

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032519\
 Data File : VX008432.D
 Acq On : 26 Mar 2019 00:05
 Operator : JC/SP
 Sample : K1969-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BPS1-TT-MW301I-20190316RE

Quant Time: Mar 26 06:07:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 26 04:58:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	227788	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	389973	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	335893	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	137708	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	163691	47.40	ug/l	0.00
Spiked Amount			Recovery	=	94.80%	
35) Dibromofluoromethane	5.50	113	120363	47.33	ug/l	0.00
Spiked Amount			Recovery	=	94.66%	
50) Toluene-d8	8.71	98	486741	47.87	ug/l	0.00
Spiked Amount			Recovery	=	95.74%	
62) 4-Bromofluorobenzene	11.13	95	163331	43.35	ug/l	0.00
Spiked Amount			Recovery	=	86.70%	

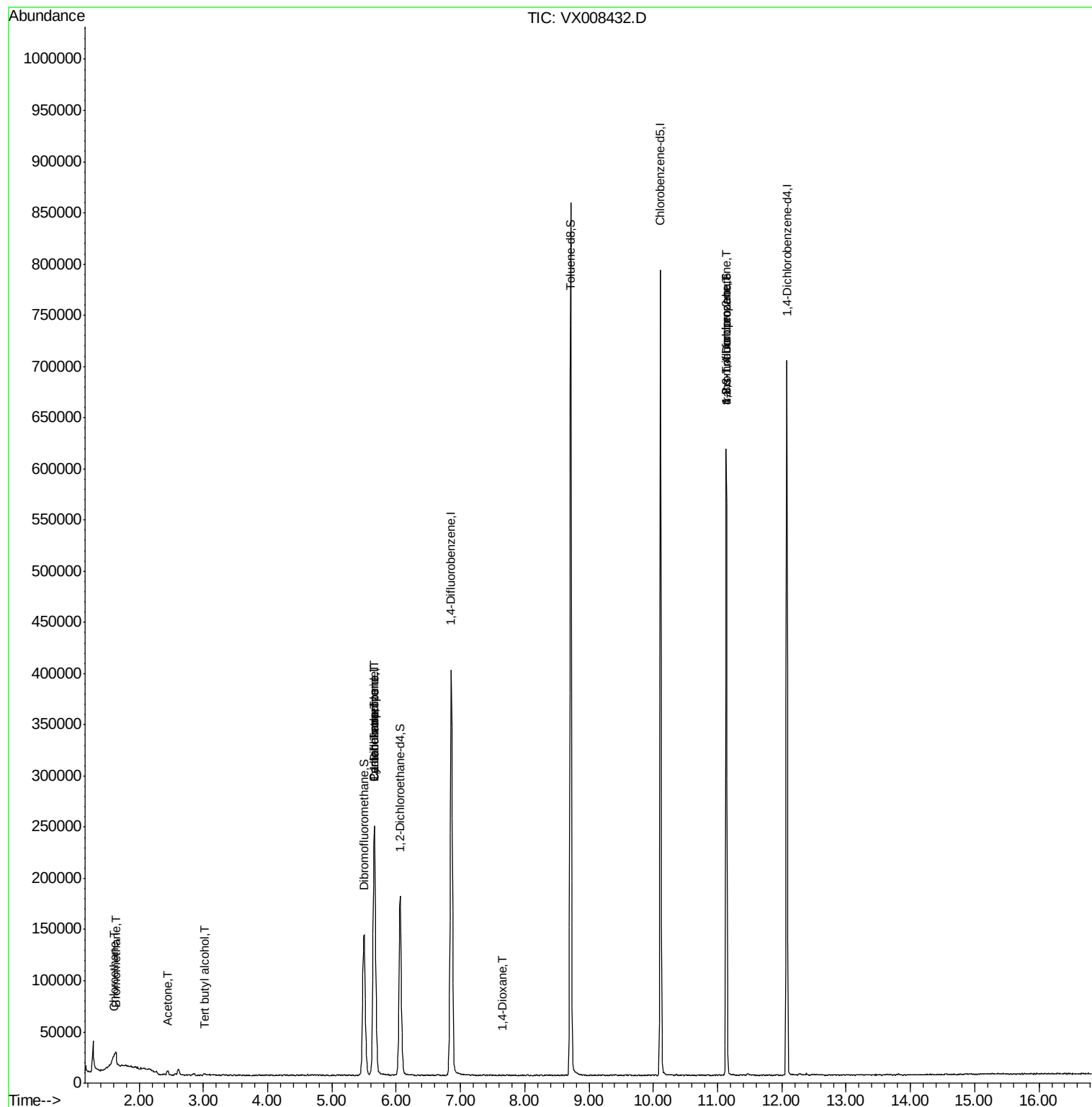
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	350	Below Cal	#	68
5) Bromomethane	1.64	94	403	2.005	ug/l #	56
6) Chloroethane	1.60	64	33721	15.184	ug/l #	50
11) Tert butyl alcohol	3.01	59	1037	1.355	ug/l #	93
16) Acetone	2.44	43	4843	2.683	ug/l	92
20) Methylene Chloride	2.85	84	611	Below Cal	#	68
21) trans-1,2-Dichloroethene	3.17	96	27	Below Cal	#	19
31) Cyclohexane	5.66	56	5511	0.996	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	19779	4.757	ug/l #	51
38) Carbon Tetrachloride	5.66	117	22942	6.612	ug/l #	16
49) 1,4-Dioxane	7.65	88	18	0.210	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	84624	20.671	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	84624	66.205	ug/l #	9

