

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU061818\
 Data File : VU024717.D
 Acq On : 19 Jun 2018 02:43
 Operator : MD/SY
 Sample : J3535-05
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 KY070MW233-180613

Quant Time: Jun 19 05:20:17 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	188996	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	297027	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	274486	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	147479	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	129866	42.09	ug/l	0.00
Spiked Amount 50.000			Recovery	=	84.18%	
35) Dibromofluoromethane	4.89	113	115538	46.87	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.74%	
50) Toluene-d8	7.57	98	429385	47.75	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.50%	
62) 4-Bromofluorobenzene	10.31	95	153110	42.89	ug/l	0.00
Spiked Amount 50.000			Recovery	=	85.78%	

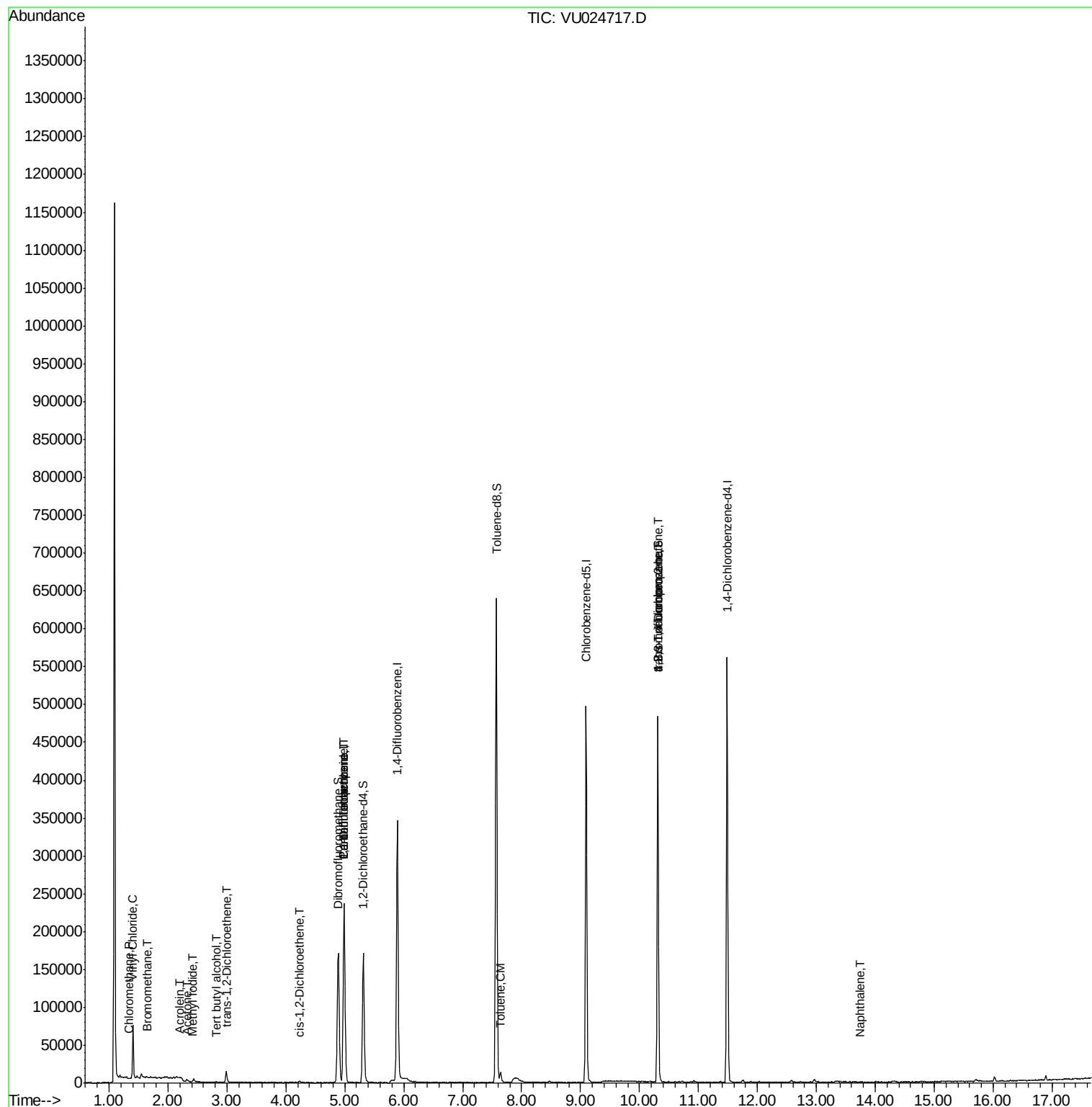
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	615	0.254	ug/l	98
4) Vinyl Chloride	1.41	62	43478	17.444	ug/l	99
5) Bromomethane	1.64	94	600	0.498	ug/l #	46
6) Chloroethane	1.70	64	704	Below Cal		95
8) Diethyl Ether	2.10	74	86	Below Cal #		13
10) Methyl Iodide	2.41	142	71	5.320	ug/l #	40
11) Tert butyl alcohol	2.82	59	330	0.440	ug/l #	72
13) Acrolein	2.20	56	90	0.228	ug/l #	13
16) Acetone	2.32	43	3006	1.813	ug/l	94
21) trans-1,2-Dichloroethene	2.99	96	6052	2.553	ug/l	83
27) cis-1,2-Dichloroethene	4.23	96	933	0.342	ug/l	86
31) Cyclohexane	4.99	56	3928	Below Cal #		1
36) 1,1-Dichloropropene	4.99	75	13769	3.945	ug/l #	46
38) Carbon Tetrachloride	4.99	117	17526	4.566	ug/l #	16
52) Toluene	7.64	92	5212	0.815	ug/l	97
76) 1,2,3-Trichloropropane	10.31	75	76365	23.519	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	76365	54.433	ug/l #	100
95) Naphthalene	13.76	128	309	0.707	ug/l #	69

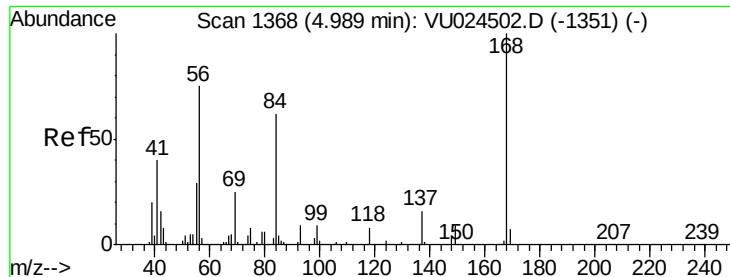
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU024717.D

Acq: 19 Jun 2018 02:43

Instrument :

MSVOA_U

ClientSampleId :

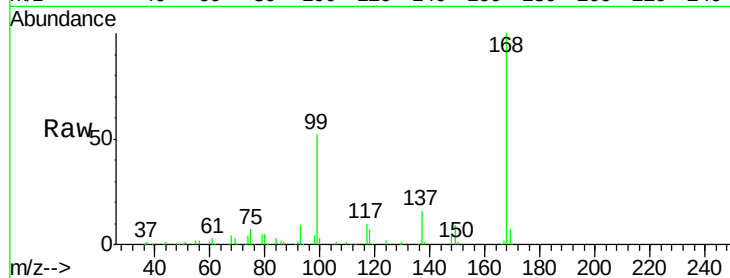
KY070MW233-180613

Tgt Ion:168 Resp: 188996

Ion Ratio Lower Upper

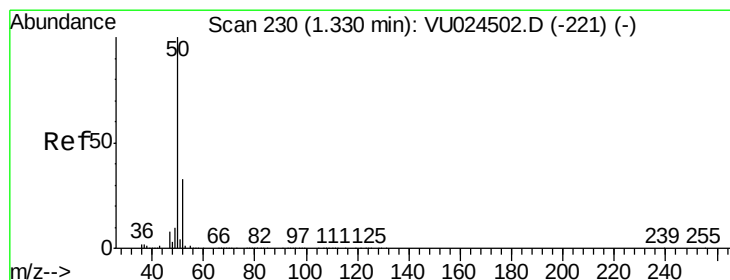
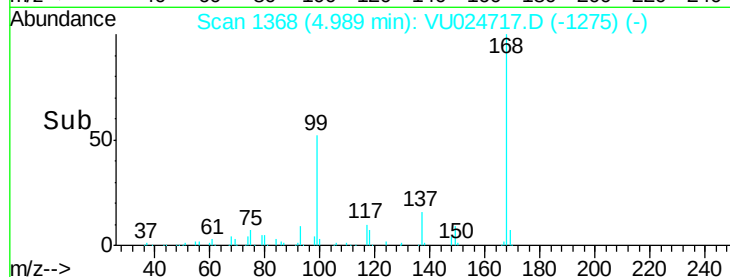
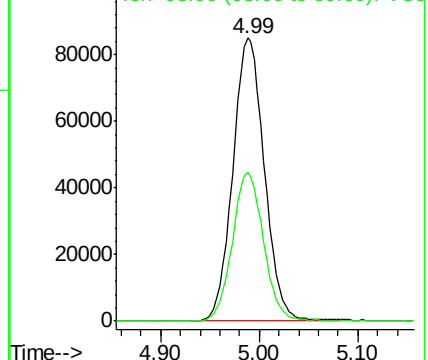
168 100

