

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091518\
 Data File : VX004616.D
 Acq On : 16 Sep 2018 06:12
 Operator : JC/MD
 Sample : J4913-19
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BPS1-TT-MW303S-20180913

Quant Time: Sep 17 08:47:32 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	5.66	168	264164	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	365357	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	342048	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	236631	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	174256	51.16	ug/l	0.00
Spiked Amount			Recovery	=	102.32%	
35) Dibromofluoromethane	5.49	113	161593	48.33	ug/l	0.00
Spiked Amount			Recovery	=	96.66%	
50) Toluene-d8	8.72	98	500834	44.67	ug/l	0.00
Spiked Amount			Recovery	=	89.34%	
62) 4-Bromofluorobenzene	11.14	95	178294	44.55	ug/l	0.00
Spiked Amount			Recovery	=	89.10%	

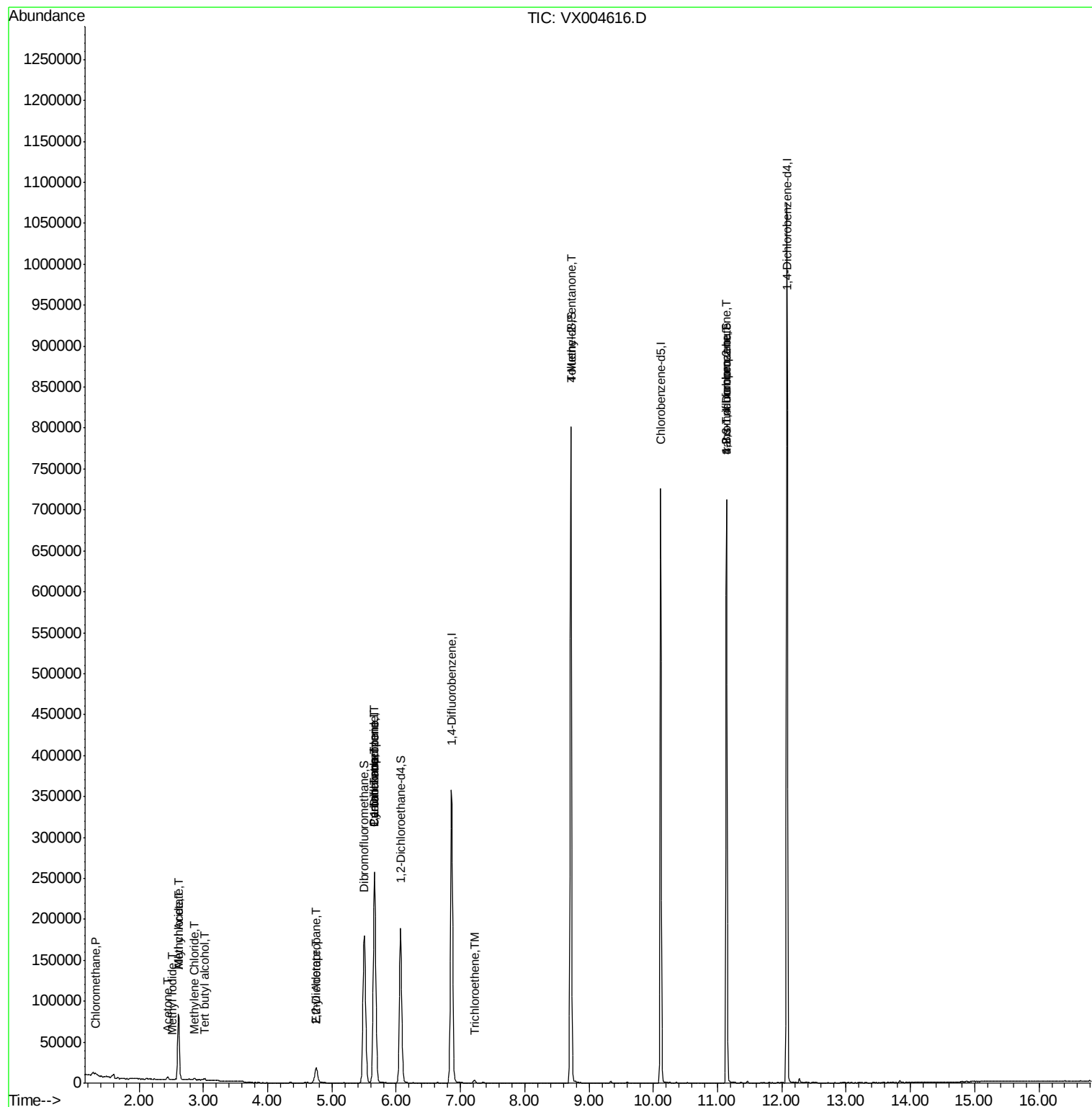
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	728	0.21	ug/l	100
5) Bromomethane	1.65	94	559	Below Cal	#	77
10) Methyl Iodide	2.51	142	137	4.29	ug/l	# 41
11) Tert butyl alcohol	3.03	59	1220	1.50	ug/l	# 72
14) Allyl chloride	2.61	41	8200	1.45	ug/l	# 67
16) Acetone	2.45	43	4212	2.53	ug/l	91
18) Methyl Acetate	2.61	43	21142	4.53	ug/l	# 51
20) Methylene Chloride	2.85	84	937	0.27	ug/l	# 75
26) 2,2-Dichloropropane	4.74	77	1623	0.41	ug/l	# 52
31) Cyclohexane	5.66	56	4286	0.87	ug/l	# 1
36) 1,1-Dichloropropene	5.66	75	17250	3.89	ug/l	# 49
37) Ethyl Acetate	4.75	43	1217	0.24	ug/l	# 6
38) Carbon Tetrachloride	5.66	117	23139	5.34	ug/l	# 16
44) Trichloroethene	7.22	130	1563	0.46	ug/l	92
51) 4-Methyl-2-Pentanone	8.72	43	2001	0.42	ug/l	# 1
76) 1,2,3-Trichloropropane	11.14	75	84310	17.71	ug/l	# 37
81) trans-1,4-Dichloro-2-buten	11.14	75	84310	56.45	ug/l	# 10

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
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: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX004616.D

Acq: 16 Sep 2018 06:12

Instrument :

MSVOA_X

ClientSampleId :

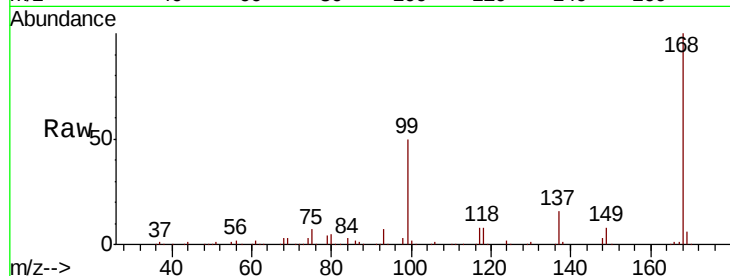
BPS1-TT-MW303S-20180913

Tot Ion:168 Resp: 264164

Ion Ratio Lower Upper

168 100

99 49.7 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

100000

80000

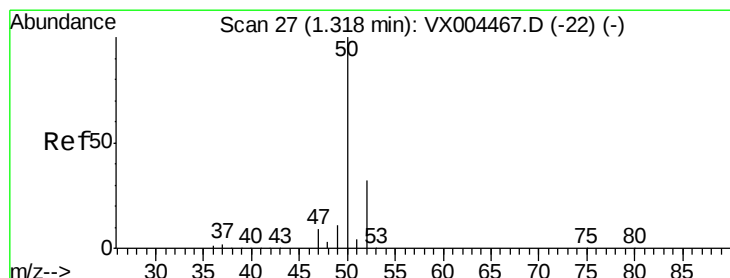
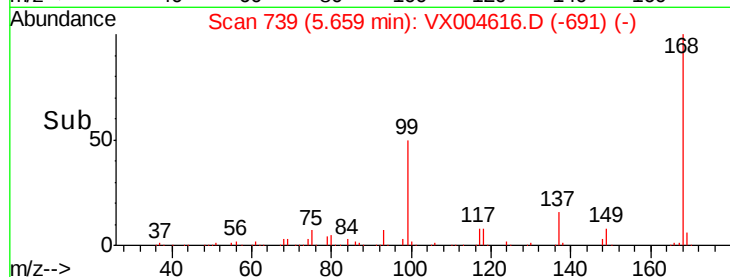
60000

