

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX040818\
 Data File : VX000730.D
 Acq On : 08 Apr 2018 14:48
 Operator : JC/MD
 Sample : J2190-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-17-040218

Quant Time: Apr 09 06:41:05 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X040718W.M
 Quant Title : SW846 8260
 QLast Update : Sat Apr 07 17:01:21 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	322238	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	451762	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	419914	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	247859	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.08	65	164656	44.68	ug/l	0.00
Spiked Amount 50.000			Recovery =	89.36%		
35) Dibromofluoromethane	5.51	113	138383	47.39	ug/l	0.00
Spiked Amount 50.000			Recovery =	94.78%		
50) Toluene-d8	8.72	98	521225	47.10	ug/l	0.00
Spiked Amount 50.000			Recovery =	94.20%		
62) 4-Bromofluorobenzene	11.15	95	212475	46.23	ug/l	0.00
Spiked Amount 50.000			Recovery =	92.46%		

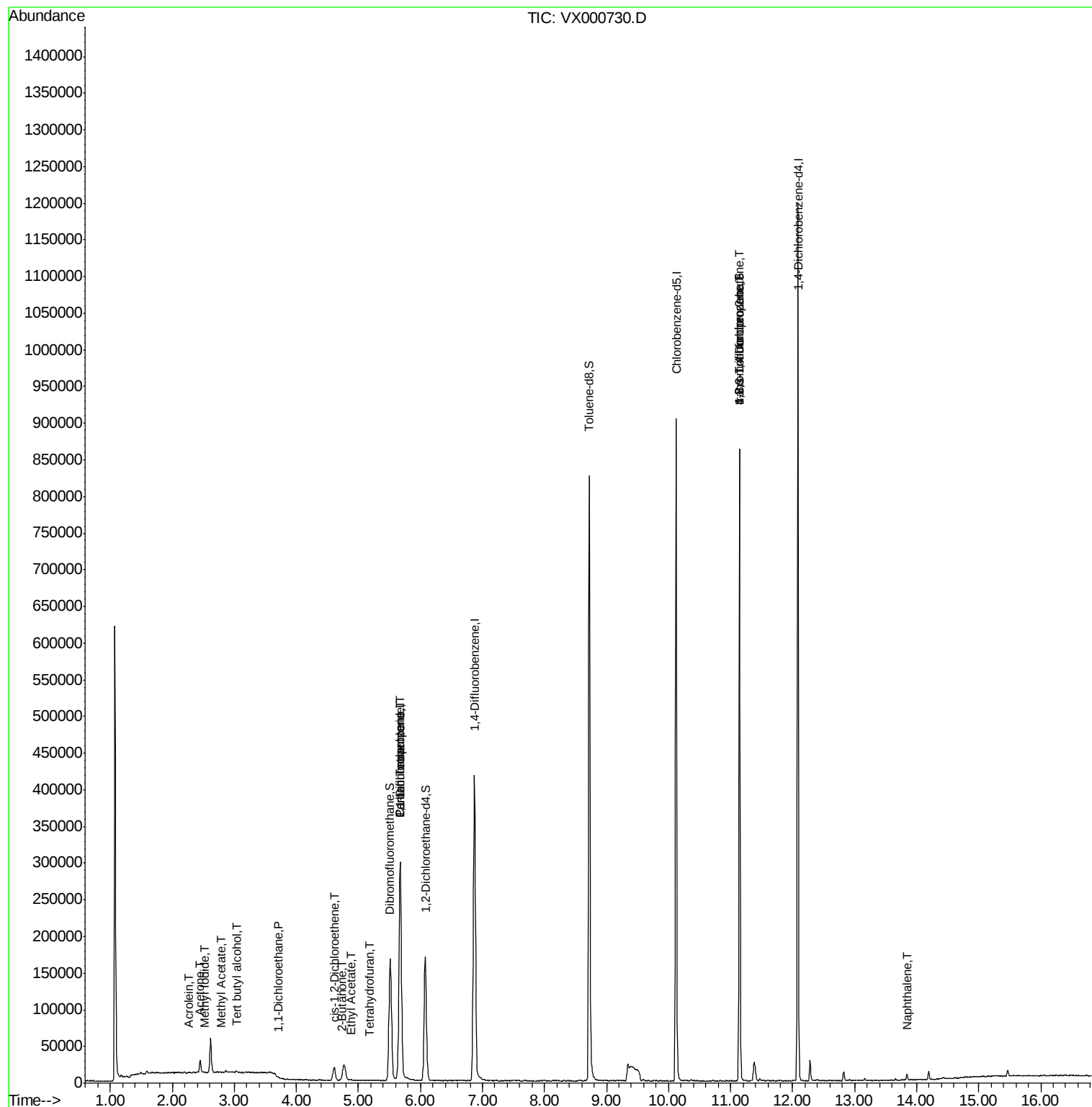
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	404	Below Cal	#	40
5) Bromomethane	1.65	94	238	Below Cal	#	14
8) Diethyl Ether	2.03	74	99	Below Cal		56
10) Methyl Iodide	2.52	142	362	5.48	ug/l	57
11) Tert butyl alcohol	3.03	59	1485	2.37	ug/l	75
13) Acrolein	2.26	56	243	0.89	ug/l	90
16) Acetone	2.45	43	18602	16.09	ug/l	96
17) Carbon Disulfide	2.57	76	538	Below Cal	#	69
18) Methyl Acetate	2.79	43	794	0.23	ug/l	88
20) Methylene Chloride	2.87	84	1486	Below Cal	#	90
24) 1,1-Dichloroethane	3.71	63	1149	0.25	ug/l	48
25) 2-Butanone	4.73	43	680	0.34	ug/l	72
27) cis-1,2-Dichloroethene	4.61	96	11867	3.84	ug/l	83
28) Bromochloromethane	4.79	49	20	Below Cal	#	9
29) Tetrahydrofuran	5.18	42	269	0.21	ug/l	56
31) Cyclohexane	5.59	56	1442	Below Cal	#	85
36) 1,1-Dichloropropene	5.67	75	19386	5.01	ug/l	51
37) Ethyl Acetate	4.88	43	1544	0.37	ug/l	77
38) Carbon Tetrachloride	5.67	117	27877	6.15	ug/l	16
39) Methylcyclohexane	7.48	83	199	Below Cal	#	19
76) 1,2,3-Trichloropropane	11.15	75	104896	24.87	ug/l	35
81) trans-1,4-Dichloro-2-buten	11.15	75	104896	64.76	ug/l	11
95) Naphthalene	13.84	128	4442	0.26	ug/l	96

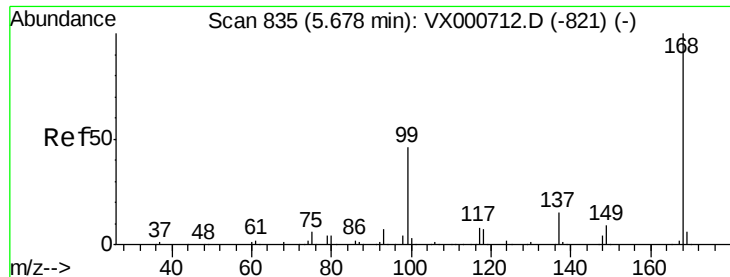
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.01 min

Lab File: VX000730.D

Acq: 08 Apr 2018 14:48

Instrument :

MSVOA_X

ClientSampleId :

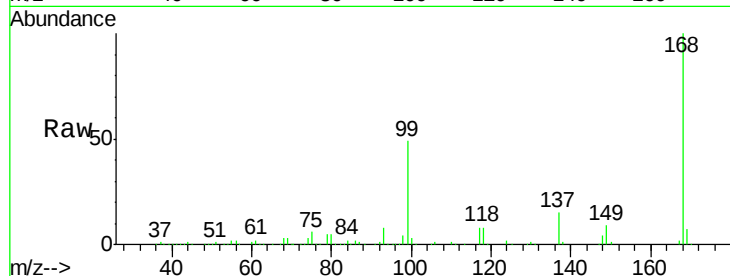
MW-17-040218

Tgt Ion:168 Resp: 322238

Ion Ratio Lower Upper

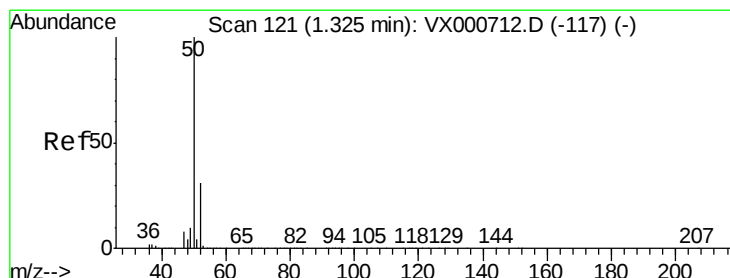
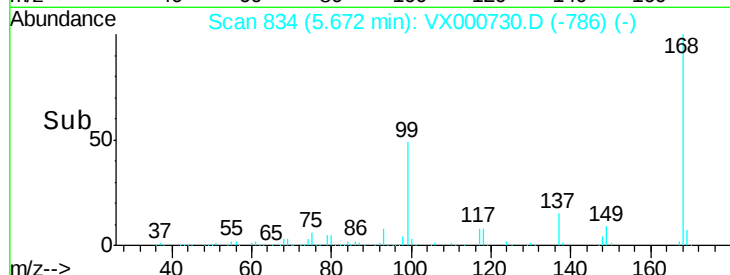
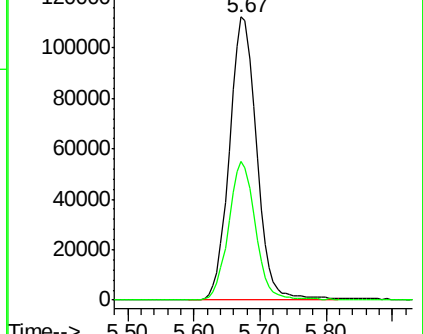
168 100

99 48.8 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX000730.D

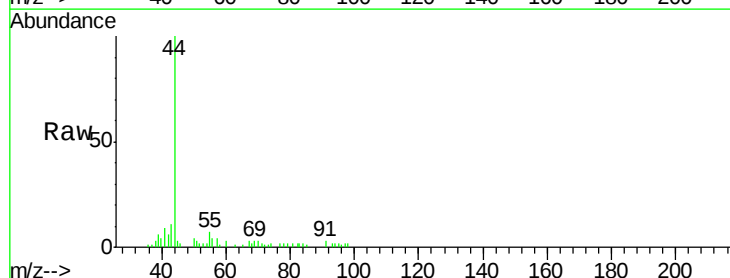
Acq: 08 Apr 2018 14:48

Tgt Ion: 50 Resp: 404

Ion Ratio Lower Upper

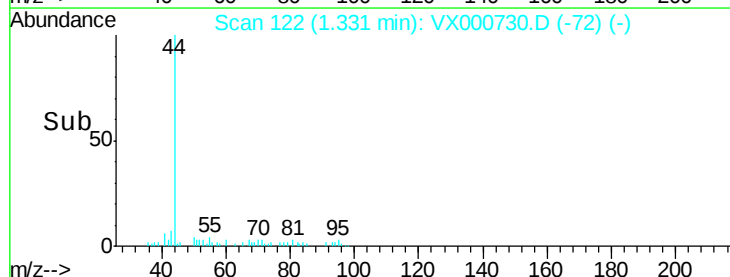
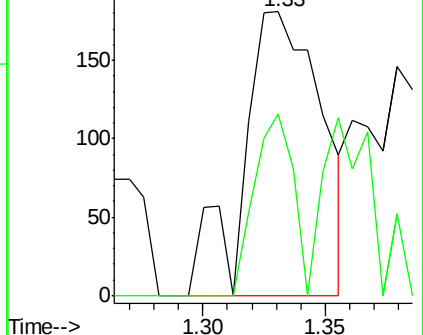
50 100