99 52.4 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: 0.254 ug/l

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU024717.D

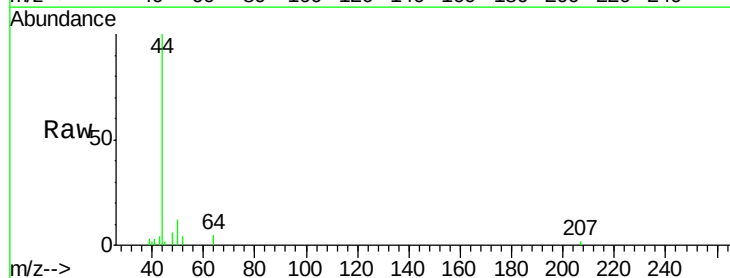
Acq: 19 Jun 2018 02:43

Tgt Ion: 50 Resp: 615

Ion Ratio Lower Upper

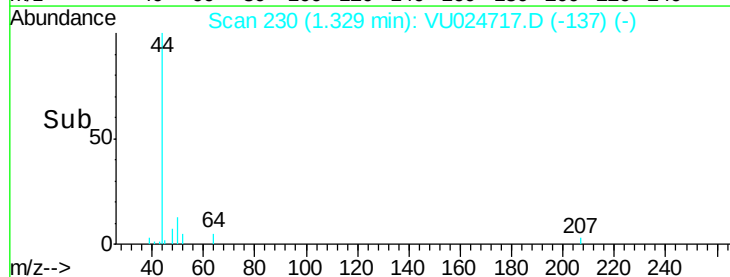
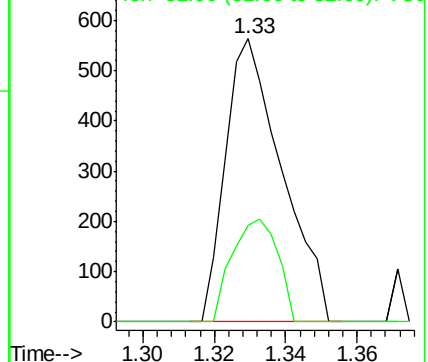
50 100

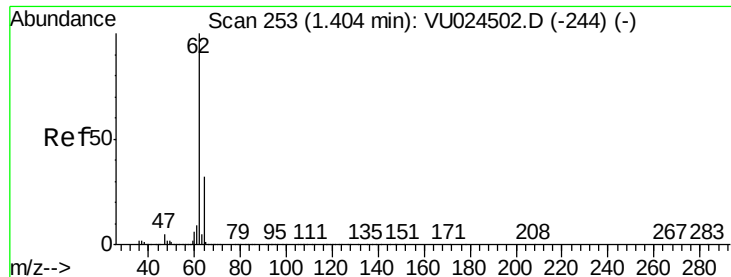
52 34.1 26.4 39.6



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: 17.444 ug/l

RT: 1.41 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU024717.D

Acq: 19 Jun 2018 02:43

Instrument :

MSVOA_U

ClientSampleId :

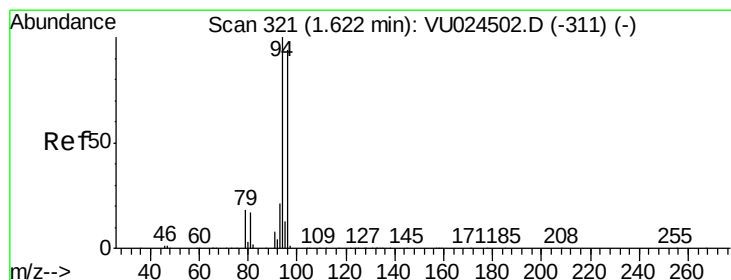
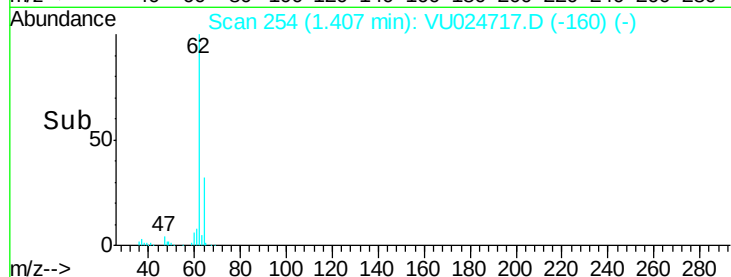
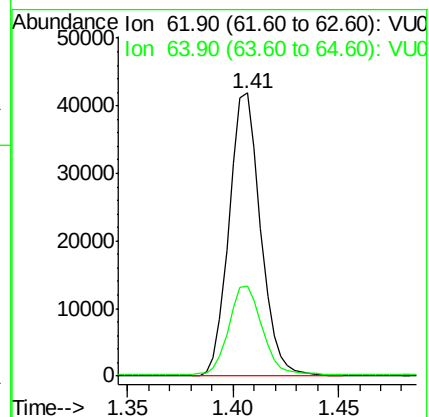
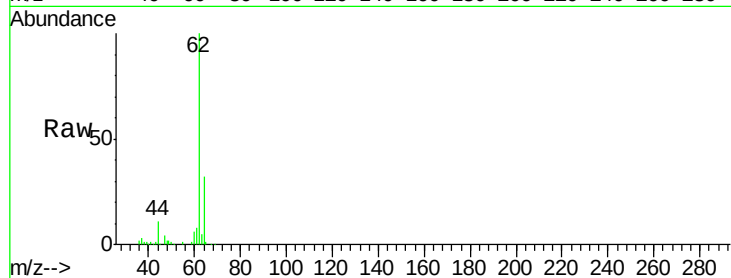
KY070MW233-180613

Tgt Ion: 62 Resp: 43478

Ion Ratio Lower Upper

62 100

64 31.4 24.8 37.2



#5

Bromomethane

Concen: 0.498 ug/l

RT: 1.64 min Scan# 327

Delta R.T. 0.02 min

Lab File: VU024717.D

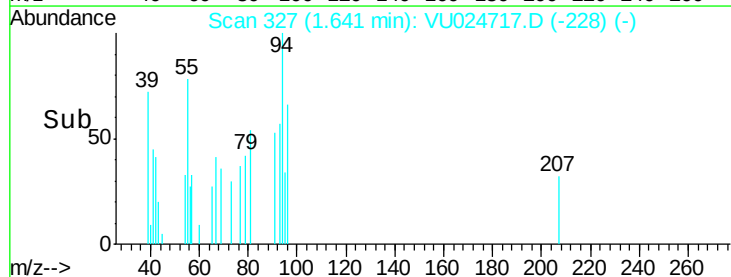
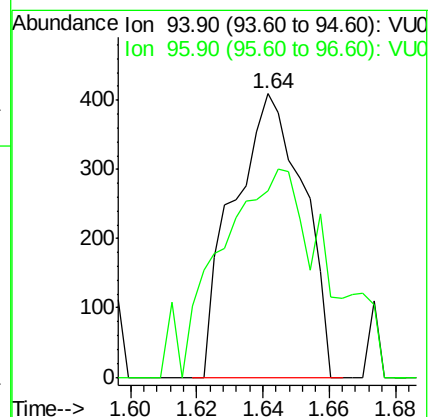
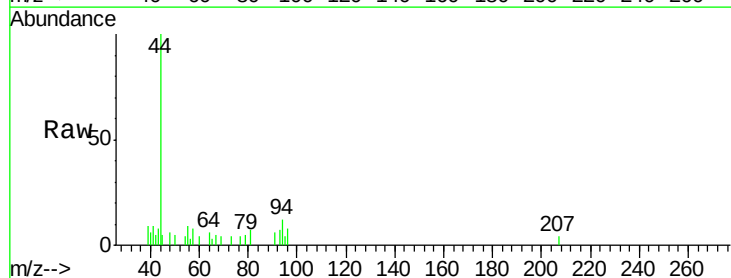
Acq: 19 Jun 2018 02:43

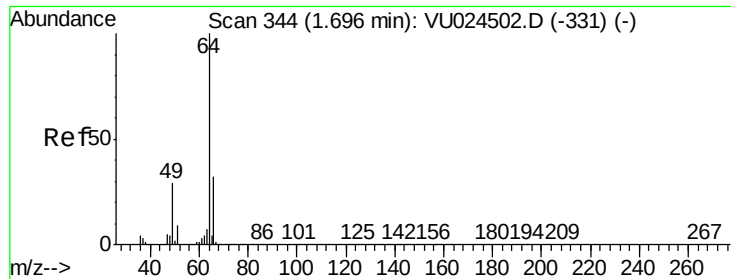
Tgt Ion: 94 Resp: 600

Ion Ratio Lower Upper

94 100

96 40.8 74.5 111.7#





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 346

Delta R.T. 0.01 min

Lab File: VU024717.D

Acq: 19 Jun 2018 02:43

Instrument :

MSVOA_U

ClientSampleId :

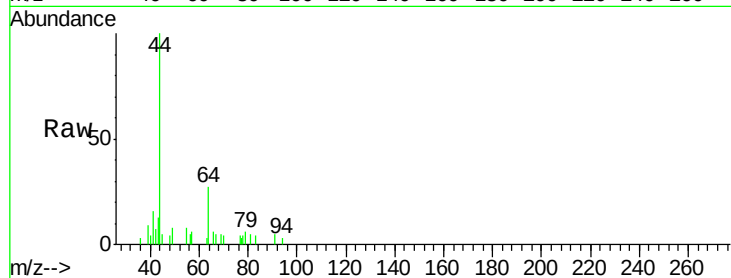
KY070MW233-180613

Tgt Ion: 64 Resp: 704

Ion Ratio Lower Upper

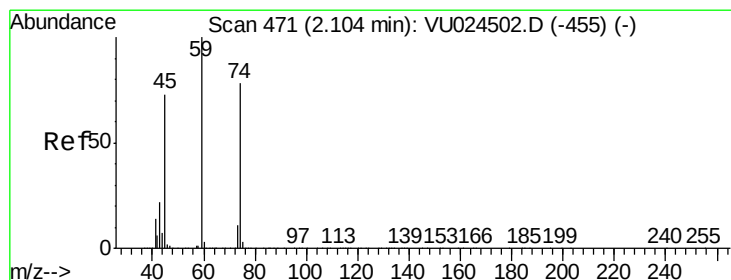
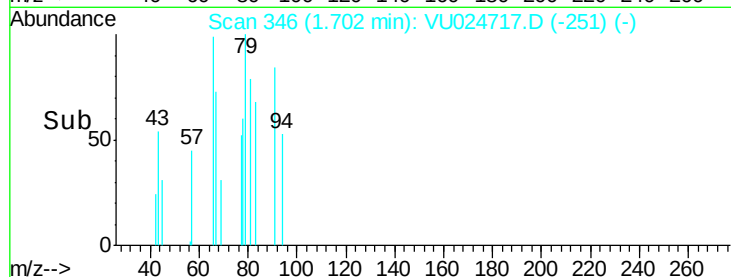
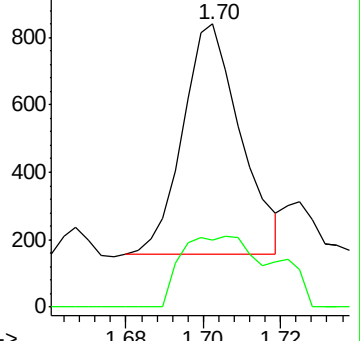
64 100

