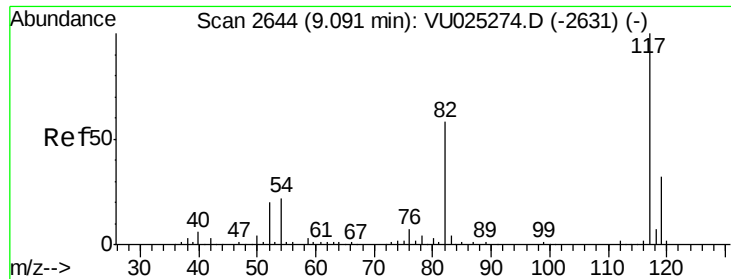


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

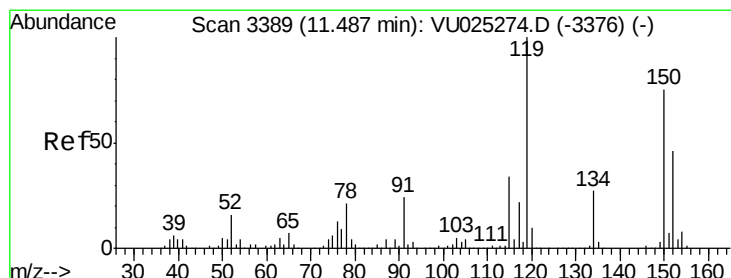
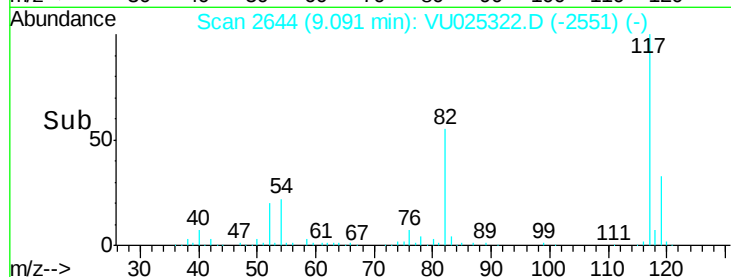
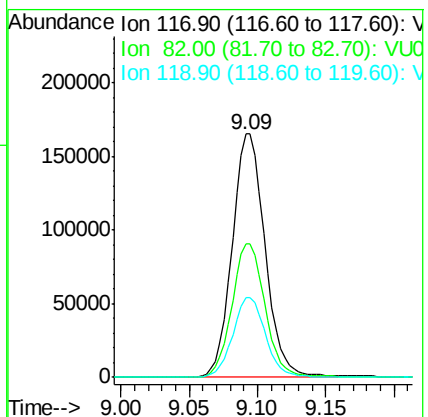
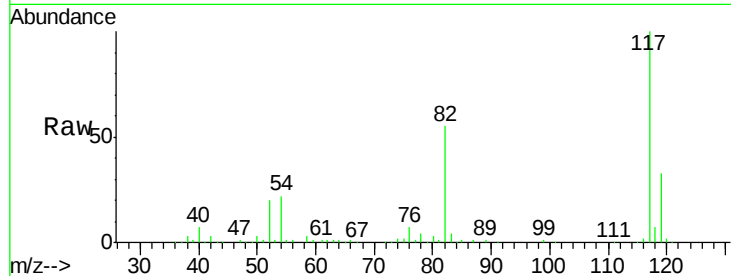




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VU025322.D
Acq: 11 Jul 2018 18:18

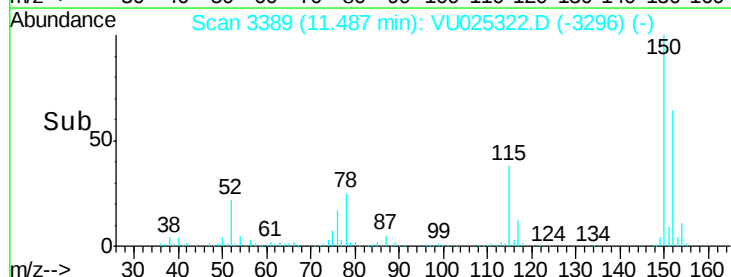
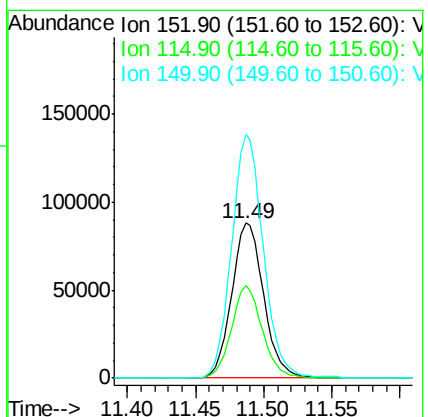
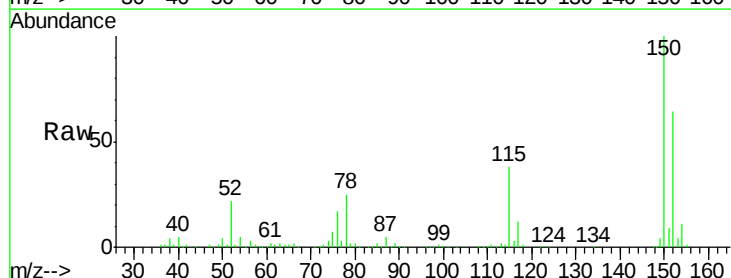
Instrument :
MSVOA_U
ClientSampleId :
KY038PS036-180709

