

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091518\
 Data File : VX004612.D
 Acq On : 16 Sep 2018 04:26
 Operator : JC/MD
 Sample : J4913-15
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BPS1-TT-MW306D-20180913

Quant Time: Sep 17 08:46:34 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	255055	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	350495	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	329099	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	220492	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	162617	49.45	ug/l	0.00
Spiked Amount			Recovery	=	98.90%	
35) Dibromofluoromethane	5.50	113	155701	48.55	ug/l	0.00
Spiked Amount			Recovery	=	97.10%	
50) Toluene-d8	8.71	98	483635	44.96	ug/l	0.00
Spiked Amount			Recovery	=	89.92%	
62) 4-Bromofluorobenzene	11.14	95	173413	45.17	ug/l	0.00
Spiked Amount			Recovery	=	90.34%	

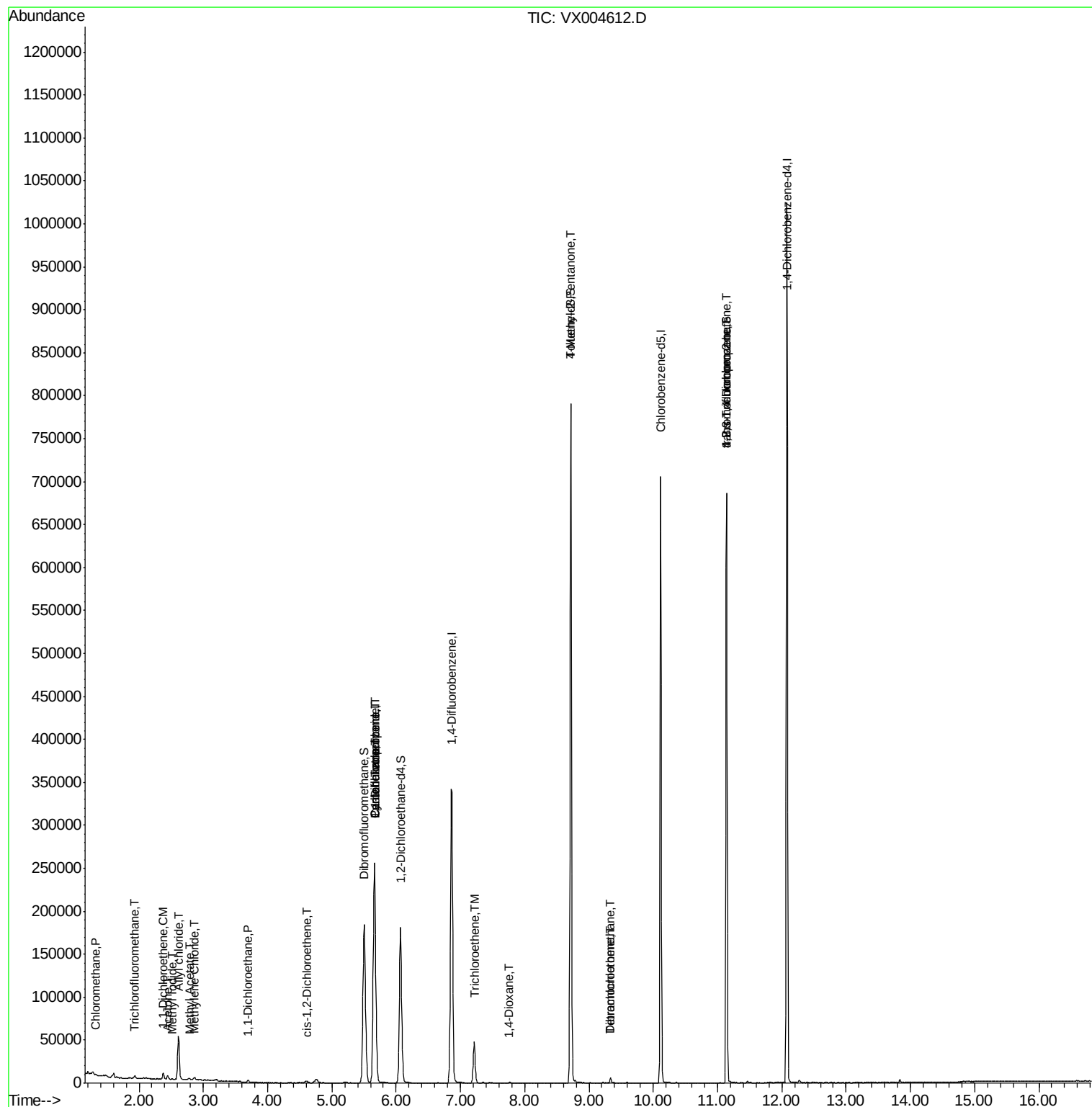
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	802	0.24	ug/l	97
5) Bromomethane	1.65	94	497	Below Cal	#	63
7) Trichlorofluoromethane	1.93	101	2300	0.51	ug/l	90
10) Methyl Iodide	2.52	142	265	4.33	ug/l	# 68
12) 1,1-Dichloroethene	2.38	96	2523	0.95	ug/l	# 79
14) Allyl chloride	2.61	41	4849	0.89	ug/l	# 67
16) Acetone	2.45	43	4043	2.52	ug/l	89
18) Methyl Acetate	2.78	43	1181	0.26	ug/l	94
20) Methylene Chloride	2.85	84	883	0.27	ug/l	# 86
24) 1,1-Dichloroethane	3.70	63	2760	0.50	ug/l	# 91
27) cis-1,2-Dichloroethene	4.61	96	1179	0.36	ug/l	97
31) Cyclohexane	5.67	56	4089	0.86	ug/l	# 1
36) 1,1-Dichloropropene	5.66	75	17008	4.00	ug/l	# 49
38) Carbon Tetrachloride	5.67	117	22209	5.34	ug/l	# 17
44) Trichloroethene	7.21	130	19667	6.00	ug/l	95
49) 1,4-Dioxane	7.76	88	297	3.94	ug/l	94
51) 4-Methyl-2-Pentanone	8.71	43	1939	0.43	ug/l	# 1
60) Dibromochloromethane	9.34	129	1123	0.37	ug/l	# 11
64) Tetrachloroethene	9.34	164	1138	0.28	ug/l	92
76) 1,2,3-Trichloropropane	11.14	75	81895	18.46	ug/l	# 37
81) trans-1,4-Dichloro-2-buten	11.14	75	81895	58.84	ug/l	# 10

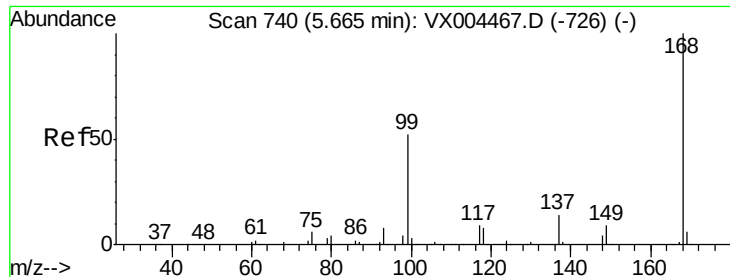
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Sep 12 02:17:23 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX004612.D

Acq: 16 Sep 2018 04:26

Instrument :

MSVOA_X

ClientSampleId :

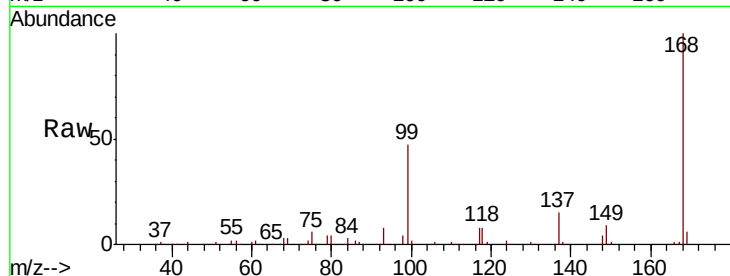
BPS1-TT-MW306D-20180913

Tot Ion:168 Resp: 255055

Ion Ratio Lower Upper

168 100

99 47.2 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

100000

80000

60000

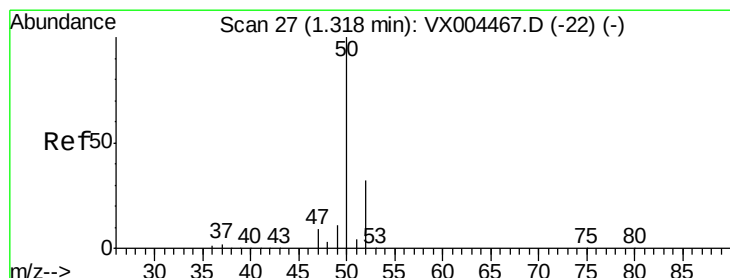
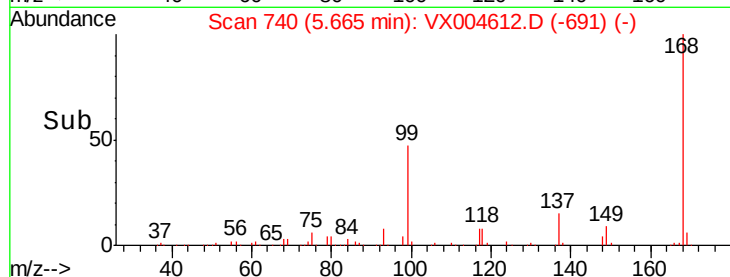
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.24 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX004612.D

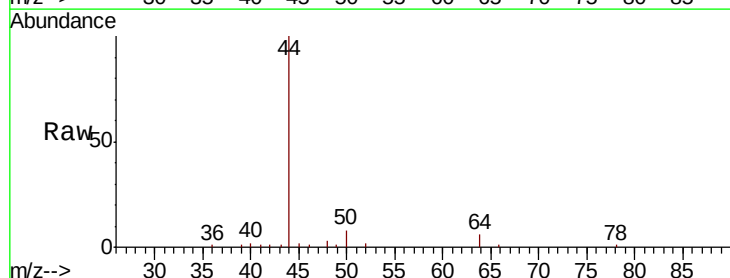
Acq: 16 Sep 2018 04:26

Tgt Ion: 50 Resp: 802

Ion Ratio Lower Upper

50 100

52 30.9 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

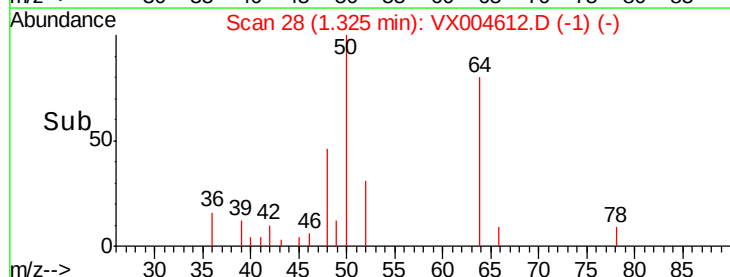
400

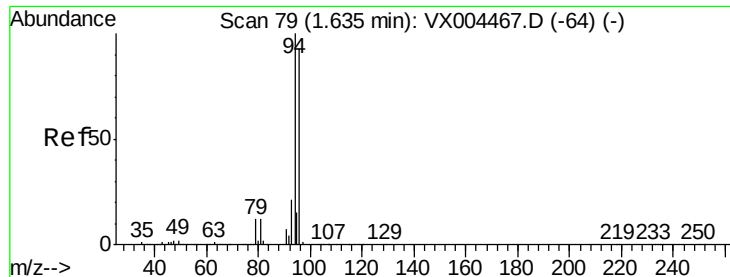
200

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: VX004612.D

Acq: 16 Sep 2018 04:26

Instrument :