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: VX004616.D

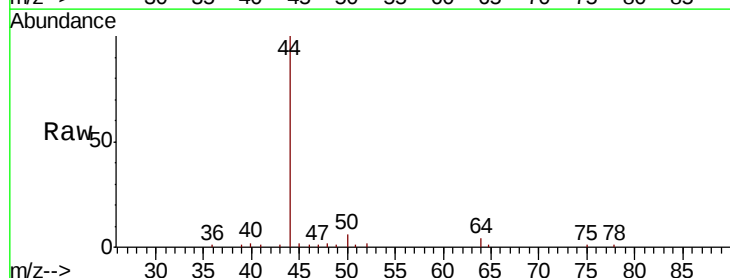
Acq: 16 Sep 2018 06:12

Tgt Ion: 50 Resp: 728

Ion Ratio Lower Upper

50 100

52 32.9 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

500

400

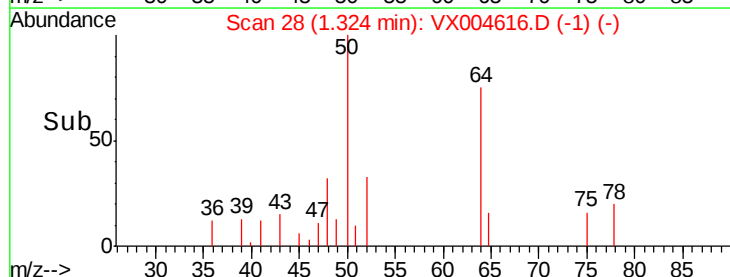
300

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: VX004616.D

Acq: 16 Sep 2018 06:12

Instrument :

MSVOA_X

ClientSampleId :

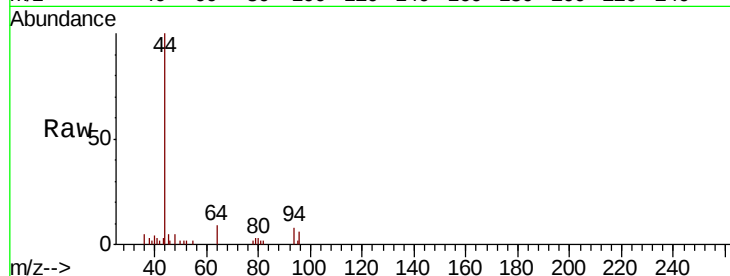
BPS1-TT-MW303S-20180913

Tot Ion: 94 Resp: 559

Ion Ratio Lower Upper

94 100

96 70.7 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

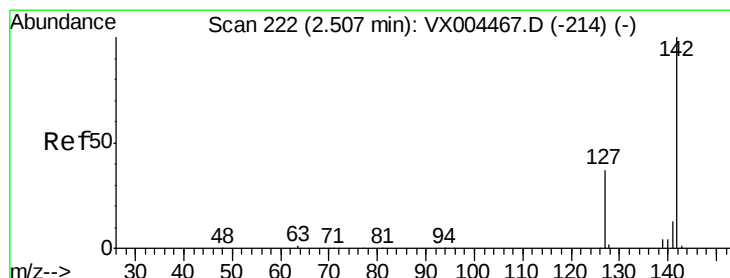
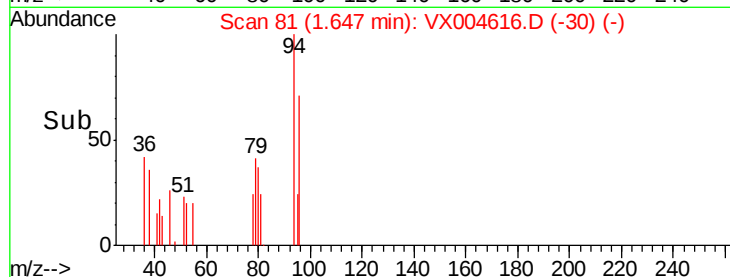
0

1.60

1.65

1.70

Time-->



#10

Methyl Iodide

Concen: 4.29 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX004616.D

Acq: 16 Sep 2018 06:12

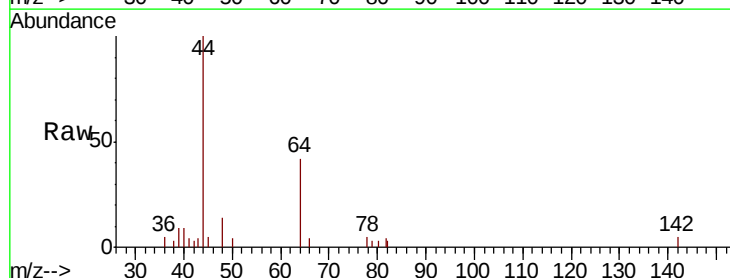
Tgt Ion: 142 Resp: 137

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

120

100

80

60

40

20

0

2.48

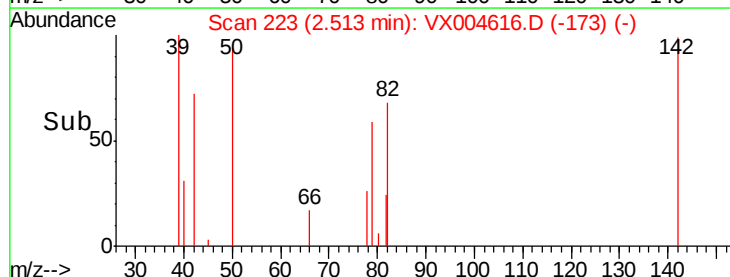
2.50

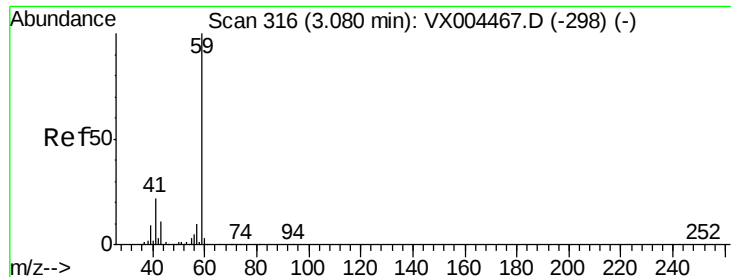
2.52

2.54

2.56

Time-->

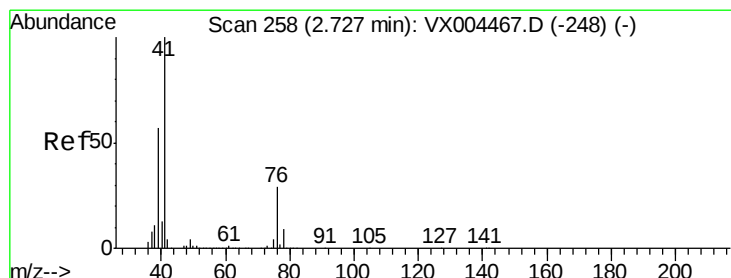
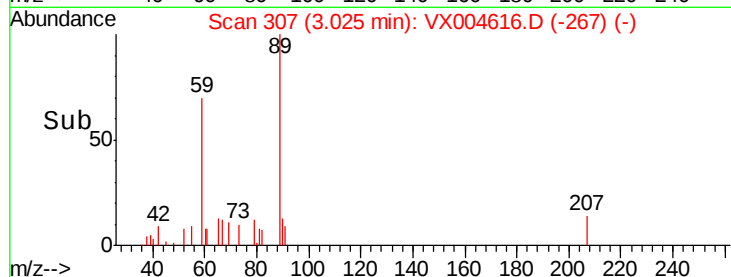
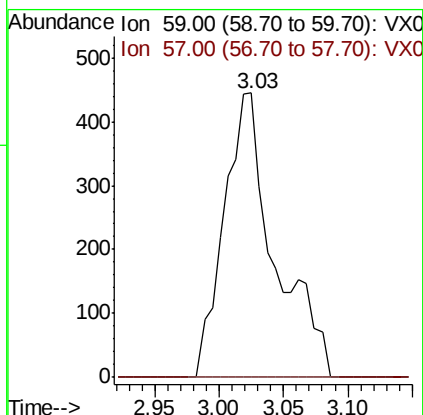
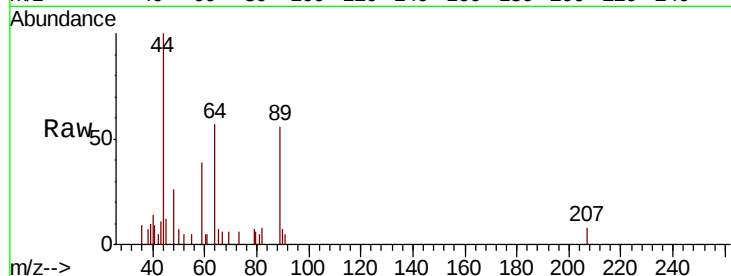




#11
Tert butyl alcohol
Concen: 1.50 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.06 min
Lab File: VX004616.D
Acq: 16 Sep 2018 06:12