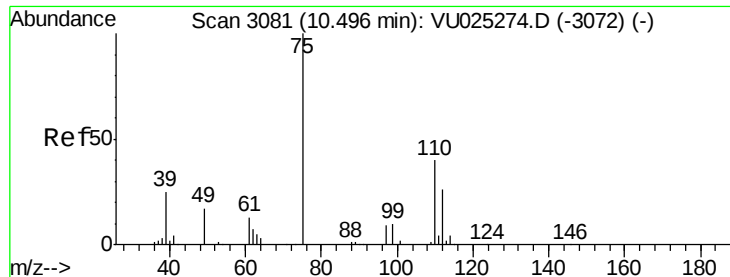
Tot Ion:117 Resp: 277067
Ion Ratio Lower Upper
117 100
82 54.9 46.0 69.0
119 32.7 26.0 39.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. 0.00 min
Lab File: VU025322.D
Acq: 11 Jul 2018 18:18

Tgt Ion:152 Resp: 143190
Ion Ratio Lower Upper
152 100
115 57.3 40.1 120.3
150 156.4 0.0 351.4





#76

1,2,3-Trichloropropane

Concen: 28.59 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025322.D

Acq: 11 Jul 2018 18:18

Instrument :

MSVOA_U

ClientSampleId :

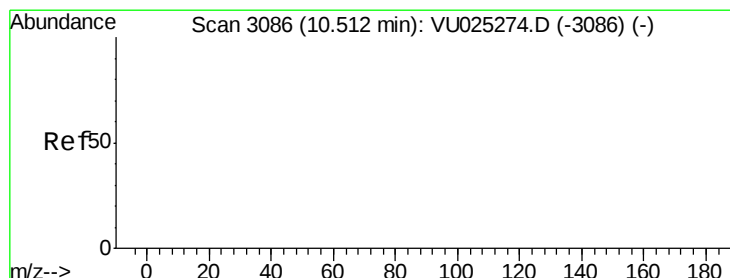
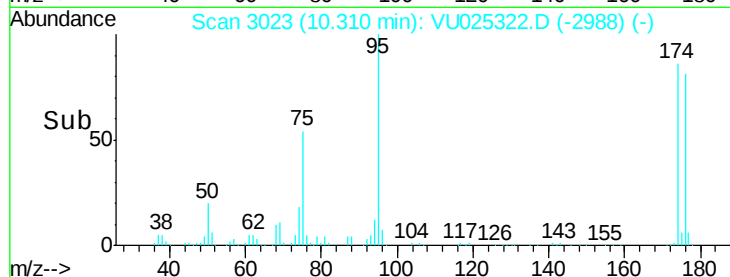
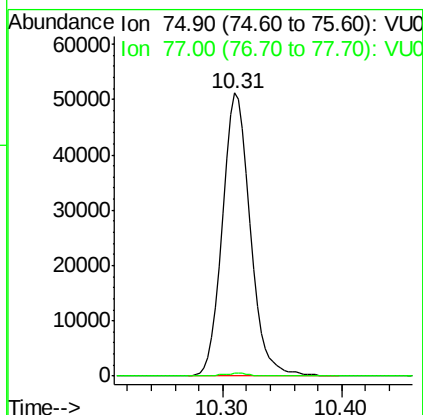
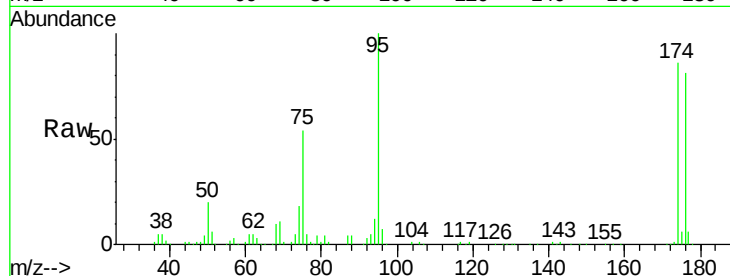
KY038PS036-180709