MSVOA_X

ClientSampleId :

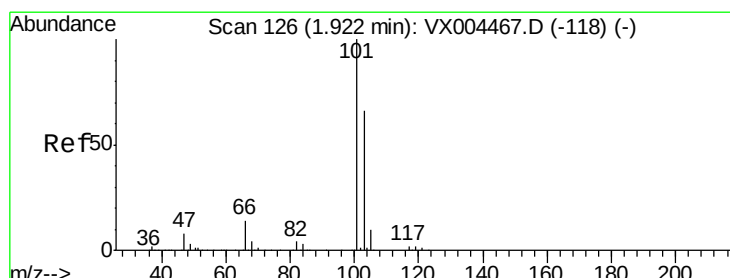
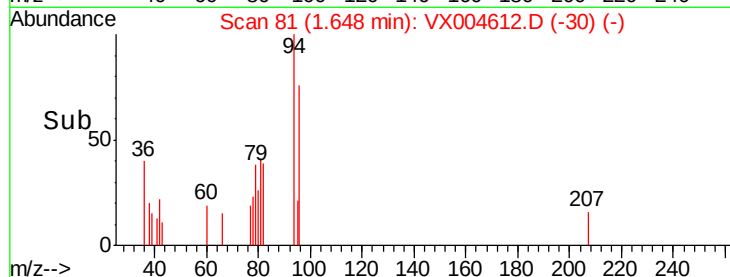
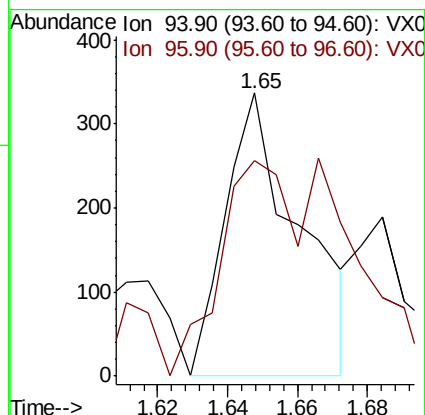
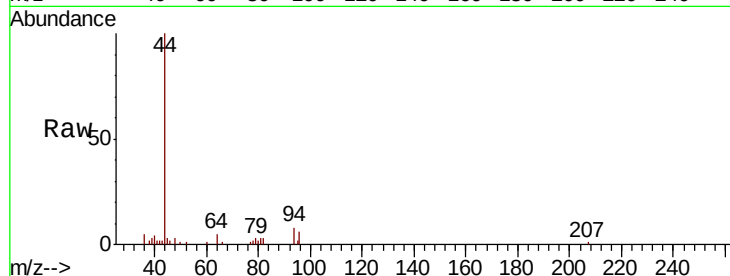
BPS1-TT-MW306D-20180913

Tot Ion: 94 Resp: 497

Ion Ratio Lower Upper

94 100

96 57.6 74.5 111.7#



#7

Trichlorofluoromethane

Concen: 0.51 ug/l

RT: 1.93 min Scan# 127

Delta R.T. 0.01 min

Lab File: VX004612.D

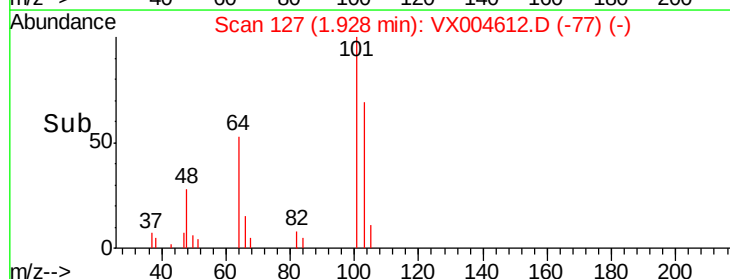
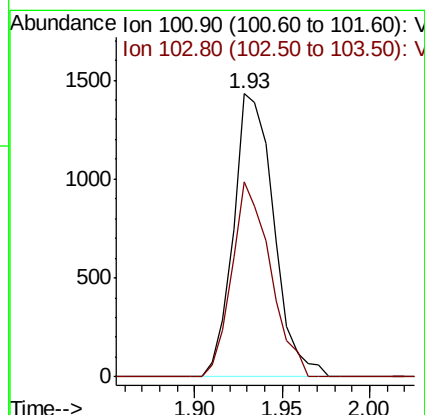
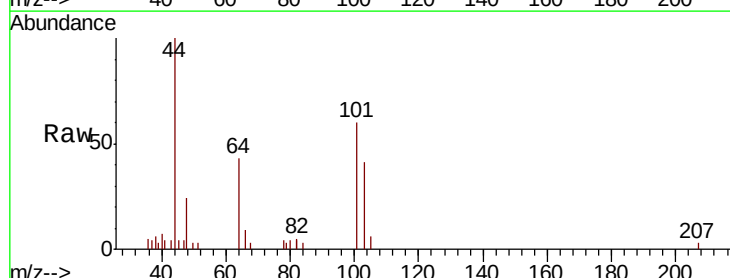
Acq: 16 Sep 2018 04:26

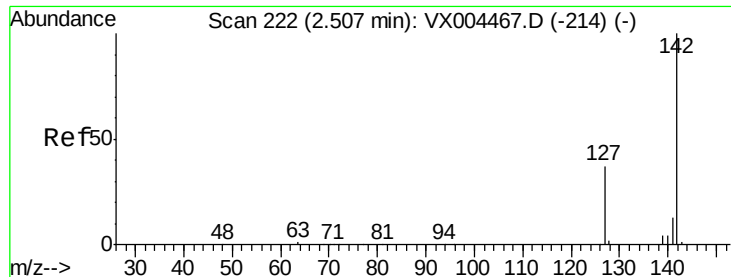
Tgt Ion:101 Resp: 2300

Ion Ratio Lower Upper

101 100

103 68.8 48.9 73.3

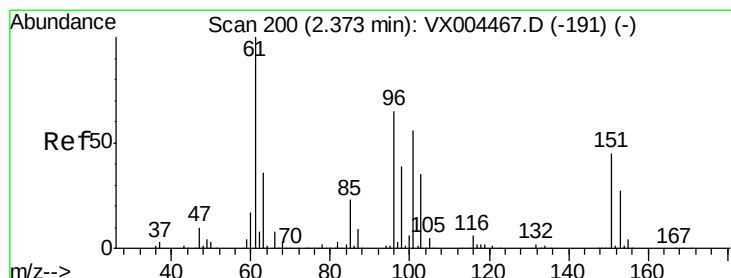
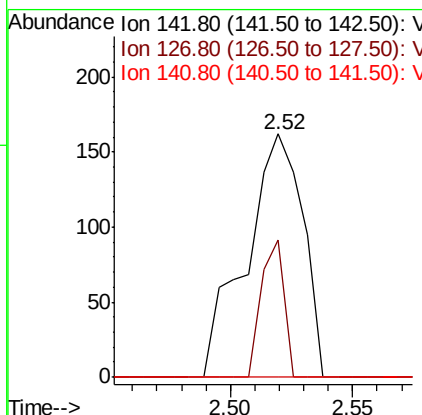
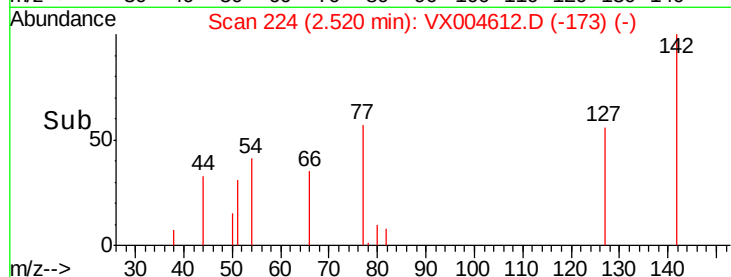
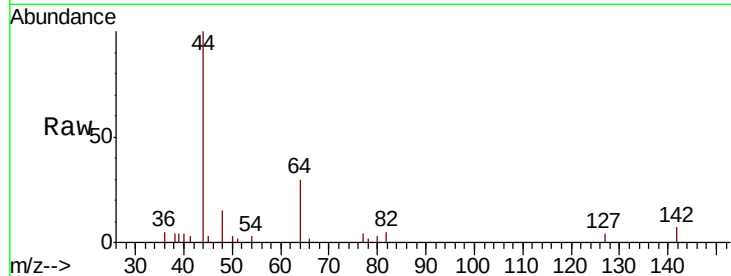




#10
Methvl Iodide
Concen: 4.33 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX004612.D
Acq: 16 Sep 2018 04:26

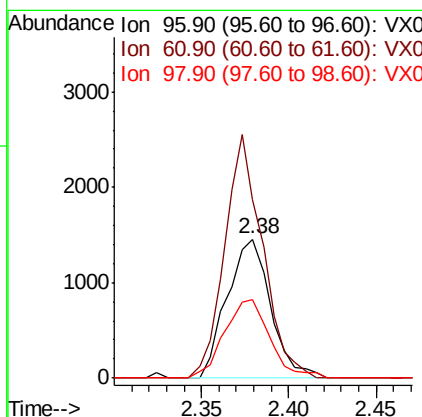
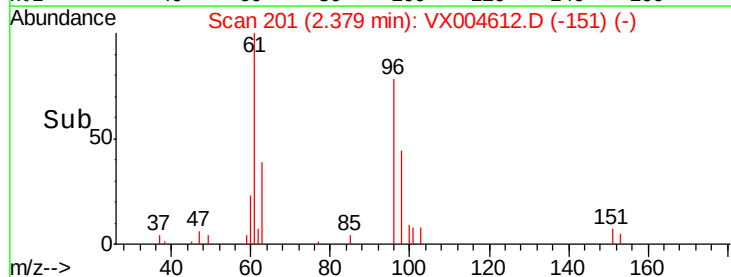
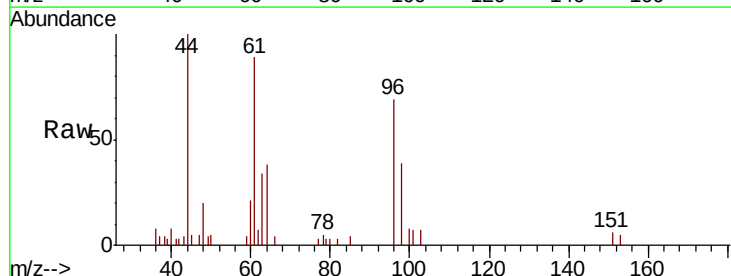
Instrument :
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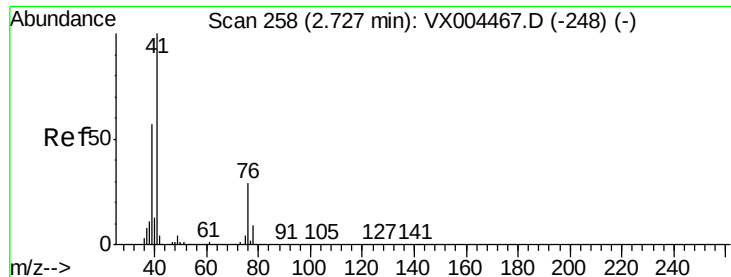
Tot Ion:142 Resp: 265
Ion Ratio Lower Upper
142 100
127 22.6 33.8 50.6#
141 0.0 11.4 17.0#