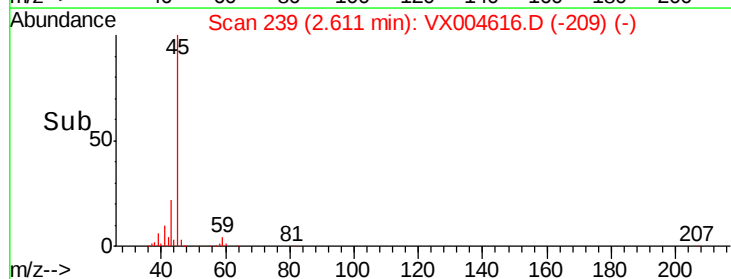
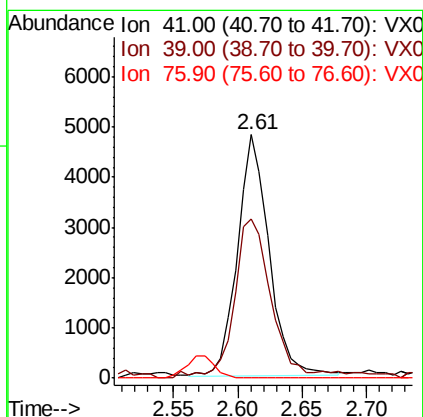
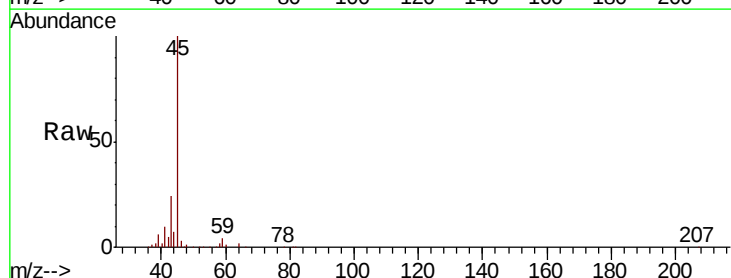
Instrument :
MSVOA_X
ClientSampleId :
BPS1-TT-MW303S-20180913

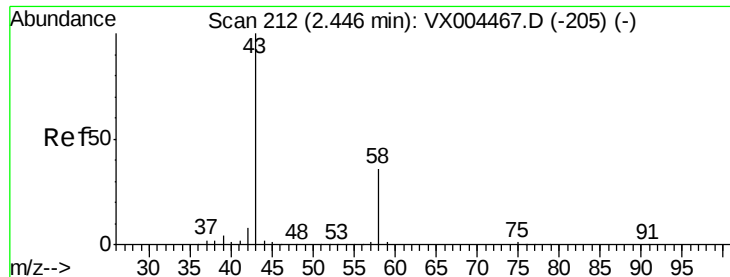
Tot Ion: 59 Resp: 1220
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#14
Allyl chloride
Concen: 1.45 ug/l
RT: 2.61 min Scan# 239
Delta R.T. -0.12 min
Lab File: VX004616.D
Acq: 16 Sep 2018 06:12

Tgt Ion: 41 Resp: 8200
Ion Ratio Lower Upper
41 100
39 75.7 48.9 73.3#
76 0.0 26.7 40.1#

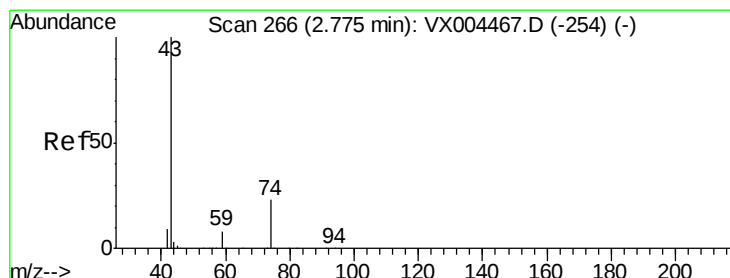
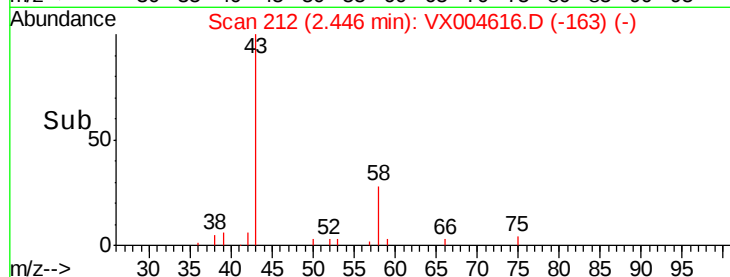
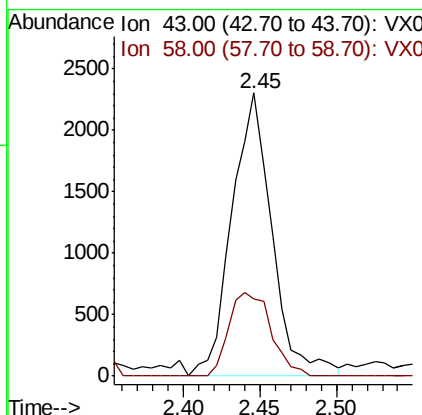
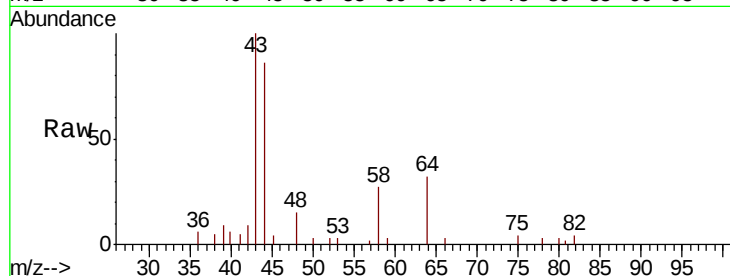




#16
Acetone
Concen: 2.53 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX004616.D
Acq: 16 Sep 2018 06:12

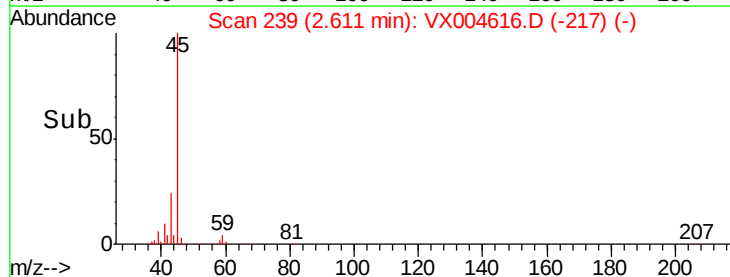
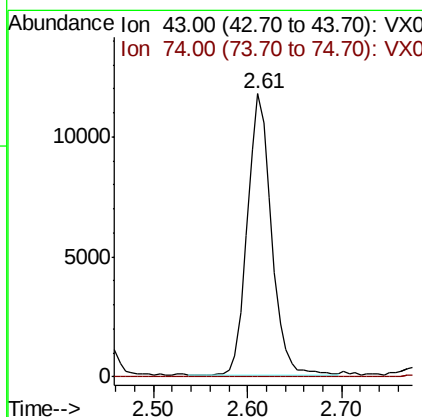
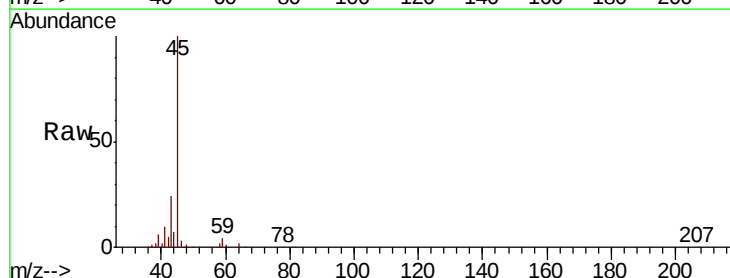
Instrument :
MSVOA_X
ClientSampleId :
BPS1-TT-MW303S-20180913

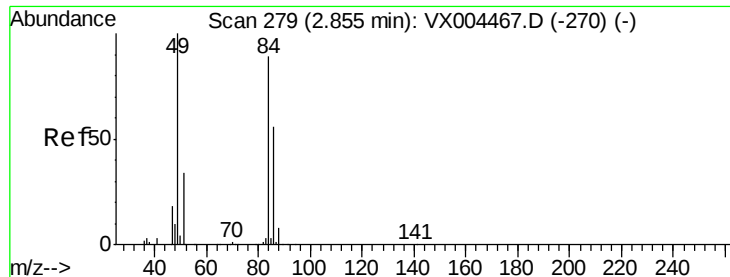
Tot Ion: 43 Resp: 4212
Ion Ratio Lower Upper
43 100
58 27.5 26.2 39.4



#18
Methyl Acetate
Concen: 4.53 ug/l
RT: 2.61 min Scan# 239
Delta R.T. -0.16 min
Lab File: VX004616.D
Acq: 16 Sep 2018 06:12