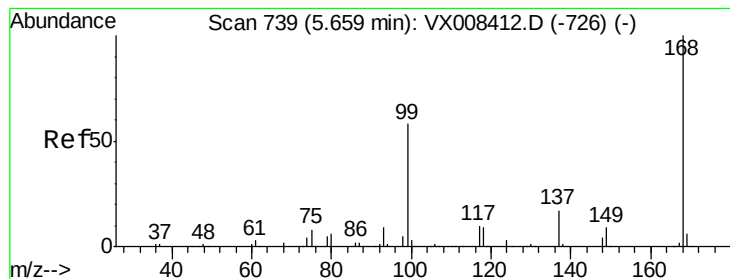
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.00 min

Lab File: VX008432.D

Acq: 26 Mar 2019 00:05

Instrument :

MSVOA_X

ClientSampleId :

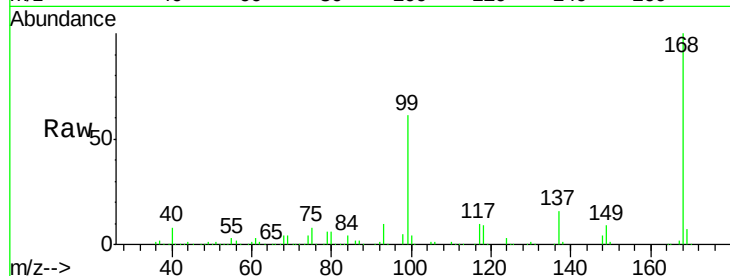
BPS1-TT-MW301I-20190316RE

Tot Ion:168 Resp: 227788

Ion Ratio Lower Upper

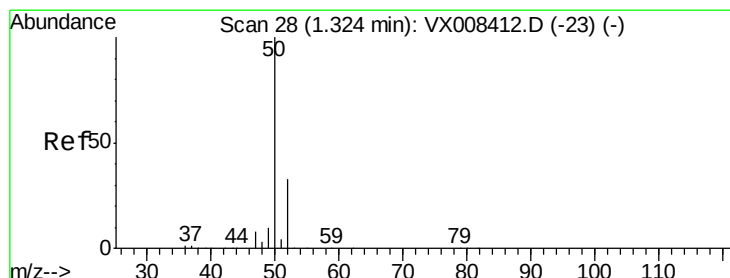
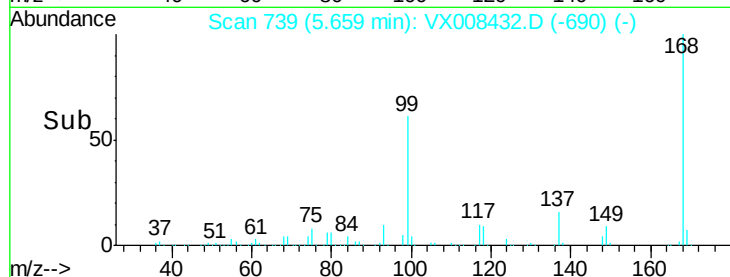
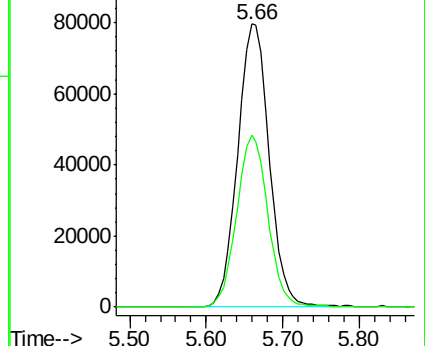
168 100