#12
1,1-Dichloroethene
Concen: 0.95 ug/l
RT: 2.38 min Scan# 201
Delta R.T. 0.01 min
Lab File: VX004612.D
Acq: 16 Sep 2018 04:26

Tgt Ion: 96 Resp: 2523
Ion Ratio Lower Upper
96 100
61 128.6 128.8 193.2#
98 56.3 52.2 78.2





#14

Allvl chloride

Concen: 0.89 ug/l

RT: 2.61 min Scan# 239

Delta R.T. -0.12 min

Lab File: VX004612.D

Acq: 16 Sep 2018 04:26

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW306D-20180913

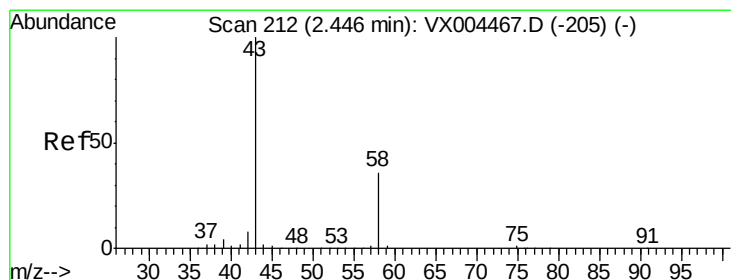
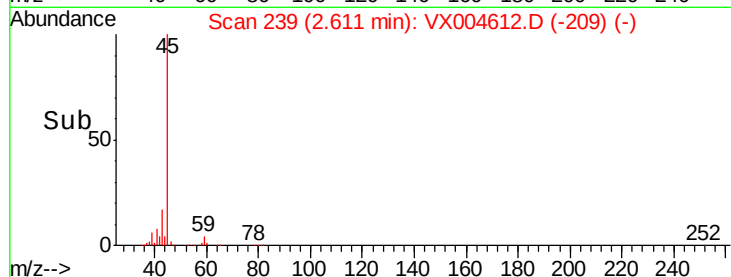
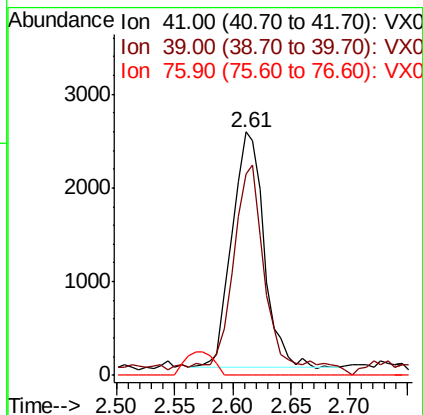
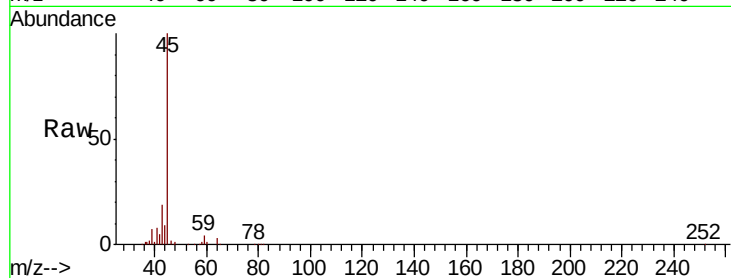
Tot Ion: 41 Resp: 4849

Ion Ratio Lower Upper

41 100

39 75.0 48.9 73.3#

76 0.0 26.7 40.1#



#16

Acetone

Concen: 2.52 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX004612.D

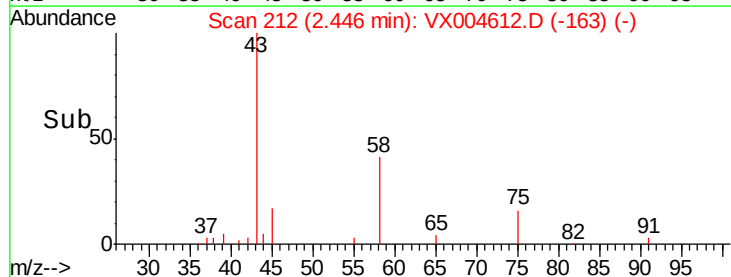
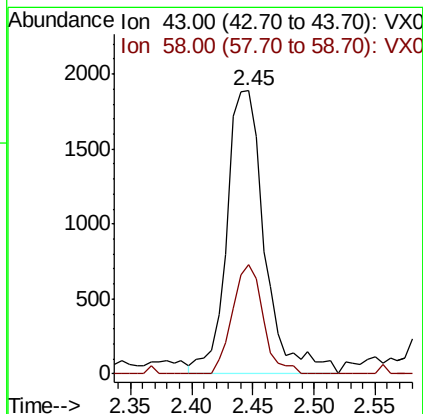
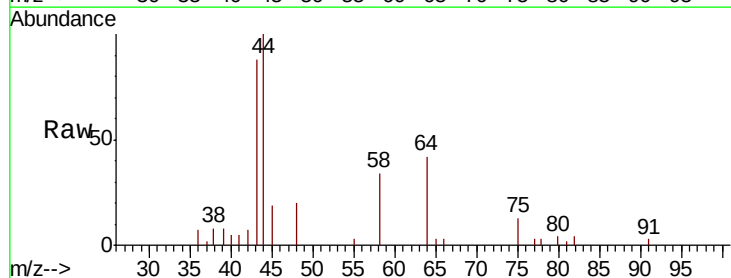
Acq: 16 Sep 2018 04:26

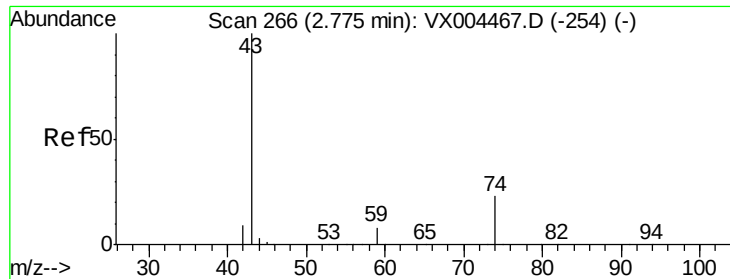
Tgt Ion: 43 Resp: 4043

Ion Ratio Lower Upper

43 100

58 38.8 26.2 39.4

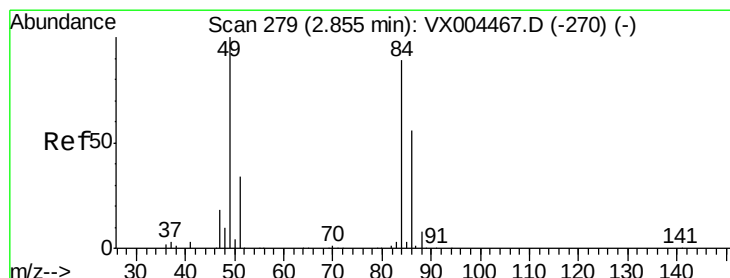
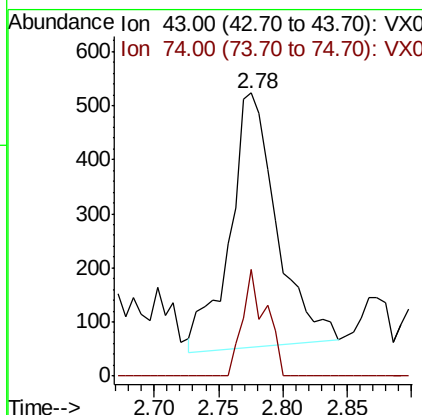
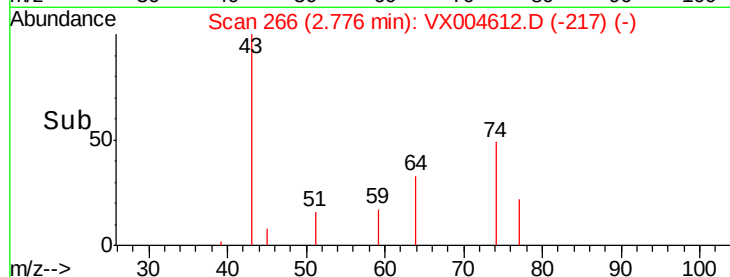
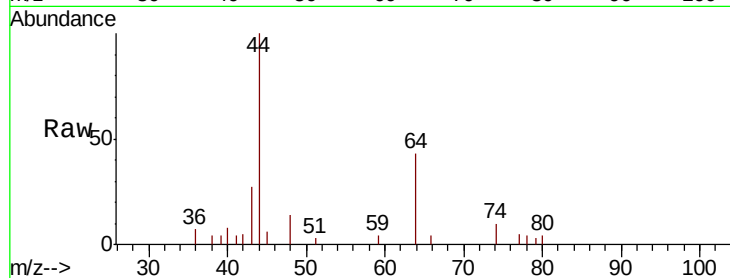




#18
Methyl Acetate
Concen: 0.26 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX004612.D
Acq: 16 Sep 2018 04:26