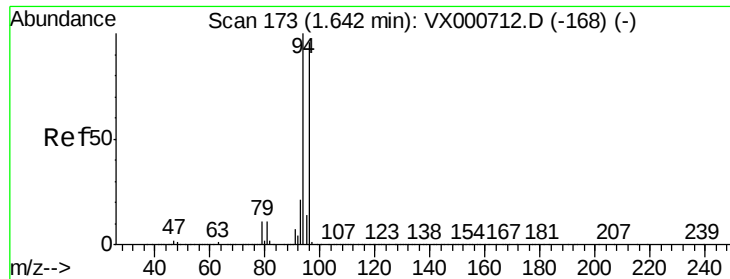
52 64.1 24.9 37.3#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX000730.D

Acq: 08 Apr 2018 14:48

Instrument :

MSVOA_X

ClientSampleId :

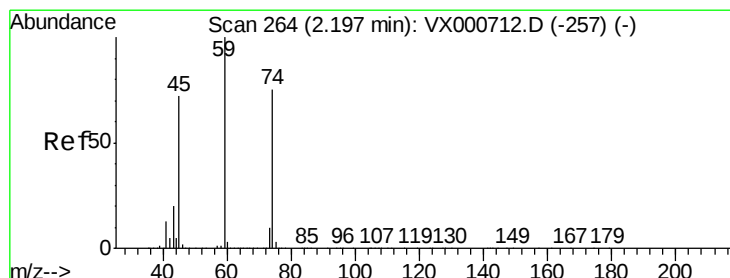
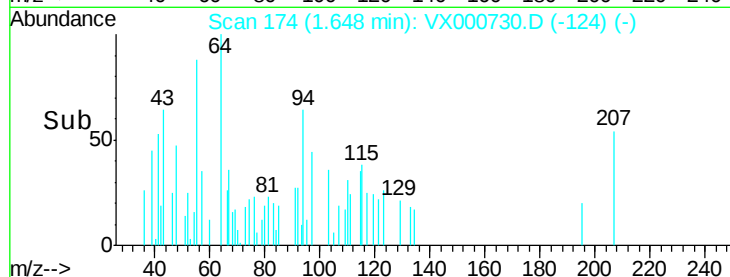
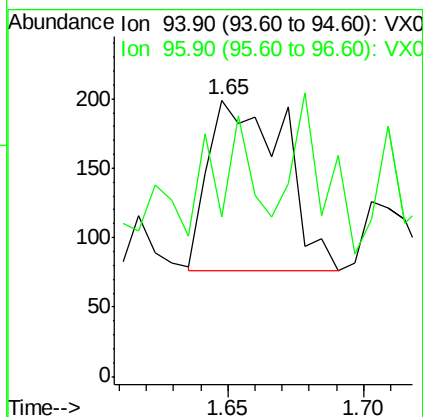
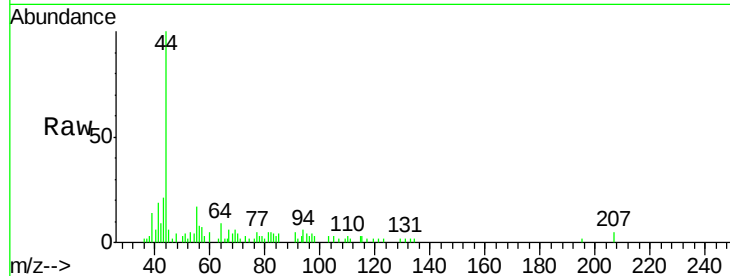
MW-17-040218

Tgt Ion: 94 Resp: 238

Ion Ratio Lower Upper

94 100

96 11.4 76.5 114.7#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.03 min Scan# 237

Delta R.T. -0.16 min

Lab File: VX000730.D

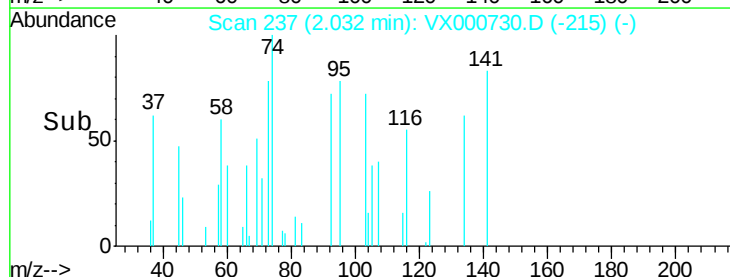
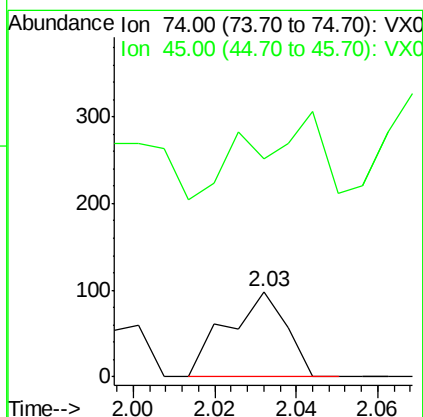
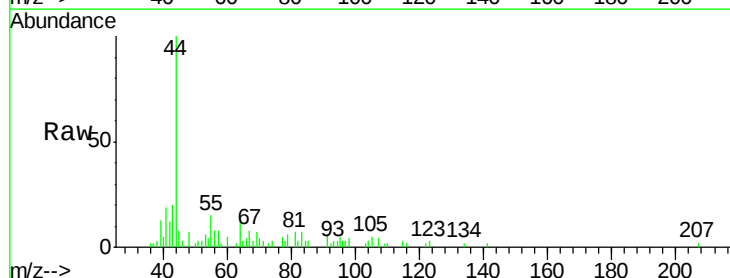
Acq: 08 Apr 2018 14:48

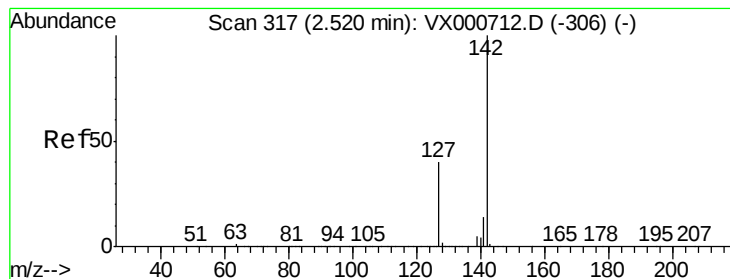
Tgt Ion: 74 Resp: 99

Ion Ratio Lower Upper

74 100

45 140.4 48.4 145.3





#10

Methyl Iodide

Concen: 5.48 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.00 min

Lab File: VX000730.D

Acq: 08 Apr 2018 14:48

Instrument :

MSVOA_X

ClientSampleId :

MW-17-040218

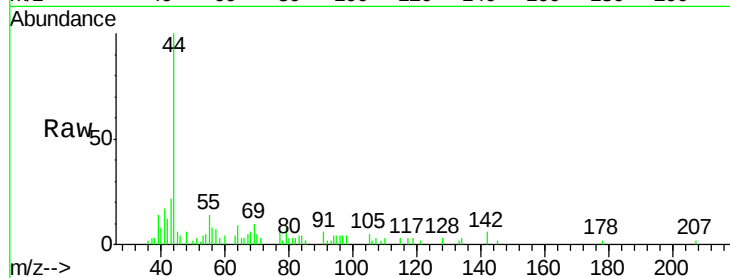
Tgt Ion:142 Resp: 362

Ion Ratio Lower Upper

142 100

127 13.5 33.9 50.9#

141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): V

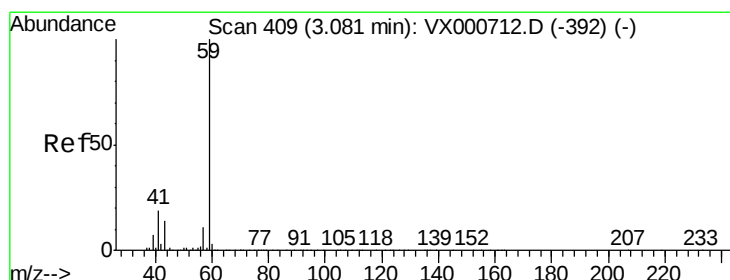
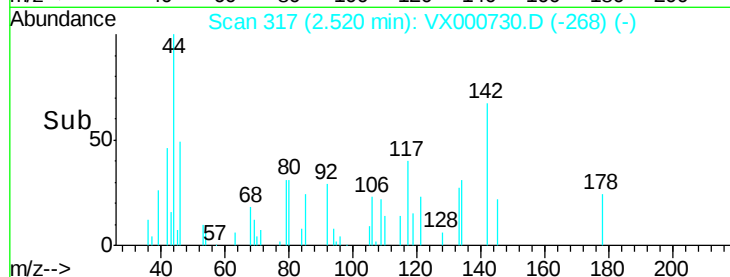
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

Time-->

2.52

2.55



#11

Tert butyl alcohol

Concen: 2.37 ug/l

RT: 3.03 min Scan# 401

Delta R.T. -0.05 min

Lab File: VX000730.D

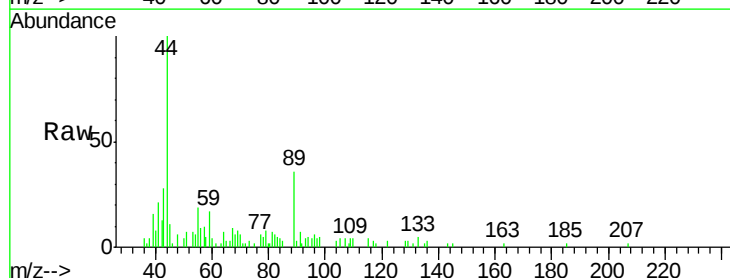
Acq: 08 Apr 2018 14:48

Tgt Ion: 59 Resp: 1485

Ion Ratio Lower Upper

59 100

57 20.0 8.4 12.6#



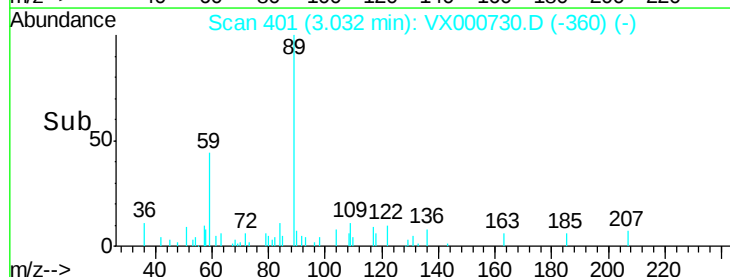
Abundance Ion 59.00 (58.70 to 59.70): VX0