99 60.7 46.0 69.0



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: 1.32 min Scan# 27

Delta R.T. -0.01 min

Lab File: VX008432.D

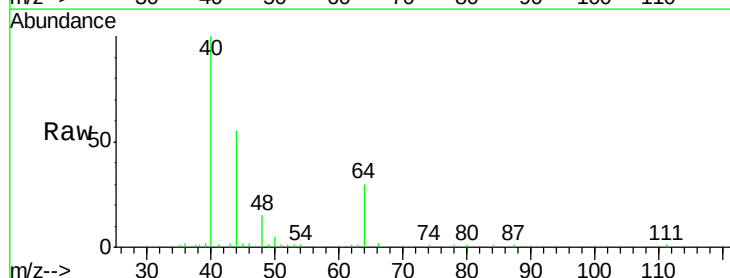
Acq: 26 Mar 2019 00:05

Tgt Ion: 50 Resp: 350

Ion Ratio Lower Upper

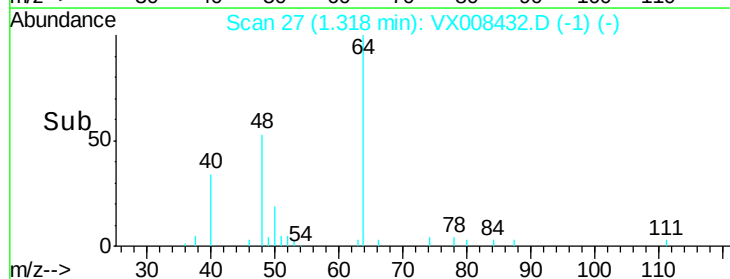
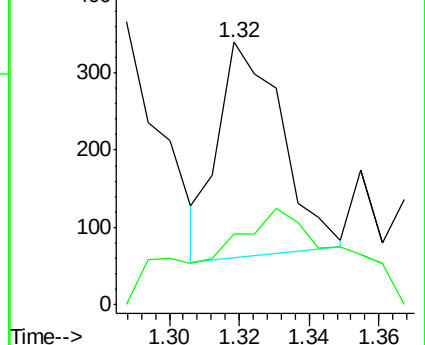
50 100

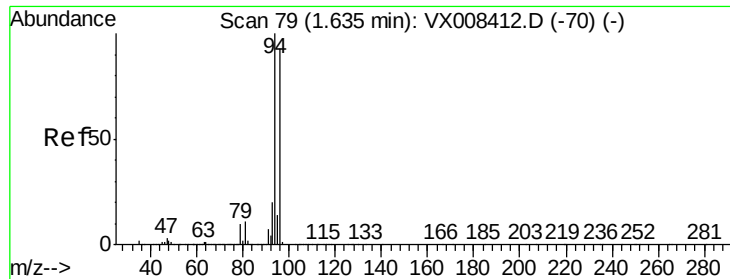
52 14.9 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 2.005 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX008432.D

Acq: 26 Mar 2019 00:05

Instrument :

MSVOA_X

ClientSampleId :