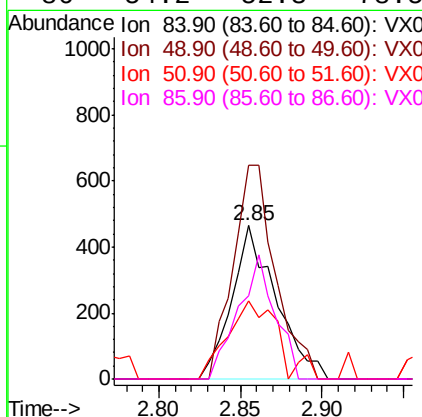
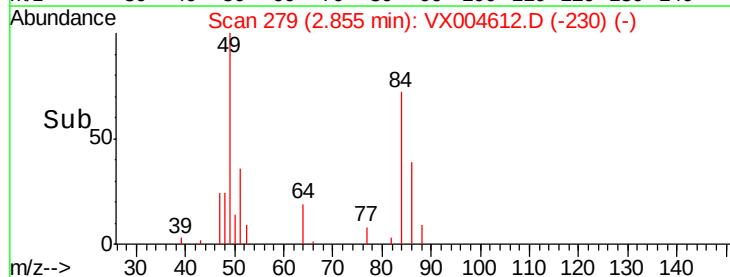
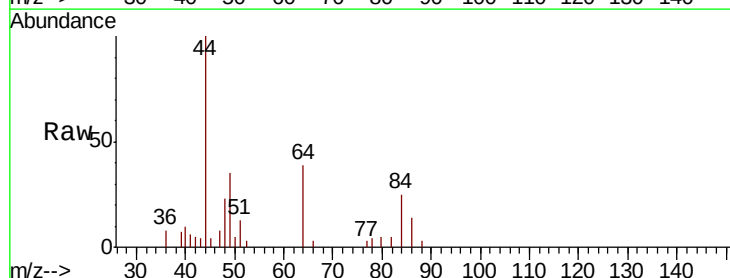
Instrument :
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ClientSampleId :
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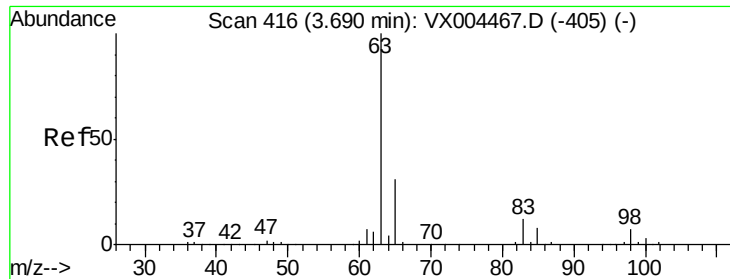
Tot Ion: 43 Resp: 1181
Ion Ratio Lower Upper
43 100
74 21.1 19.4 29.2



#20
Methylene Chloride
Concen: 0.27 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX004612.D
Acq: 16 Sep 2018 04:26

Tgt Ion: 84 Resp: 883
Ion Ratio Lower Upper
84 100
49 139.1 101.2 151.8
51 50.5 29.5 44.3#
86 54.2 52.3 78.5





#24

1,1-Dichloroethane

Concen: 0.50 ug/l

RT: 3.70 min Scan# 417

Delta R.T. 0.01 min

Lab File: VX004612.D

Acq: 16 Sep 2018 04:26

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW306D-20180913

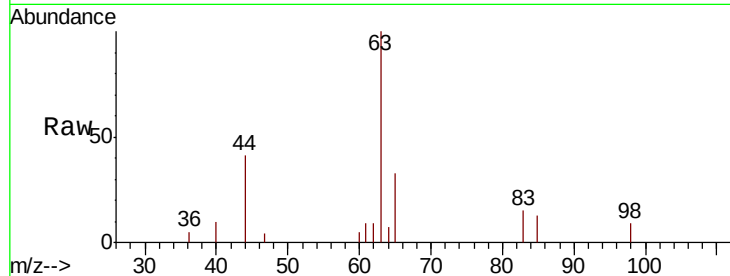
Tot Ion: 63 Resp: 2760

Ion Ratio Lower Upper

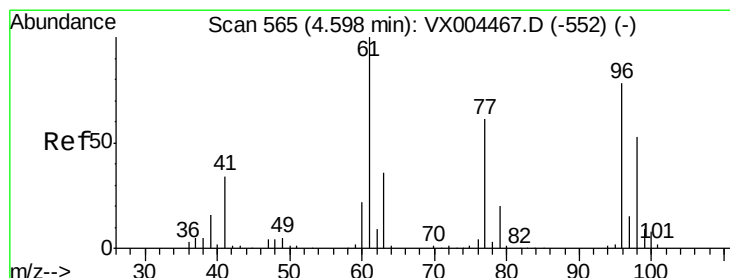
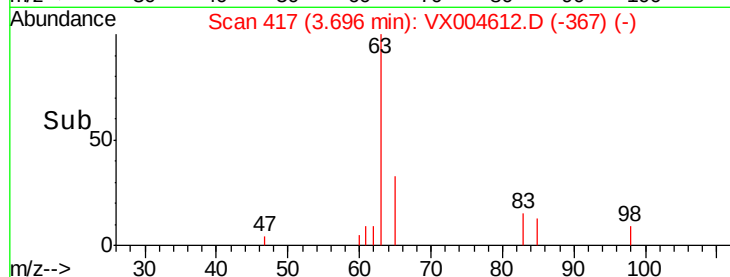
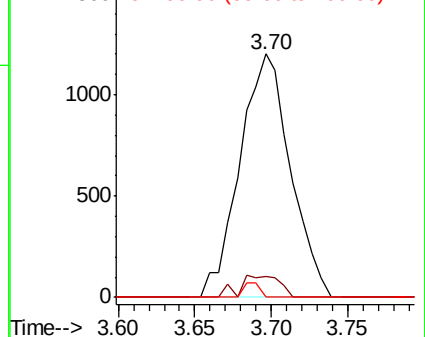
63 100

98 8.7 3.5 10.4

100 0.0 2.4 7.1#



Abundance Ion 62.90 (62.60 to 63.60): VX0
Ion 97.90 (97.60 to 98.60): VX0
Ion 99.90 (99.60 to 100.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 0.36 ug/l

RT: 4.61 min Scan# 567

Delta R.T. 0.01 min

Lab File: VX004612.D

Acq: 16 Sep 2018 04:26

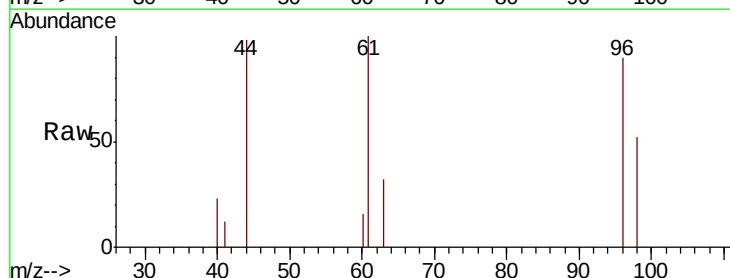
Tgt Ion: 96 Resp: 1179

Ion Ratio Lower Upper

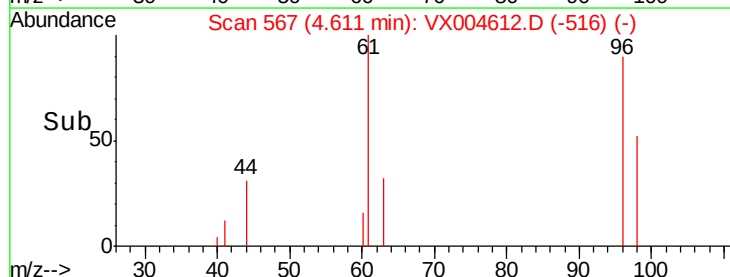
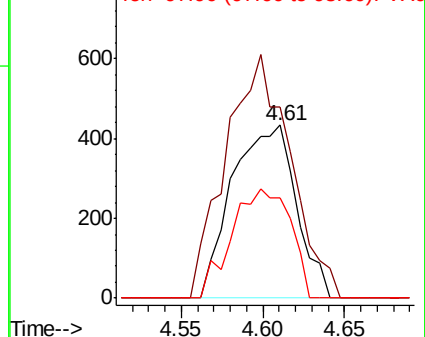
96 100

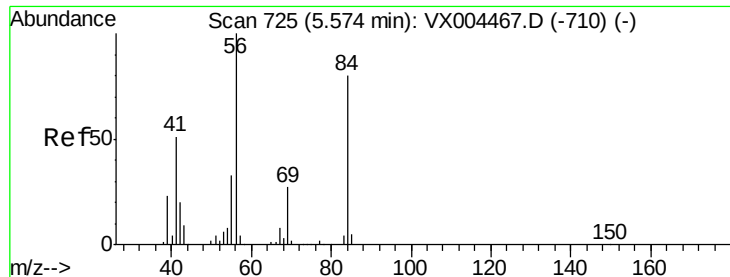
61 142.3 0.0 282.6

98 58.0 0.0 130.2



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

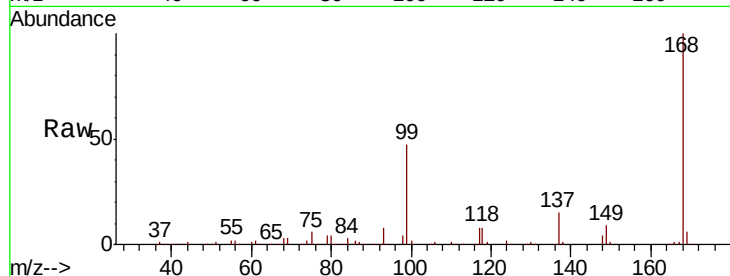




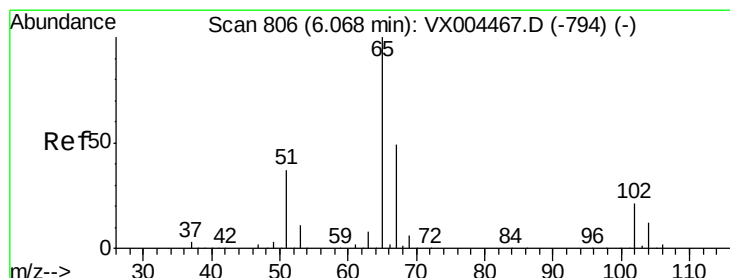
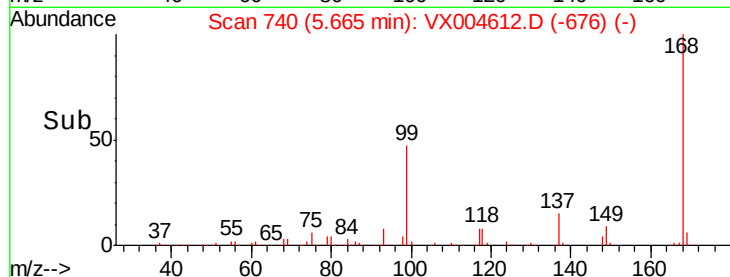
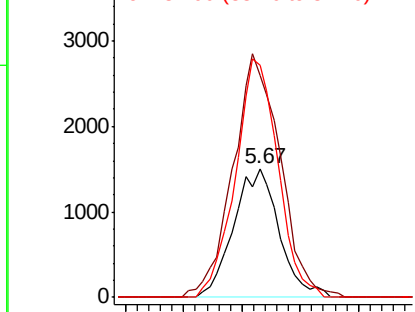
#31
Cyclohexane
Concen: 0.86 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX004612.D
Acq: 16 Sep 2018 04:26

Instrument :
MSVOA_X
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Tot Ion: 56 Resp: 4089
Ion Ratio Lower Upper
56 100
69 168.2 25.4 38.2#
84 180.4 71.4 107.2#