Tgt Ion: 43 Resp: 21142
Ion Ratio Lower Upper
43 100
74 0.0 19.4 29.2#





#20

Methvlene Chloride

Concen: 0.27 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX004616.D

Acq: 16 Sep 2018 06:12

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW303S-20180913

Tot Ion: 84 Resp: 937

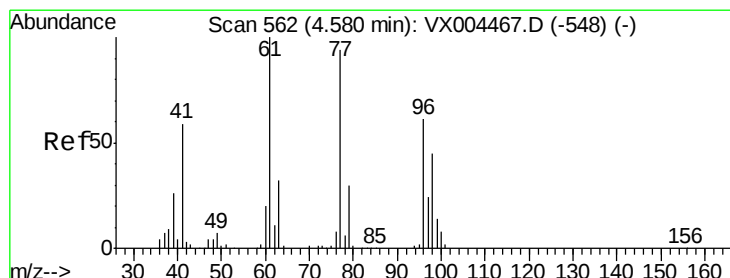
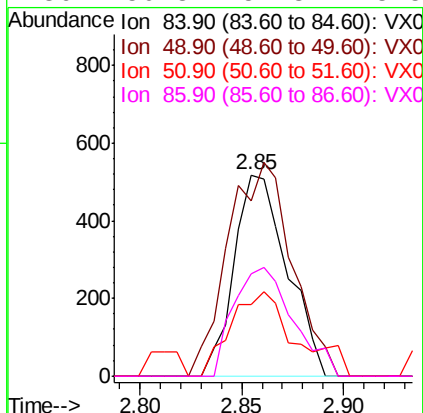
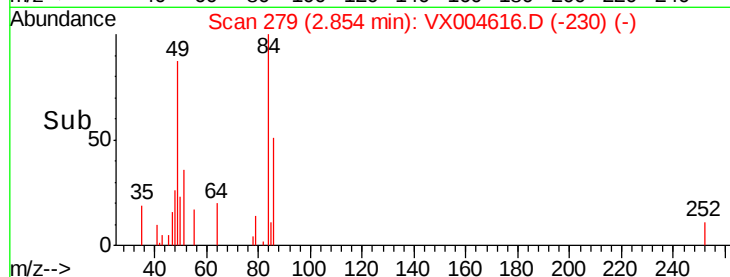
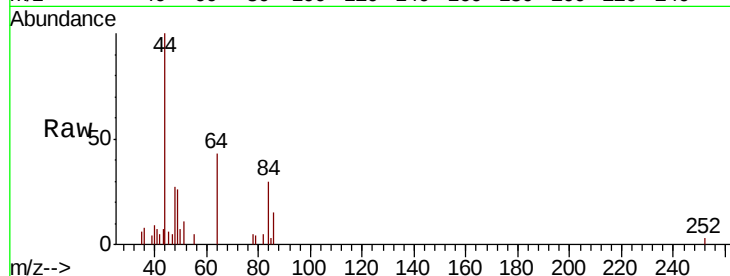
Ion Ratio Lower Upper

84 100

49 87.1 101.2 151.8#

51 35.5 29.5 44.3

86 50.8 52.3 78.5#



#26

2,2-Dichloropropane

Concen: 0.41 ug/l

RT: 4.74 min Scan# 589

Delta R.T. 0.16 min

Lab File: VX004616.D

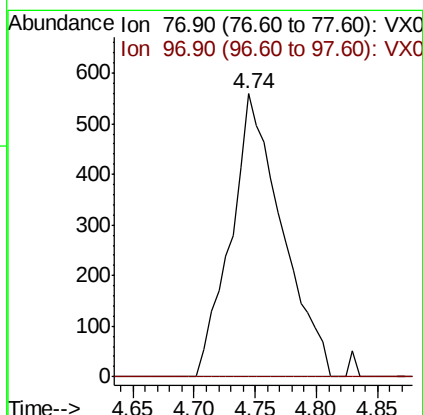
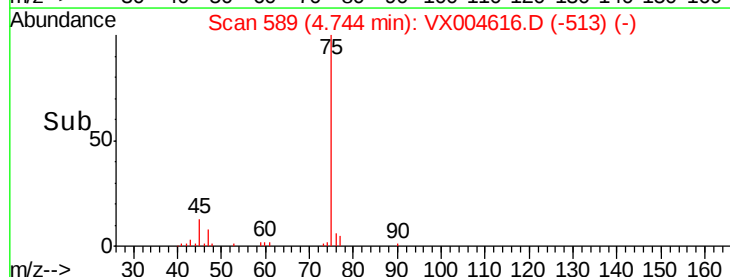
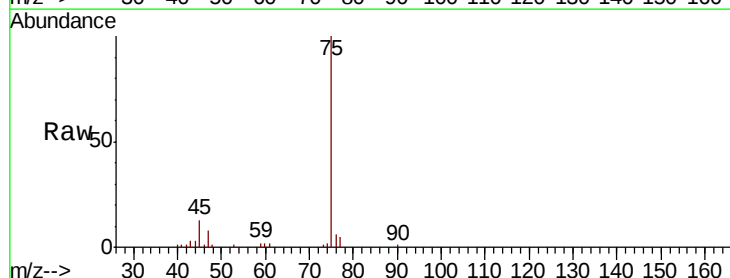
Acq: 16 Sep 2018 06:12

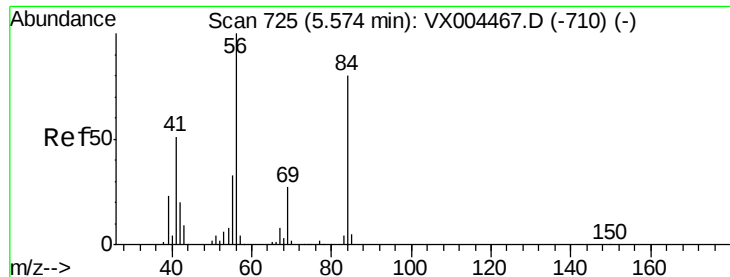
Tgt Ion: 77 Resp: 1623

Ion Ratio Lower Upper

77 100

97 0.0 11.7 35.0#

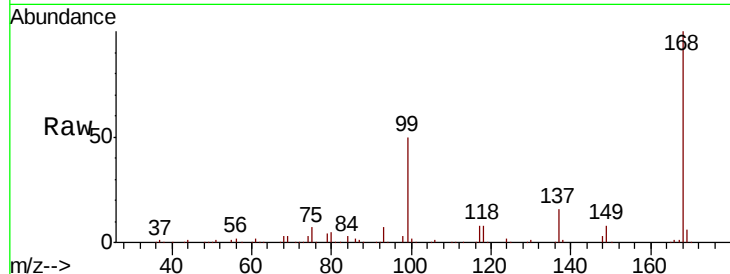




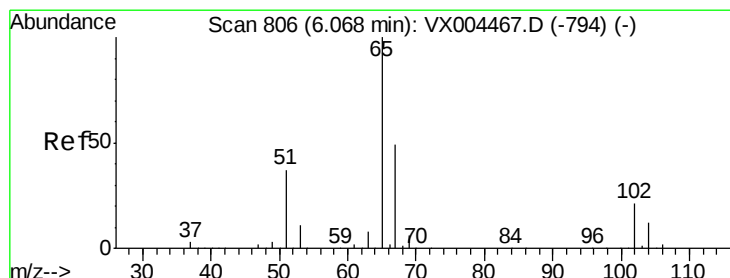
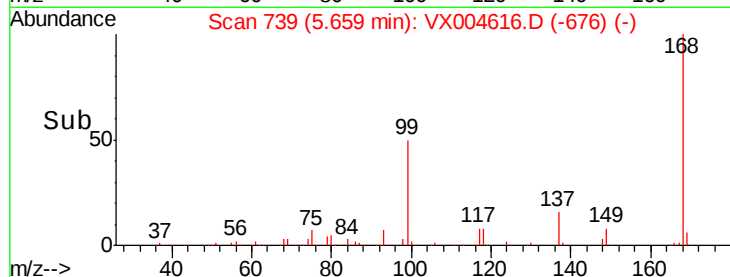
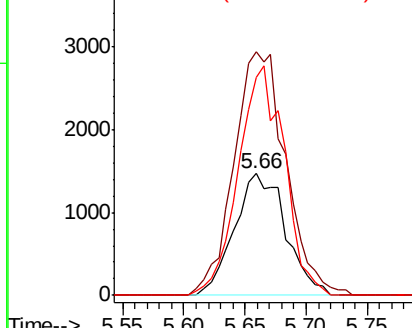
#31
Cyclohexane
Concen: 0.87 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX004616.D
Acq: 16 Sep 2018 06:12

Instrument :
MSVOA_X
ClientSampleId :
BPS1-TT-MW303S-20180913

Tot Ion: 56 Resp: 4286
Ion Ratio Lower Upper
56 100
69 200.1 25.4 38.2#
84 179.6 71.4 107.2#

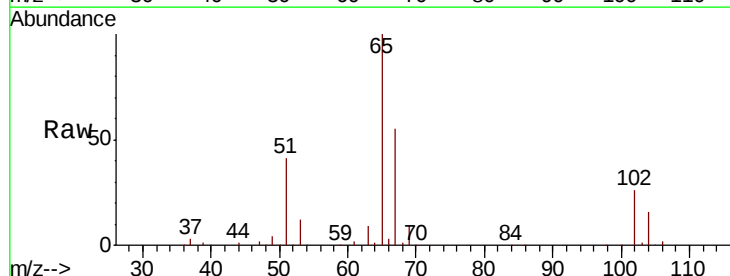


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

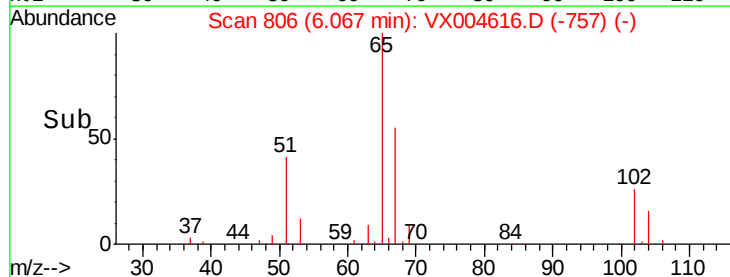
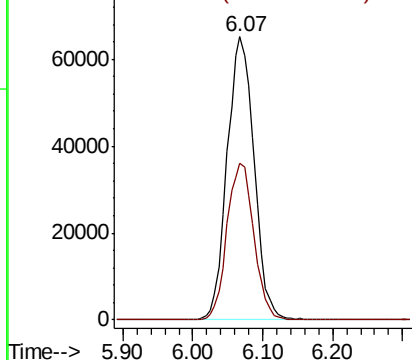