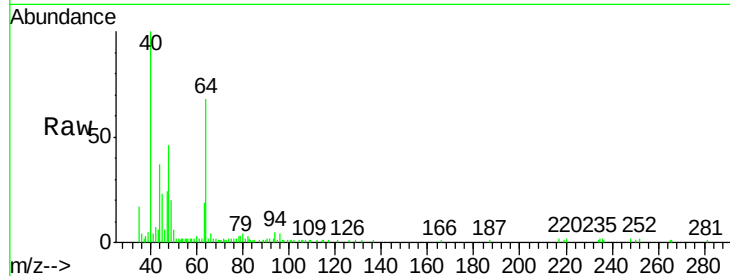
BPS1-TT-MW301I-20190316RE

Tot Ion: 94 Resp: 403

Ion Ratio Lower Upper

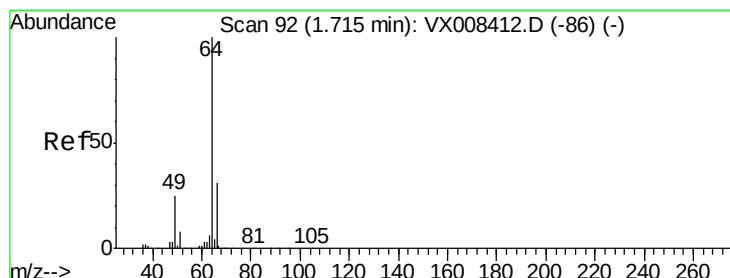
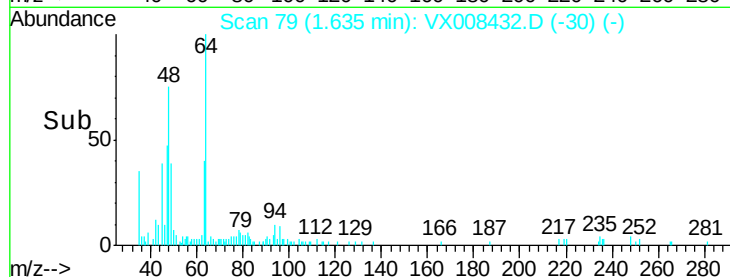
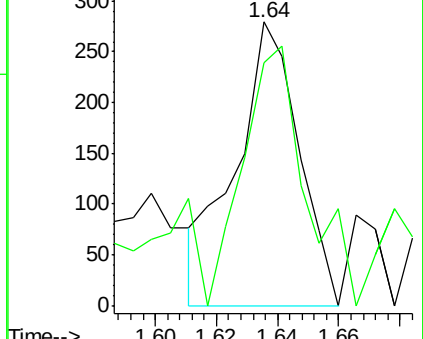
94 100

96 51.3 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 15.184 ug/l

RT: 1.60 min Scan# 74

Delta R.T. -0.11 min

Lab File: VX008432.D

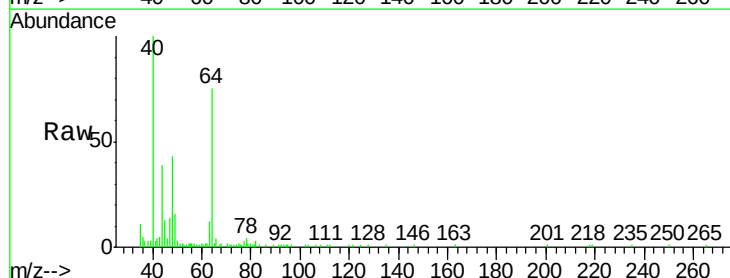
Acq: 26 Mar 2019 00:05

Tgt Ion: 64 Resp: 33721

Ion Ratio Lower Upper

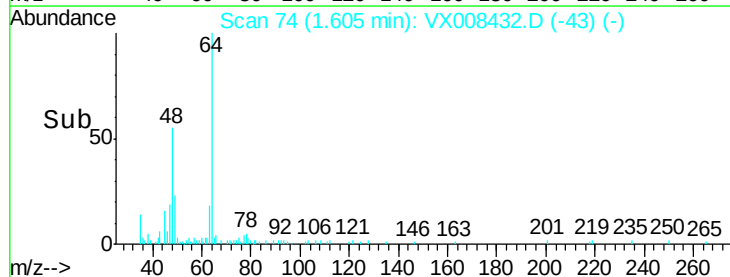
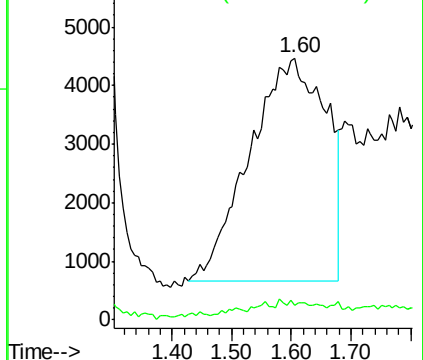
64 100

