

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091518\
 Data File : VX004613.D
 Acq On : 16 Sep 2018 04:52
 Operator : JC/MD
 Sample : J4913-16
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BPS1-TT-MW302D-20180913

Quant Time: Sep 17 08:46:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	259198	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	363404	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	334098	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	228281	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	173632	51.95	ug/l	0.00
Spiked Amount			Recovery	=	103.90%	
35) Dibromofluoromethane	5.51	113	161575	48.59	ug/l	0.00
Spiked Amount			Recovery	=	97.18%	
50) Toluene-d8	8.72	98	498239	44.68	ug/l	0.00
Spiked Amount			Recovery	=	89.36%	
62) 4-Bromofluorobenzene	11.14	95	174669	43.88	ug/l	0.00
Spiked Amount			Recovery	=	87.76%	

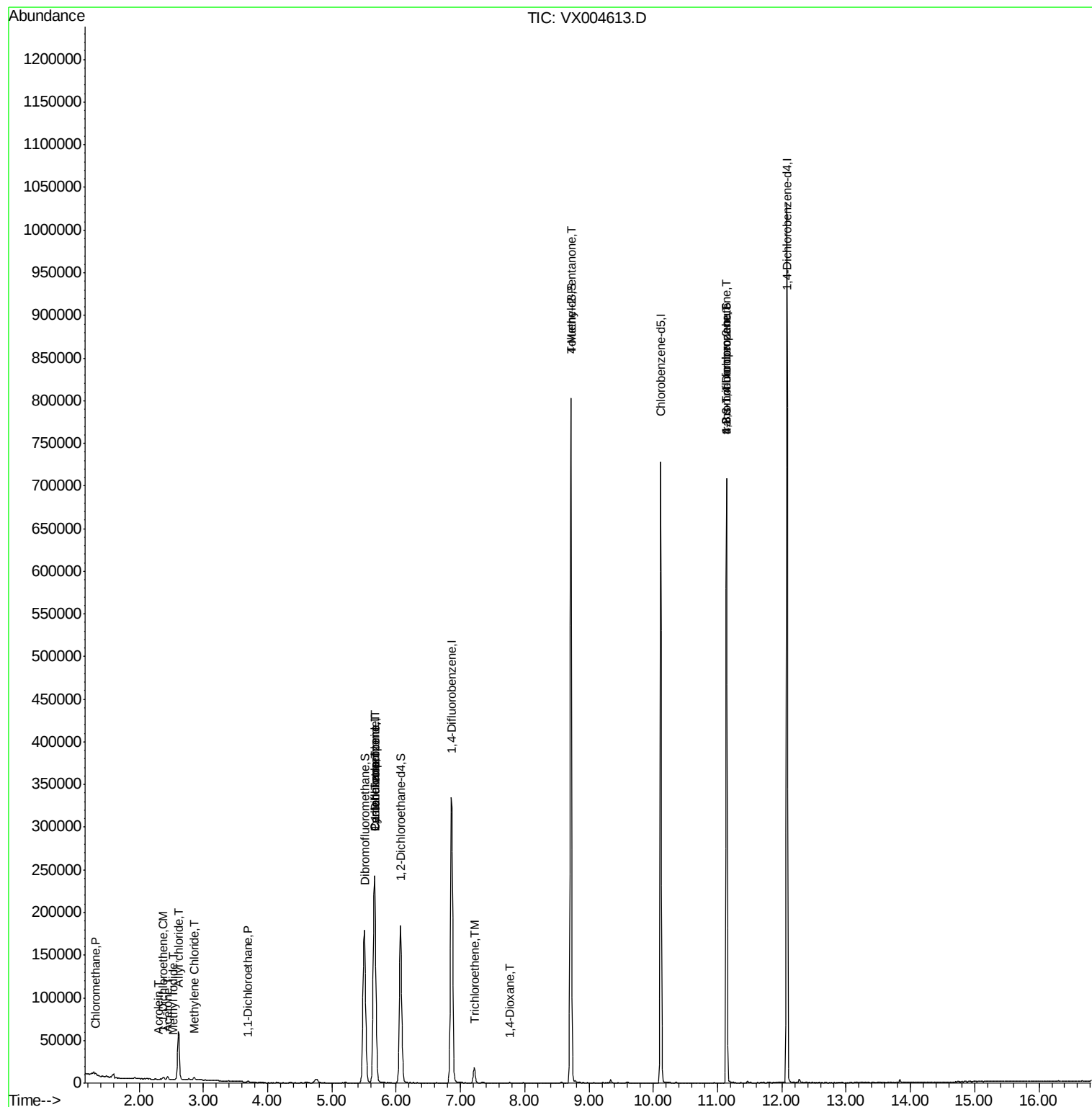
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	691	0.21	ug/l	# 79
5) Bromomethane	1.65	94	618	Below	Cal	97
10) Methyl Iodide	2.52	142	187	4.31	ug/l	# 41
12) 1,1-Dichloroethene	2.37	96	840	0.31	ug/l	# 88
13) Acrolein	2.30	56	65	0.21	ug/l	# 1
14) Allyl chloride	2.61	41	6059	1.09	ug/l	# 65
16) Acetone	2.45	43	3542	2.17	ug/l	# 90
20) Methylene Chloride	2.85	84	1172	0.35	ug/l	# 82
24) 1,1-Dichloroethane	3.69	63	1889	0.33	ug/l	# 94
31) Cyclohexane	5.66	56	4103	0.85	ug/l	# 1
36) 1,1-Dichloropropene	5.66	75	16709	3.79	ug/l	# 49
38) Carbon Tetrachloride	5.67	117	23144	5.37	ug/l	# 16
44) Trichloroethene	7.22	130	7621	2.24	ug/l	# 96
49) 1,4-Dioxane	7.77	88	133	1.70	ug/l	# 79
51) 4-Methyl-2-Pentanone	8.71	43	1961	0.42	ug/l	# 1
76) 1,2,3-Trichloropropane	11.14	75	82030	17.86	ug/l	# 37
81) trans-1,4-Dichloro-2-buten	11.14	75	82030	56.93	ug/l	# 10

(#) = 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# 740

Delta R.T. -0.00 min

Lab File: VX004613.D

Acq: 16 Sep 2018 04:52

Instrument :

MSVOA_X

ClientSampleId :

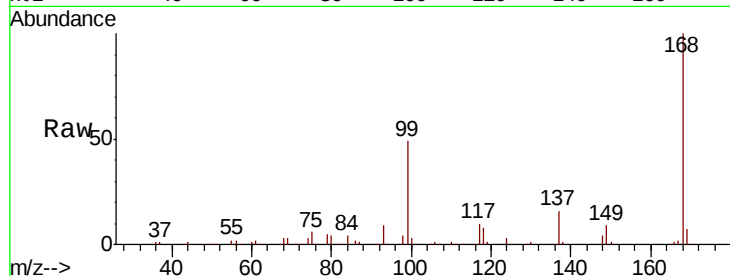
BPS1-TT-MW302D-20180913

Tot Ion:168 Resp: 259198

Ion Ratio Lower Upper

168 100

99 49.0 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

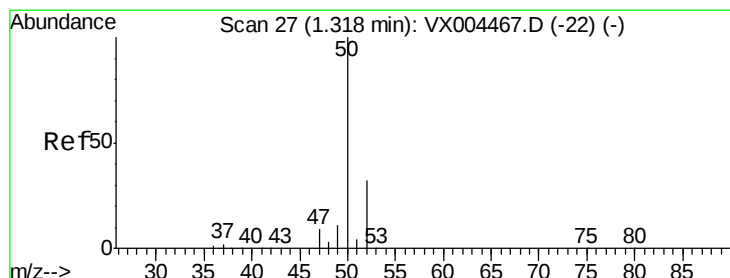
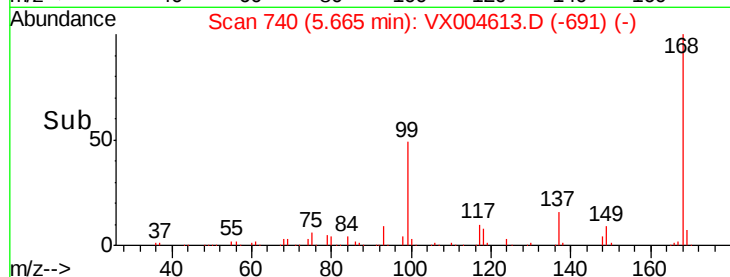
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.21 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX004613.D