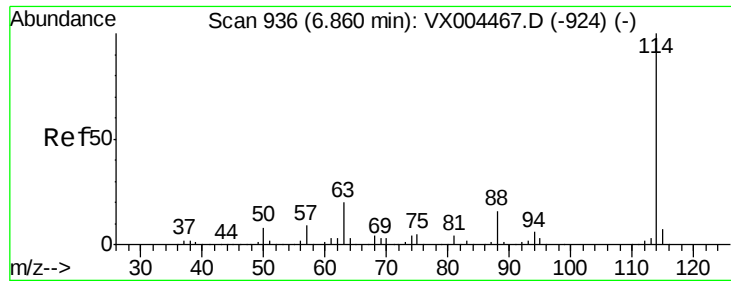
#33
1,2-Dichloroethane-d4
Concen: 51.16 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX004616.D
Acq: 16 Sep 2018 06:12

Tgt Ion: 65 Resp: 174256
Ion Ratio Lower Upper
65 100
67 55.1 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: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX004616.D

Acq: 16 Sep 2018 06:12

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW303S-20180913

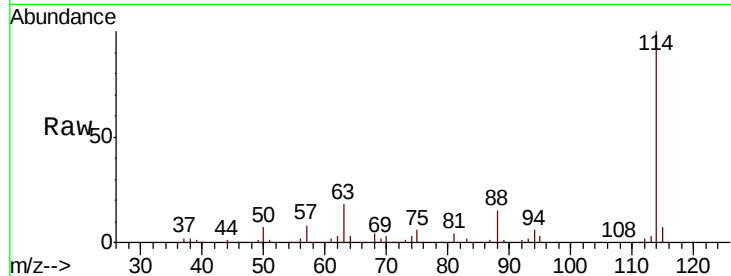
Tot Ion:114 Resp: 365357

Ion Ratio Lower Upper

114 100

63 18.2 0.0 39.0

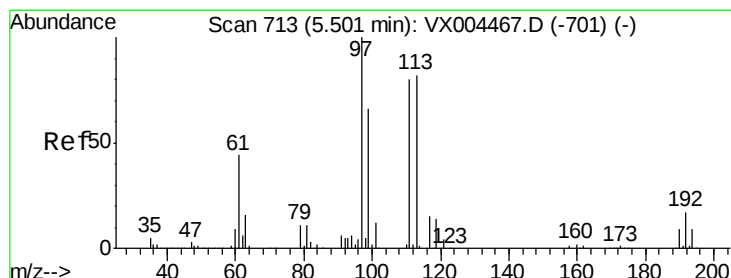
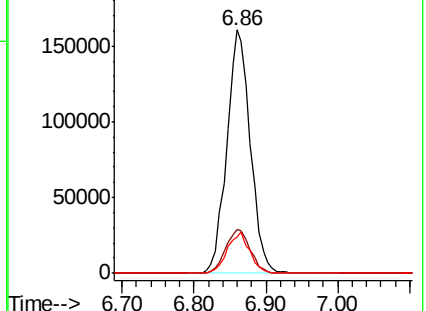
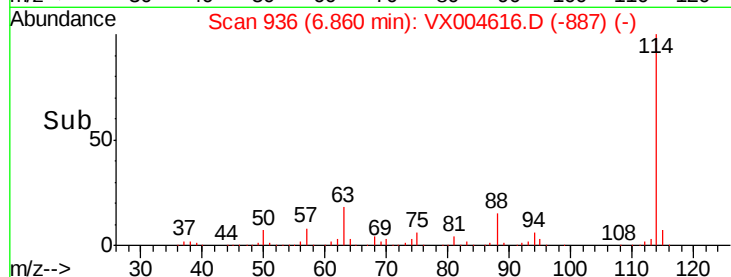
88 14.9 0.0 30.4



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



#35

Dibromofluoromethane

Concen: 48.33 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.01 min

Lab File: VX004616.D

Acq: 16 Sep 2018 06:12

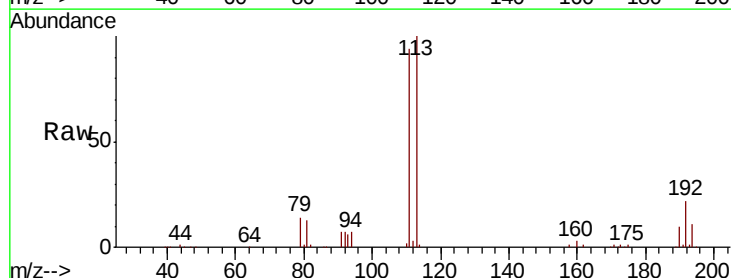
Tgt Ion:113 Resp: 161593

Ion Ratio Lower Upper

113 100

111 103.8 82.4 123.6

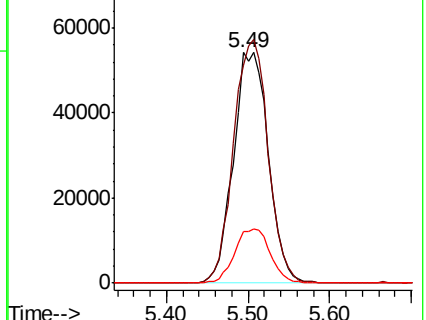
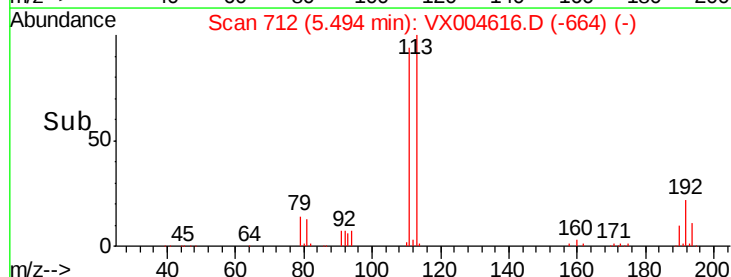
192 23.8 19.4 29.2

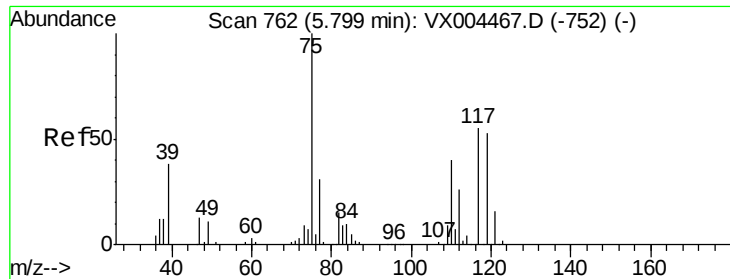


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

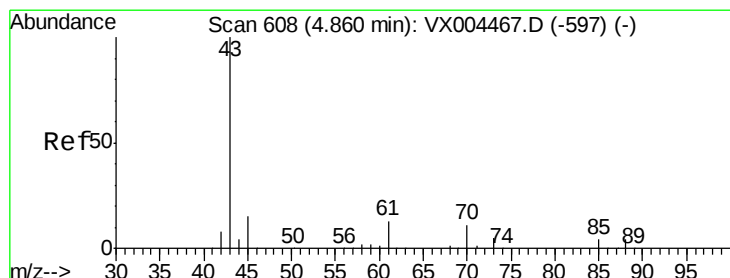
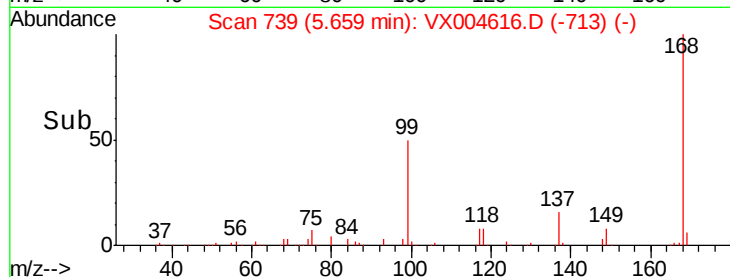
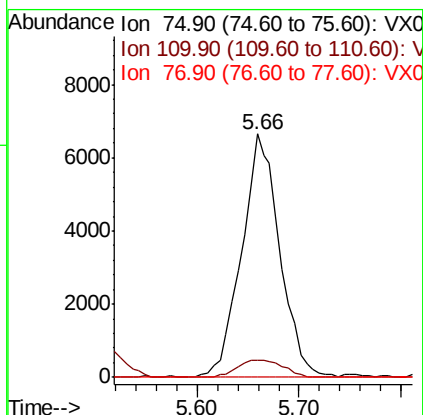
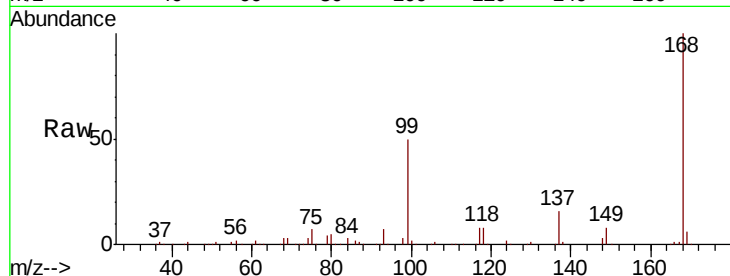