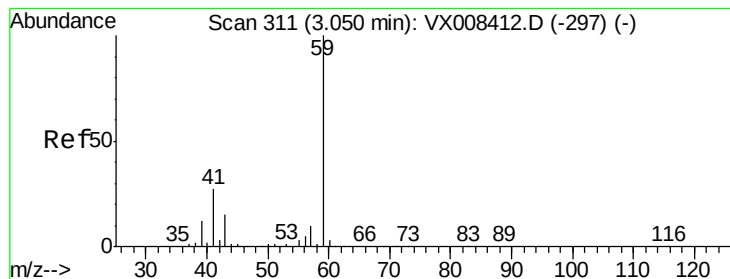
66 3.5 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#11

Tert butyl alcohol

Concen: 1.355 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.04 min

Lab File: VX008432.D

Acq: 26 Mar 2019 00:05

Instrument :

MSVOA_X

ClientSampleId :

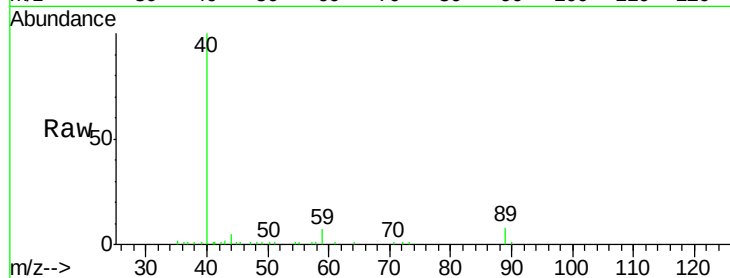
BPS1-TT-MW301I-20190316RE

Tot Ion: 59 Resp: 1037

Ion Ratio Lower Upper

59 100

57 7.7 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.01

400

300

200

100

0

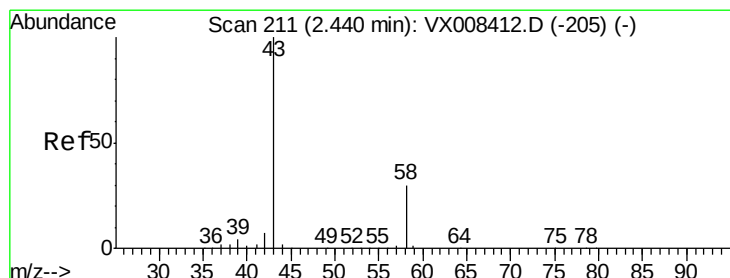
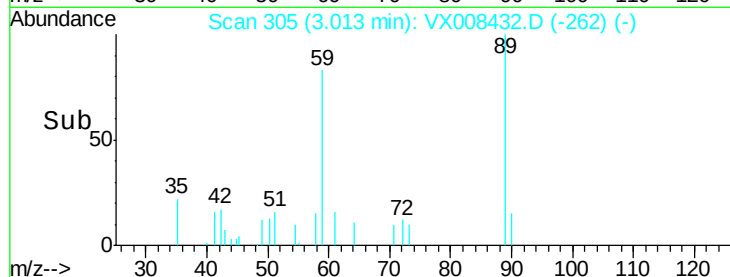
2.95