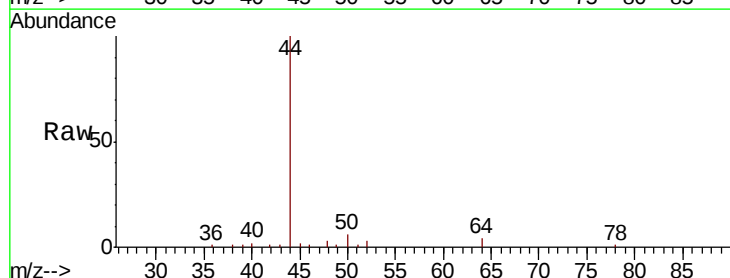
Acq: 16 Sep 2018 04:52

Tgt Ion: 50 Resp: 691

Ion Ratio Lower Upper

50 100

52 44.7 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

600

500

400

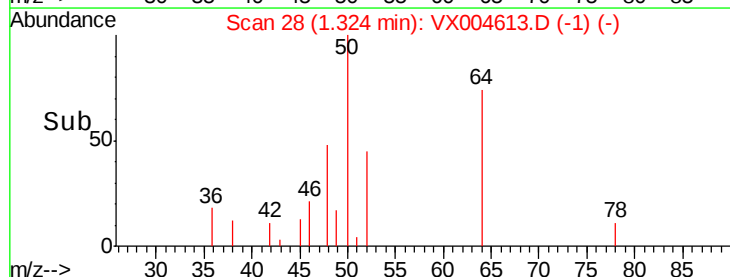
300

200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004613.D

Acq: 16 Sep 2018 04:52

Instrument :

MSVOA_X

ClientSampleId :

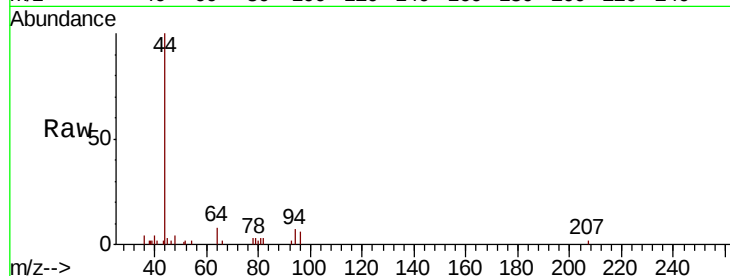
BPS1-TT-MW302D-20180913

Tot Ion: 94 Resp: 618

Ion Ratio Lower Upper

94 100

96 96.1 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

250

200

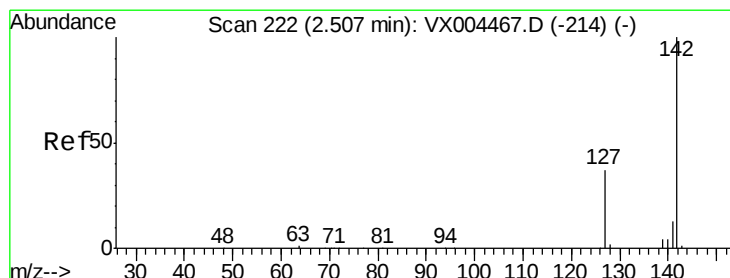
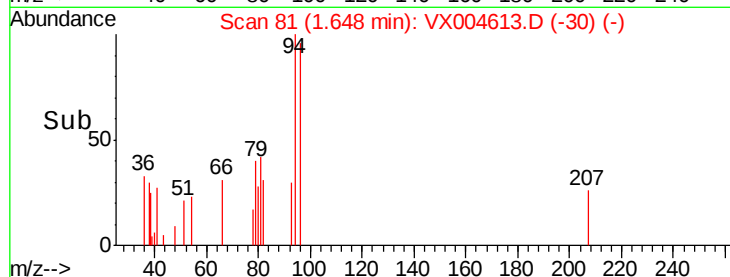
150

100

50

0

Time-->



#10

Methyl Iodide

Concen: 4.31 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX004613.D

Acq: 16 Sep 2018 04:52

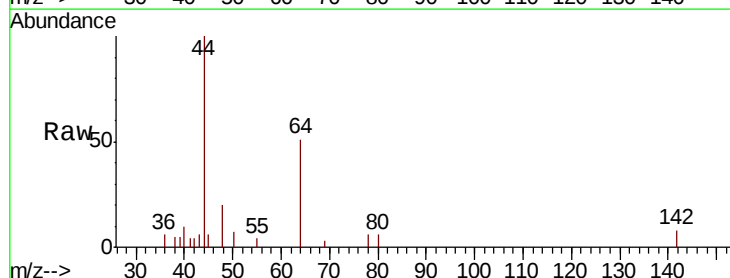
Tgt Ion: 142 Resp: 187

Ion Ratio Lower Upper

142 100

127 0.0 33.8 50.6#

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

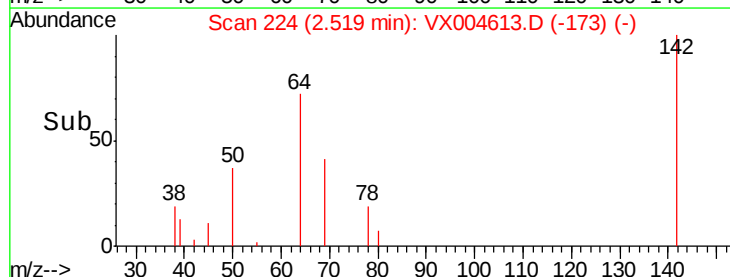
150

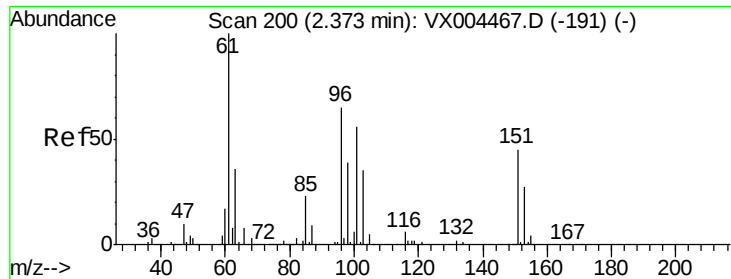
100

50

0

Time-->

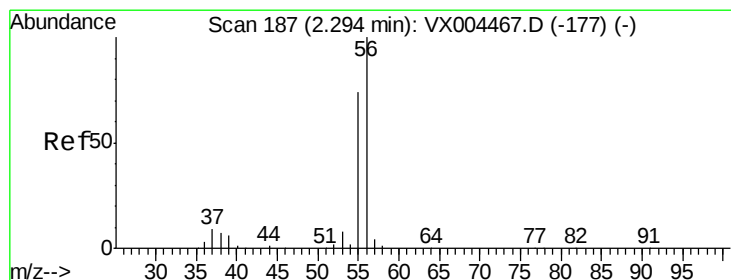
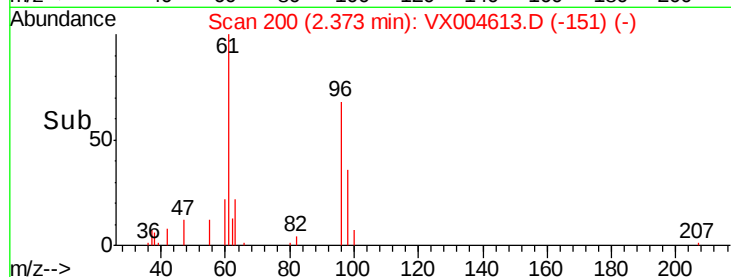
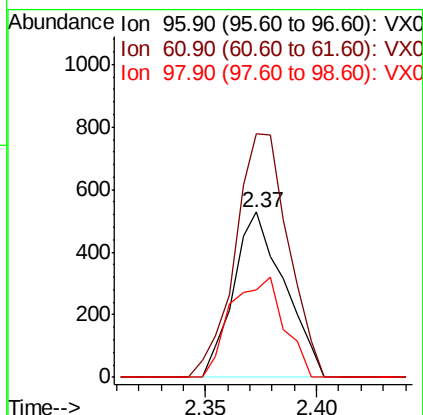
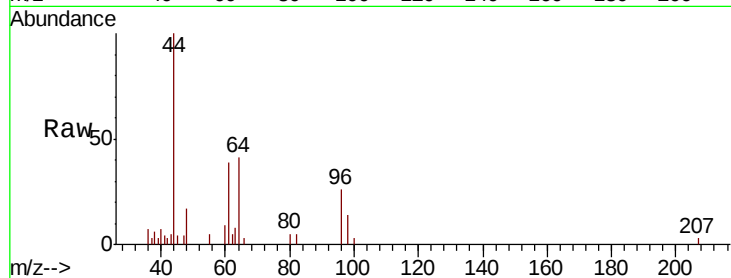




#12
 1,1-Dichloroethene
 Concen: 0.31 ug/l
 RT: 2.37 min Scan# 200
 Delta R.T. -0.00 min
 Lab File: VX004613.D
 Acq: 16 Sep 2018 04:52