#36
 1,1-Dichloropropene
 Concen: 3.89 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX004616.D
 Acq: 16 Sep 2018 06:12

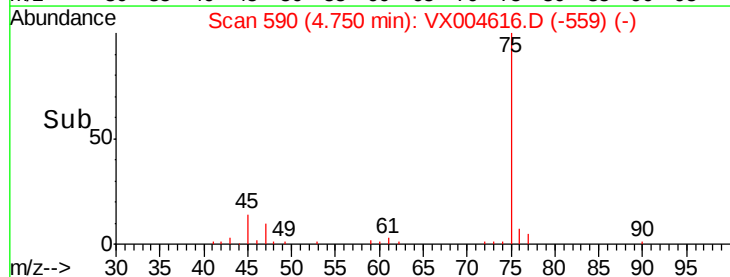
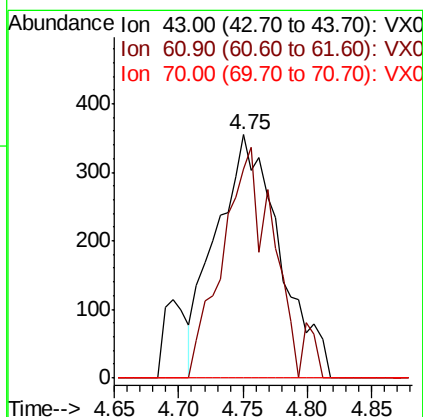
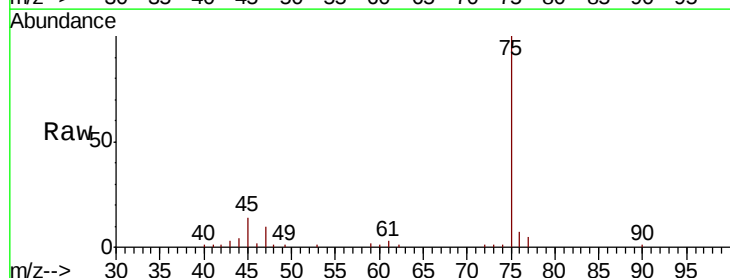
Instrument :
 MSVOA_X
 ClientSampleId :
 BPS1-TT-MW303S-20180913

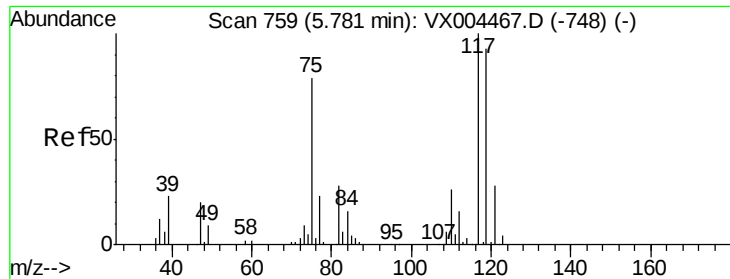
Tot Ion: 75 Resp: 17250
 Ion Ratio Lower Upper
 75 100
 110 8.5 18.0 54.0#
 77 0.0 24.6 36.8#



#37
 Ethyl Acetate
 Concen: 0.24 ug/l
 RT: 4.75 min Scan# 590
 Delta R.T. -0.11 min
 Lab File: VX004616.D
 Acq: 16 Sep 2018 06:12

Tgt Ion: 43 Resp: 1217
 Ion Ratio Lower Upper
 43 100
 61 73.7 11.5 17.3#
 70 0.0 9.0 13.6#





#38

Carbon Tetrachloride

Concen: 5.34 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX004616.D

Acq: 16 Sep 2018 06:12

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW303S-20180913

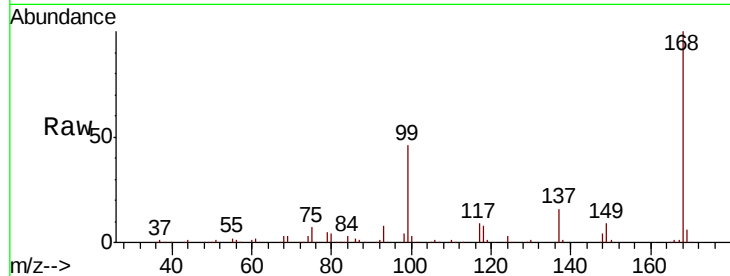
Tot Ion:117 Resp: 23139

Ion Ratio Lower Upper

117 100

119 6.1 78.8 118.2#

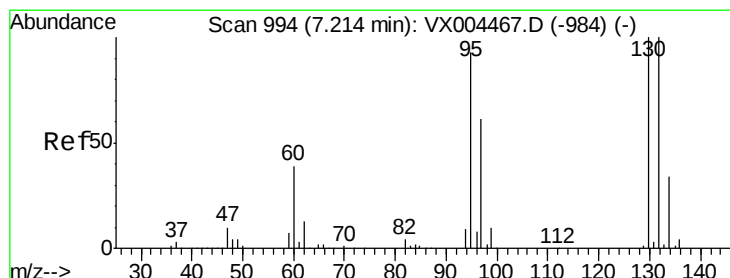
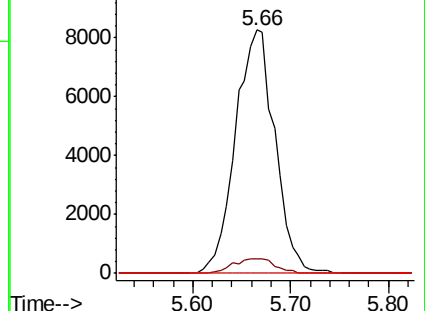
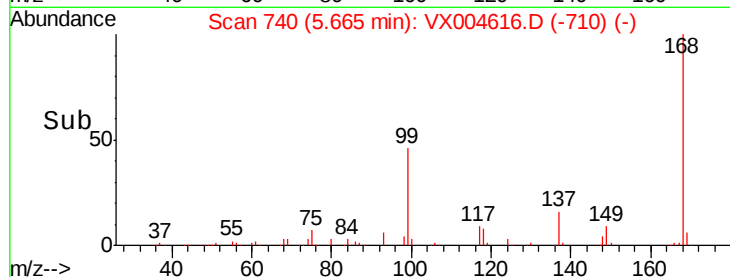
121 0.0 24.9 37.3#



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: 0.46 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX004616.D

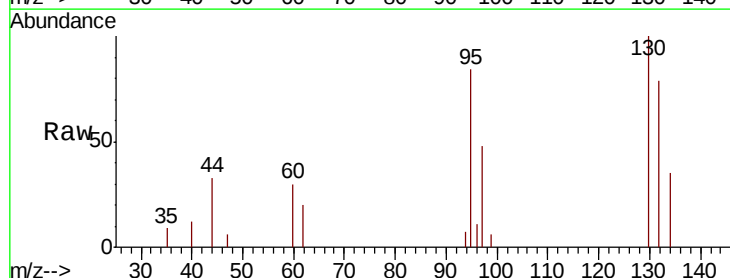
Acq: 16 Sep 2018 06:12

Tgt Ion:130 Resp: 1563

Ion Ratio Lower Upper

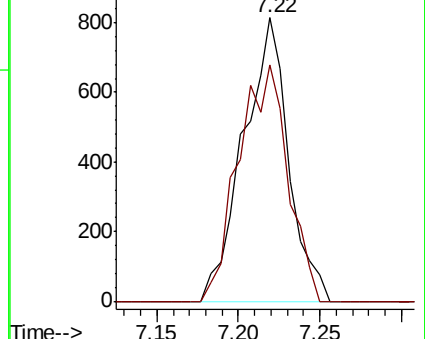
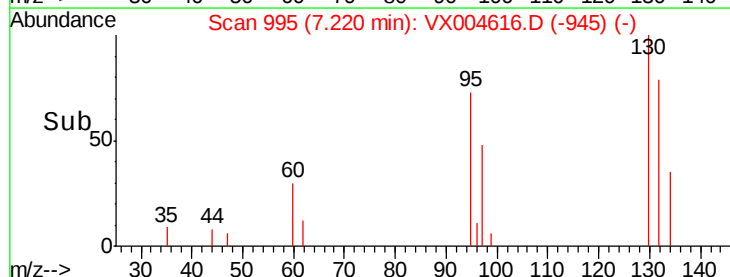
130 100

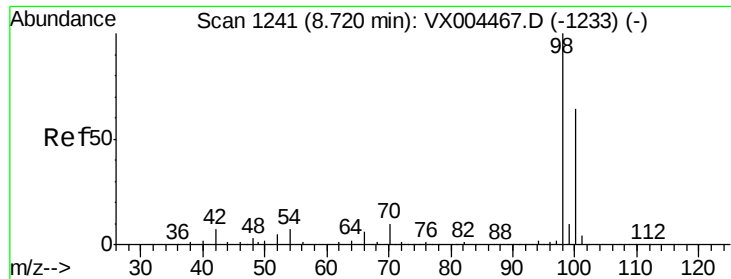
95 83.5 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 44.67 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. -0.00 min