3.00

3.05

3.10

Time-->



#16

Acetone

Concen: 2.683 ug/l

RT: 2.44 min Scan# 211

Delta R.T. 0.00 min

Lab File: VX008432.D

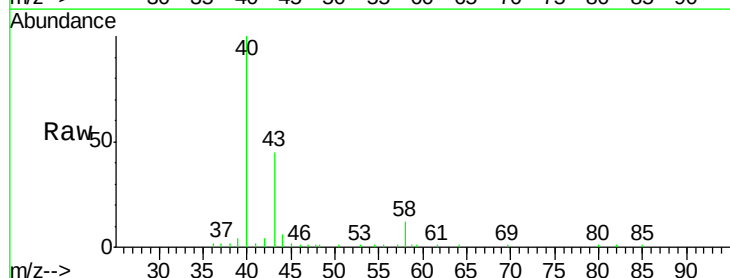
Acq: 26 Mar 2019 00:05

Tgt Ion: 43 Resp: 4843

Ion Ratio Lower Upper

43 100

58 25.7 24.2 36.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

3000

2500

2000

1500

1000

500

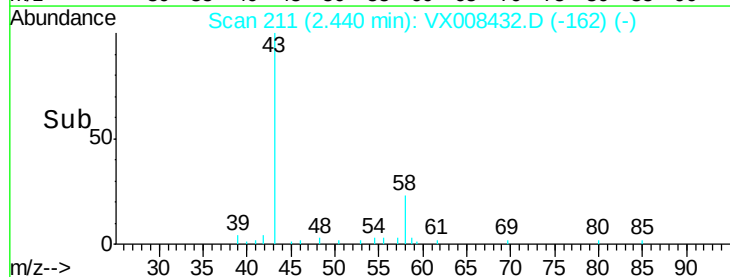
0

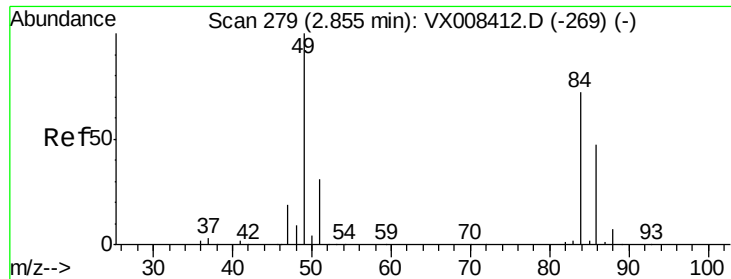
2.40

2.45

2.50

Time-->

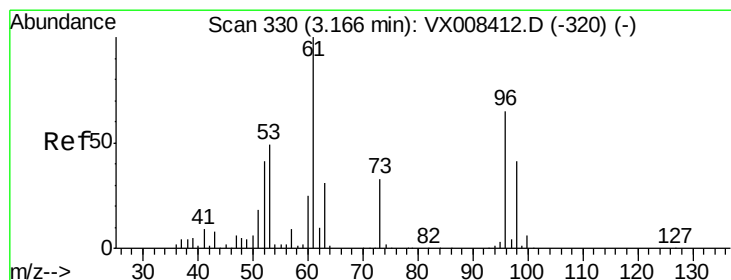
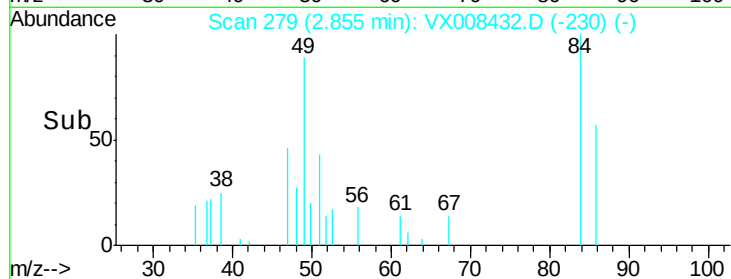
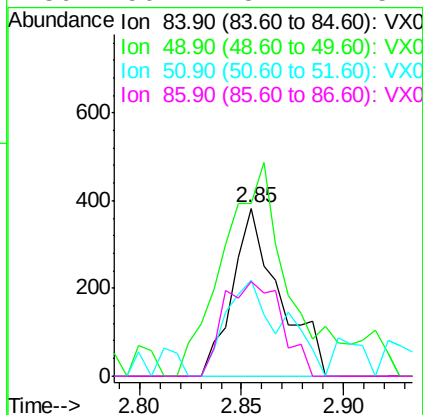
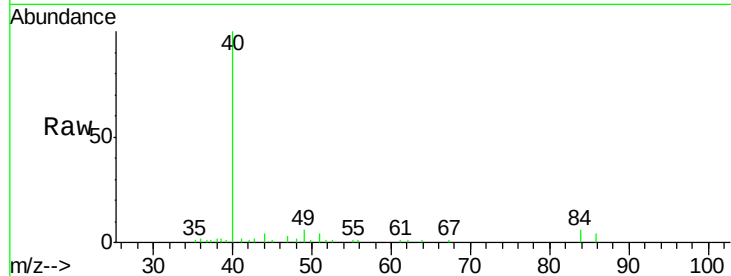