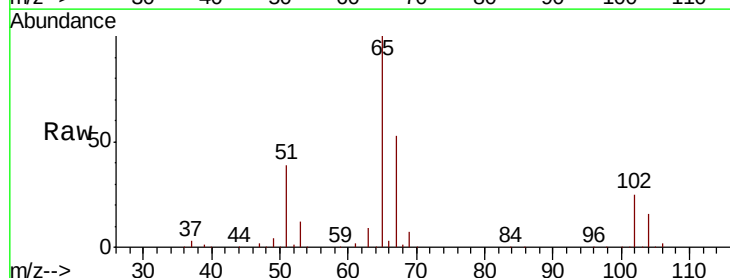


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

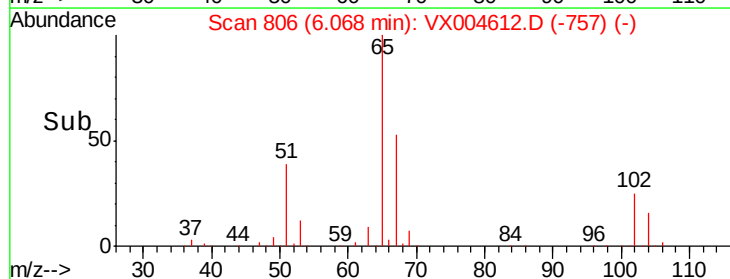
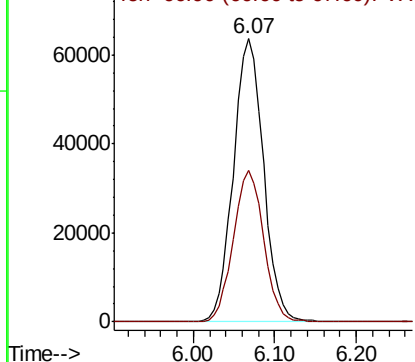


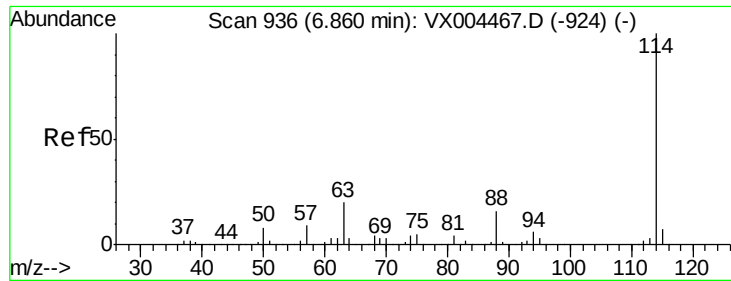
#33
1,2-Dichloroethane-d4
Concen: 49.45 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX004612.D
Acq: 16 Sep 2018 04:26

Tgt Ion: 65 Resp: 162617
Ion Ratio Lower Upper
65 100
67 53.6 0.0 106.8



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

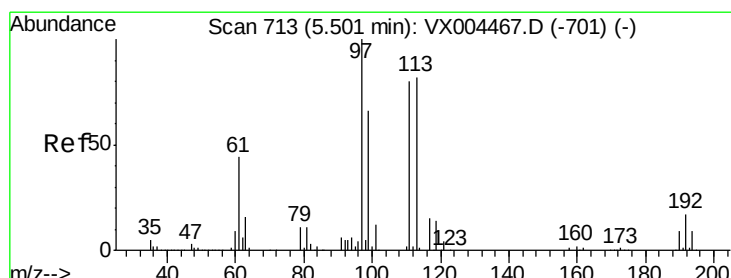
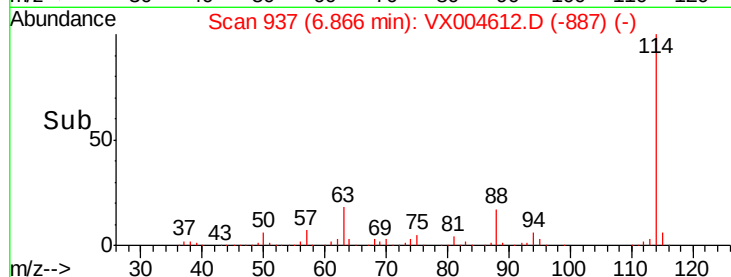
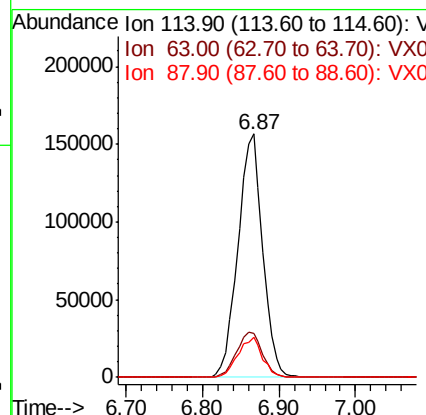
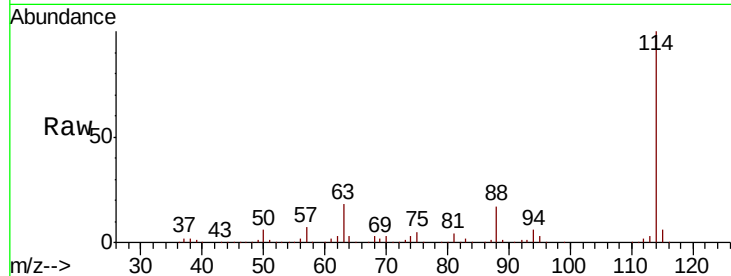




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 937
 Delta R.T. 0.01 min
 Lab File: VX004612.D
 Acq: 16 Sep 2018 04:26

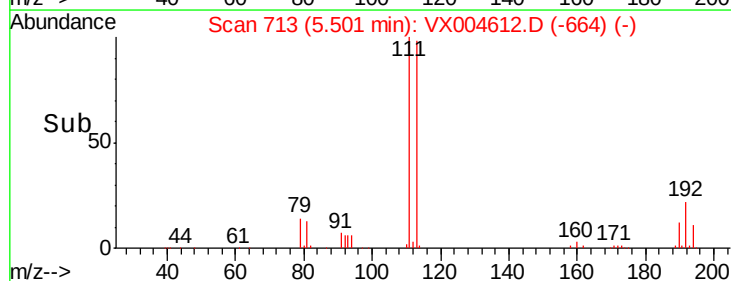
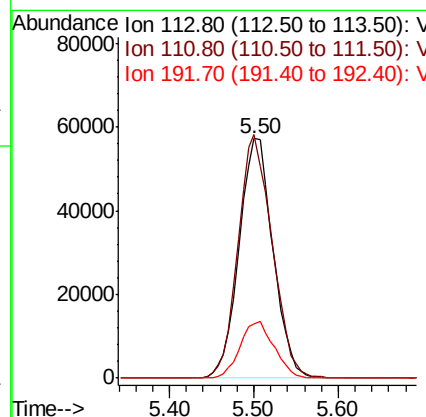
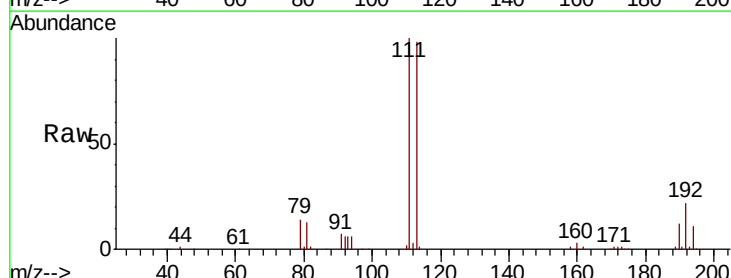
Instrument :
 MSVOA_X
 ClientSampleId :
 BPS1-TT-MW306D-20180913

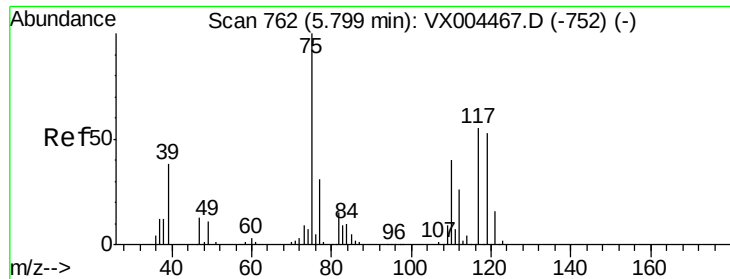
Tot Ion:114 Resp: 350495
 Ion Ratio Lower Upper
 114 100
 63 17.9 0.0 39.0
 88 16.6 0.0 30.4



#35
 Dibromofluoromethane
 Concen: 48.55 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX004612.D
 Acq: 16 Sep 2018 04:26

Tgt Ion:113 Resp: 155701
 Ion Ratio Lower Upper
 113 100
 111 101.9 82.4 123.6
 192 23.7 19.4 29.2

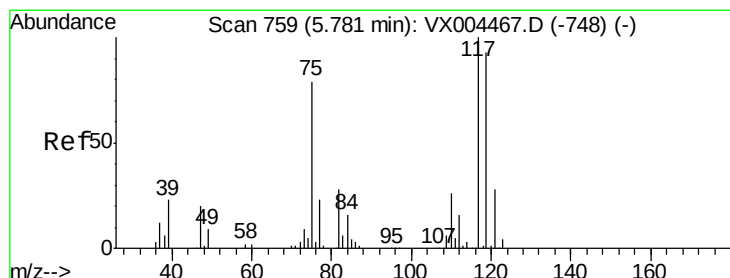
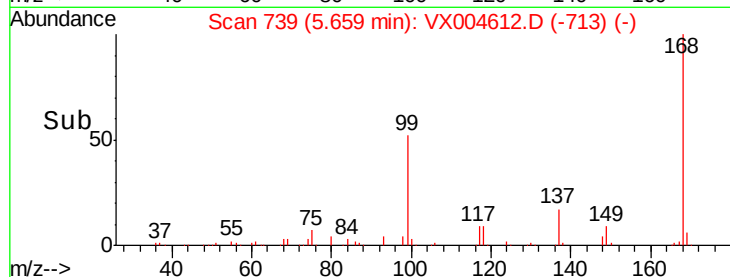
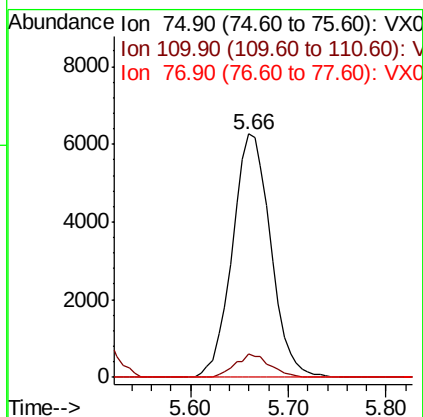
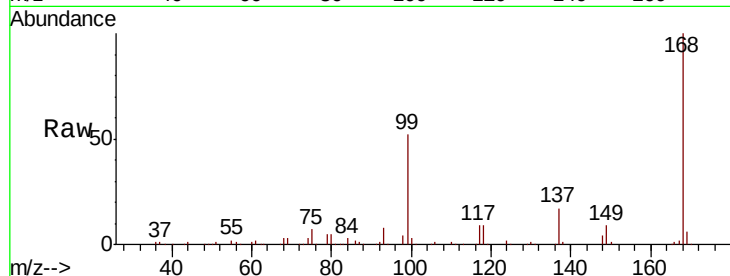