Lab File: VX004616.D

Acq: 16 Sep 2018 06:12

Instrument :

MSVOA_X

ClientSampleId :

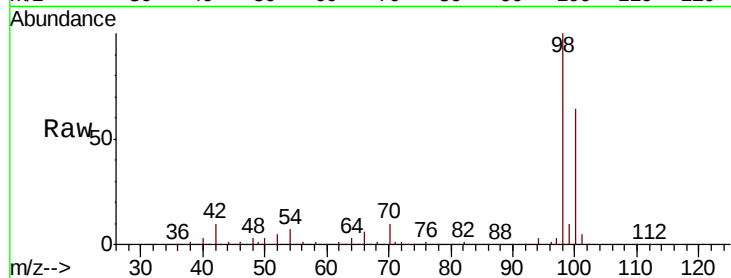
BPS1-TT-MW303S-20180913

Tot Ion: 98 Resp: 500834

Ion Ratio Lower Upper

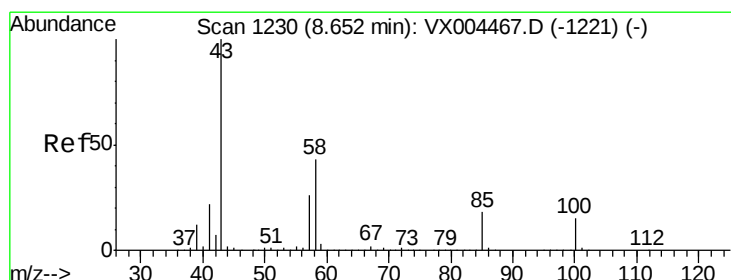
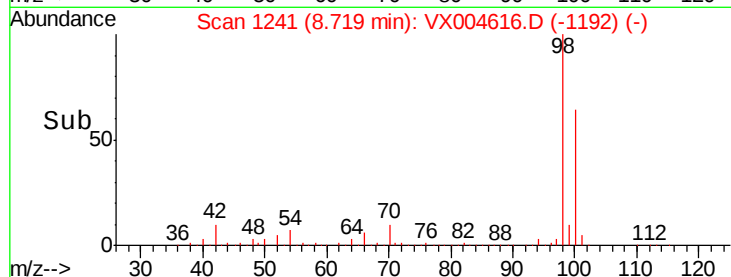
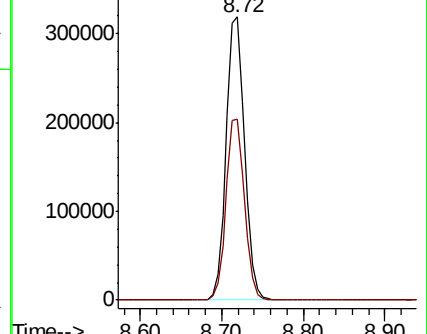
98 100

100 64.3 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.42 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.07 min

Lab File: VX004616.D

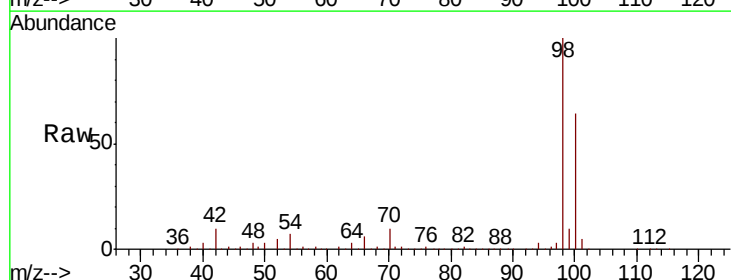
Acq: 16 Sep 2018 06:12

Tgt Ion: 43 Resp: 2001

Ion Ratio Lower Upper

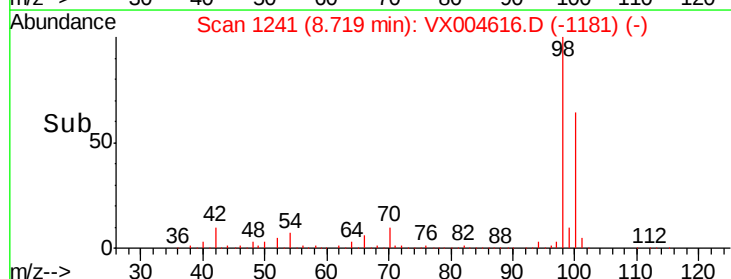
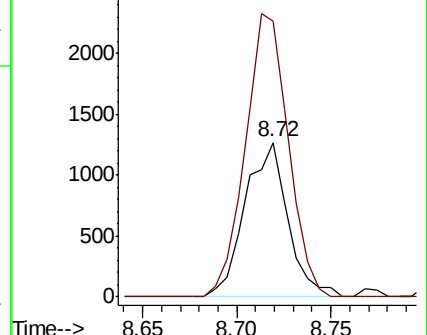
43 100

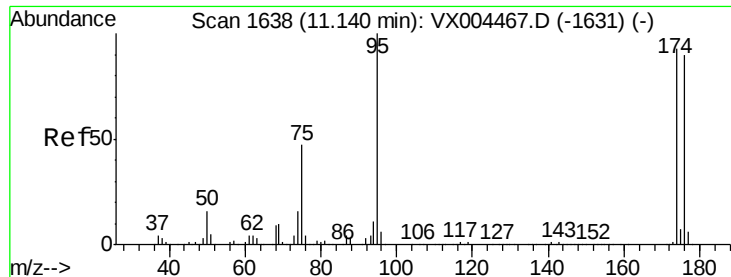
58 183.1 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 44.55 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX004616.D

Acq: 16 Sep 2018 06:12

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW303S-20180913

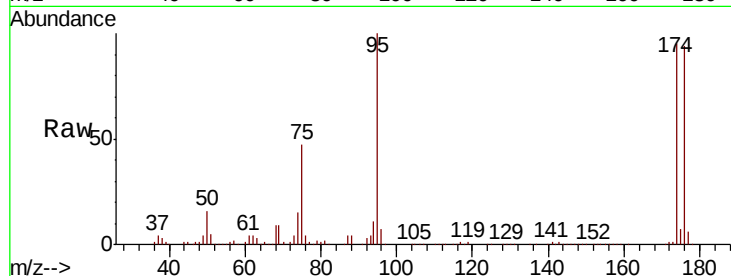
Tot Ion: 95 Resp: 178294

Ion Ratio Lower Upper

95 100

174 94.9 0.0 185.2

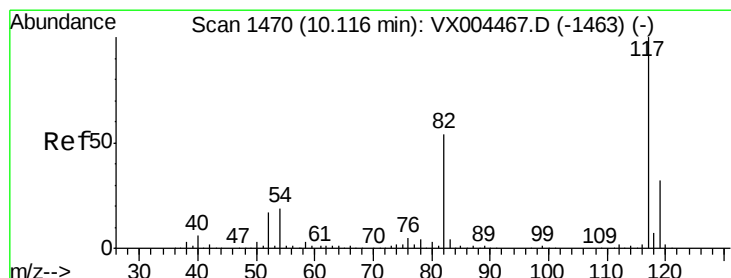
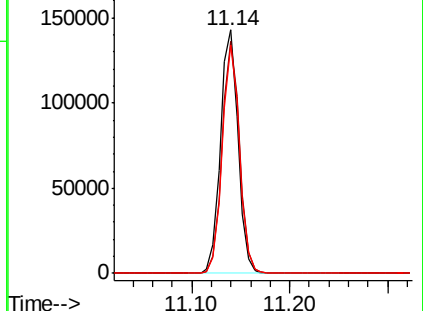
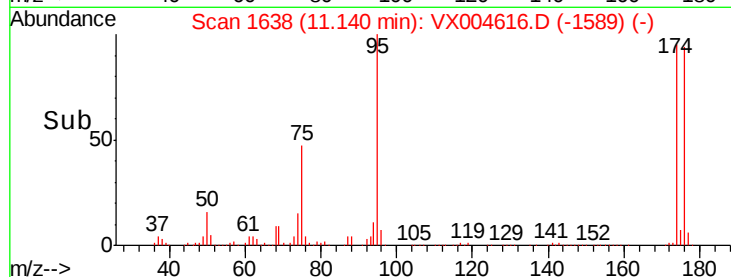
176 91.6 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX004616.D (-1589) (-)

Ion 173.80 (173.50 to 174.50): VX004616.D (-1589) (-)

Ion 175.80 (175.50 to 176.50): VX004616.D (-1589) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX004616.D