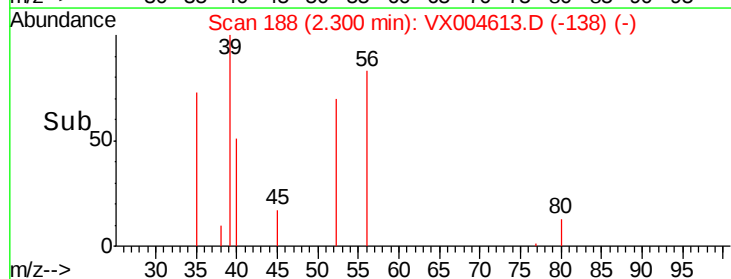
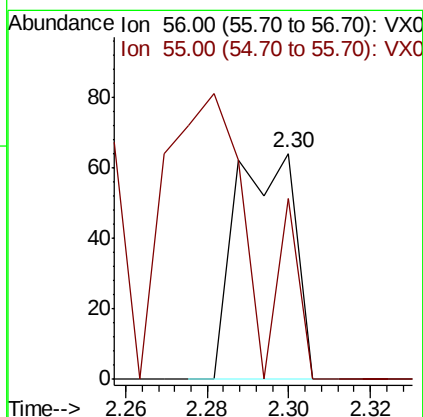
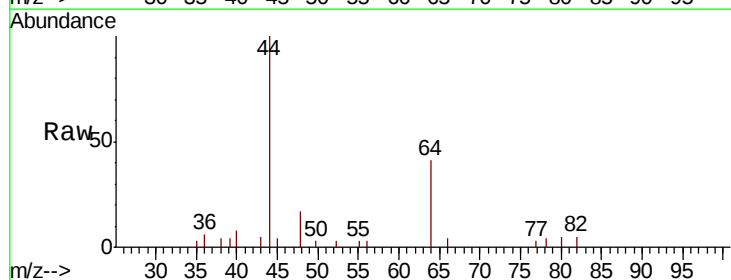
Instrument :
 MSVOA_X
 ClientSampleId :
 BPS1-TT-MW302D-20180913

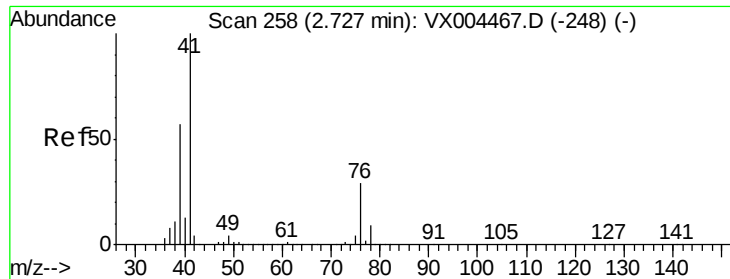
Tot Ion: 96 Resp: 840
 Ion Ratio Lower Upper
 96 100
 61 147.6 128.8 193.2
 98 53.1 52.2 78.2



#13
 Acrolein
 Concen: 0.21 ug/l
 RT: 2.30 min Scan# 188
 Delta R.T. 0.01 min
 Lab File: VX004613.D
 Acq: 16 Sep 2018 04:52

Tgt Ion: 56 Resp: 65
 Ion Ratio Lower Upper
 56 100
 55 223.1 54.7 82.1#

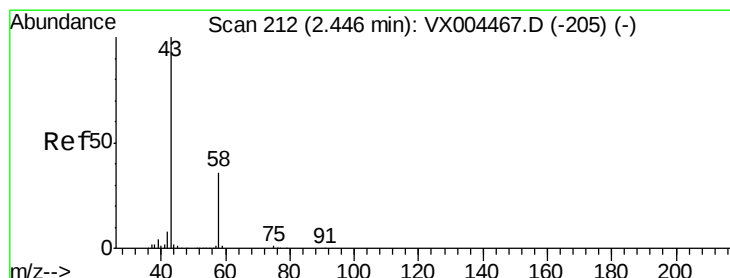
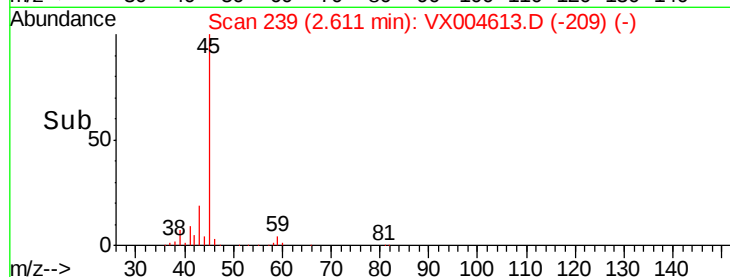
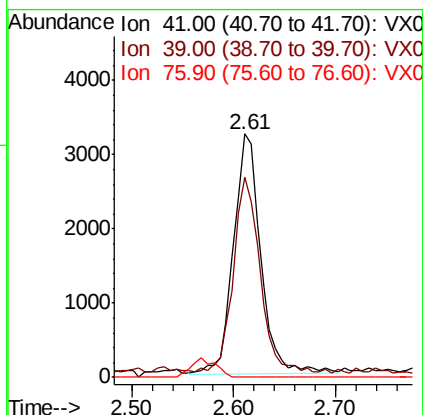
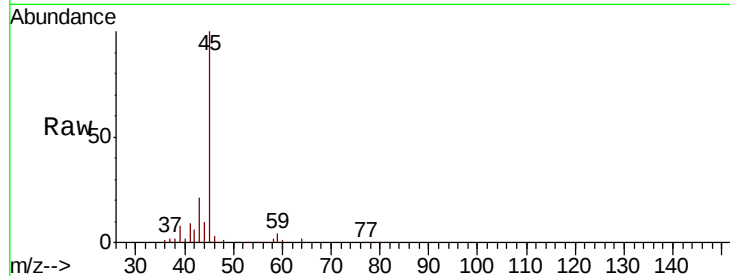




#14
Allvl chloride
Concen: 1.09 ug/l
RT: 2.61 min Scan# 239
Delta R.T. -0.12 min
Lab File: VX004613.D
Acq: 16 Sep 2018 04:52

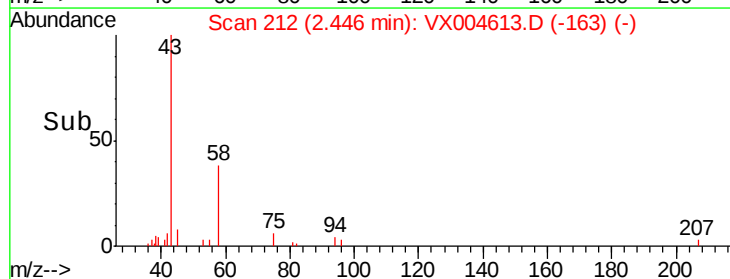
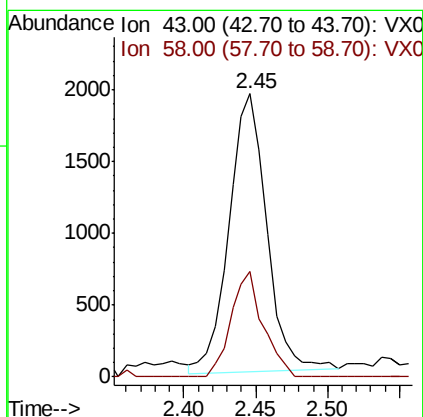
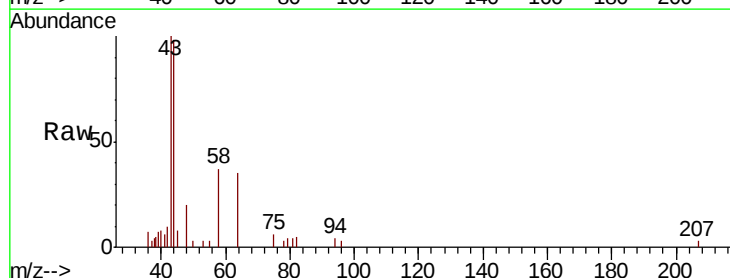
Instrument :
MSVOA_X
ClientSampleId :
BPS1-TT-MW302D-20180913

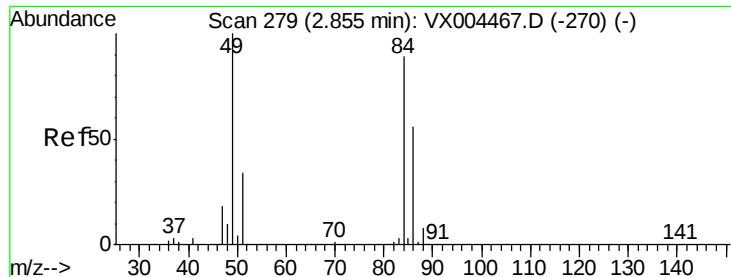
Tot Ion: 41 Resp: 6059
Ion Ratio Lower Upper
41 100
39 77.6 48.9 73.3#
76 0.0 26.7 40.1#



#16
Acetone
Concen: 2.17 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX004613.D
Acq: 16 Sep 2018 04:52