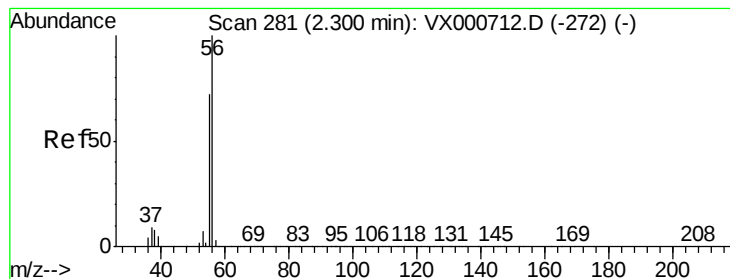
Ion 57.00 (56.70 to 57.70): VX0

Time-->

3.03

3.05





#13

Acrolein

Concen: 0.89 ug/l

RT: 2.26 min Scan# 275

Delta R.T. -0.04 min

Lab File: VX000730.D

Acq: 08 Apr 2018 14:48

Instrument :

MSVOA_X

ClientSampleId :

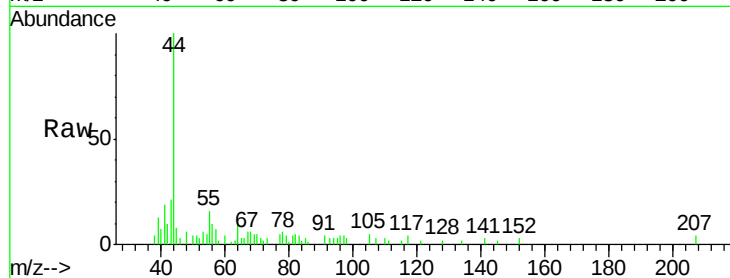
MW-17-040218

Tgt Ion: 56 Resp: 243

Ion Ratio Lower Upper

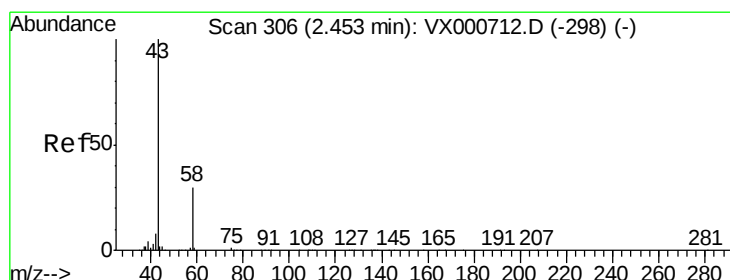
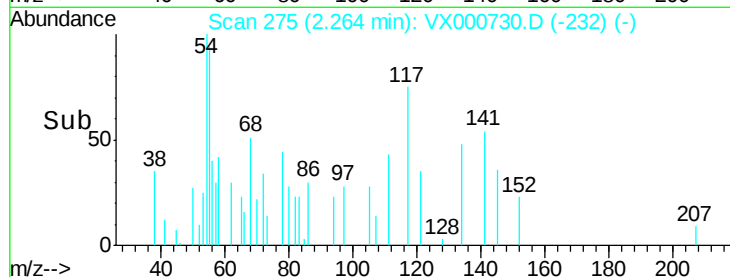
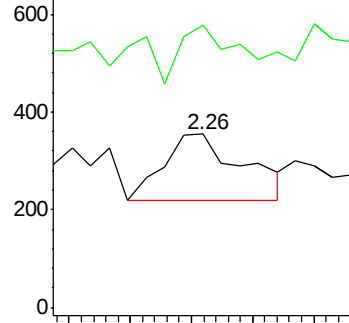
56 100

55 63.8 57.4 86.2



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 16.09 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX000730.D

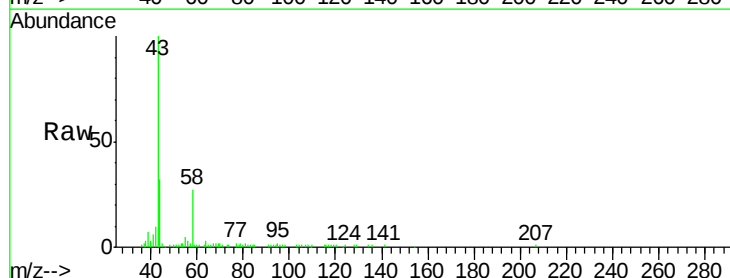
Acq: 08 Apr 2018 14:48

Tgt Ion: 43 Resp: 18602

Ion Ratio Lower Upper

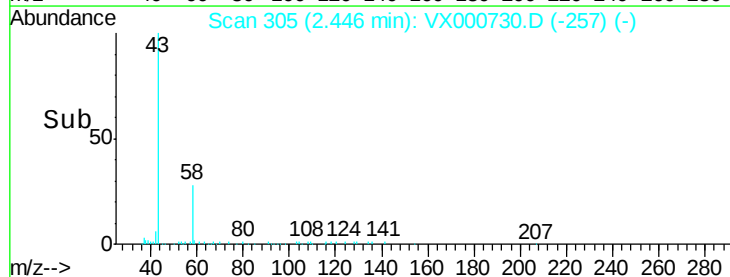
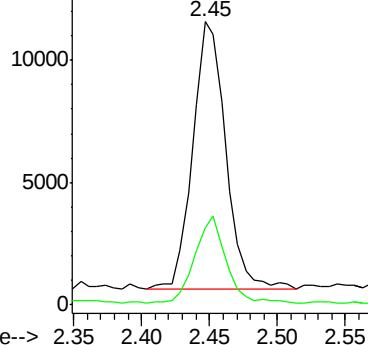
43 100

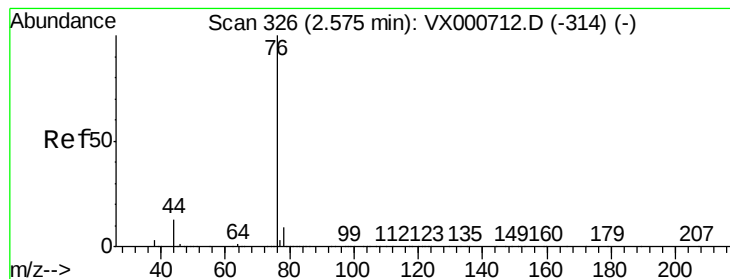
58 28.0 24.0 36.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 326

Delta R.T. 0.00 min

Lab File: VX000730.D

Acq: 08 Apr 2018 14:48

Instrument :

MSVOA_X

ClientSampleId :

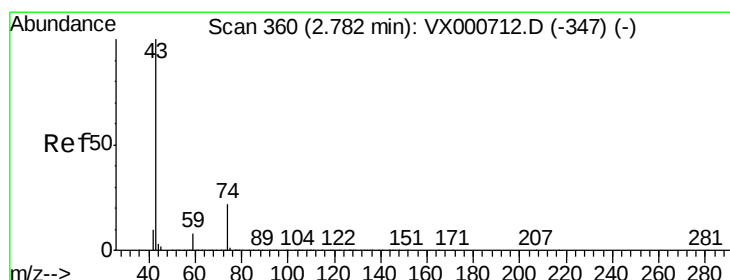
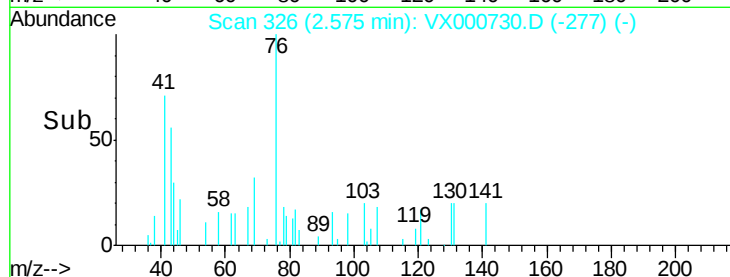
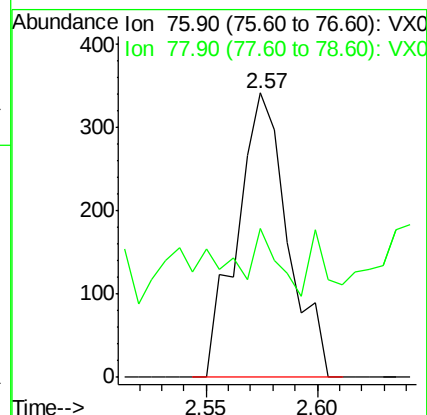
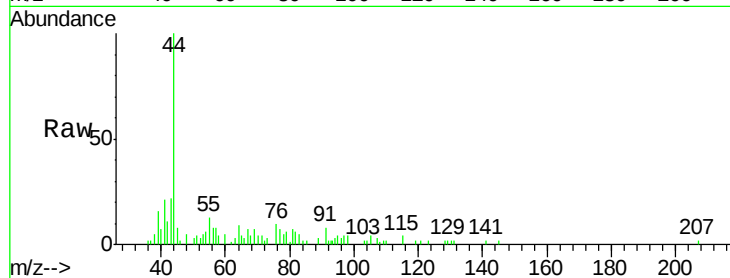
MW-17-040218

Tgt Ion: 76 Resp: 538

Ion Ratio Lower Upper

76 100

78 19.9 7.1 10.7#



#18

Methyl Acetate

Concen: 0.23 ug/l

RT: 2.79 min Scan# 361

Delta R.T. 0.01 min

Lab File: VX000730.D

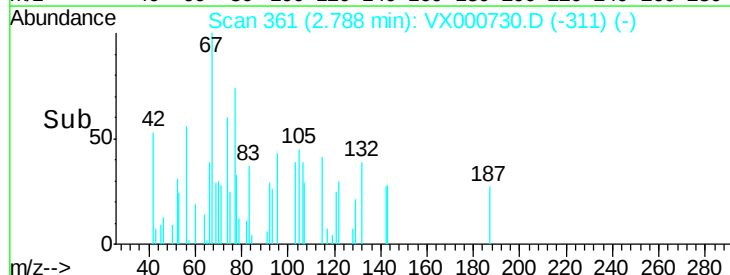
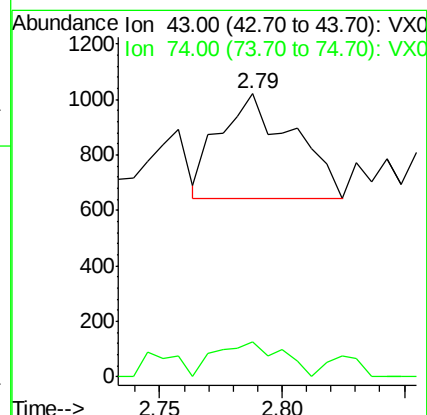
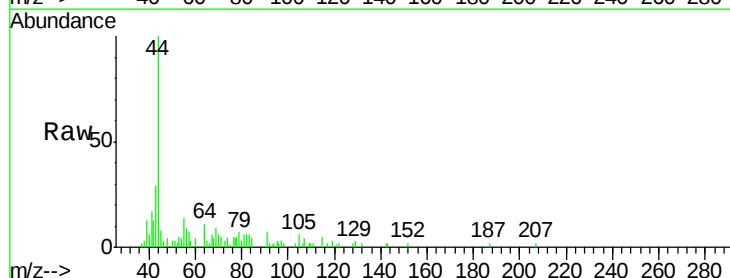
Acq: 08 Apr 2018 14:48