66 29.1 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: 2.10 min Scan# 470

Delta R.T. -0.00 min

Lab File: VU024717.D

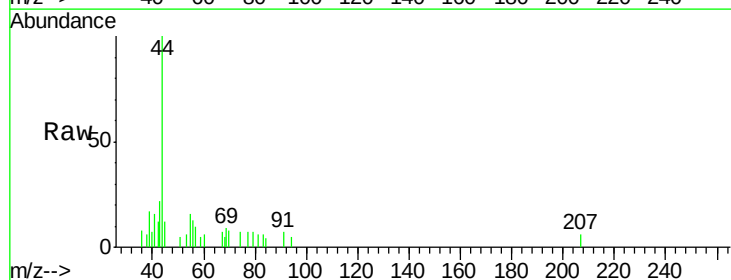
Acq: 19 Jun 2018 02:43

Tgt Ion: 74 Resp: 86

Ion Ratio Lower Upper

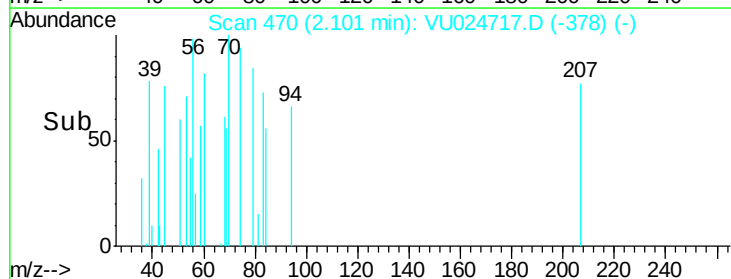
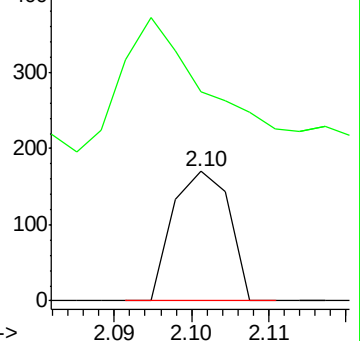
74 100

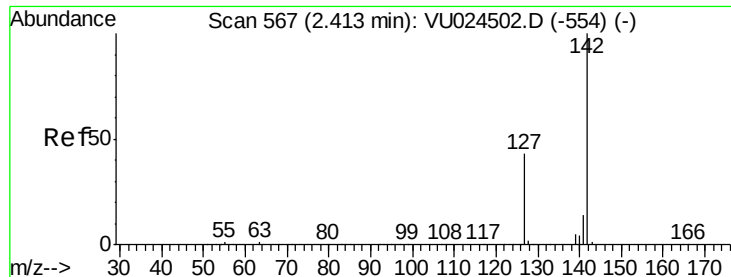
45 202.3 55.0 165.0#



Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0

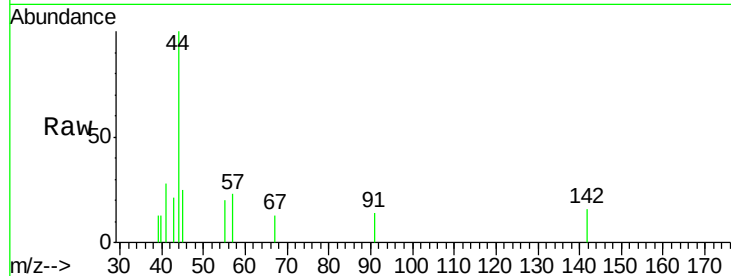




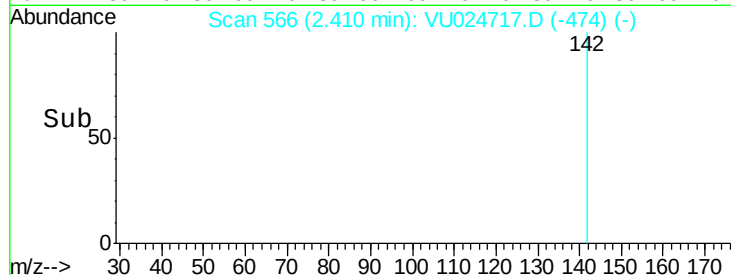
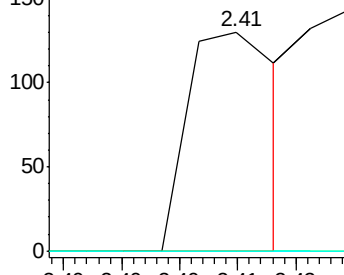
#10
Methyl Iodide
Concen: 5.320 ug/l
RT: 2.41 min Scan# 566
Delta R.T. -0.00 min
Lab File: VU024717.D
Acq: 19 Jun 2018 02:43

Instrument :
MSVOA_U
ClientSampleId :
KY070MW233-180613

Tgt Ion:142 Resp: 71
Ion Ratio Lower Upper
142 100
127 0.0 35.6 53.4#
141 0.0 11.7 17.5#

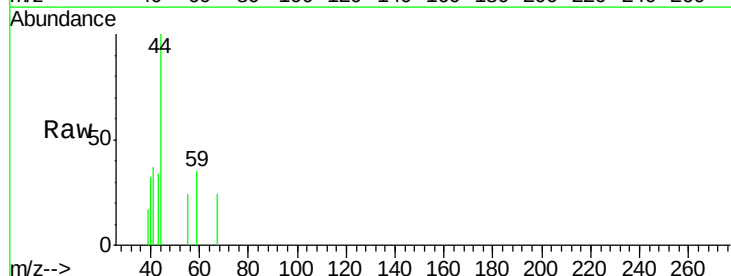
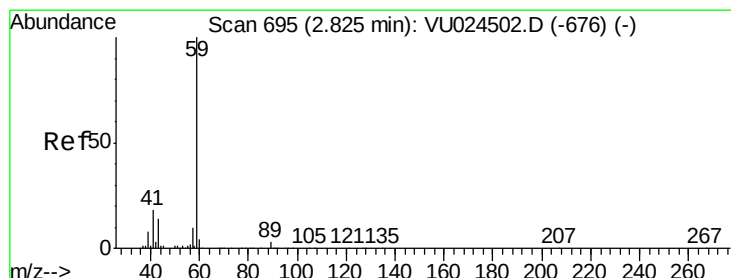


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

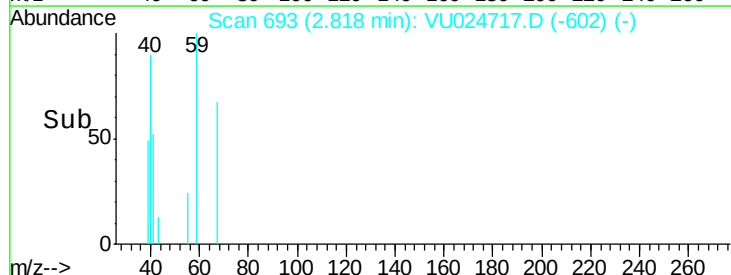
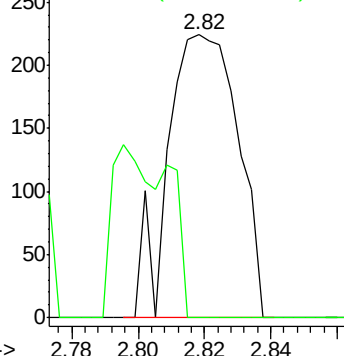


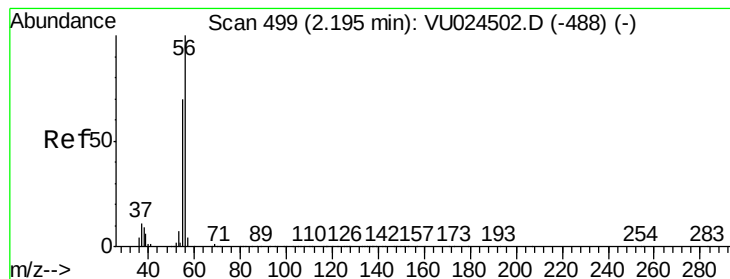
#11
Tert butyl alcohol
Concen: 0.440 ug/l
RT: 2.82 min Scan# 693
Delta R.T. -0.01 min
Lab File: VU024717.D
Acq: 19 Jun 2018 02:43

Tgt Ion: 59 Resp: 330
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



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





#13

Acrolein

Concen: 0.228 ug/l

RT: 2.20 min Scan# 500

Delta R.T. 0.00 min

Lab File: VU024717.D

Acq: 19 Jun 2018 02:43

Instrument :

MSVOA_U

ClientSampleId :