Acq: 16 Sep 2018 06:12

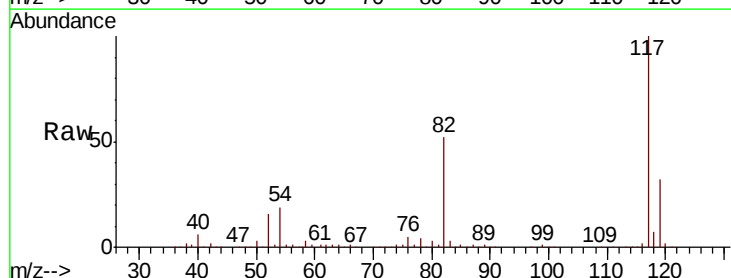
Tgt Ion: 117 Resp: 342048

Ion Ratio Lower Upper

117 100

82 51.7 47.8 71.6

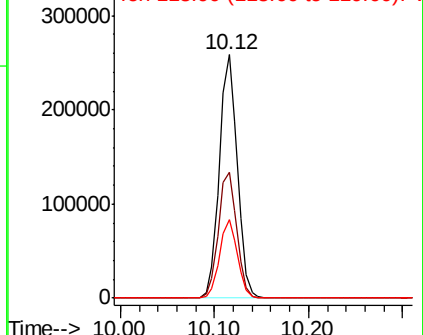
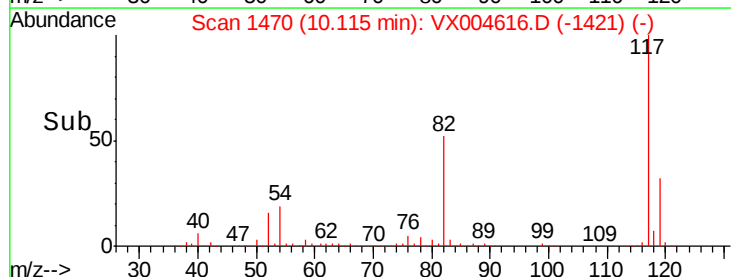
119 32.0 29.3 43.9

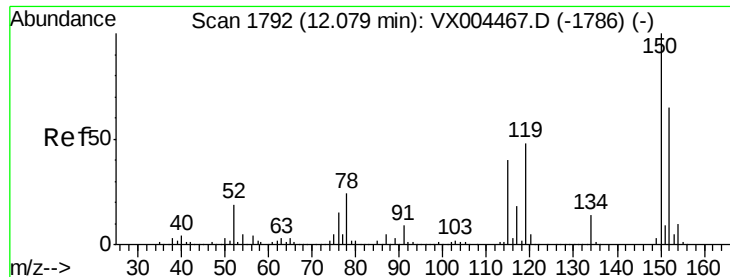


Abundance Ion 116.90 (116.60 to 117.60): VX004616.D (-1421) (-)

Ion 82.00 (81.70 to 82.70): VX004616.D (-1421) (-)

Ion 118.90 (118.60 to 119.60): VX004616.D (-1421) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX004616.D

Acq: 16 Sep 2018 06:12

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW303S-20180913

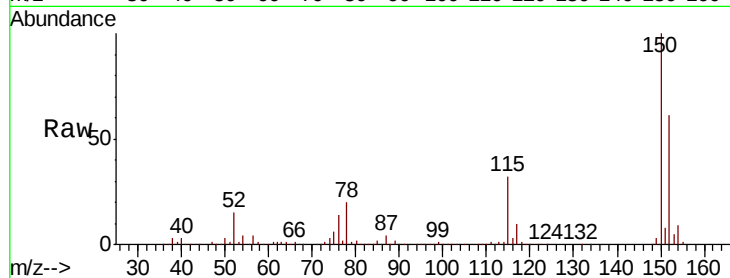
Tot Ion:152 Resp: 236631

Ion Ratio Lower Upper

152 100

115 54.9 39.0 117.0

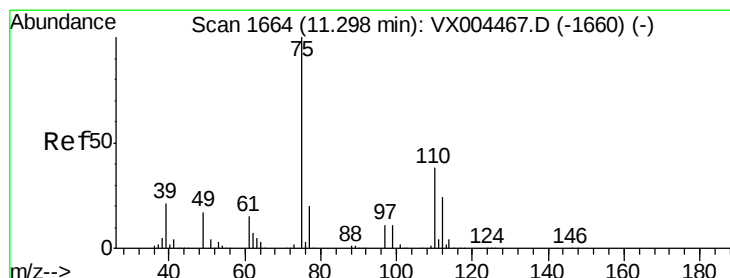
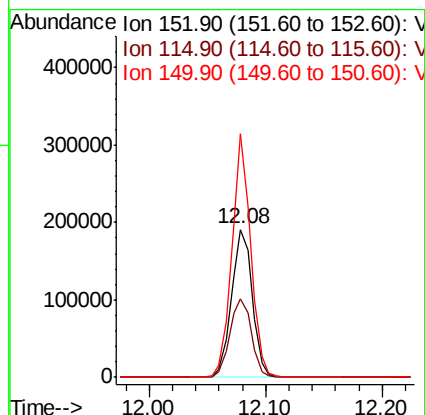
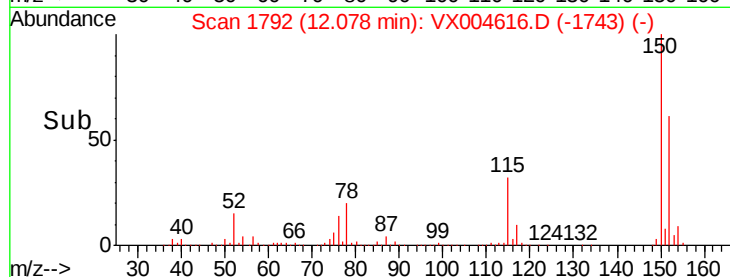
150 148.5 0.0 351.0



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: 17.71 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004616.D

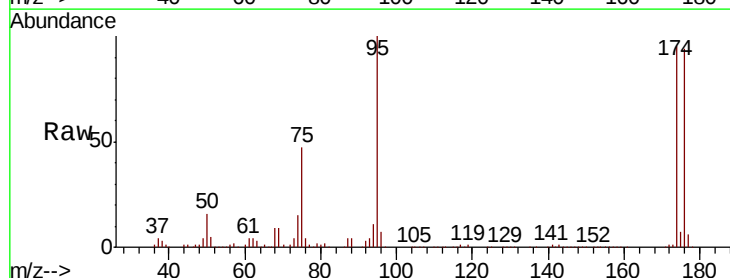
Acq: 16 Sep 2018 06:12

Tgt Ion: 75 Resp: 84310

Ion Ratio Lower Upper

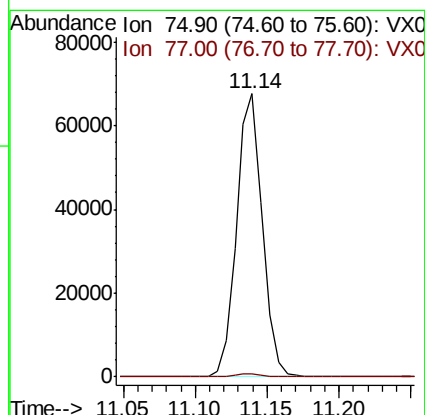
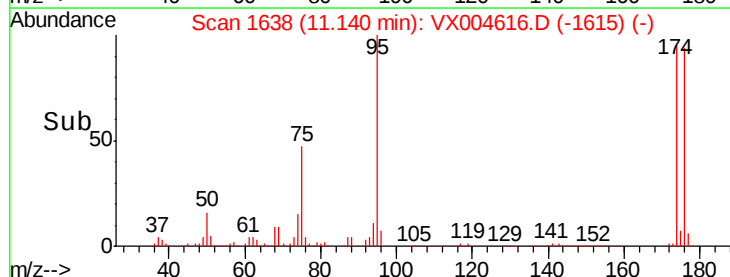
75 100

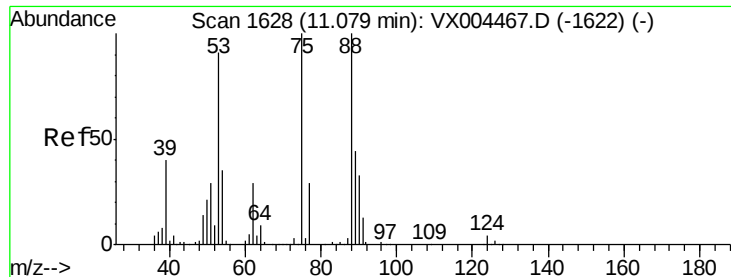
77 1.3 20.2 60.6#



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: 56.45 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004616.D

Acq: 16 Sep 2018 06:12

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW303S-20180913

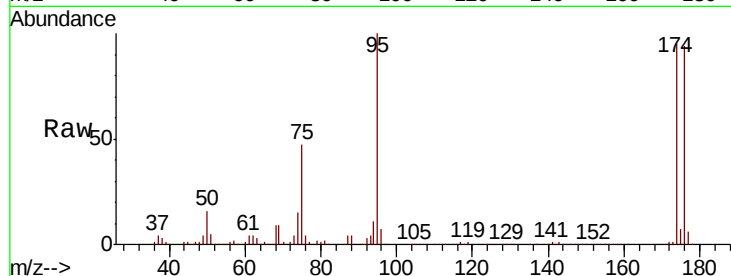
Tot Ion: 75 Resp: 84310

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