#36
 1,1-Dichloropropene
 Concen: 4.00 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX004612.D
 Acq: 16 Sep 2018 04:26

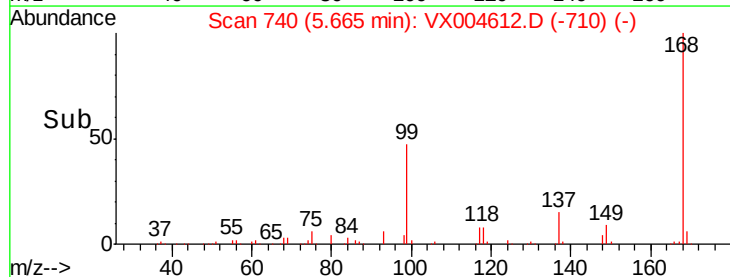
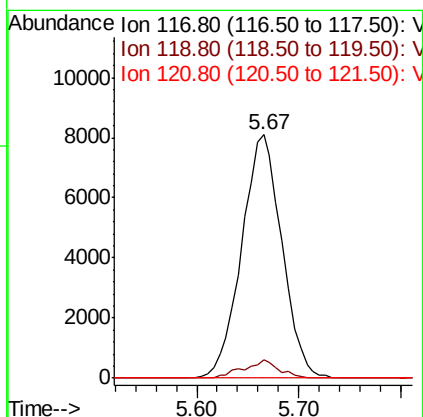
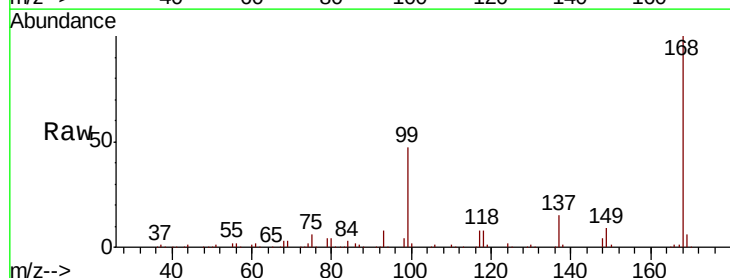
Instrument :
 MSVOA_X
 ClientSampleId :
 BPS1-TT-MW306D-20180913

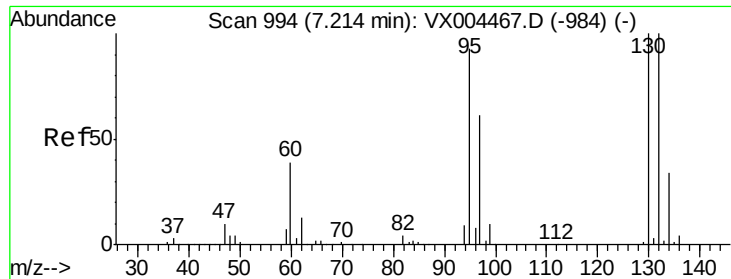
Tot Ion: 75 Resp: 17008
 Ion Ratio Lower Upper
 75 100
 110 8.8 18.0 54.0#
 77 0.0 24.6 36.8#



#38
 Carbon Tetrachloride
 Concen: 5.34 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX004612.D
 Acq: 16 Sep 2018 04:26

Tgt Ion: 117 Resp: 22209
 Ion Ratio Lower Upper
 117 100
 119 7.6 78.8 118.2#
 121 0.0 24.9 37.3#





#44

Trichloroethene

Concen: 6.00 ug/l

RT: 7.21 min Scan# 993

Delta R.T. -0.01 min

Lab File: VX004612.D

Acq: 16 Sep 2018 04:26

Instrument :

MSVOA_X

ClientSampleId :

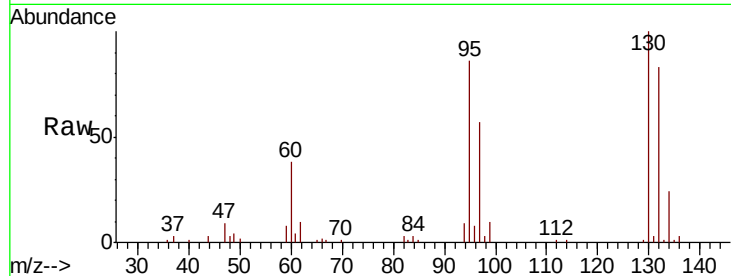
BPS1-TT-MW306D-20180913

Tot Ion:130 Resp: 19667

Ion Ratio Lower Upper

130 100

95 86.1 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

10000

8000

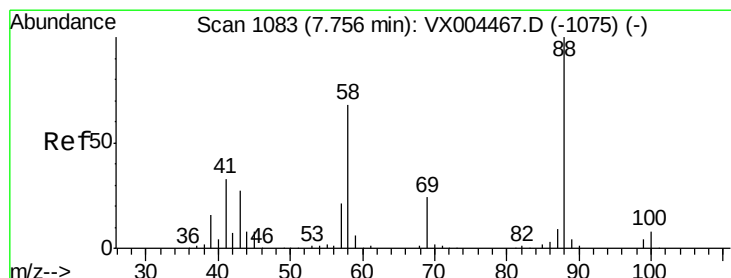
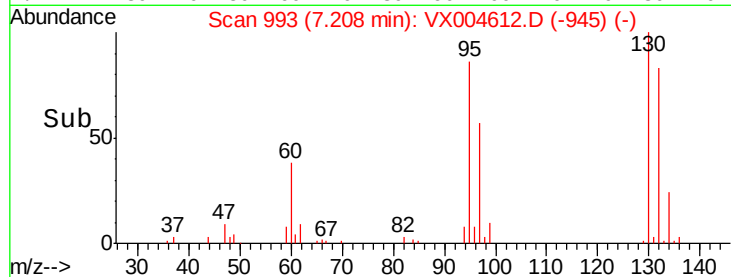
6000

4000

2000

0

Time--> 7.10 7.15 7.20 7.25 7.30



#49

1,4-Dioxane

Concen: 3.94 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.00 min

Lab File: VX004612.D

Acq: 16 Sep 2018 04:26

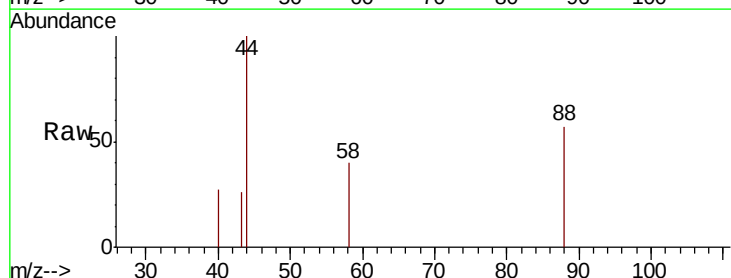
Tgt Ion: 88 Resp: 297

Ion Ratio Lower Upper

88 100

43 36.4 24.7 37.1

58 65.7 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

250

200

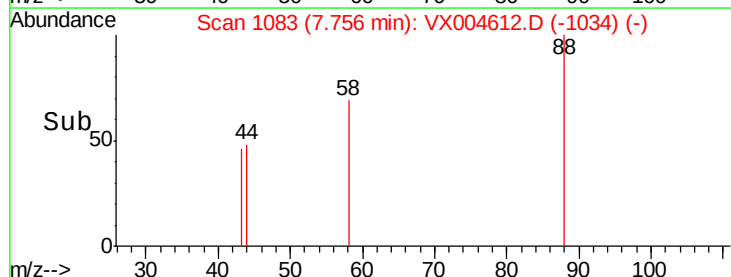
150

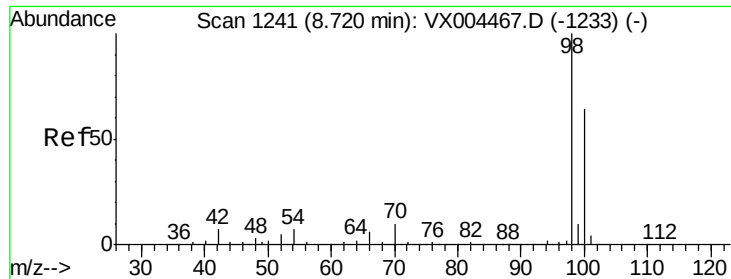
100

50

0

Time--> 7.75 7.80

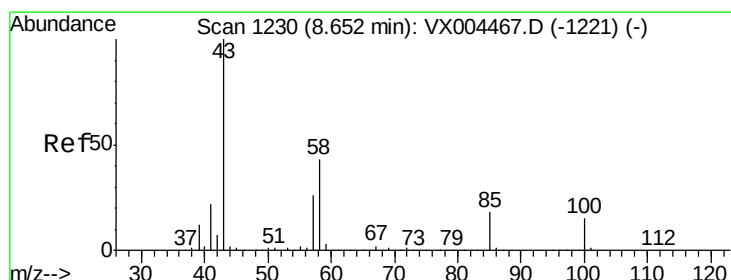
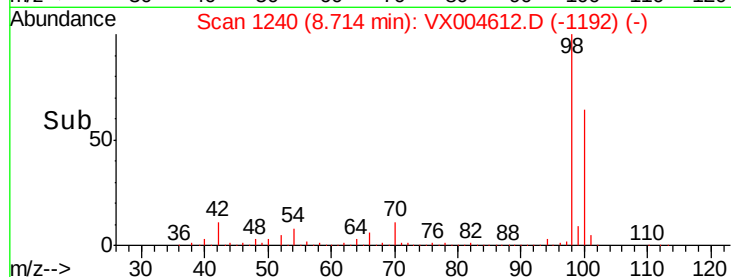
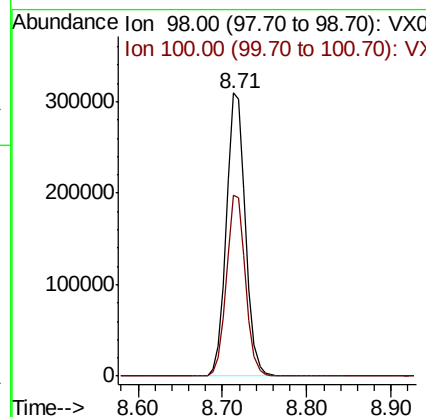
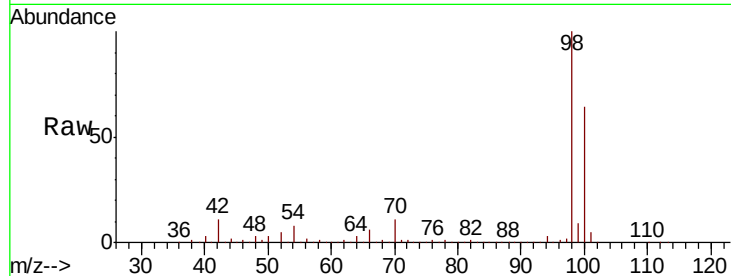