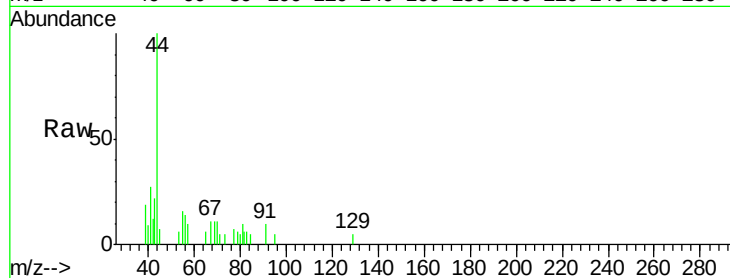
KY070MW233-180613

Tgt Ion: 56 Resp: 90

Ion Ratio Lower Upper

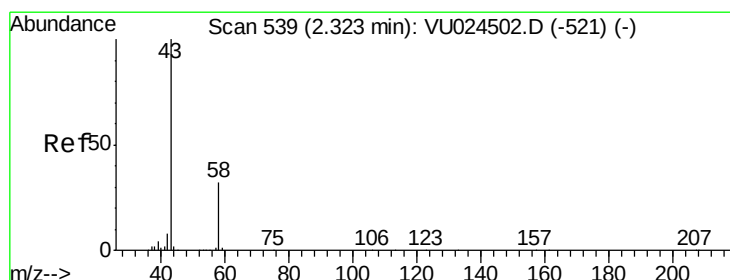
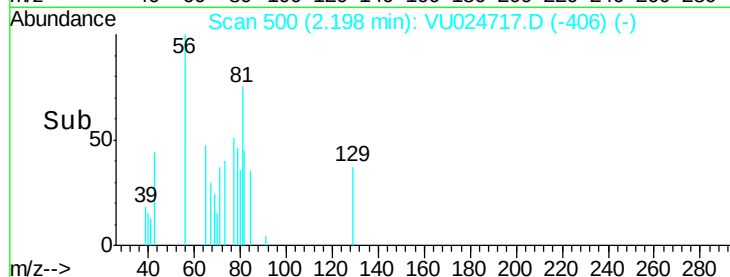
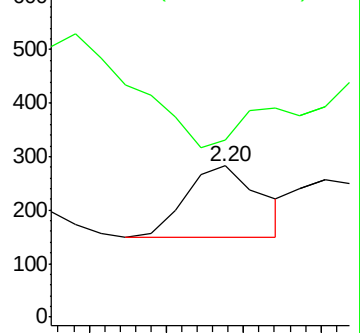
56 100

55 0.0 58.4 87.6#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



#16

Acetone

Concen: 1.813 ug/l

RT: 2.32 min Scan# 537

Delta R.T. -0.01 min

Lab File: VU024717.D

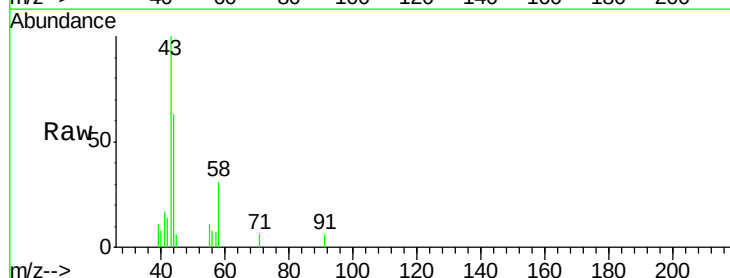
Acq: 19 Jun 2018 02:43

Tgt Ion: 43 Resp: 3006

Ion Ratio Lower Upper

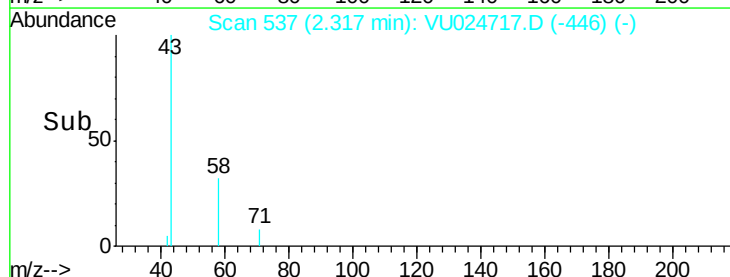
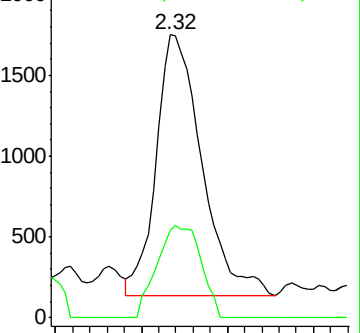
43 100

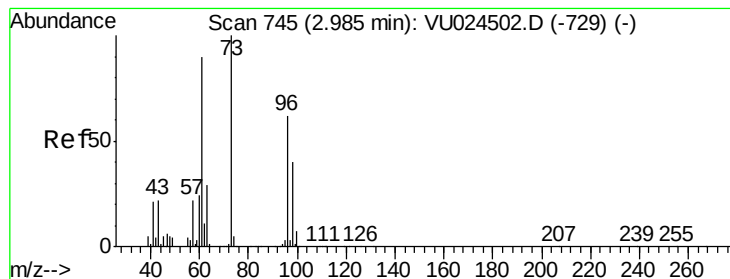
58 33.7 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0





#21

trans-1,2-Dichloroethene

Concen: 2.553 ug/l

RT: 2.99 min Scan# 746

Delta R.T. 0.00 min

Lab File: VU024717.D

Acq: 19 Jun 2018 02:43

Instrument :

MSVOA_U

ClientSampleId :

KY070MW233-180613

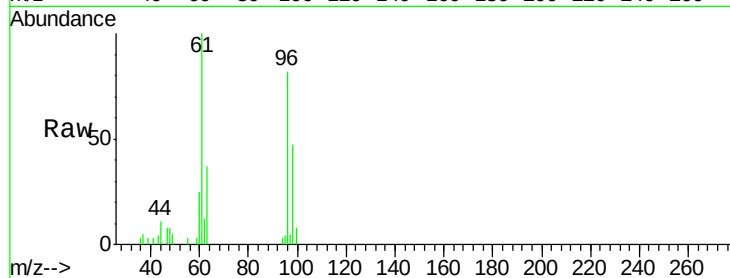
Tgt Ion: 96 Resp: 6052

Ion Ratio Lower Upper

96 100

61 122.4 119.4 179.0

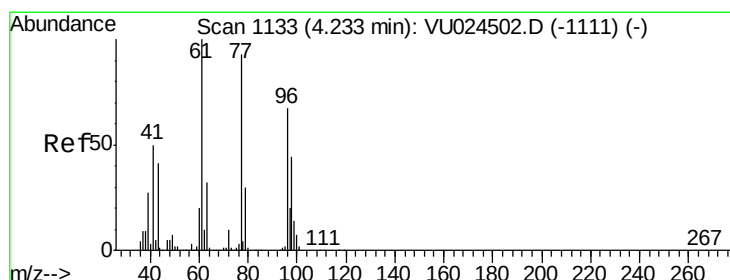
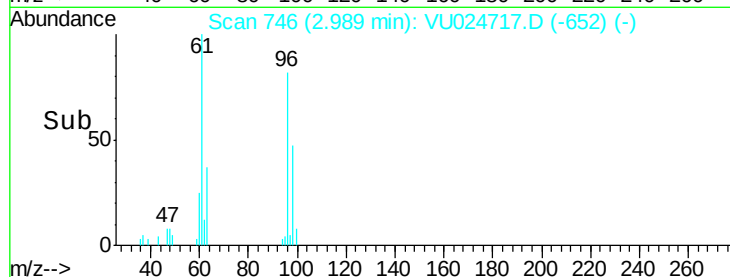
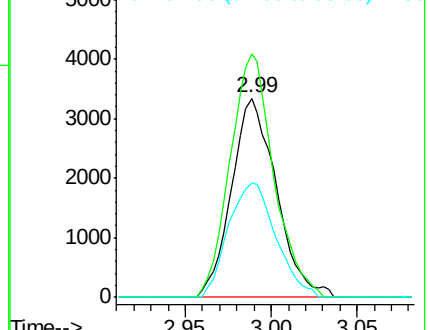
98 57.4 51.1 76.7



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



#27

cis-1,2-Dichloroethene

Concen: 0.342 ug/l

RT: 4.23 min Scan# 1131

Delta R.T. -0.01 min

Lab File: VU024717.D

Acq: 19 Jun 2018 02:43

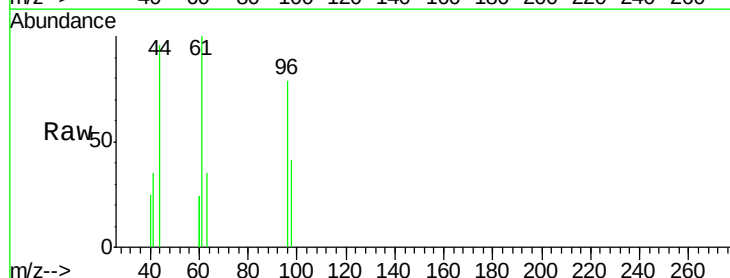
Tgt Ion: 96 Resp: 933

Ion Ratio Lower Upper

96 100

61 130.5 0.0 306.6

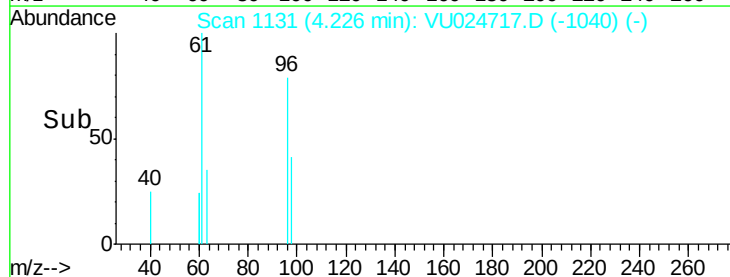
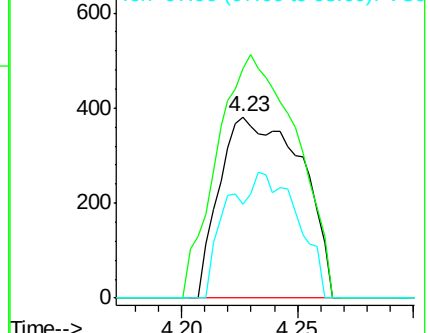
98 59.7 0.0 128.8