Tgt Ion: 43 Resp: 3542
Ion Ratio Lower Upper
43 100
58 38.6 26.2 39.4





#20

Methylene Chloride

Concen: 0.35 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX004613.D

Acq: 16 Sep 2018 04:52

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW302D-20180913

Tot Ion: 84 Resp: 1172

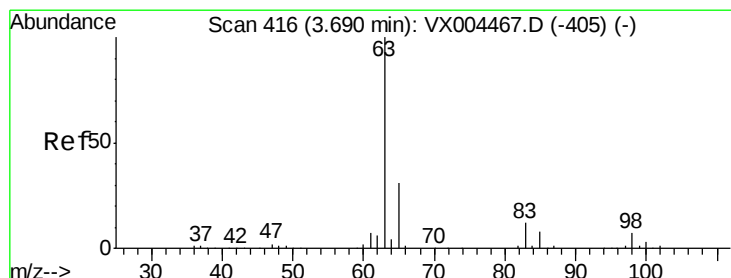
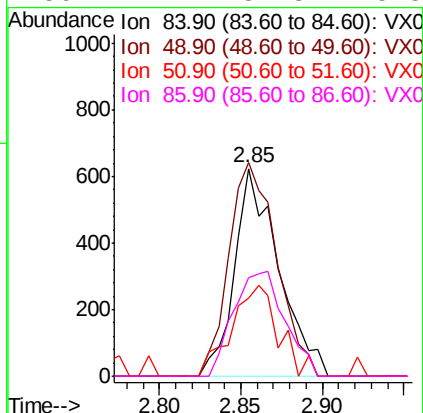
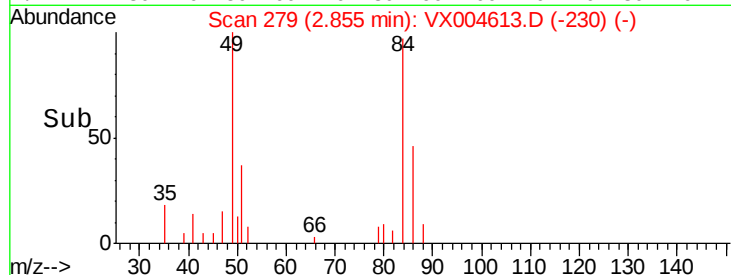
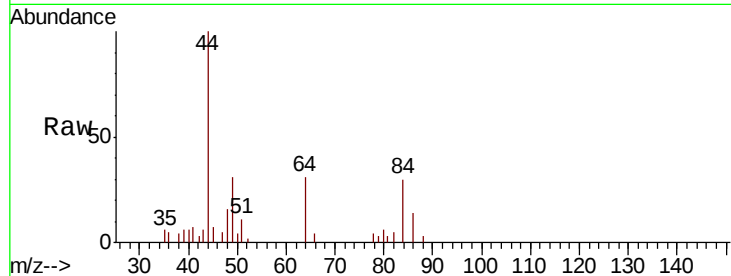
Ion Ratio Lower Upper

84 100

49 102.9 101.2 151.8

51 37.6 29.5 44.3

86 47.4 52.3 78.5#



#24

1,1-Dichloroethane

Concen: 0.33 ug/l

RT: 3.69 min Scan# 416

Delta R.T. -0.00 min

Lab File: VX004613.D

Acq: 16 Sep 2018 04:52

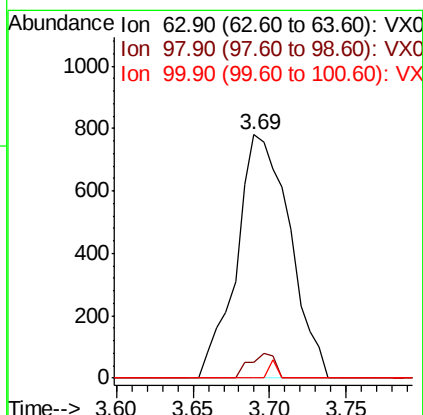
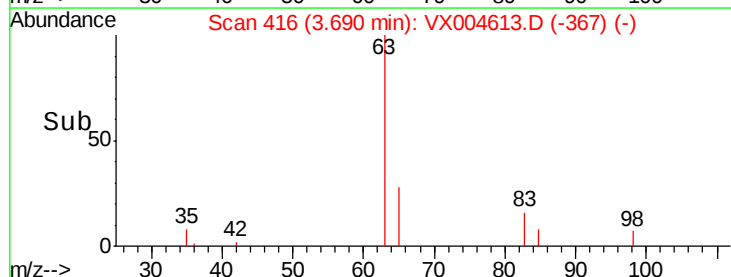
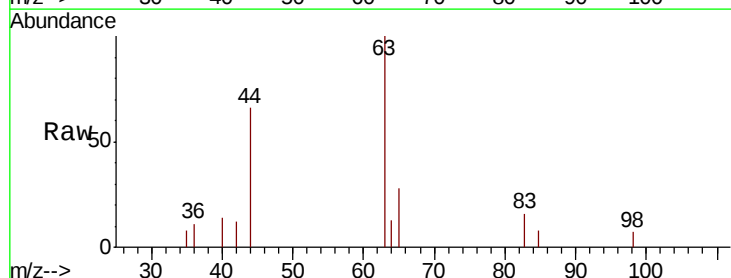
Tgt Ion: 63 Resp: 1889

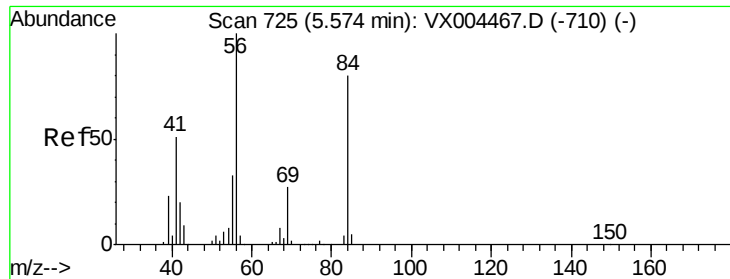
Ion Ratio Lower Upper

63 100

98 6.8 3.5 10.4

100 0.0 2.4 7.1#

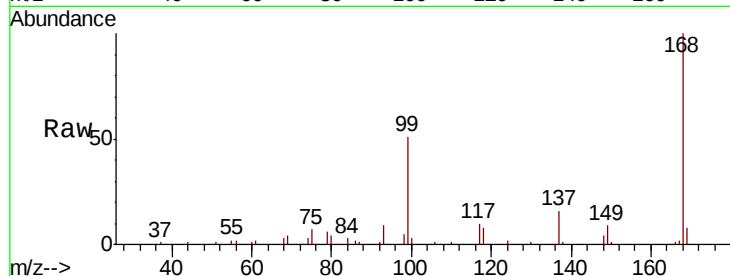




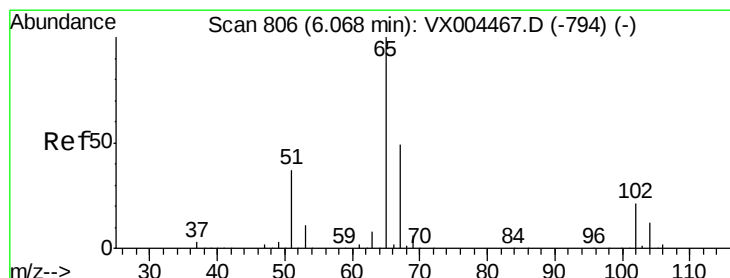
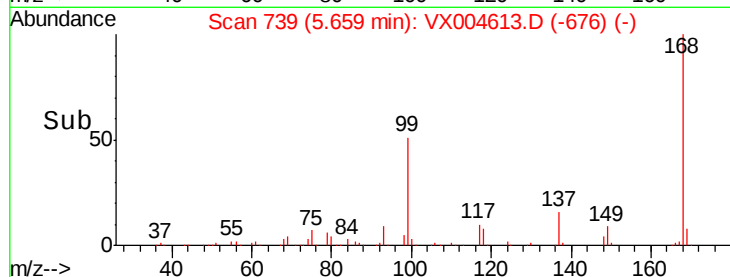
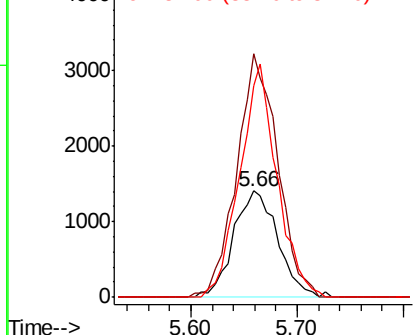
#31
Cyclohexane
Concen: 0.85 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX004613.D
Acq: 16 Sep 2018 04:52

Instrument :
MSVOA_X
ClientSampleId :
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Tot Ion: 56 Resp: 4103
Ion Ratio Lower Upper
56 100
69 228.5 25.4 38.2#
84 198.4 71.4 107.2#