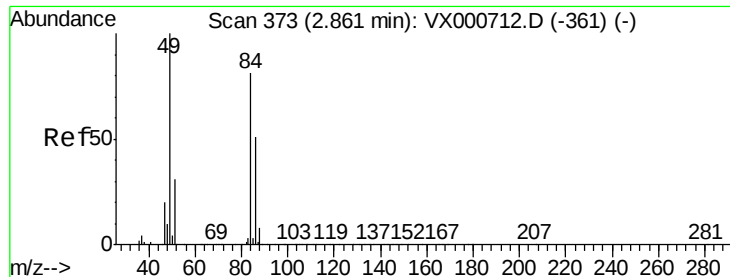
Tgt Ion: 43 Resp: 794

Ion Ratio Lower Upper

43 100

74 29.5 19.0 28.6#

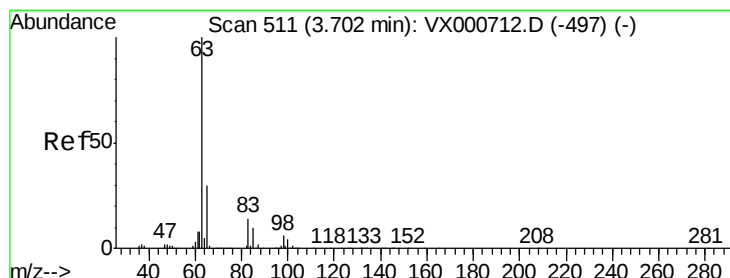
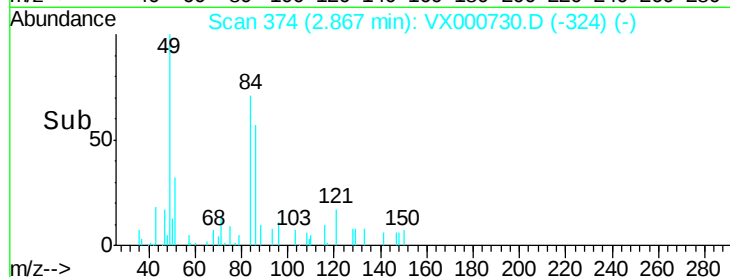
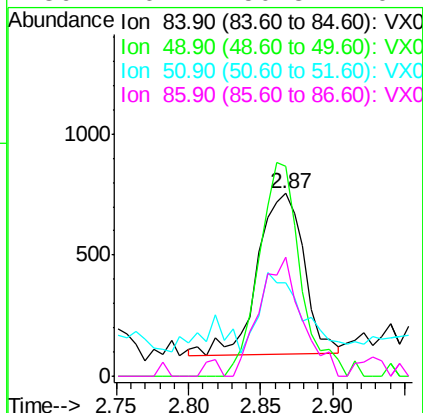
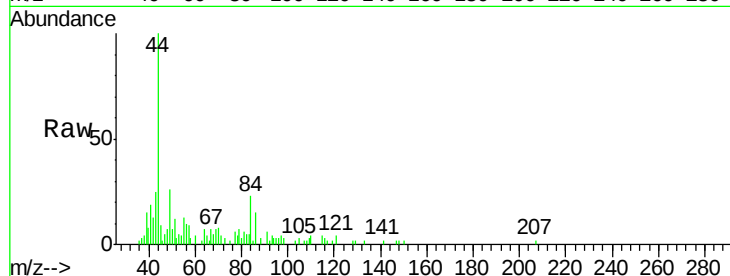




#20
Methylene Chloride
Concen: Below Cal
RT: 2.87 min Scan# 374
Delta R.T. 0.01 min
Lab File: VX000730.D
Acq: 08 Apr 2018 14:48

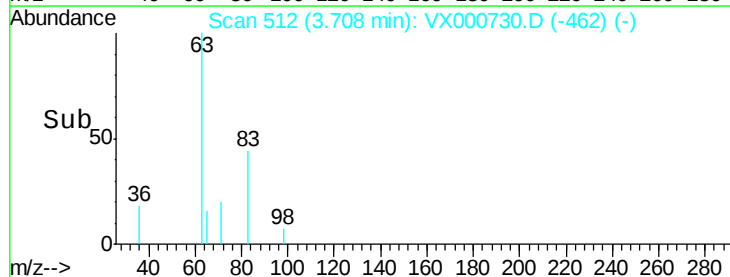
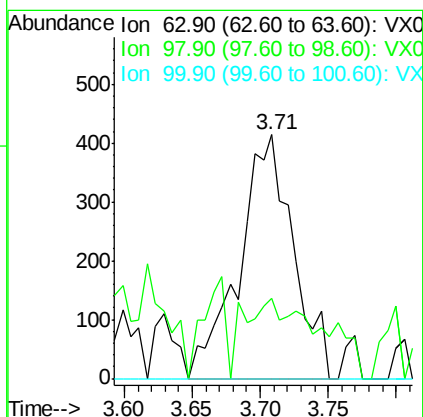
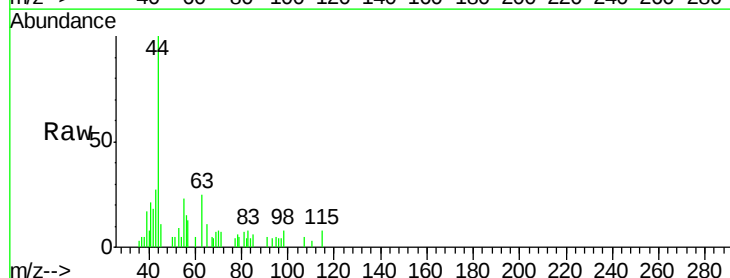
Instrument :
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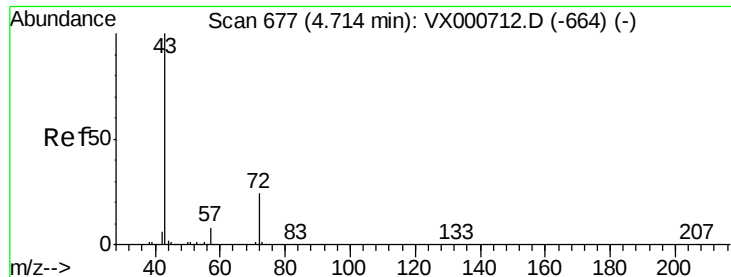
Tgt Ion: 84 Resp: 1486
Ion Ratio Lower Upper
84 100
49 134.9 98.6 148.0
51 38.5 30.8 46.2
86 76.4 50.8 76.2#



#24
1,1-Dichloroethane
Concen: 0.25 ug/l
RT: 3.71 min Scan# 512
Delta R.T. 0.01 min
Lab File: VX000730.D
Acq: 08 Apr 2018 14:48

Tgt Ion: 63 Resp: 1149
Ion Ratio Lower Upper
63 100
98 32.6 2.9 8.8#
100 0.0 2.1 6.3#





#25

2-Butanone

Concen: 0.34 ug/l

RT: 4.73 min Scan# 679

Delta R.T. 0.01 min

Lab File: VX000730.D

Acq: 08 Apr 2018 14:48

Instrument :

MSVOA_X

ClientSampleId :

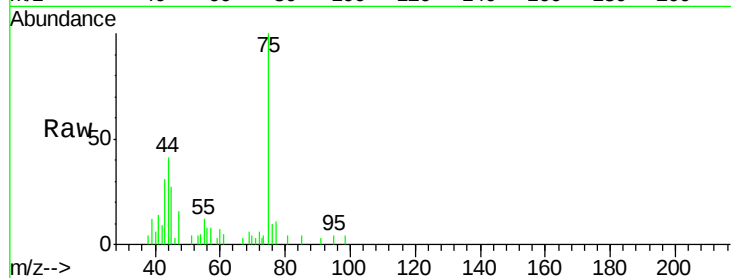
MW-17-040218

Tgt Ion: 43 Resp: 680

Ion Ratio Lower Upper

43 100

72 37.6 19.0 28.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

800

600

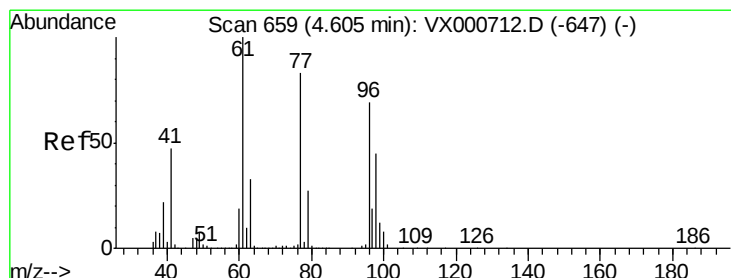
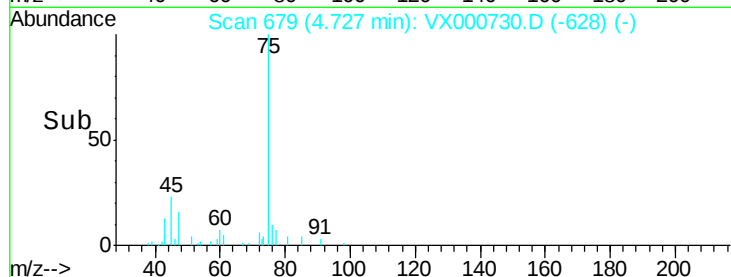
400

200

0

4.66 4.68 4.70 4.72 4.74

Time-->



#27

cis-1,2-Dichloroethene

Concen: 3.84 ug/l

RT: 4.61 min Scan# 660

Delta R.T. 0.01 min

Lab File: VX000730.D

Acq: 08 Apr 2018 14:48

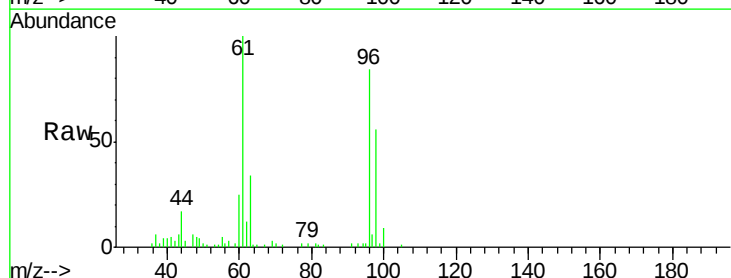
Tgt Ion: 96 Resp: 11867

Ion Ratio Lower Upper

96 100

61 119.9 0.0 301.0

98 65.6 0.0 129.6



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

6000

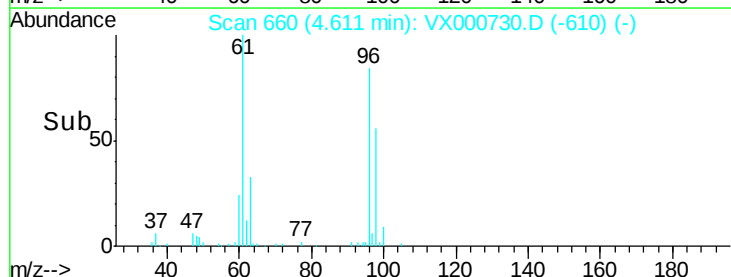
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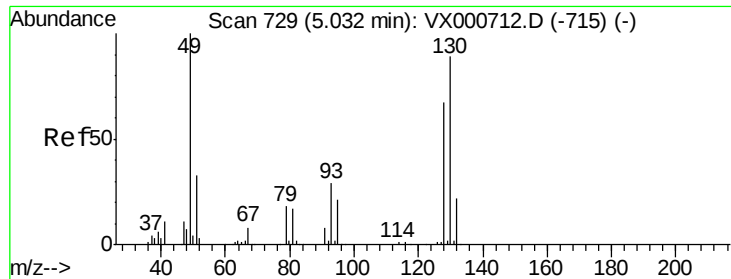
2000