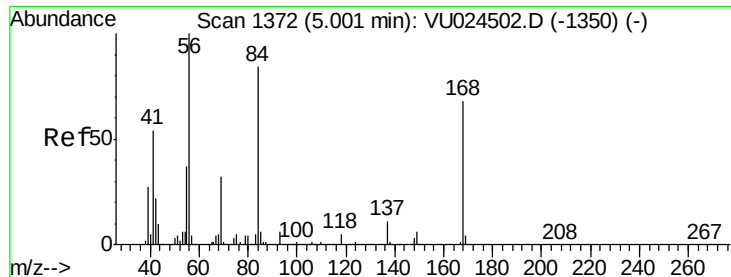


Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

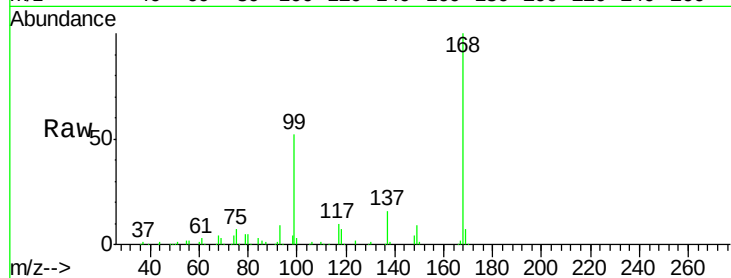




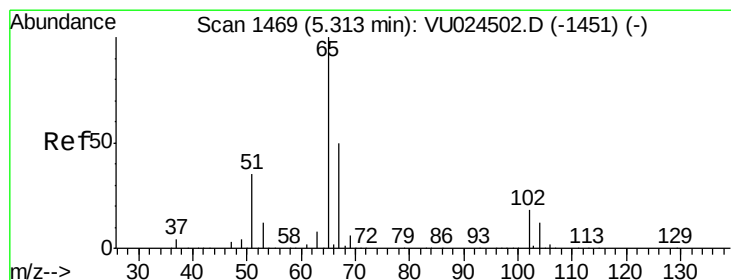
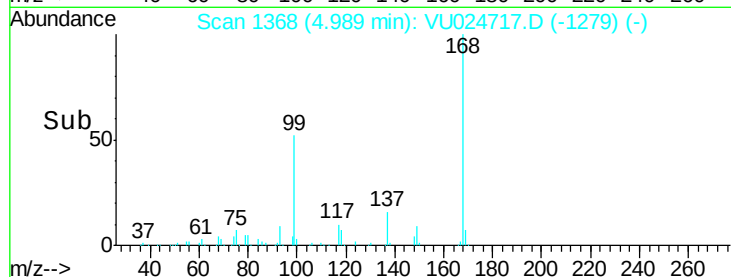
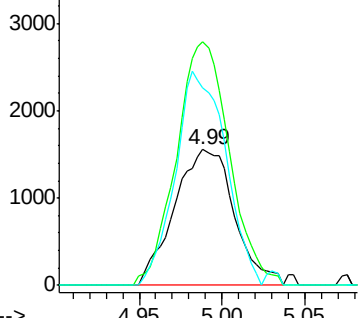
#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1368
Delta R.T. -0.01 min
Lab File: VU024717.D
Acq: 19 Jun 2018 02:43

Instrument :
MSVOA_U
ClientSampleId :
KY070MW233-180613

Tgt Ion: 56 Resp: 3928
Ion Ratio Lower Upper
56 100
69 179.3 24.8 37.2#
84 145.3 65.2 97.8#

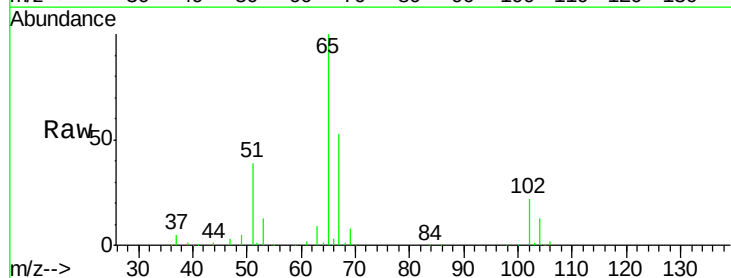


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

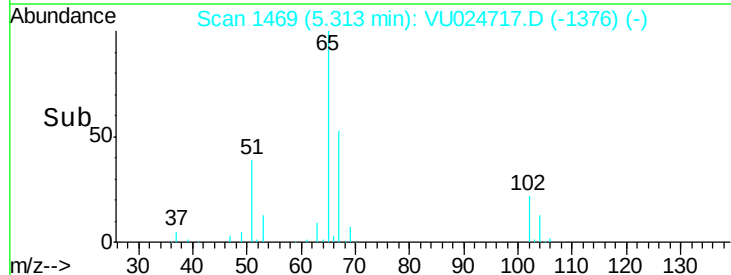
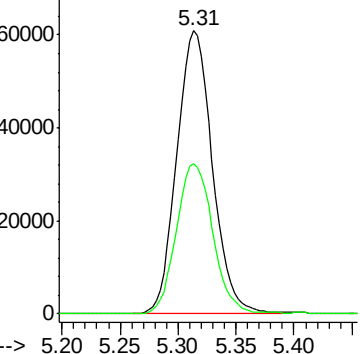


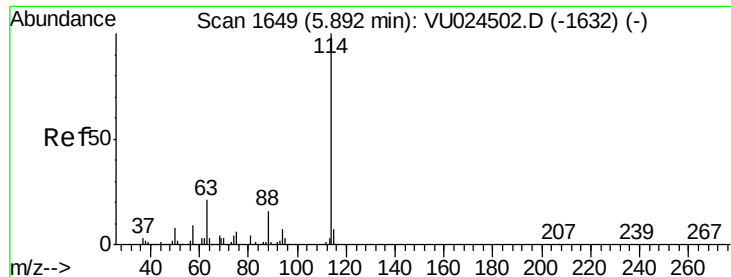
#33
1,2-Dichloroethane-d4
Concen: 42.091 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VU024717.D
Acq: 19 Jun 2018 02:43

Tgt Ion: 65 Resp: 129866
Ion Ratio Lower Upper
65 100
67 54.5 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: VU024717.D

Acq: 19 Jun 2018 02:43

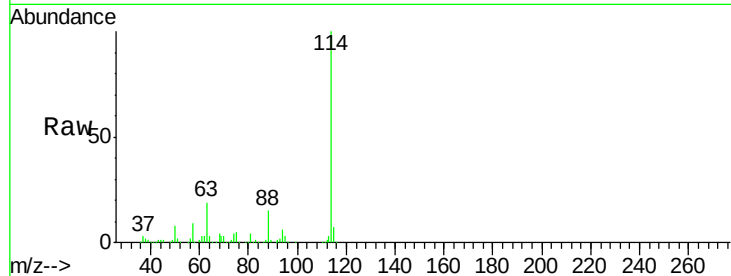
Instrument :

MSVOA_U

ClientSampleId :

KY070MW233-180613

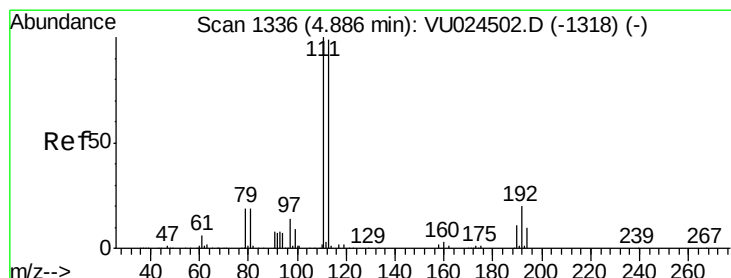
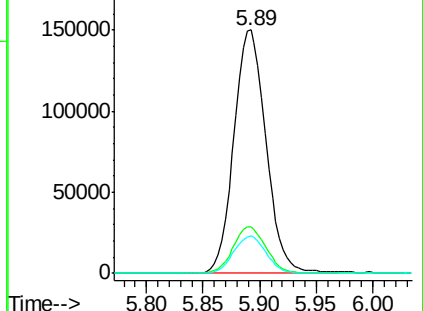
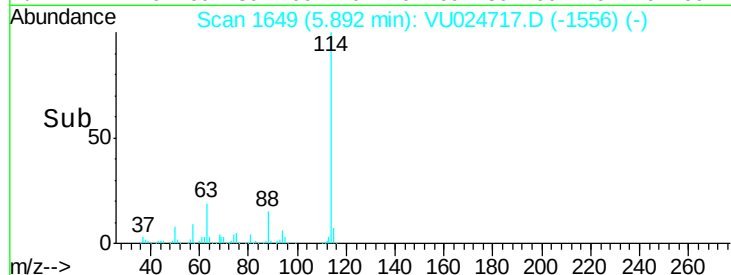
Tgt Ion:	114	Resp:	297027
Ion	Ratio	Lower	Upper
114	100		
63	19.3	0.0	45.4
88	15.4	0.0	31.0