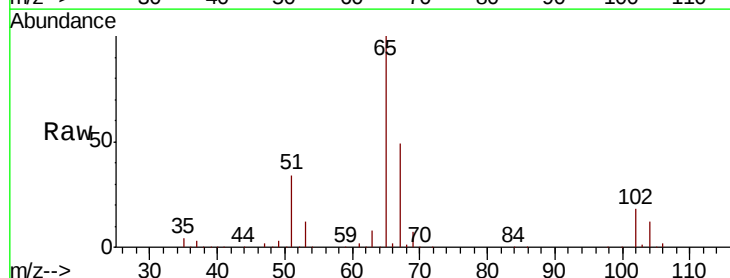


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

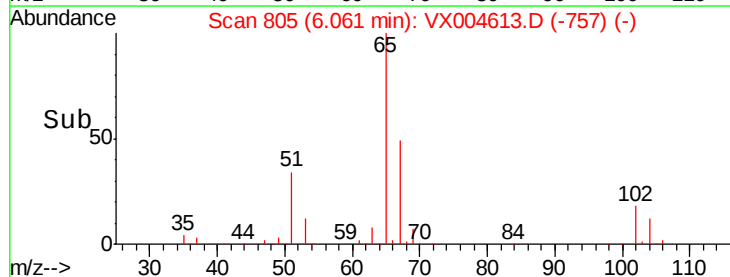
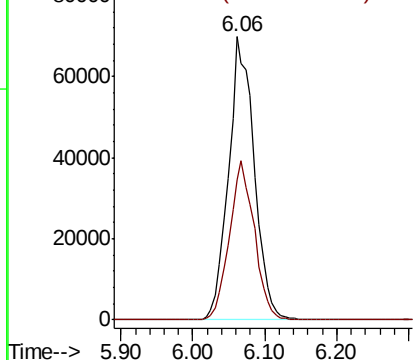


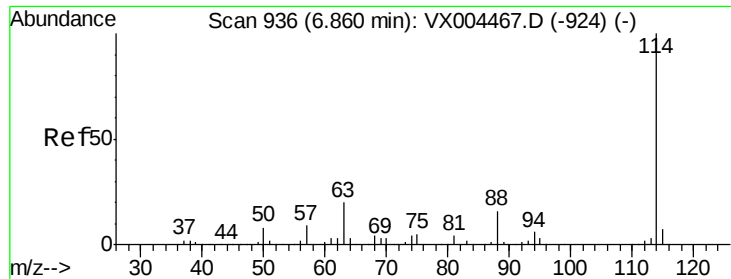
#33
1,2-Dichloroethane-d4
Concen: 51.95 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.01 min
Lab File: VX004613.D
Acq: 16 Sep 2018 04:52

Tgt Ion: 65 Resp: 173632
Ion Ratio Lower Upper
65 100
67 54.5 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

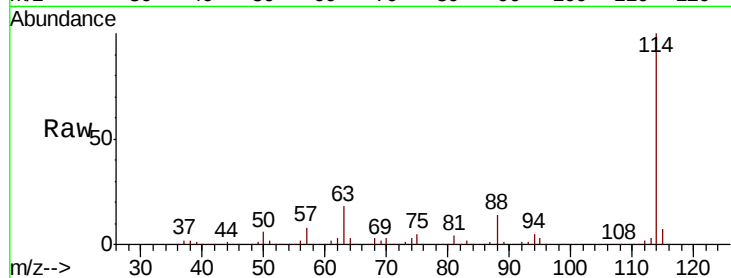




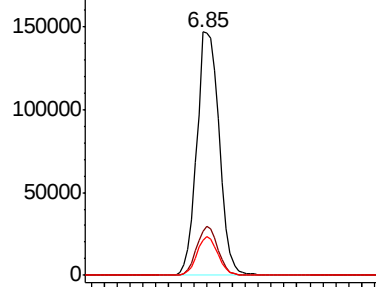
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. -0.01 min
 Lab File: VX004613.D
 Acq: 16 Sep 2018 04:52

Instrument :
 MSVOA_X
 ClientSampleId :
 BPS1-TT-MW302D-20180913

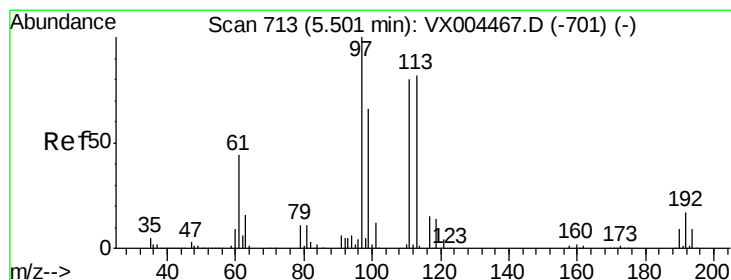
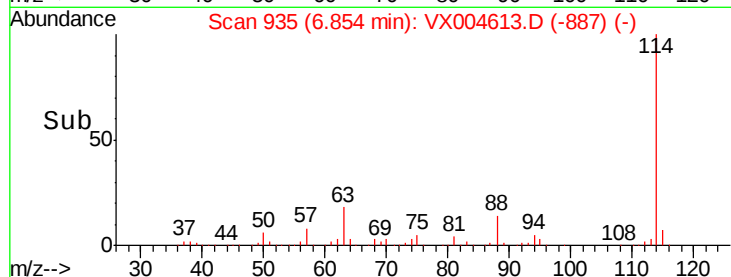
Tot Ion:114 Resp: 363404
 Ion Ratio Lower Upper
 114 100
 63 17.9 0.0 39.0
 88 14.4 0.0 30.4



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

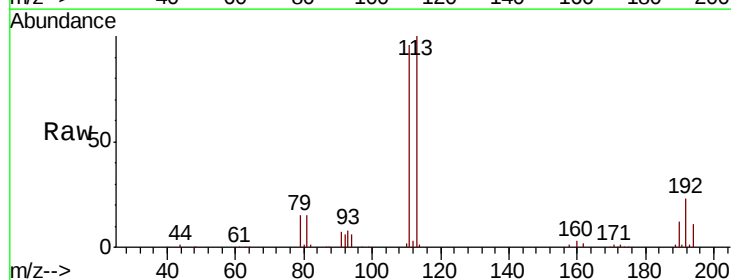


Time-->

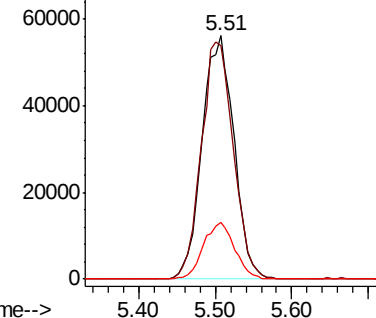


#35
 Dibromofluoromethane
 Concen: 48.59 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX004613.D
 Acq: 16 Sep 2018 04:52

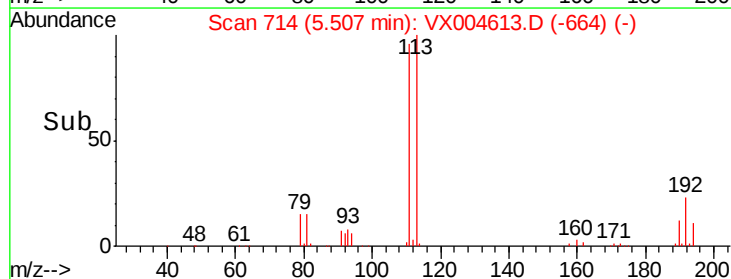
Tgt Ion:113 Resp: 161575
 Ion Ratio Lower Upper
 113 100
 111 98.1 82.4 123.6
 192 23.0 19.4 29.2