0

4.50 4.60 4.70

Time-->





#28

Bromochloromethane

Concen: Below Cal

RT: 4.79 min Scan# 689

Delta R.T. -0.24 min

Lab File: VX000730.D

Acq: 08 Apr 2018 14:48

Instrument :

MSVOA_X

ClientSampleId :

MW-17-040218

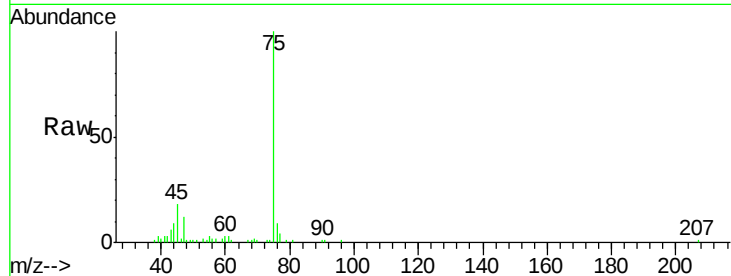
Tgt Ion: 49 Resp: 20

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.4

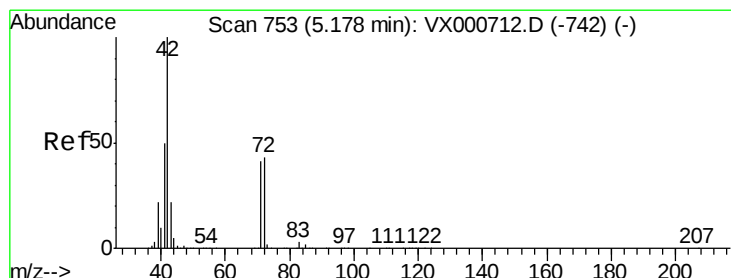
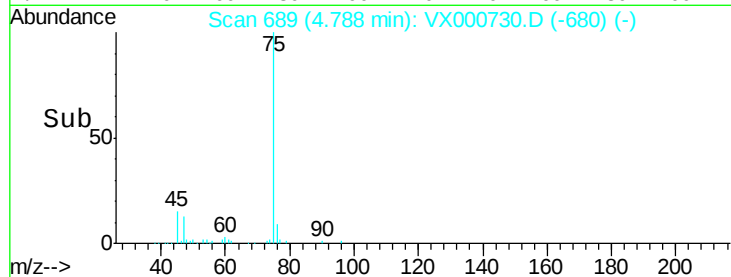
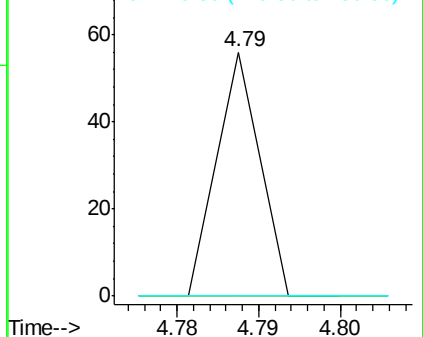
130 0.0 69.0 103.4#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.21 ug/l

RT: 5.18 min Scan# 753

Delta R.T. -0.00 min

Lab File: VX000730.D

Acq: 08 Apr 2018 14:48

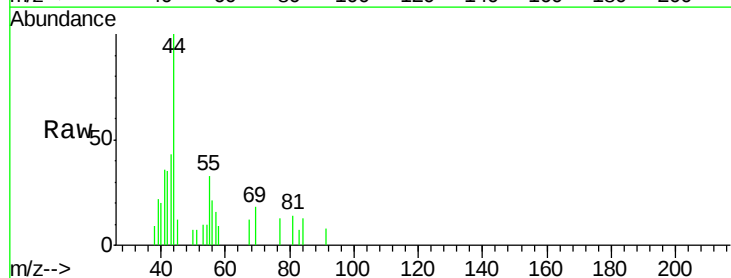
Tgt Ion: 42 Resp: 269

Ion Ratio Lower Upper

42 100

72 0.0 34.4 51.6#

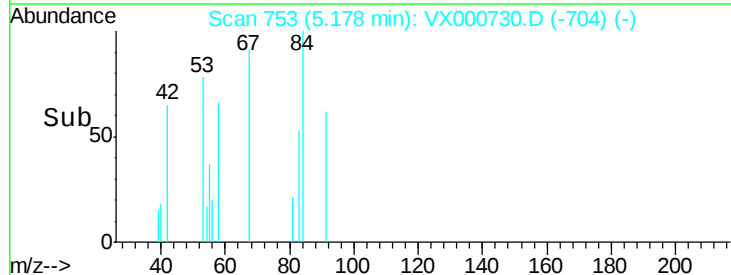
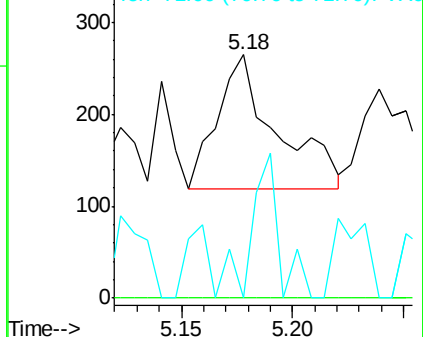
71 51.7 32.0 48.0#

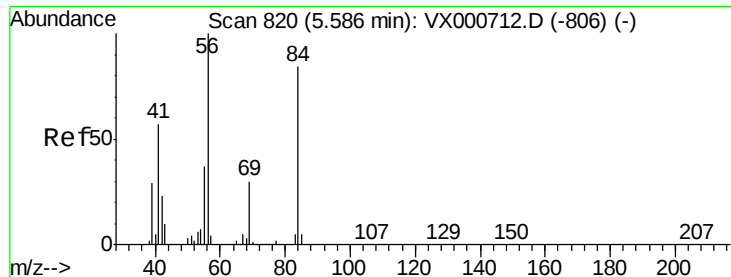


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

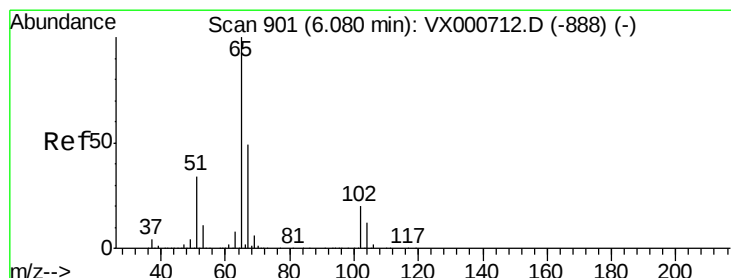
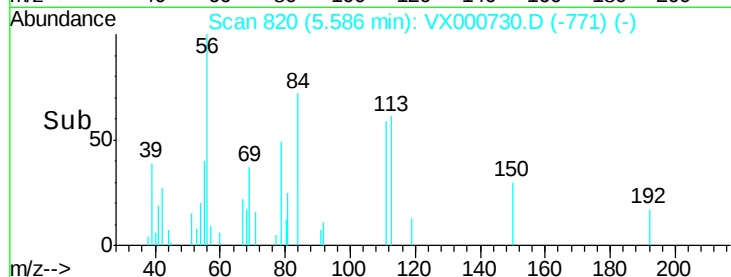
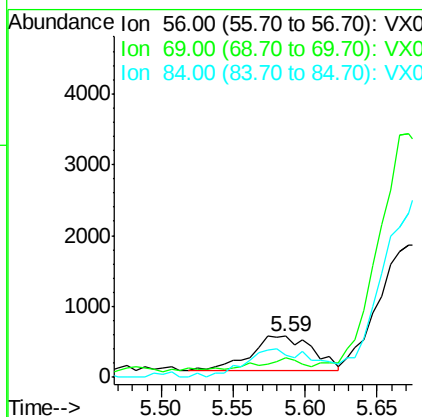
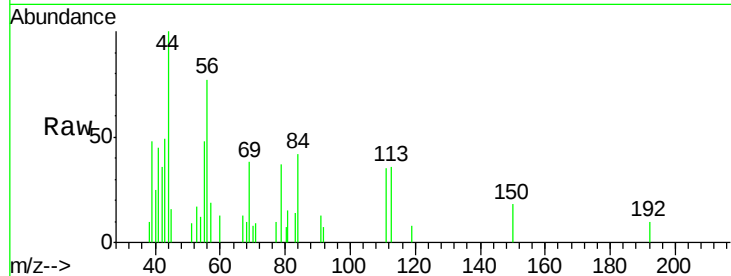




#31
Cyclohexane
Concen: Below Cal
RT: 5.59 min Scan# 820
Delta R.T. 0.00 min
Lab File: VX000730.D
Acq: 08 Apr 2018 14:48

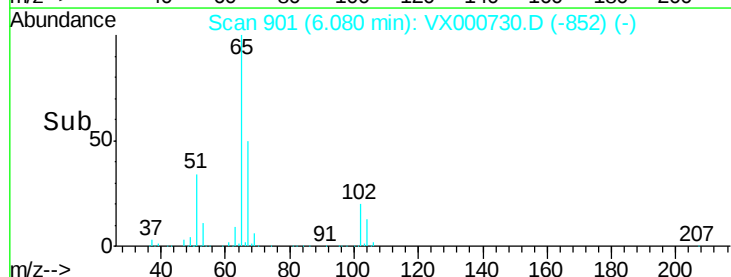
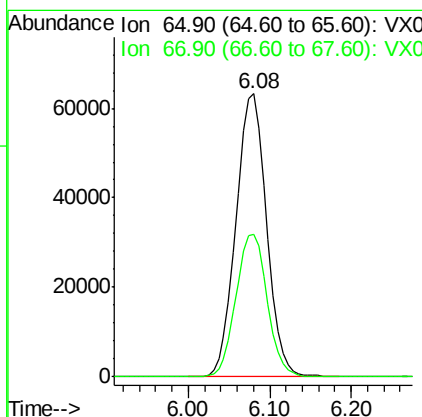
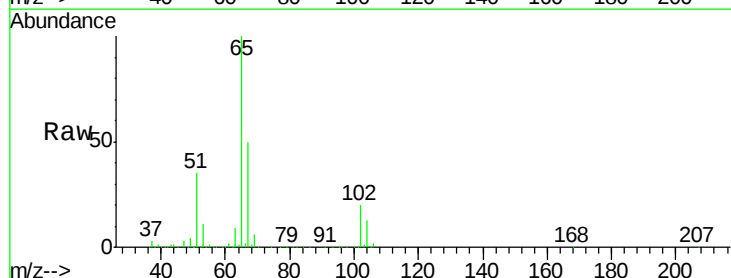
Instrument :
MSVOA_X
ClientSampleId :
MW-17-040218

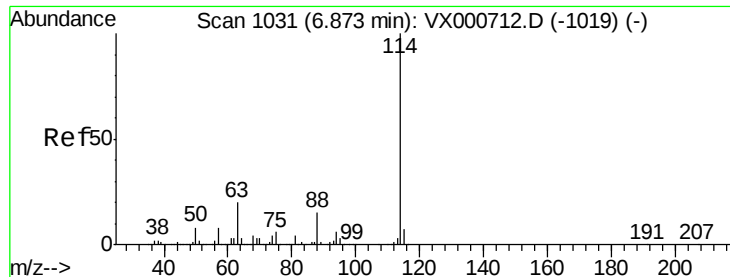
Tgt Ion: 56 Resp: 1442
Ion Ratio Lower Upper
56 100
69 31.9 23.8 35.6
84 66.6 67.4 101.2#