#50
Toluene-d8
Concen: 44.96 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.01 min
Lab File: VX004612.D
Acq: 16 Sep 2018 04:26

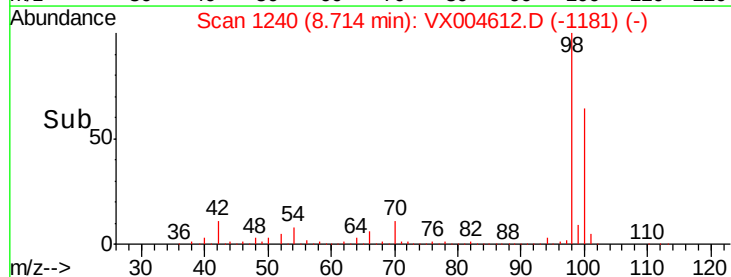
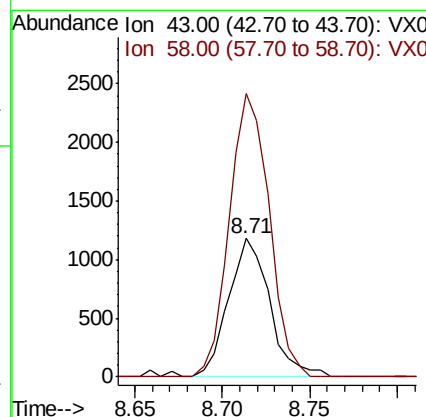
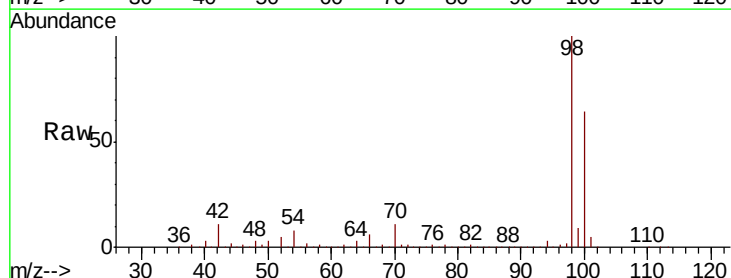
Instrument :
MSVOA_X
ClientSampleId :
BPS1-TT-MW306D-20180913

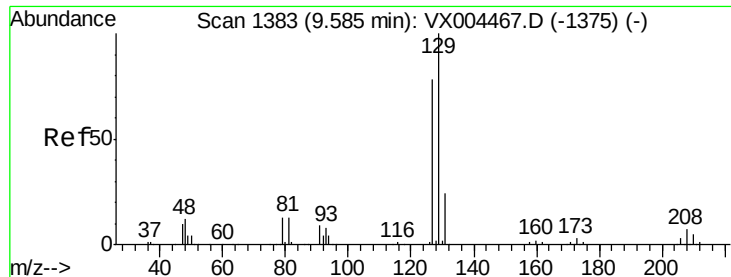
Tot Ion: 98 Resp: 483635
Ion Ratio Lower Upper
98 100
100 63.7 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 0.43 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.06 min
Lab File: VX004612.D
Acq: 16 Sep 2018 04:26

Tgt Ion: 43 Resp: 1939
Ion Ratio Lower Upper
43 100
58 197.1 33.1 49.7#

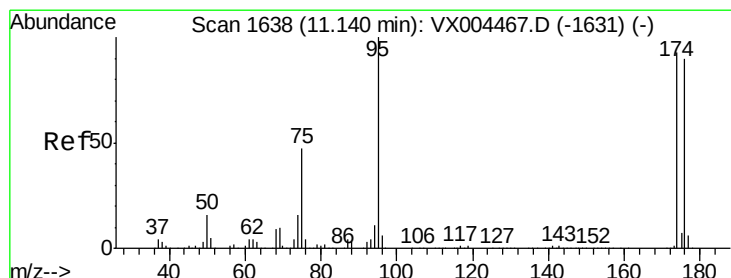
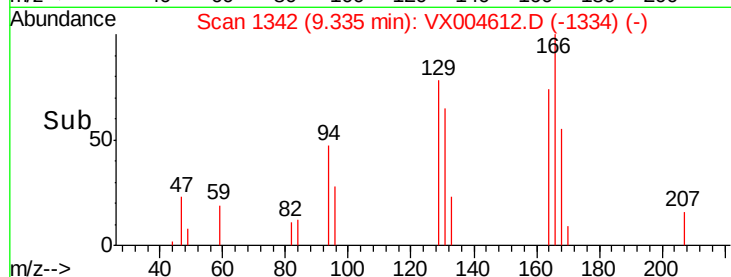
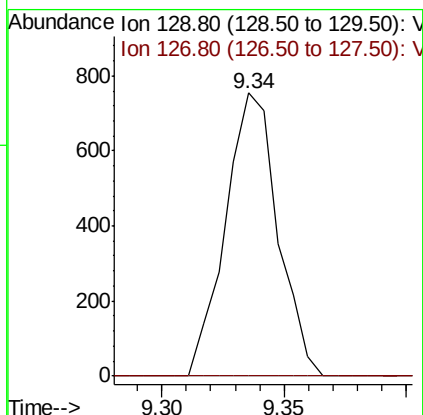
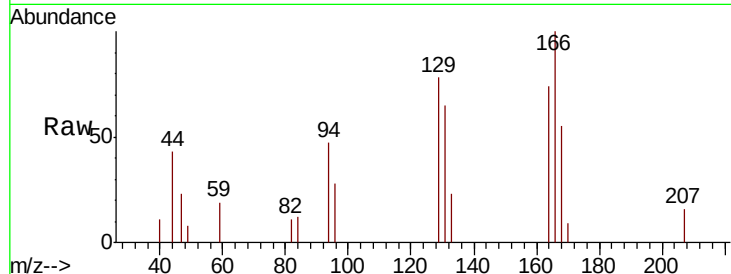




#60
Dibromochloromethane
Concen: 0.37 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.25 min
Lab File: VX004612.D
Acq: 16 Sep 2018 04:26

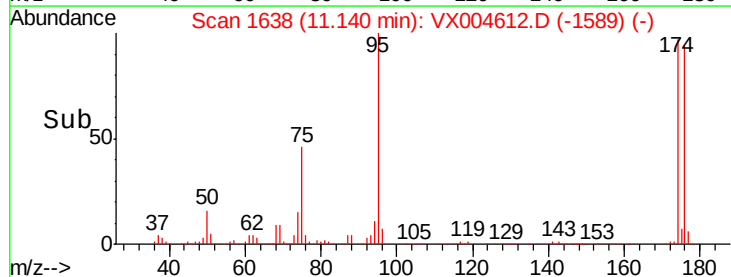
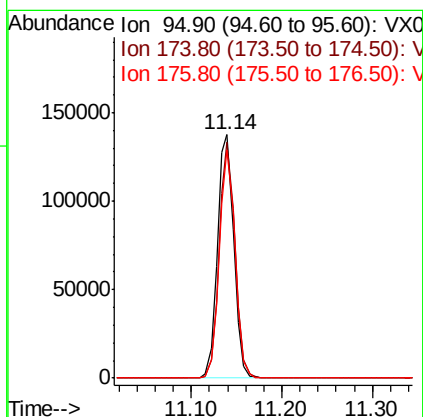
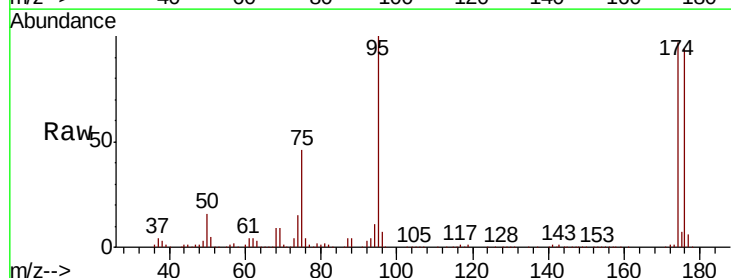
Instrument :
MSVOA_X
ClientSampleId :
BPS1-TT-MW306D-20180913

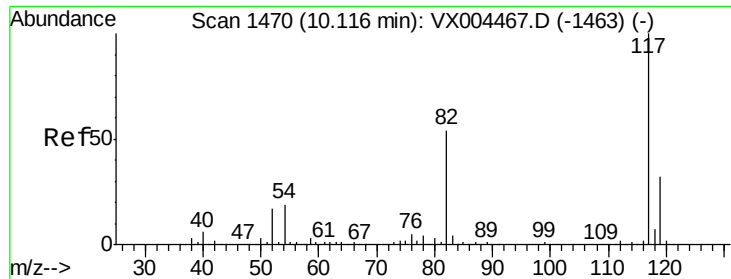
Tot Ion:129 Resp: 1123
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.5#



#62
4-Bromofluorobenzene
Concen: 45.17 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX004612.D
Acq: 16 Sep 2018 04:26

Tgt Ion: 95 Resp: 173413
Ion Ratio Lower Upper
95 100
174 93.8 0.0 185.2
176 90.5 0.0 178.6

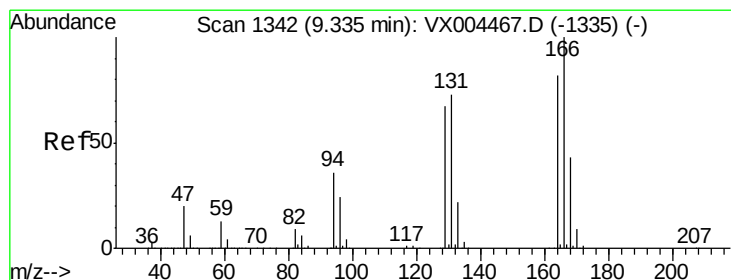
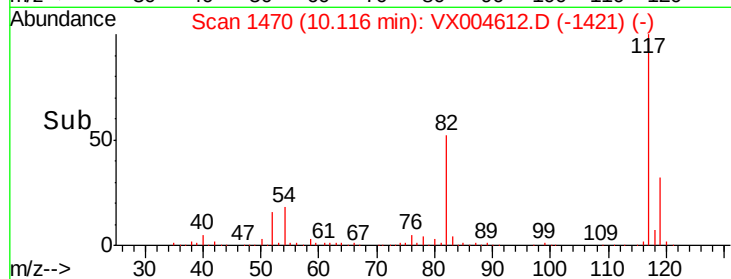
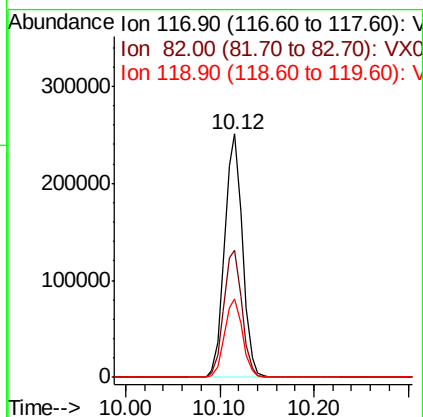
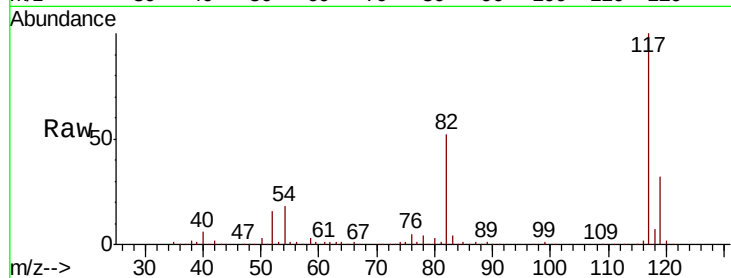