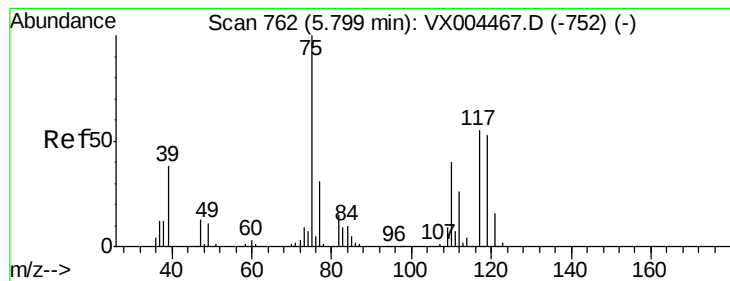


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V



Time-->





#36

1,1-Dichloropropene

Concen: 3.79 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX004613.D

Acq: 16 Sep 2018 04:52

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW302D-20180913

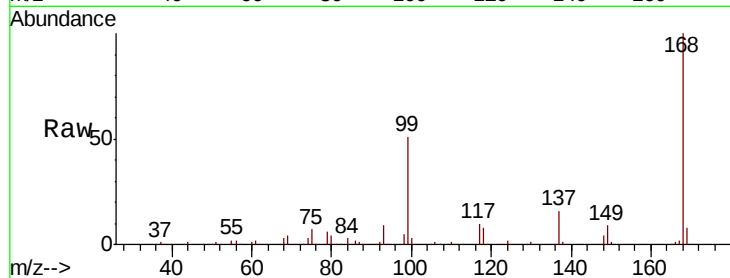
Tot Ion: 75 Resp: 16709

Ion Ratio Lower Upper

75 100

110 8.8 18.0 54.0#

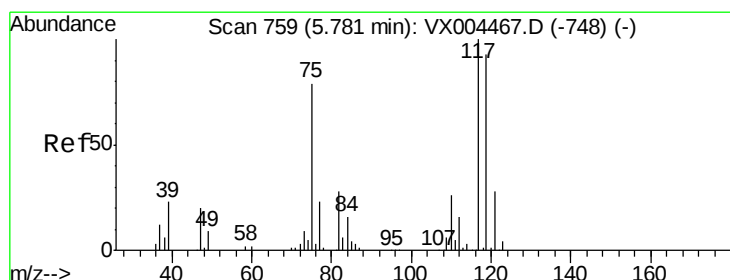
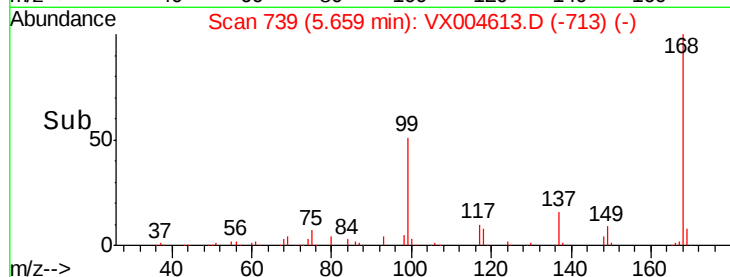
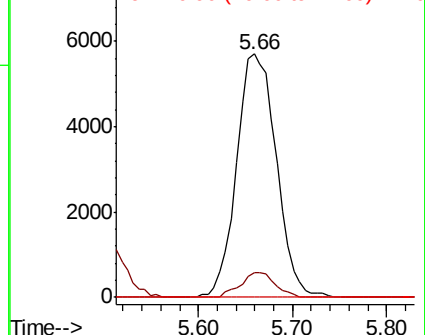
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 5.37 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX004613.D

Acq: 16 Sep 2018 04:52

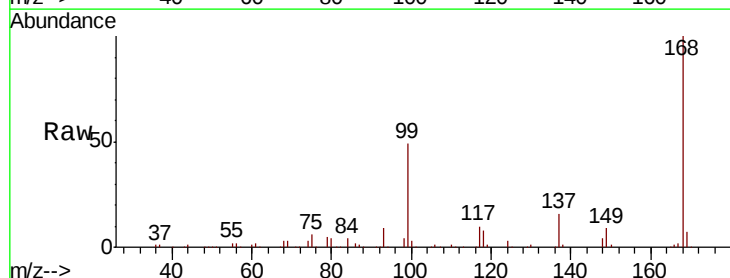
Tgt Ion: 117 Resp: 23144

Ion Ratio Lower Upper

117 100

119 6.7 78.8 118.2#

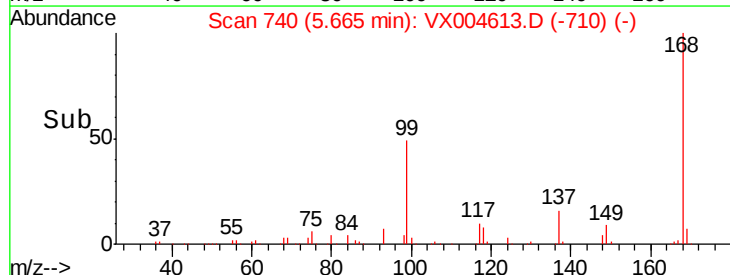
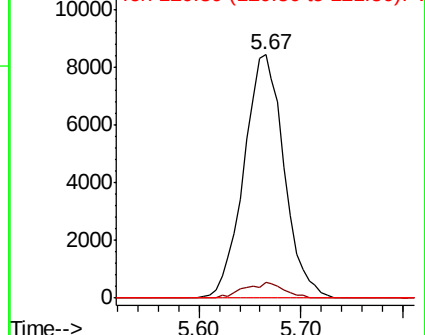
121 0.0 24.9 37.3#

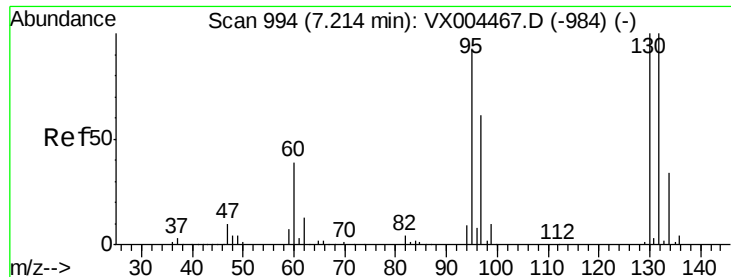


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 2.24 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX004613.D

Acq: 16 Sep 2018 04:52

Instrument :

MSVOA_X

ClientSampleId :

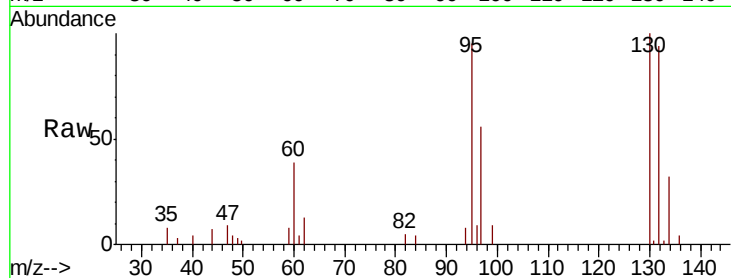
BPS1-TT-MW302D-20180913

Tot Ion:130 Resp: 7621

Ion Ratio Lower Upper

130 100

95 94.6 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.22

3000

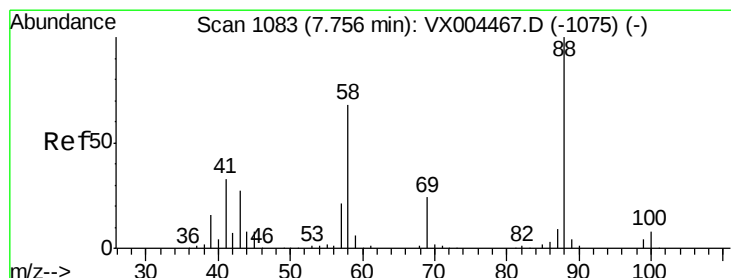
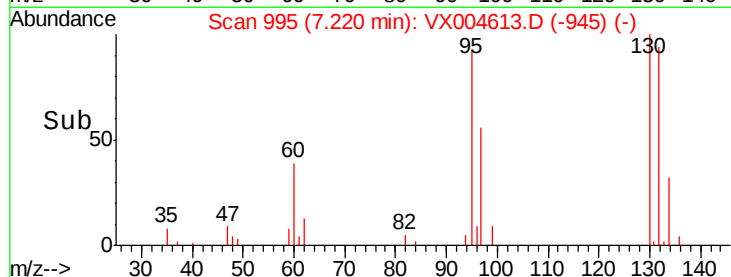
2000