#33
1,2-Dichloroethane-d4
Concen: 44.68 ug/l
RT: 6.08 min Scan# 901
Delta R.T. -0.00 min
Lab File: VX000730.D
Acq: 08 Apr 2018 14:48

Tgt Ion: 65 Resp: 164656
Ion Ratio Lower Upper
65 100
67 51.0 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VX000730.D

Acq: 08 Apr 2018 14:48

Instrument :

MSVOA_X

ClientSampleId :

MW-17-040218

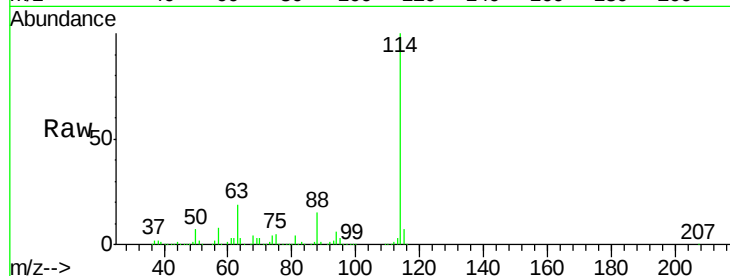
Tgt Ion:114 Resp: 451762

Ion Ratio Lower Upper

114 100

63 19.5 0.0 39.6

88 15.4 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

250000

200000

150000

100000

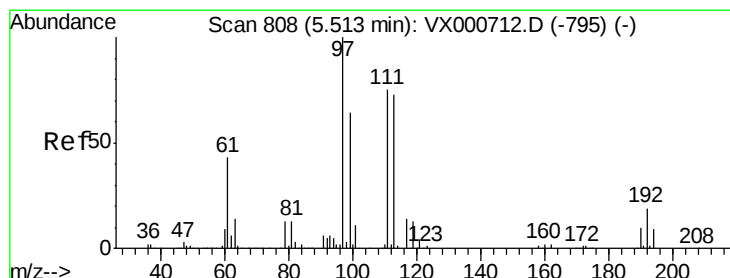
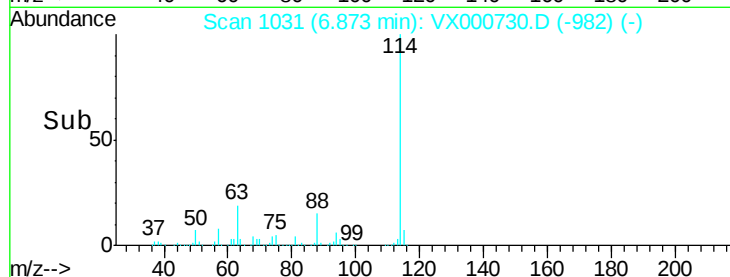
50000

0

6.87

6.80 6.90 7.00 7.10 7.20

Time-->



#35

Dibromofluoromethane

Concen: 47.39 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX000730.D

Acq: 08 Apr 2018 14:48

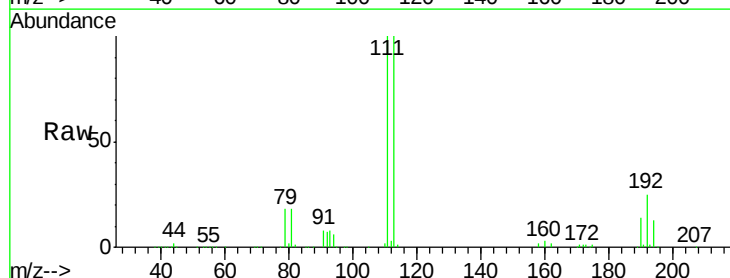
Tgt Ion:113 Resp: 138383

Ion Ratio Lower Upper

113 100

111 101.9 81.5 122.3

192 25.4 20.0 30.0



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

60000

40000

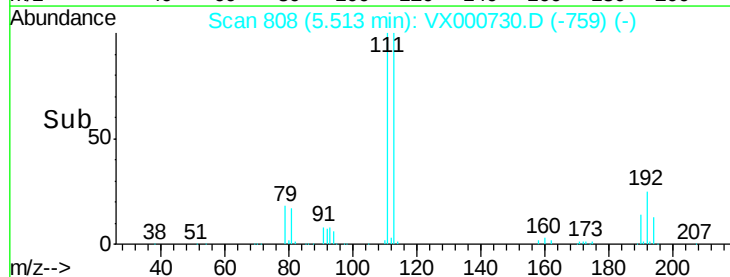
20000

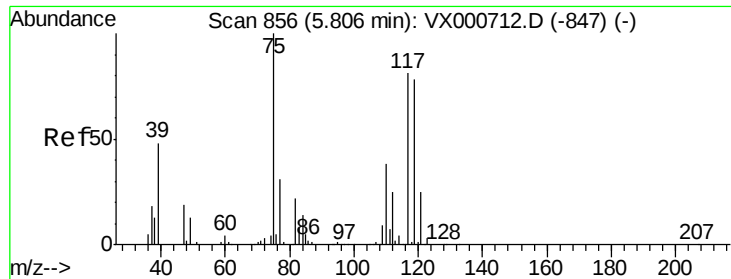
0

5.51

5.40 5.50 5.60

Time-->





#36

1,1-Dichloropropene

Concen: 5.01 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX000730.D

Acq: 08 Apr 2018 14:48

Instrument :

MSVOA_X

ClientSampleId :

MW-17-040218

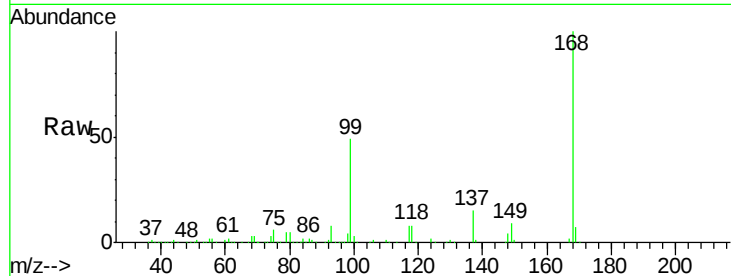
Tgt Ion: 75 Resp: 19386

Ion Ratio Lower Upper

75 100

110 11.0 18.6 56.0#

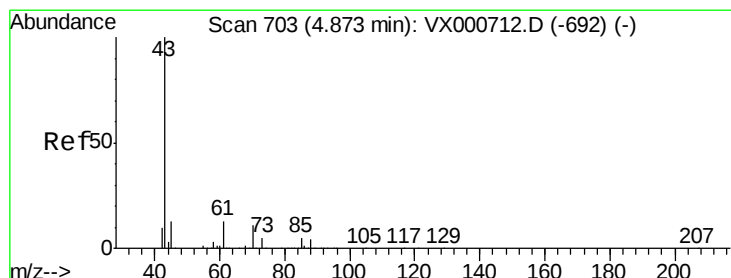
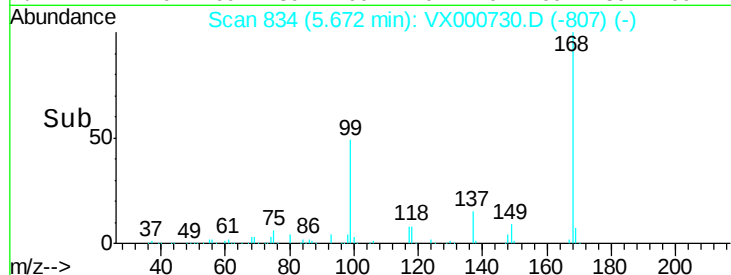
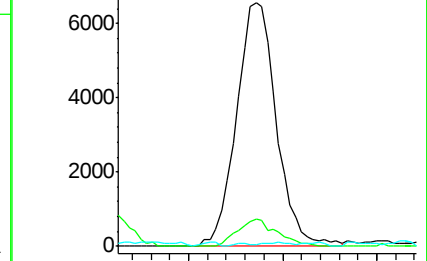
77 0.5 24.6 37.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 0.37 ug/l

RT: 4.88 min Scan# 704

Delta R.T. 0.01 min

Lab File: VX000730.D

Acq: 08 Apr 2018 14:48

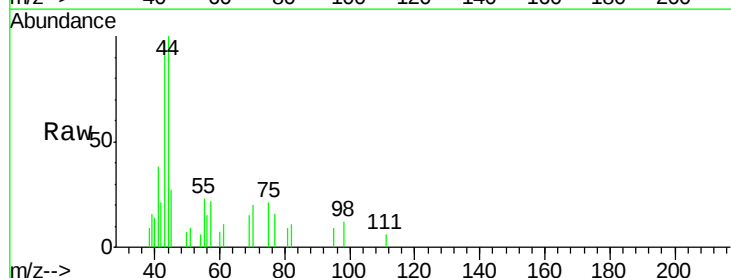
Tgt Ion: 43 Resp: 1544

Ion Ratio Lower Upper

43 100

61 0.0 10.5 15.7#

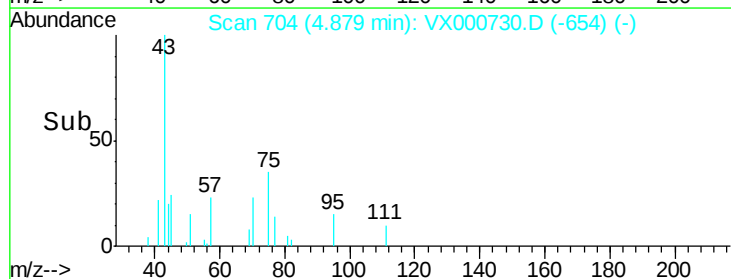
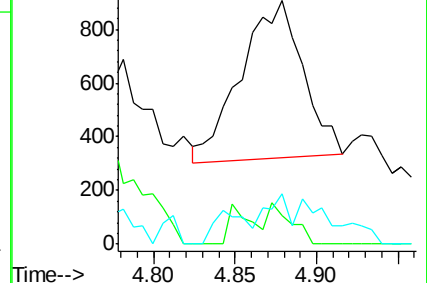
70 6.9 8.4 12.6#

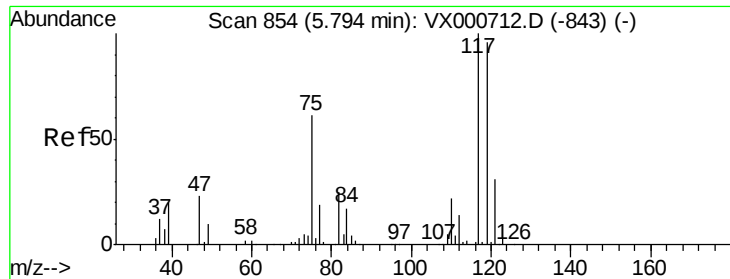


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 6.15 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX000730.D

Acq: 08 Apr 2018 14:48

Instrument :

MSVOA_X

ClientSampleId :