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: 46.870 ug/l

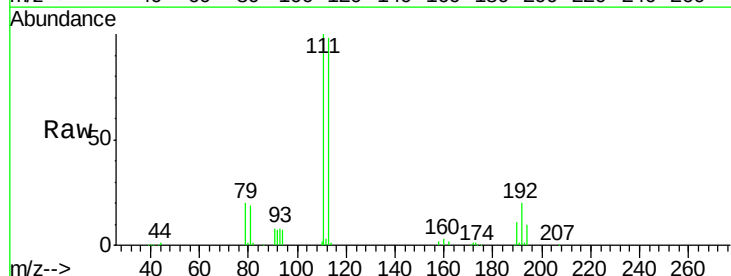
RT: 4.89 min Scan# 1336

Delta R.T. -0.00 min

Lab File: VU024717.D

Acq: 19 Jun 2018 02:43

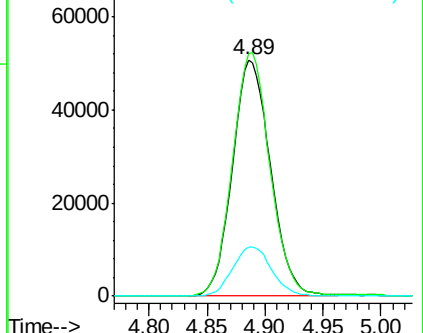
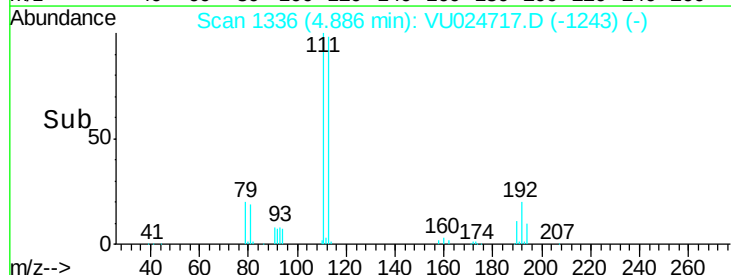
Tgt Ion:	113	Resp:	115538
Ion	Ratio	Lower	Upper
113	100		
111	101.5	82.2	123.4
192	21.4	16.2	24.4

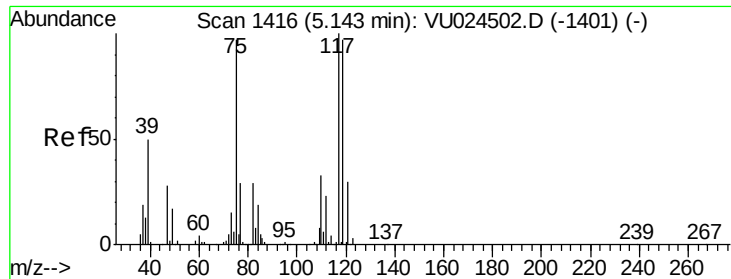


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

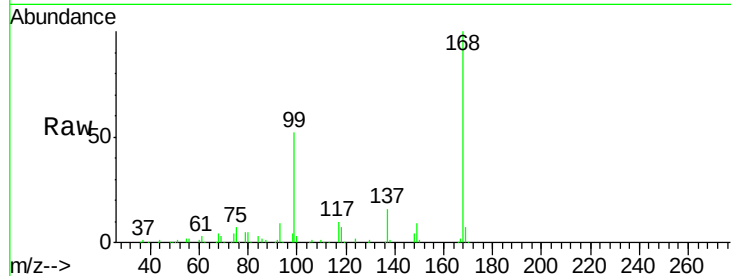




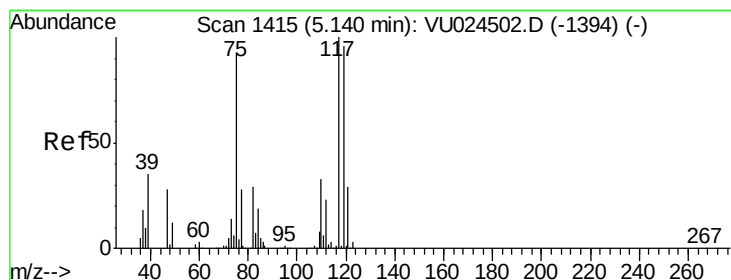
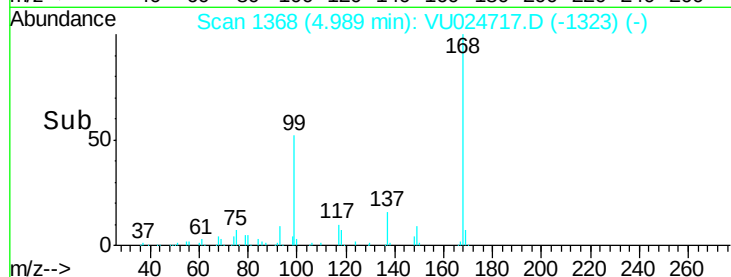
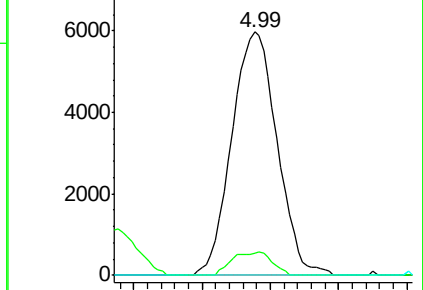
#36
 1,1-Dichloropropene
 Concen: 3.945 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU024717.D
 Acq: 19 Jun 2018 02:43

Instrument :
 MSVOA_U
 ClientSampleId :
 KY070MW233-180613

Tgt Ion	Ratio	Lower	Upper
75	100		
110	4.3	17.0	50.9#
77	0.0	24.2	36.4#

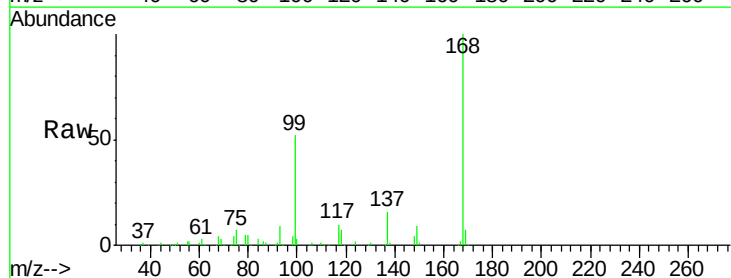


Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VU0

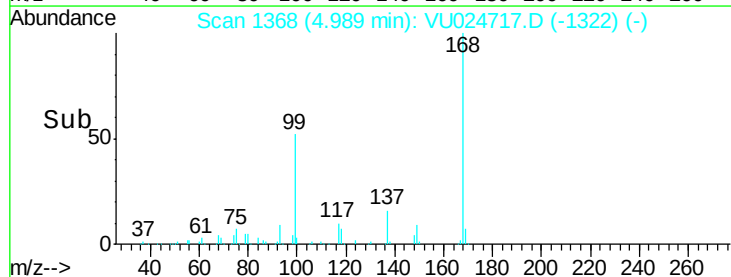
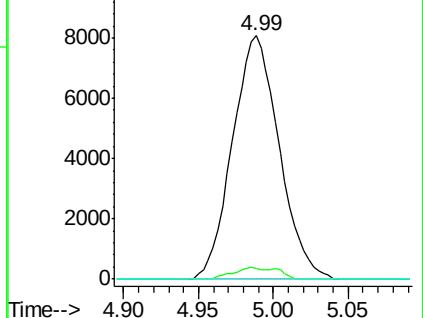


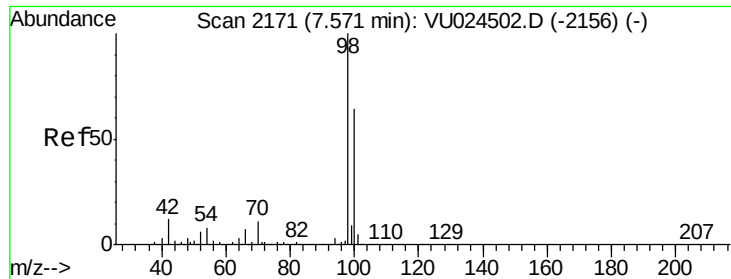
#38
 Carbon Tetrachloride
 Concen: 4.566 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU024717.D
 Acq: 19 Jun 2018 02:43

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.4	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

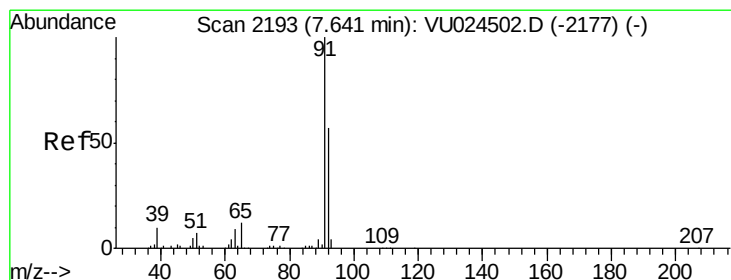
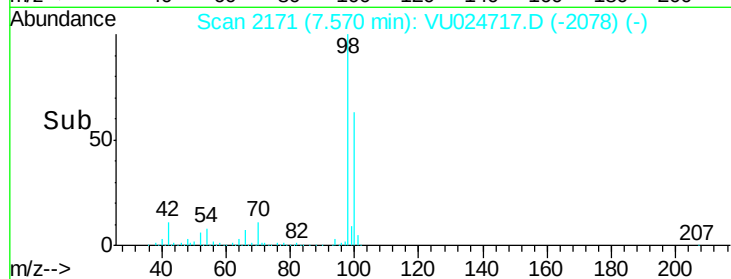
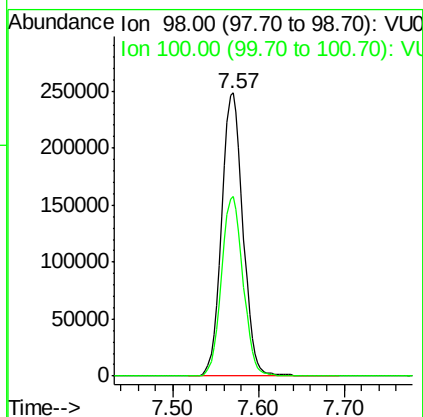
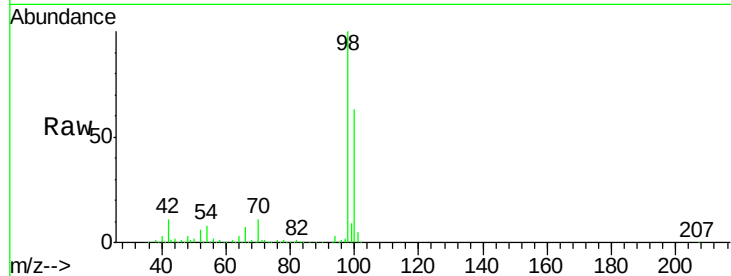