Tot Ion: 75 Resp: 83382

Ion Ratio Lower Upper

75 100

77 0.9 20.4 61.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 73.09 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025322.D

Acq: 11 Jul 2018 18:18

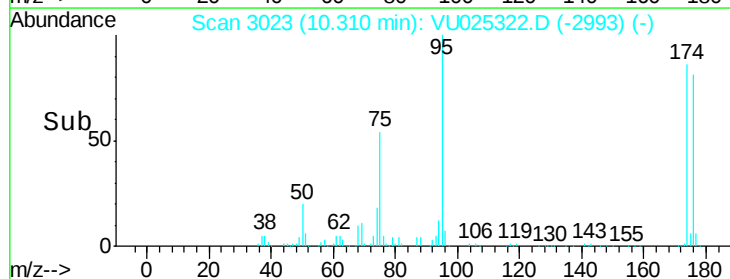
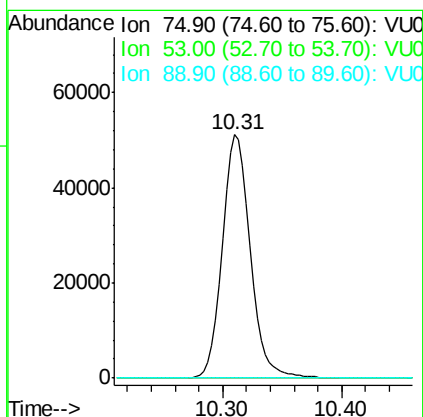
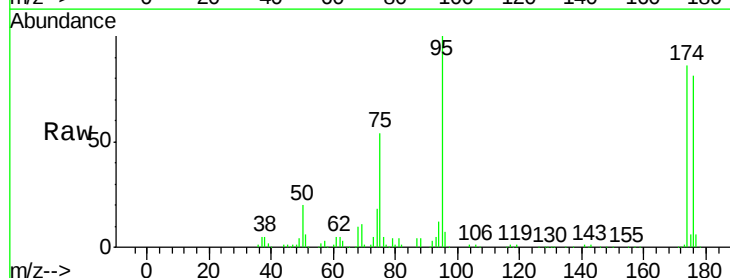
Tgt Ion: 75 Resp: 83382

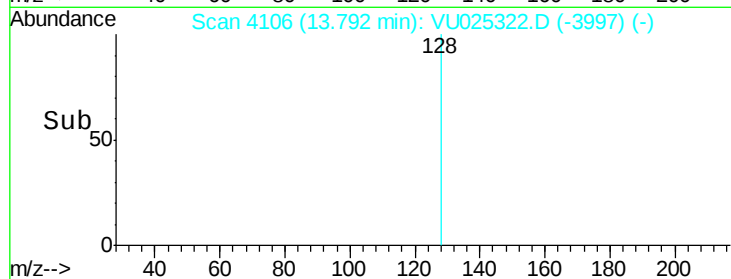
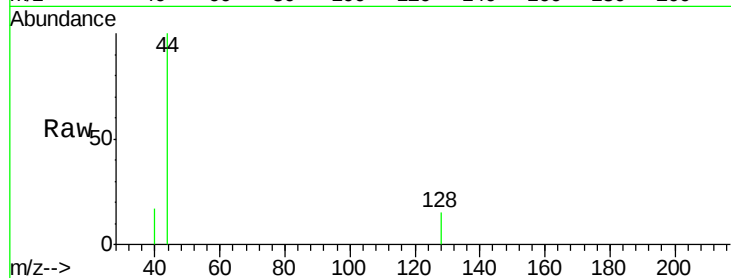
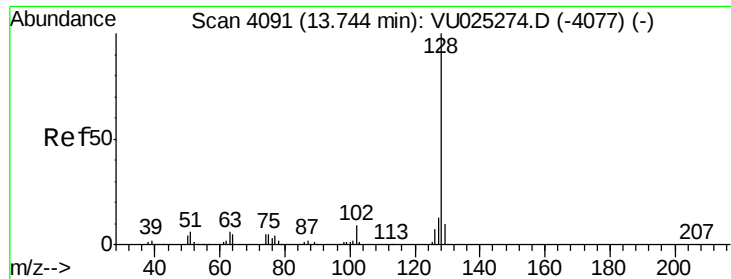
Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0





#95

Napthalene

Concen: 2.42 ug/l

RT: 13.79 min Scan# 4106

Delta R.T. 0.05 min

Lab File: VU025322.D

Acq: 11 Jul 2018 18:18

Instrument :

MSVOA_U

ClientSampleId :

KY038PS036-180709

Tot Ion:128 Resp: 42

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.3 12.5#