MW-17-040218

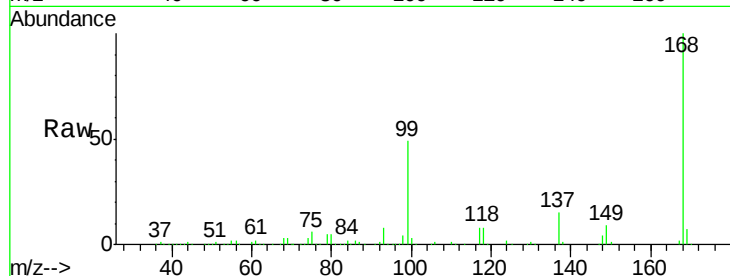
Tgt Ion:117 Resp: 27877

Ion Ratio Lower Upper

117 100

119 5.0 76.7 115.1#

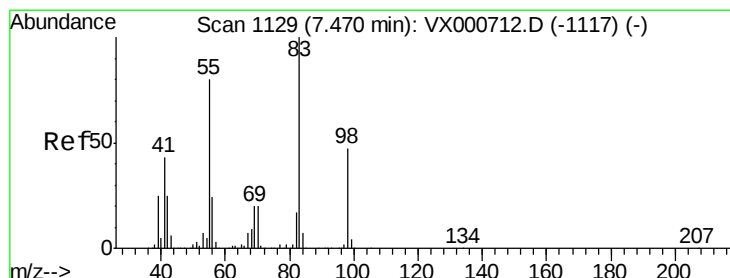
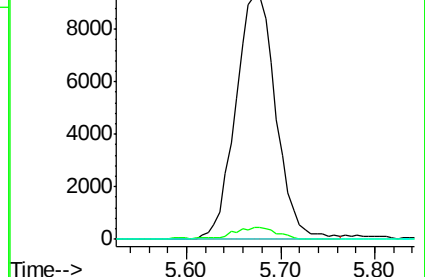
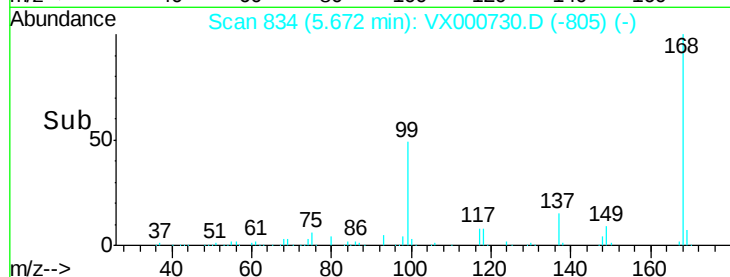
121 0.0 24.7 37.1#



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



#39

Methylcyclohexane

Concen: Below Cal

RT: 7.48 min Scan# 1130

Delta R.T. 0.01 min

Lab File: VX000730.D

Acq: 08 Apr 2018 14:48

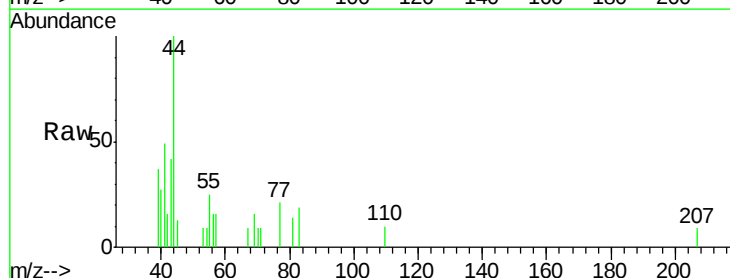
Tgt Ion: 83 Resp: 199

Ion Ratio Lower Upper

83 100

55 2.4 63.7 95.5#

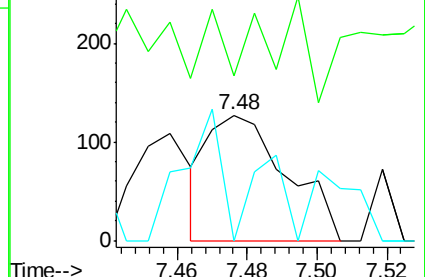
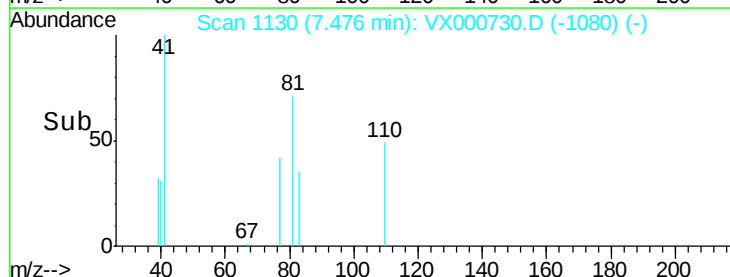
98 0.0 37.2 55.8#

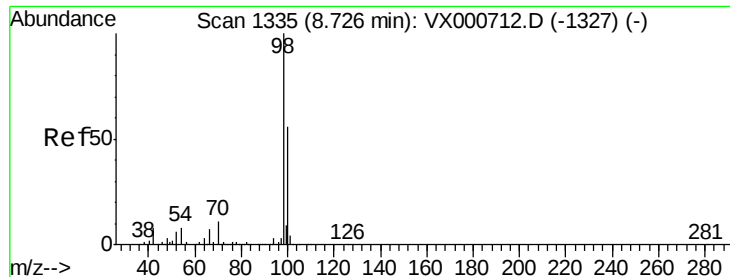


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#50

Toluene-d8

Concen: 47.10 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.01 min

Lab File: VX000730.D

Acq: 08 Apr 2018 14:48

Instrument :

MSVOA_X

ClientSampleId :

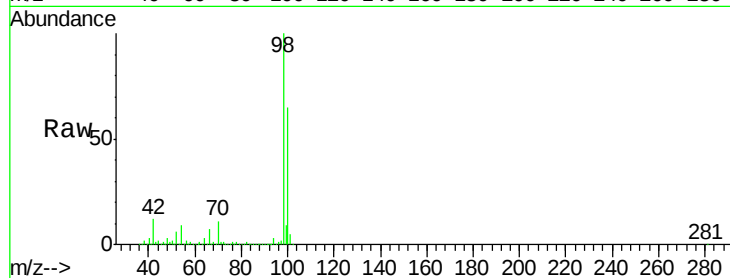
MW-17-040218

Tgt Ion: 98 Resp: 521225

Ion Ratio Lower Upper

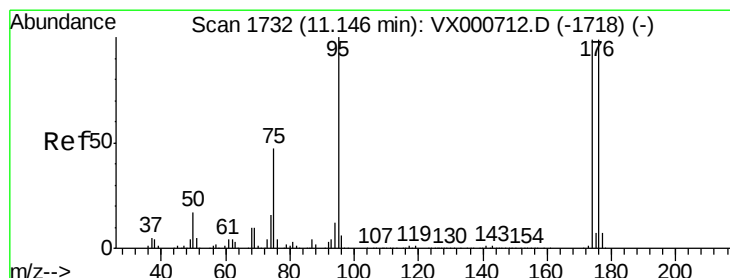
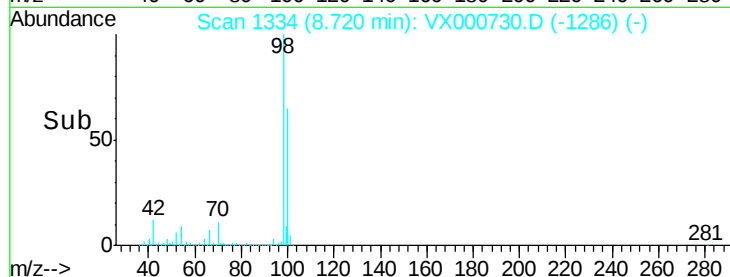
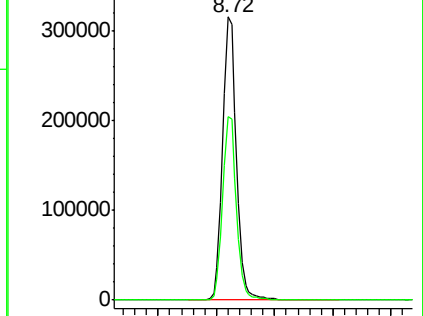
98 100

100 64.9 52.6 78.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 46.23 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VX000730.D

Acq: 08 Apr 2018 14:48

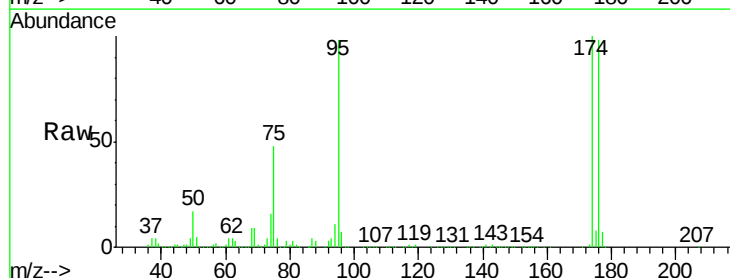
Tgt Ion: 95 Resp: 212475

Ion Ratio Lower Upper

95 100

174 96.6 0.0 191.6

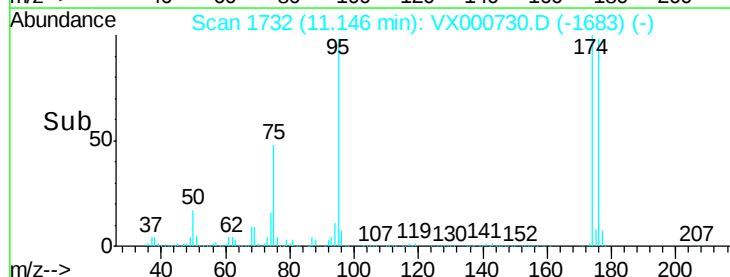
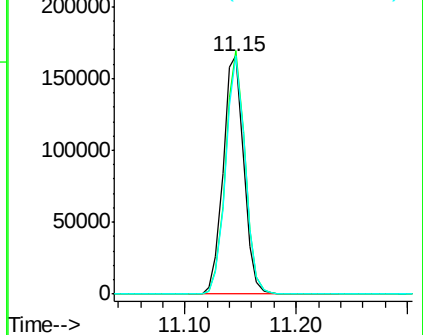
176 94.7 0.0 187.0

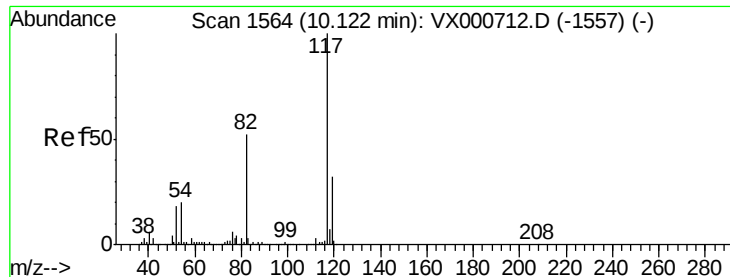


Abundance Ion 94.90 (94.60 to 95.60): VX0

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: 10.12 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VX000730.D

Acq: 08 Apr 2018 14:48

Instrument :

MSVOA_X

ClientSampleId :