#50
Toluene-d8
Concen: 47.754 ug/l
RT: 7.57 min Scan# 2171
Delta R.T. -0.00 min
Lab File: VU024717.D
Acq: 19 Jun 2018 02:43

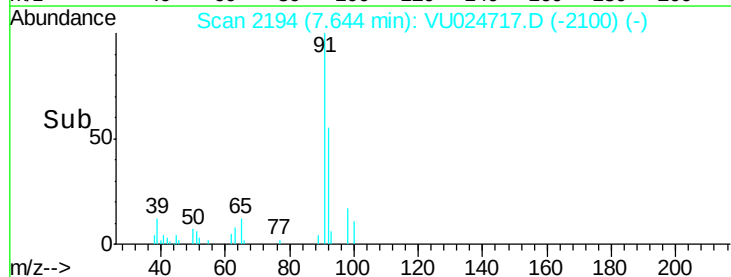
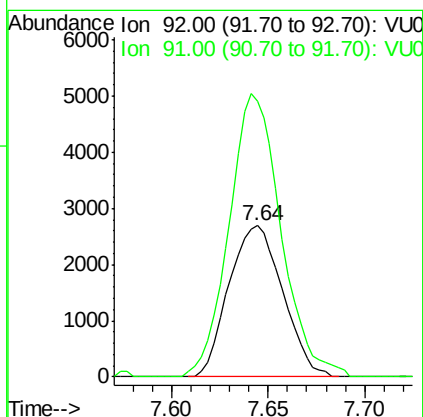
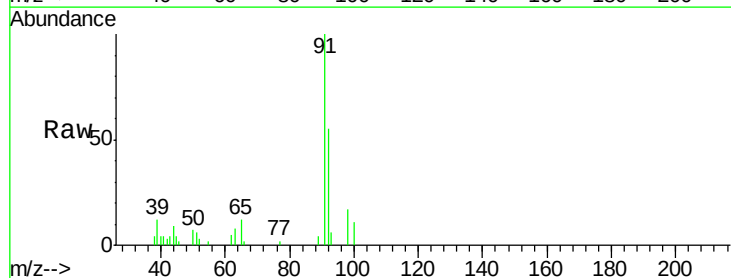
Instrument :
MSVOA_U
ClientSampleId :
KY070MW233-180613

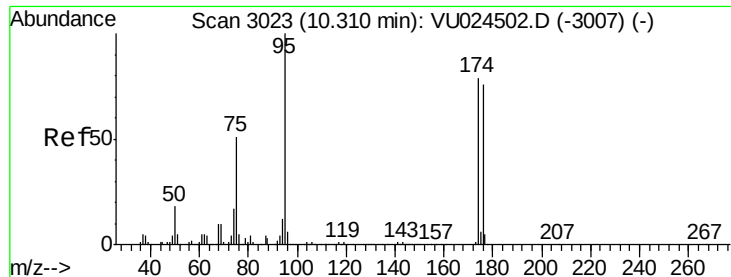
Tgt Ion: 98 Resp: 429385
Ion Ratio Lower Upper
98 100
100 64.1 51.1 76.7



#52
Toluene
Concen: 0.815 ug/l
RT: 7.64 min Scan# 2194
Delta R.T. 0.00 min
Lab File: VU024717.D
Acq: 19 Jun 2018 02:43

Tgt Ion: 92 Resp: 5212
Ion Ratio Lower Upper
92 100
91 180.3 140.5 210.7

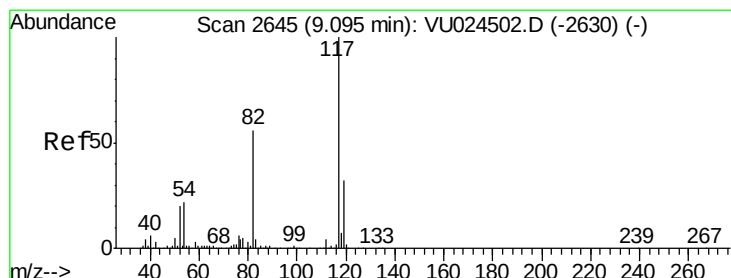
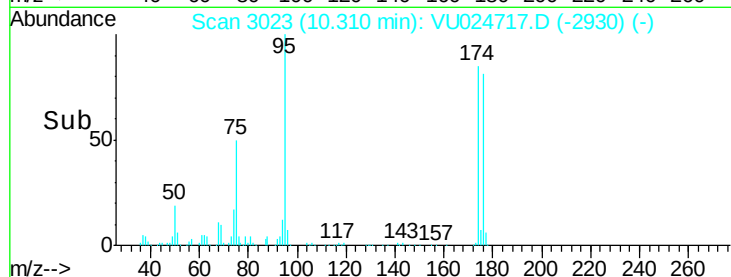
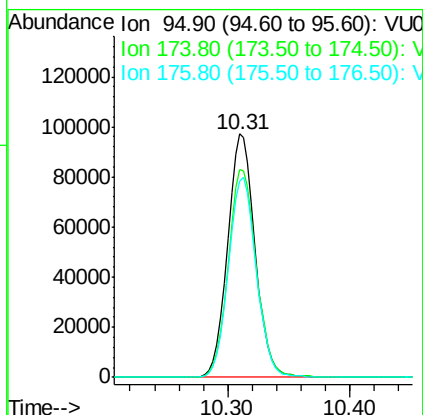
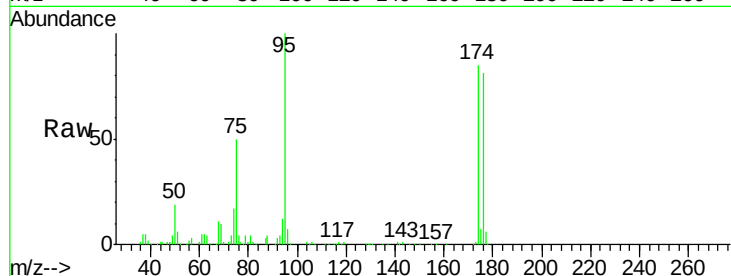




#62
4-Bromofluorobenzene
Concen: 42.887 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.00 min
Lab File: VU024717.D
Acq: 19 Jun 2018 02:43

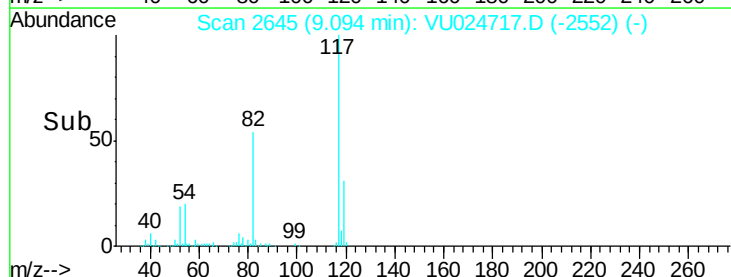
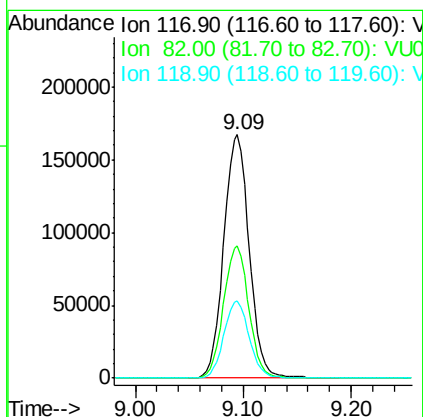
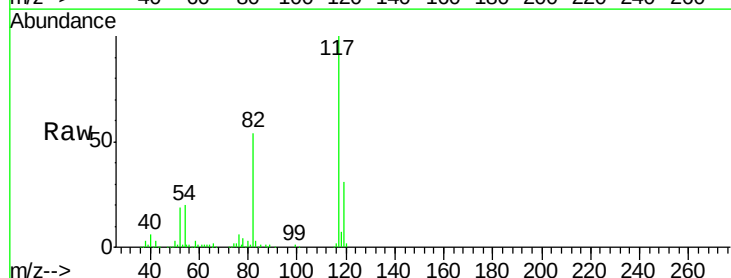
Instrument :
MSVOA_U
ClientSampleId :
KY070MW233-180613

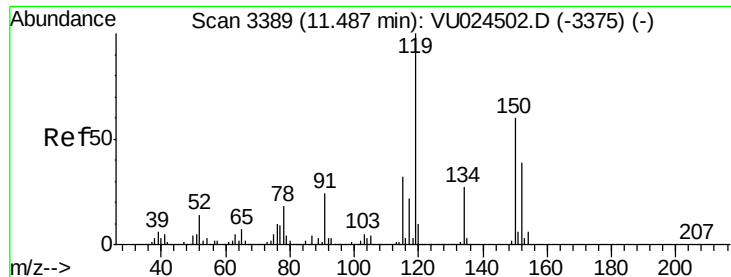
Tgt Ion: 95 Resp: 153110
Ion Ratio Lower Upper
95 100
174 87.5 0.0 165.8
176 83.1 0.0 159.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VU024717.D
Acq: 19 Jun 2018 02:43