1000

0

Time-->

7.15 7.20 7.25 7.30



#49

1,4-Dioxane

Concen: 1.70 ug/l

RT: 7.77 min Scan# 1085

Delta R.T. 0.01 min

Lab File: VX004613.D

Acq: 16 Sep 2018 04:52

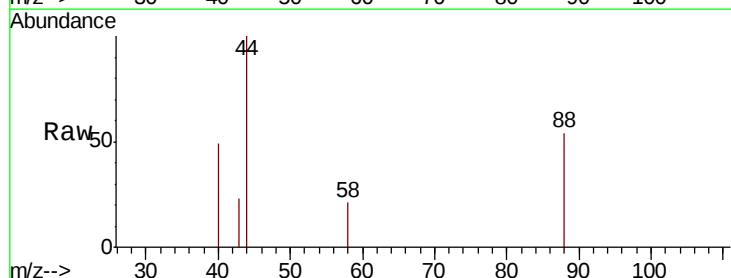
Tgt Ion: 88 Resp: 133

Ion Ratio Lower Upper

88 100

43 32.3 24.7 37.1

58 93.2 55.3 82.9#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

150

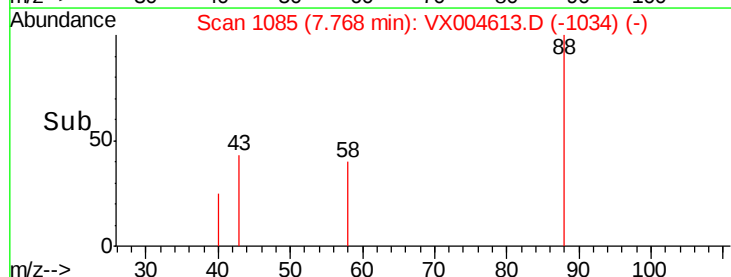
100

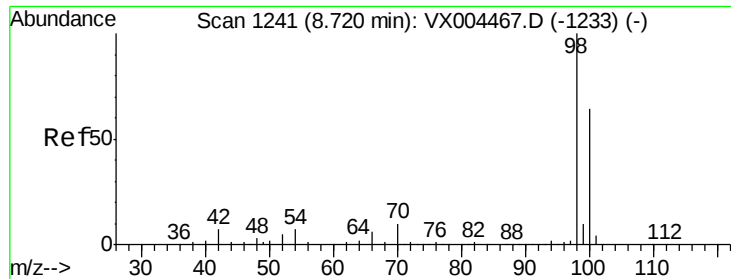
50

0

Time-->

7.74 7.76 7.78 7.80

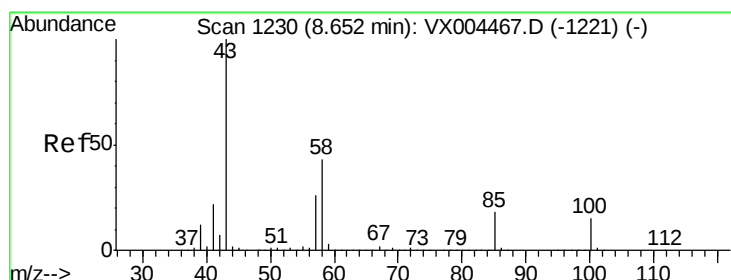
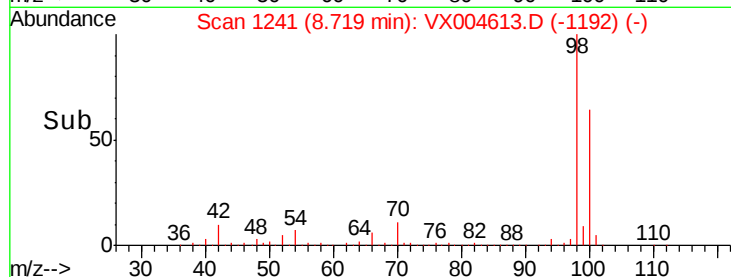
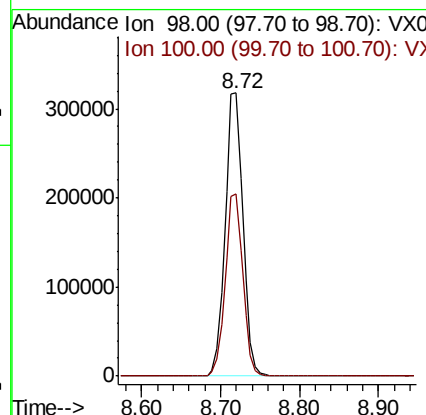
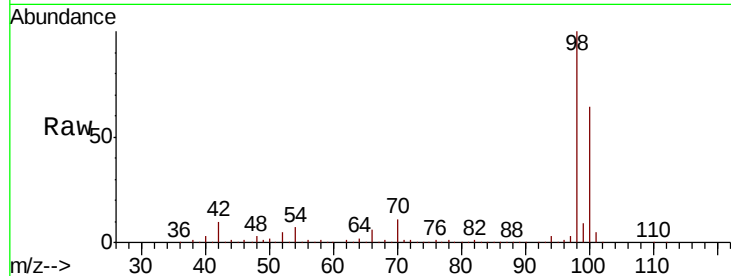




#50
Toluene-d8
Concen: 44.68 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VX004613.D
Acq: 16 Sep 2018 04:52

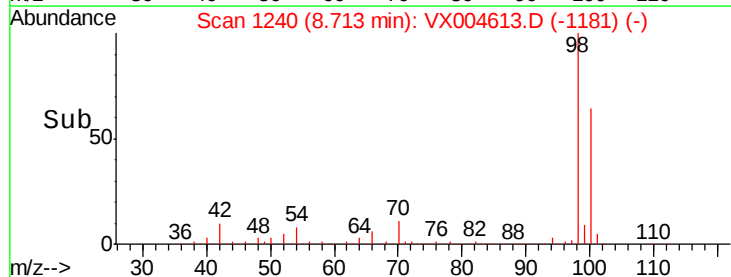
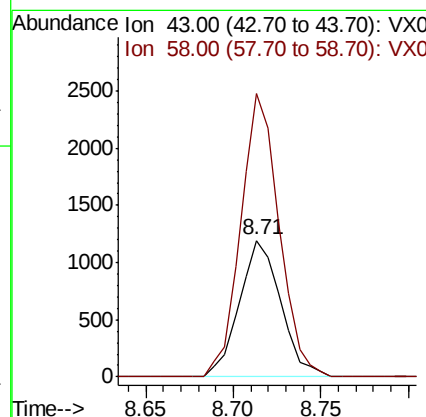
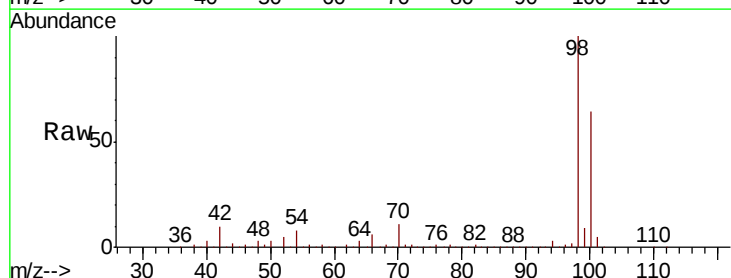
Instrument :
MSVOA_X
ClientSampleId :
BPS1-TT-MW302D-20180913

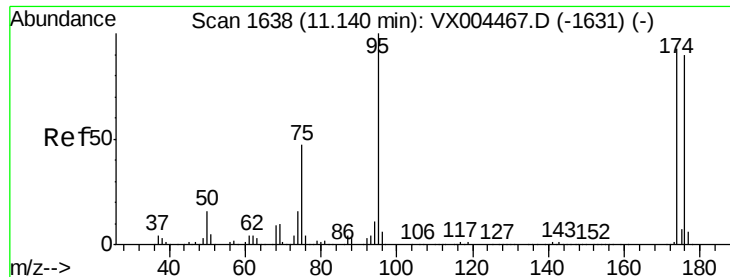
Tot Ion: 98 Resp: 498239
Ion Ratio Lower Upper
98 100
100 63.8 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 0.42 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.06 min
Lab File: VX004613.D
Acq: 16 Sep 2018 04:52

Tgt Ion: 43 Resp: 1961
Ion Ratio Lower Upper
43 100
58 192.6 33.1 49.7#





#62

4-Bromofluorobenzene

Concen: 43.88 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX004613.D

Acq: 16 Sep 2018 04:52

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW302D-20180913

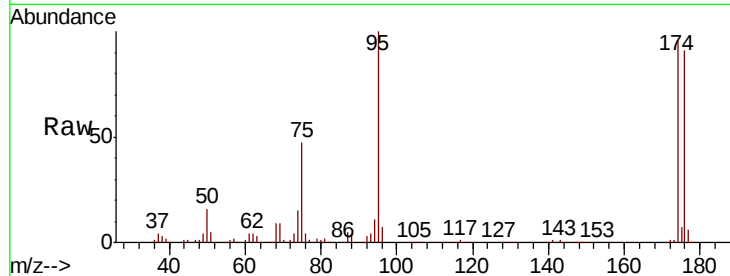
Tot Ion: 95 Resp: 174669

Ion Ratio Lower Upper

95 100

174 93.9 0.0 185.2

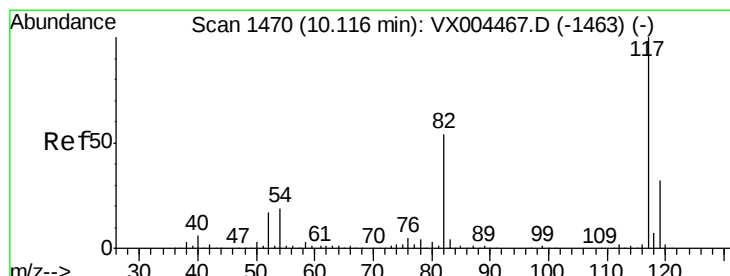
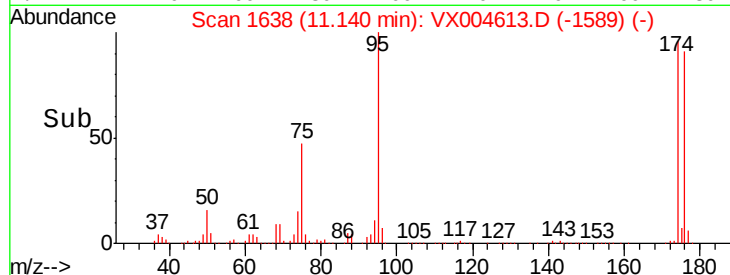
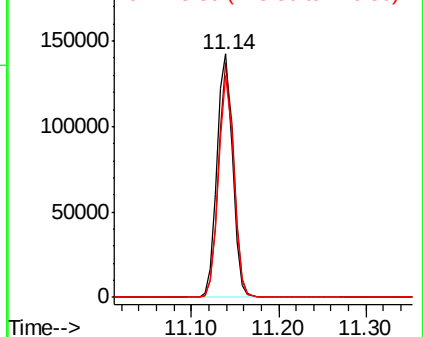
176 89.2 0.0 178.6