MW-17-040218

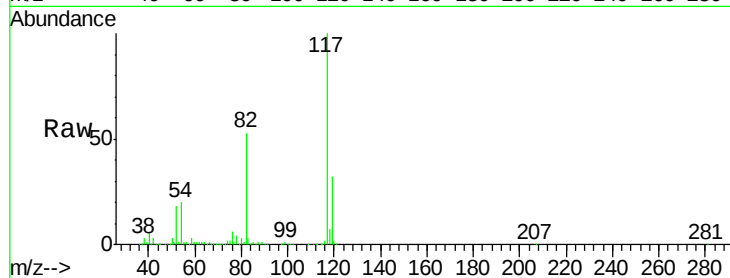
Tgt Ion:117 Resp: 419914

Ion Ratio Lower Upper

117 100

82 52.5 41.9 62.9

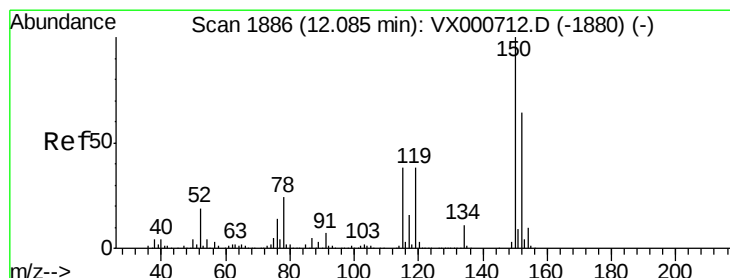
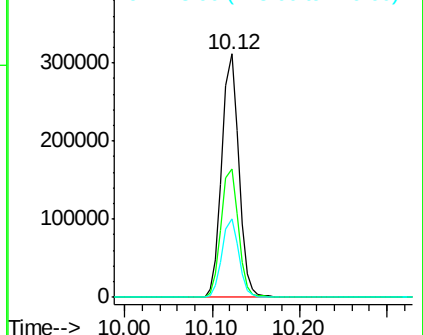
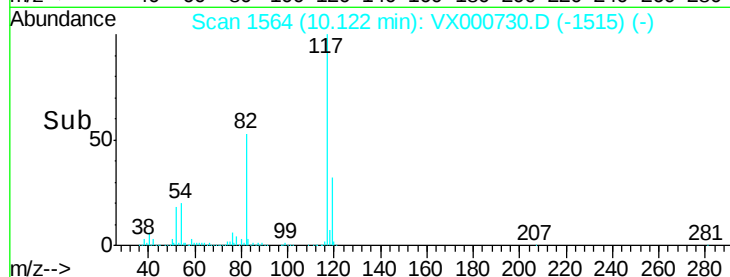
119 32.4 25.8 38.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX000730.D

Acq: 08 Apr 2018 14:48

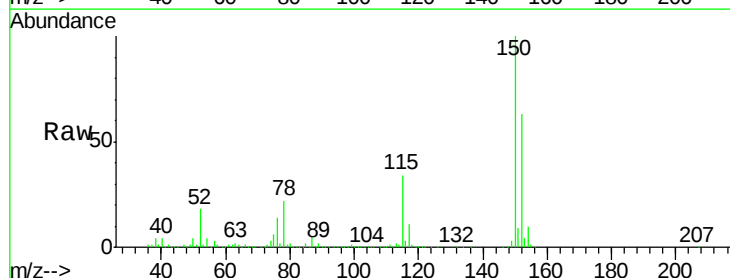
Tgt Ion:152 Resp: 247859

Ion Ratio Lower Upper

152 100

115 53.9 37.7 113.1

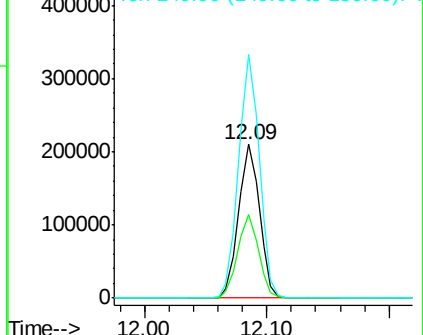
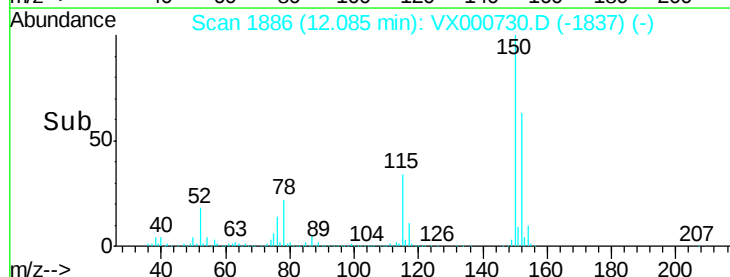
150 157.4 0.0 345.0

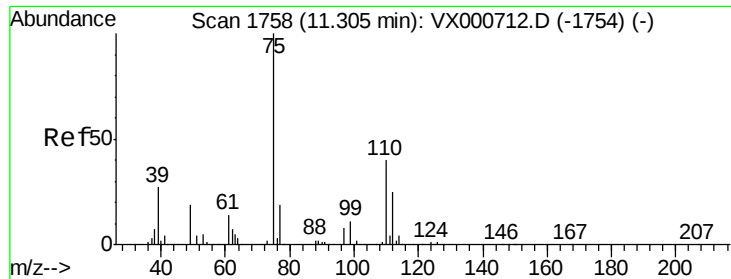


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

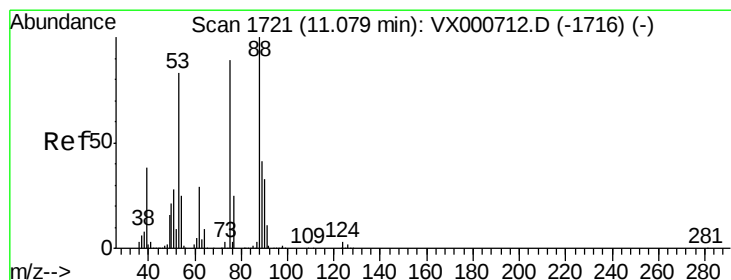
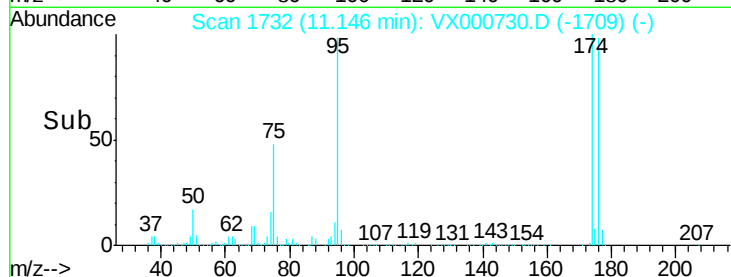
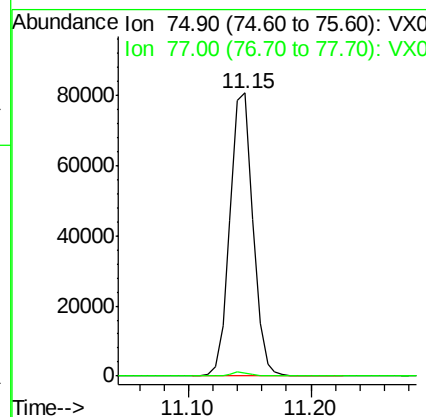
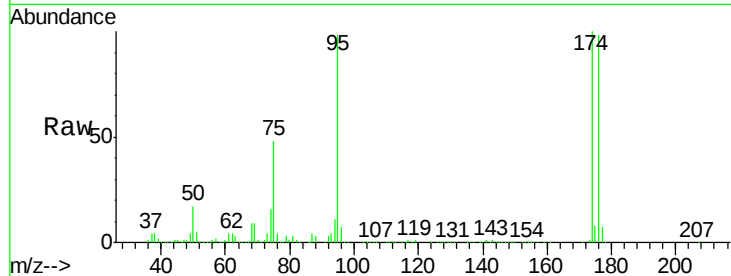




#76
 1,2,3-Trichloropropane
 Concen: 24.87 ug/l
 RT: 11.15 min Scan# 1732
 Delta R.T. -0.16 min
 Lab File: VX000730.D
 Acq: 08 Apr 2018 14:48

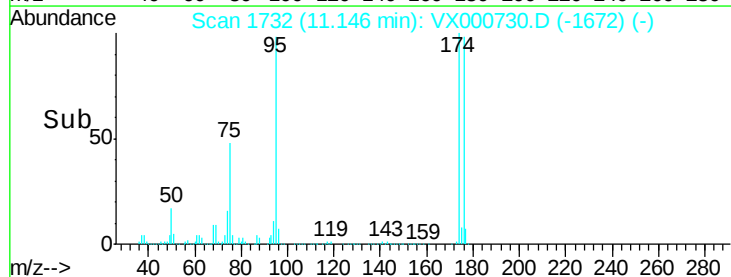
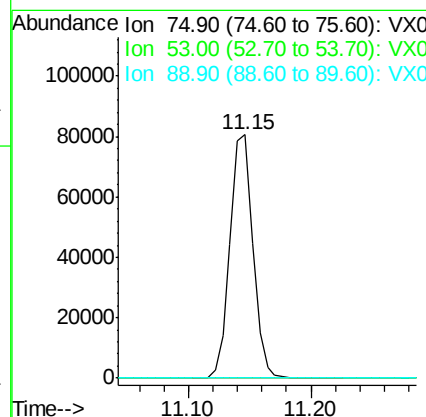
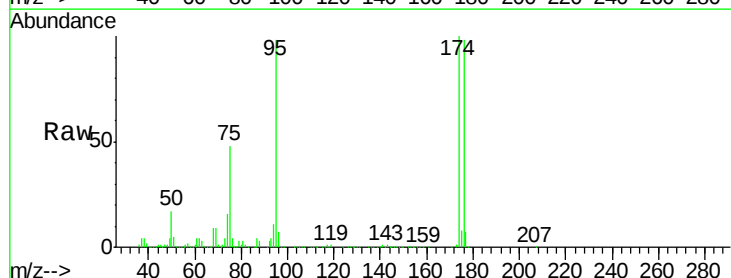
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-17-040218

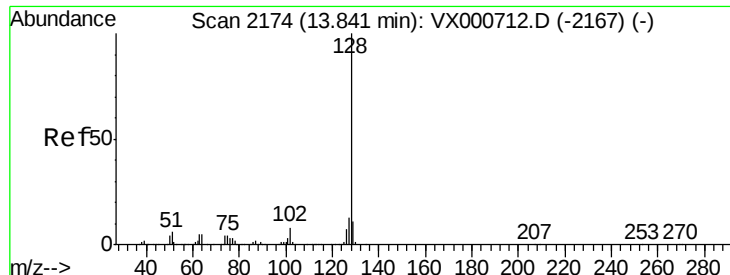
Tgt Ion: 75 Resp: 104896
 Ion Ratio Lower Upper
 75 100
 77 1.4 21.3 63.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 64.76 ug/l
 RT: 11.15 min Scan# 1732
 Delta R.T. 0.07 min
 Lab File: VX000730.D
 Acq: 08 Apr 2018 14:48

Tgt Ion: 75 Resp: 104896
 Ion Ratio Lower Upper
 75 100
 53 0.2 74.2 111.2#
 89 0.0 46.6 69.8#





#95

Naphthalene

Concen: 0.26 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX000730.D

Acq: 08 Apr 2018 14:48

Instrument :

MSVOA_X

ClientSampleId :

MW-17-040218

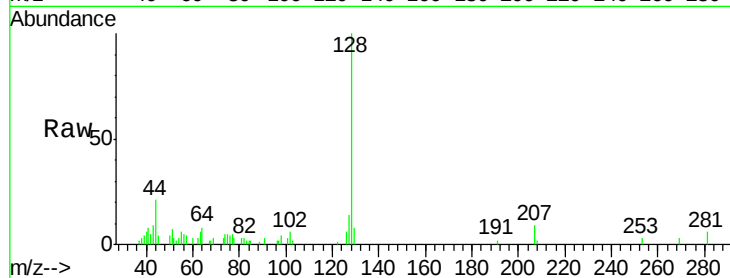
Tgt Ion:128 Resp: 4442

Ion Ratio Lower Upper

128 100

127 15.6 10.4 15.6

129 11.6 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