Tgt Ion: 117 Resp: 274486
Ion Ratio Lower Upper
117 100
82 54.2 44.3 66.5
119 31.5 25.4 38.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VU024717.D

Acq: 19 Jun 2018 02:43

Instrument :

MSVOA_U

ClientSampleId :

KY070MW233-180613

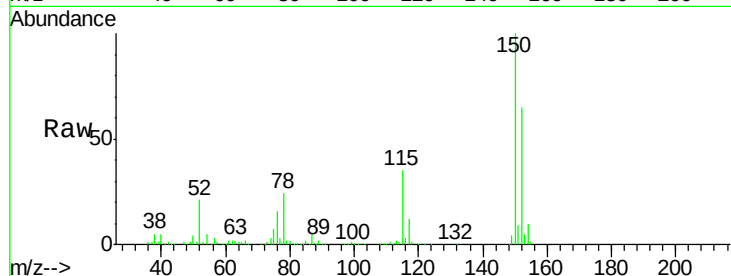
Tgt Ion:152 Resp: 147479

Ion Ratio Lower Upper

152 100

115 54.6 43.0 129.0

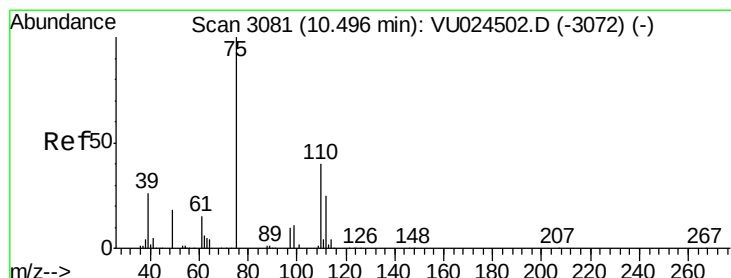
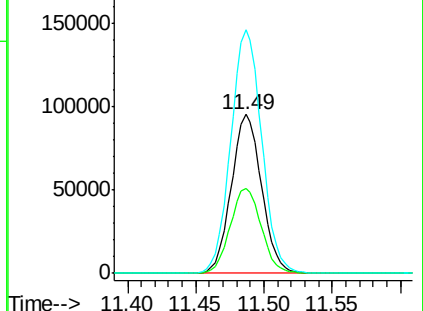
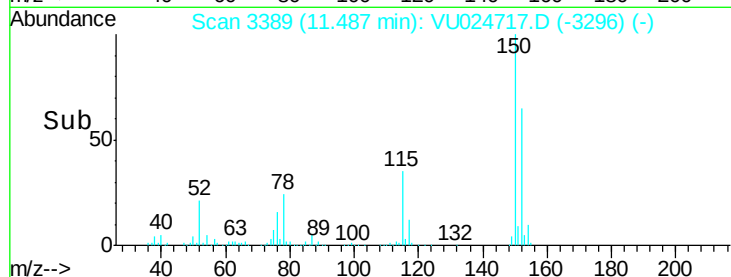
150 156.1 0.0 354.0



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: 23.519 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024717.D

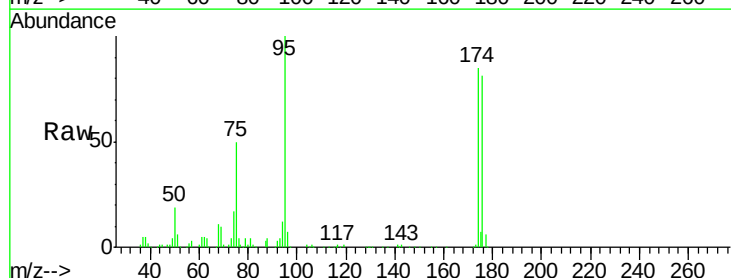
Acq: 19 Jun 2018 02:43

Tgt Ion: 75 Resp: 76365

Ion Ratio Lower Upper

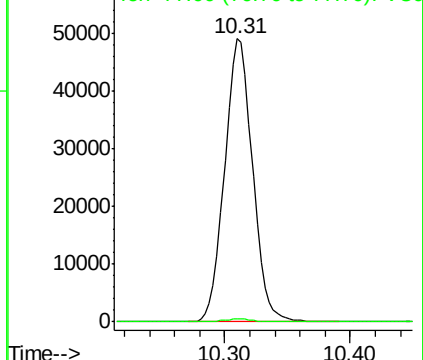
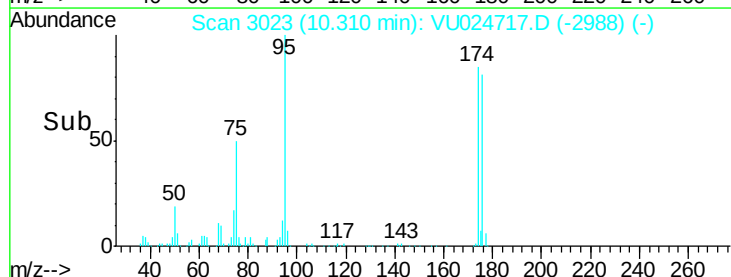
75 100

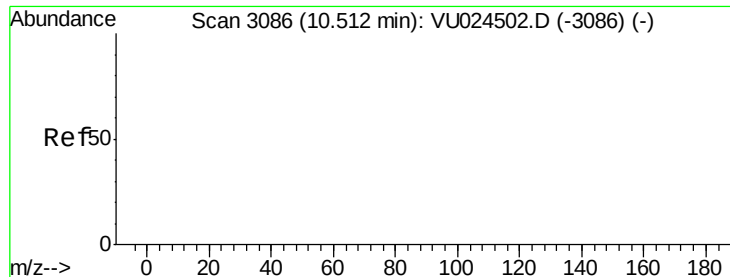
77 0.9 20.9 62.7#



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: 54.433 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024717.D

Acq: 19 Jun 2018 02:43

Instrument :

MSVOA_U

ClientSampleId :

KY070MW233-180613

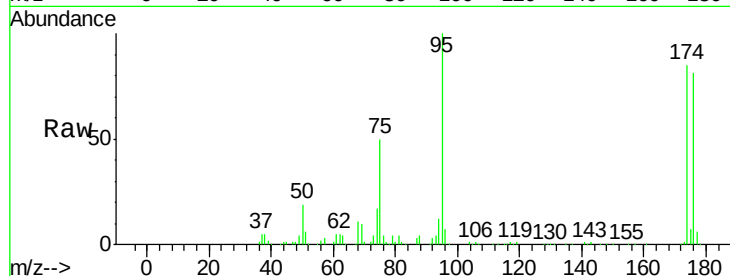
Tgt Ion: 75 Resp: 76365

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

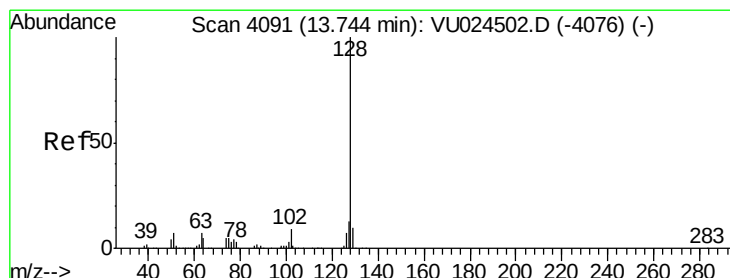
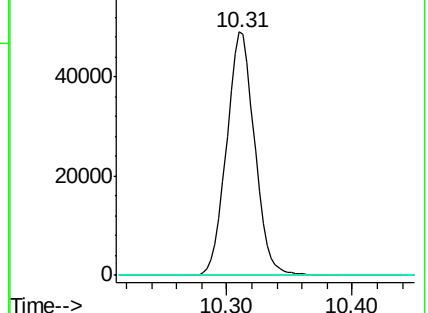
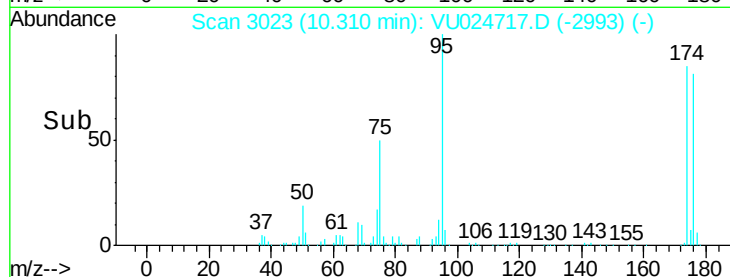
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU024717.D (-2993) (-)

Ion 53.00 (52.70 to 53.70): VU024717.D (-2993) (-)

Ion 88.90 (88.60 to 89.60): VU024717.D (-2993) (-)



#95

Naphthalene

Concen: 0.707 ug/l

RT: 13.76 min Scan# 4095

Delta R.T. 0.01 min

Lab File: VU024717.D

Acq: 19 Jun 2018 02:43

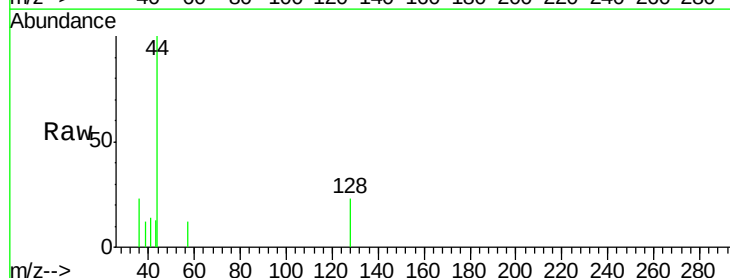
Tgt Ion: 128 Resp: 309

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VU024717.D (-3997) (-)

Ion 127.00 (126.70 to 127.70): VU024717.D (-3997) (-)

Ion 129.00 (128.70 to 129.70): VU024717.D (-3997) (-)