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# 1470

Delta R.T. -0.00 min

Lab File: VX004613.D

Acq: 16 Sep 2018 04:52

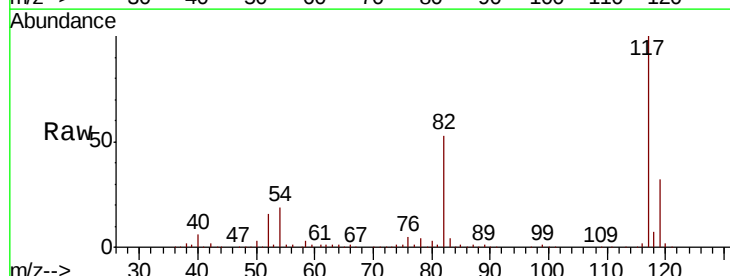
Tgt Ion: 117 Resp: 334098

Ion Ratio Lower Upper

117 100

82 53.4 47.8 71.6

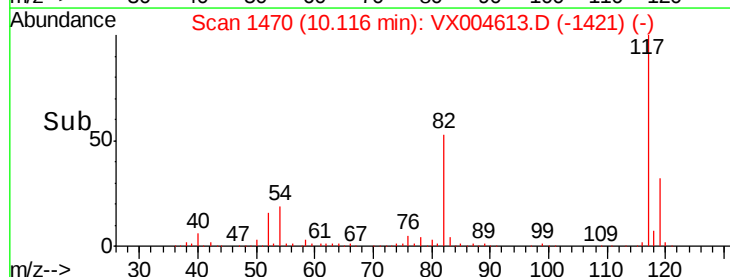
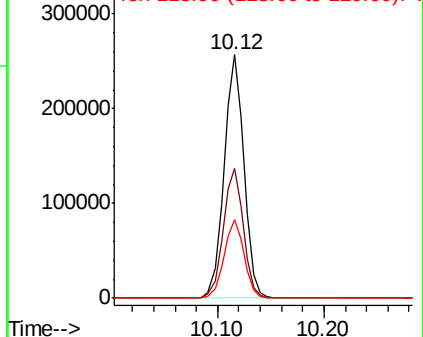
119 32.4 29.3 43.9

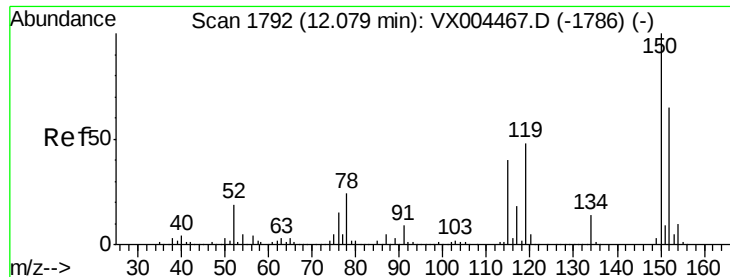


Abundance Ion 116.90 (116.60 to 117.60): V

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: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX004613.D

Acq: 16 Sep 2018 04:52

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW302D-20180913

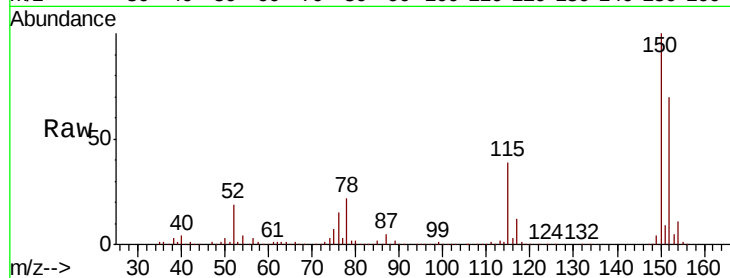
Tot Ion:152 Resp: 228281

Ion Ratio Lower Upper

152 100

115 54.1 39.0 117.0

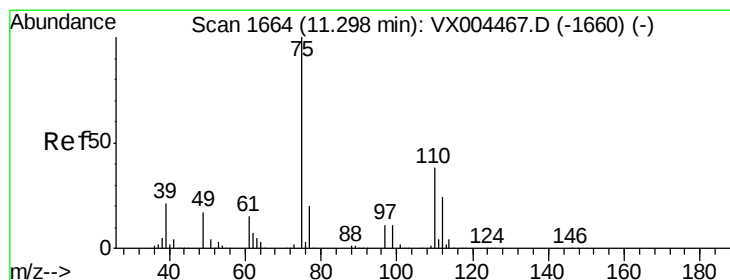
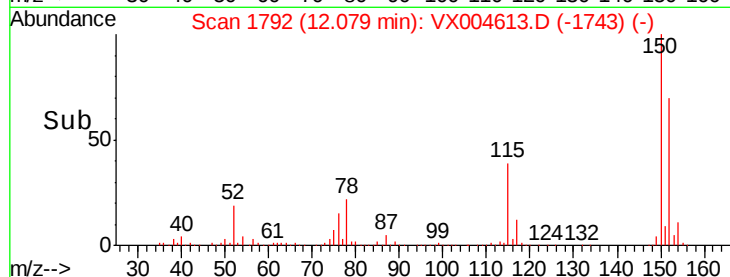
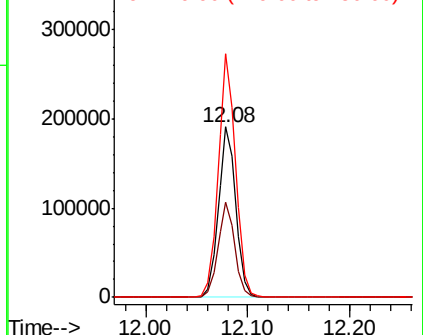
150 142.5 0.0 351.0



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: 17.86 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004613.D

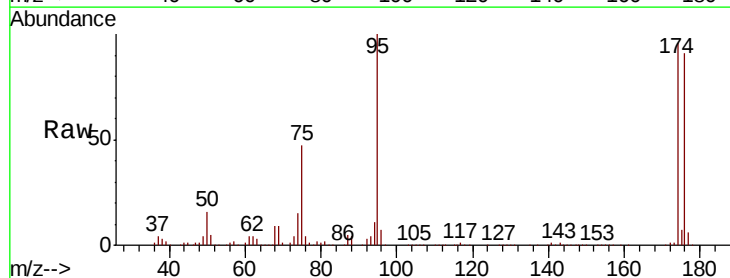
Acq: 16 Sep 2018 04:52

Tgt Ion: 75 Resp: 82030

Ion Ratio Lower Upper

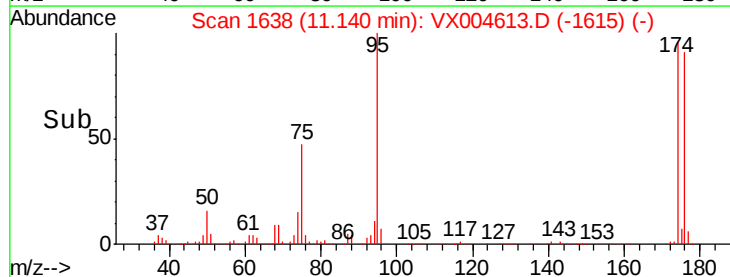
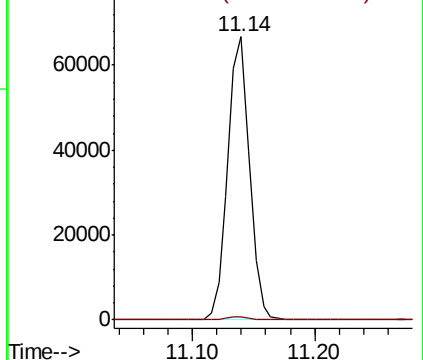
75 100

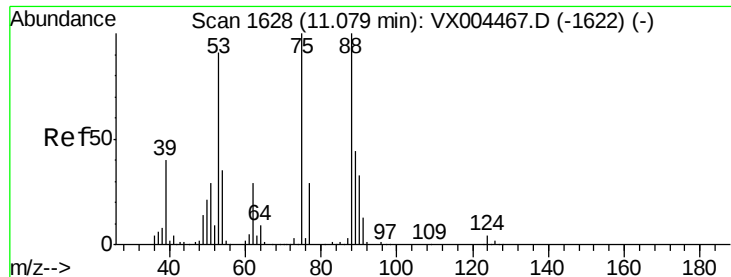
77 1.3 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 56.93 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004613.D

Acq: 16 Sep 2018 04:52

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW302D-20180913

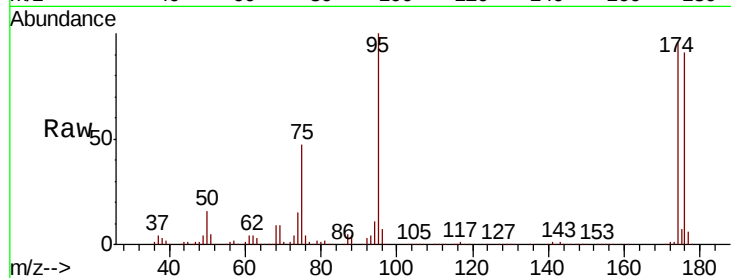
Tot Ion: 75 Resp: 82030

Ion Ratio Lower Upper

75 100

53 0.1 80.1 120.1#

89 0.0 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