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX004612.D
Acq: 16 Sep 2018 04:26

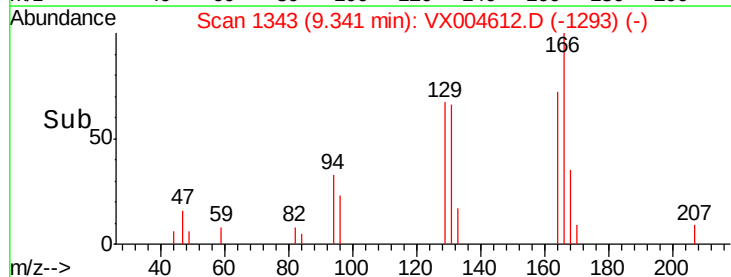
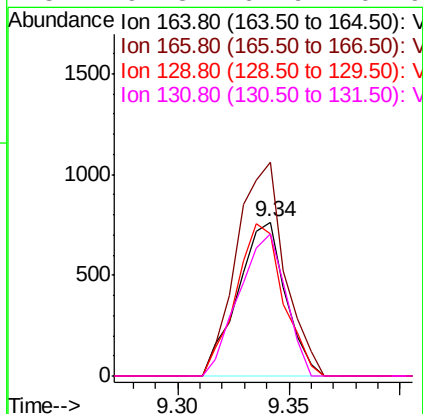
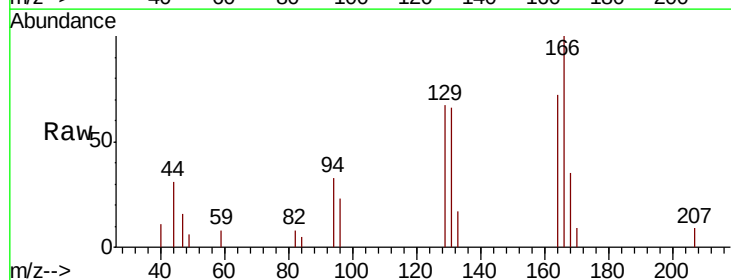
Instrument :
MSVOA_X
ClientSampleId :
BPS1-TT-MW306D-20180913

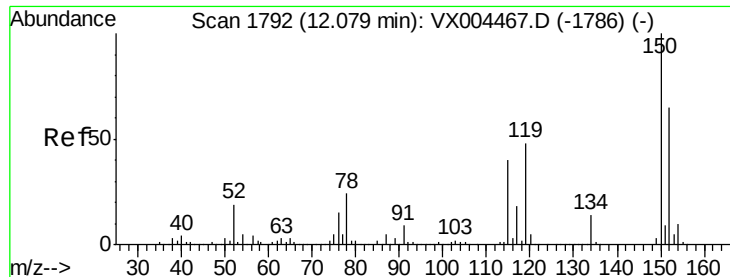
Tot Ion:117 Resp: 329099
Ion Ratio Lower Upper
117 100
82 52.3 47.8 71.6
119 32.3 29.3 43.9



#64
Tetrachloroethene
Concen: 0.28 ug/l
RT: 9.34 min Scan# 1343
Delta R.T. 0.01 min
Lab File: VX004612.D
Acq: 16 Sep 2018 04:26

Tgt Ion:164 Resp: 1138
Ion Ratio Lower Upper
164 100
166 138.9 102.8 154.2
129 92.7 69.4 104.0
131 92.3 67.9 101.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX004612.D

Acq: 16 Sep 2018 04:26

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW306D-20180913

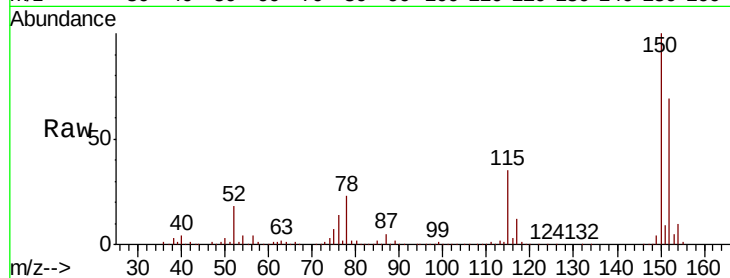
Tot Ion:152 Resp: 220492

Ion Ratio Lower Upper

152 100

115 54.8 39.0 117.0

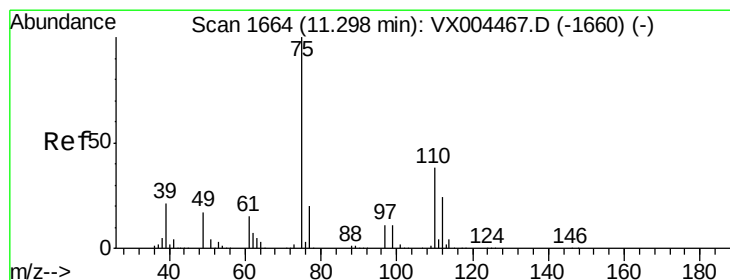
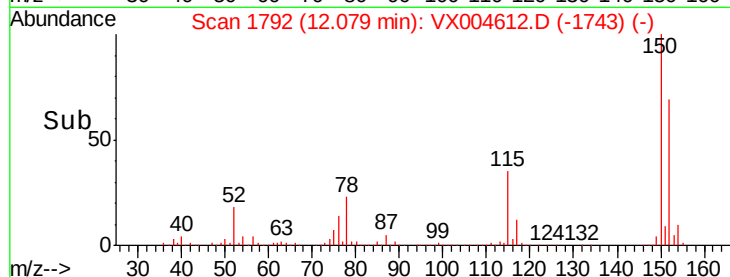
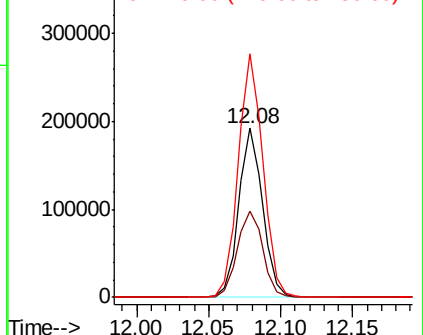
150 149.7 0.0 351.0



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: 18.46 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004612.D

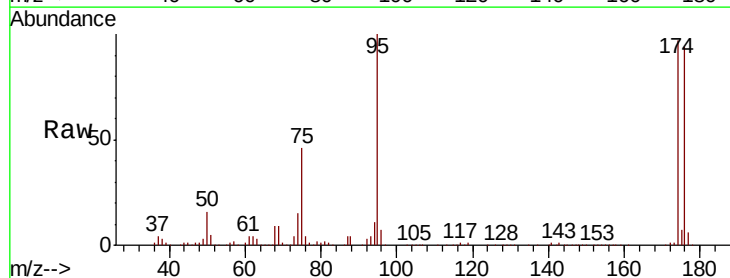
Acq: 16 Sep 2018 04:26

Tgt Ion: 75 Resp: 81895

Ion Ratio Lower Upper

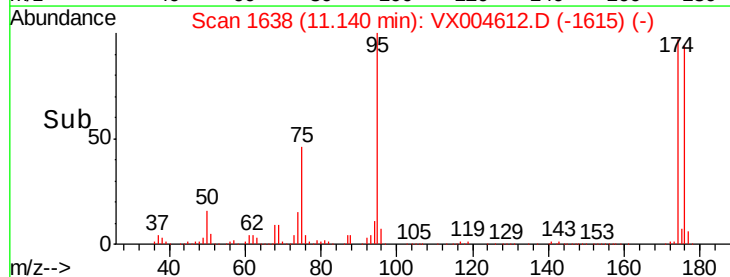
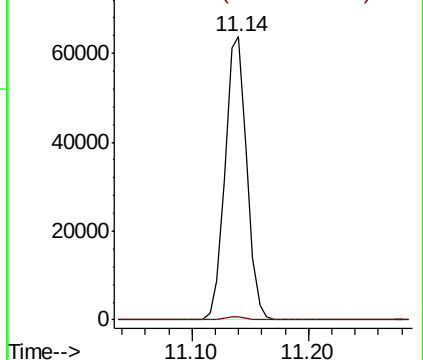
75 100

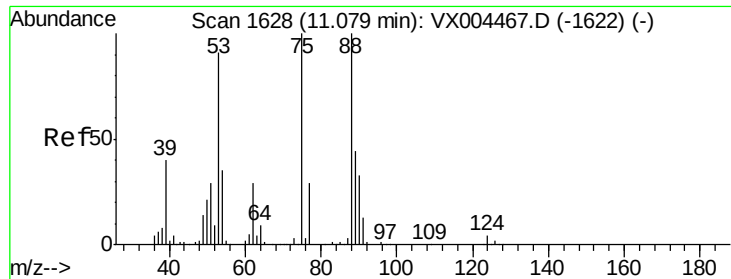
77 1.3 20.2 60.6#



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: 58.84 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004612.D

Acq: 16 Sep 2018 04:26

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW306D-20180913

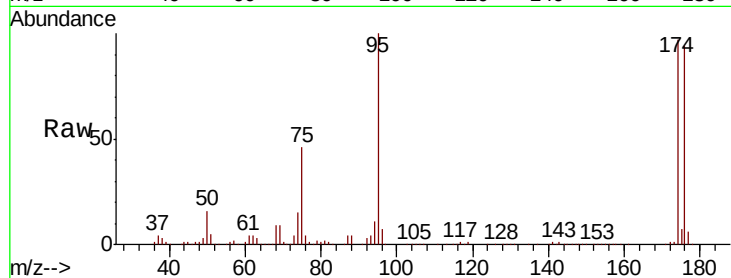
Tot Ion: 75 Resp: 81895

Ion Ratio Lower Upper

75 100

53 0.2 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