#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX008432.D
Acq: 26 Mar 2019 00:05

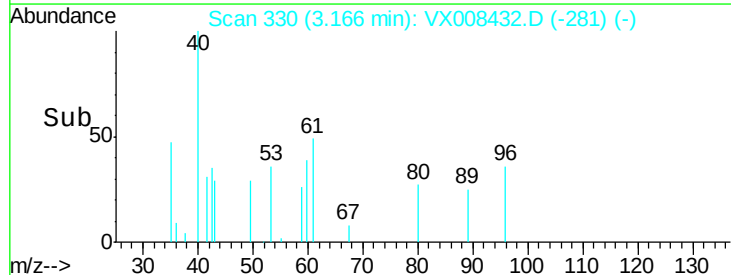
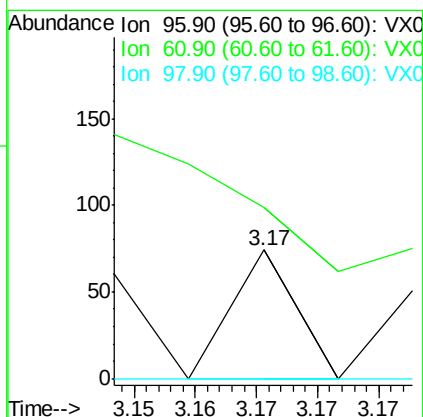
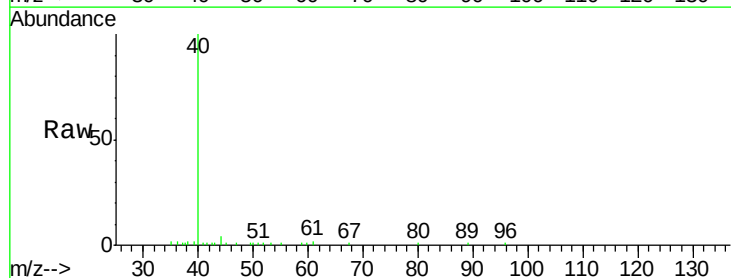
Instrument :
MSVOA_X
ClientSampleId :
BPS1-TT-MW301I-20190316RE

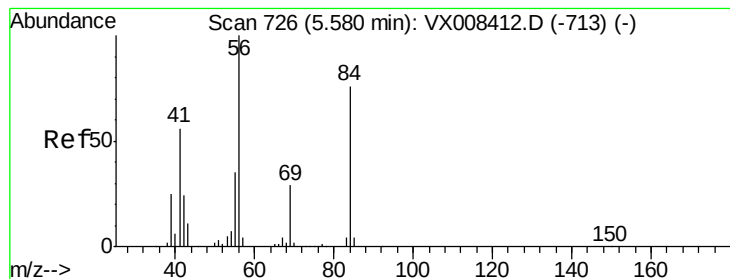
Tot Ion: 84 Resp: 611
Ion Ratio Lower Upper
84 100
49 83.3 110.6 165.8#
51 57.2 33.9 50.9#
86 56.7 52.2 78.2



#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 3.17 min Scan# 330
Delta R.T. 0.00 min
Lab File: VX008432.D
Acq: 26 Mar 2019 00:05

Tgt Ion: 96 Resp: 27
Ion Ratio Lower Upper
96 100
61 50.0 122.6 184.0#
98 0.0 50.9 76.3#





#31

Cyclohexane

Concen: 0.996 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX008432.D

Acq: 26 Mar 2019 00:05

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW301I-20190316RE

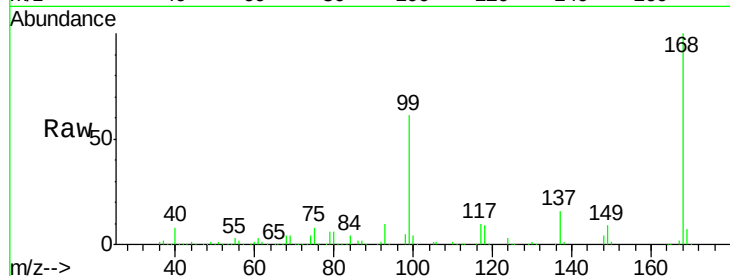
Tot Ion: 56 Resp: 5511

Ion Ratio Lower Upper

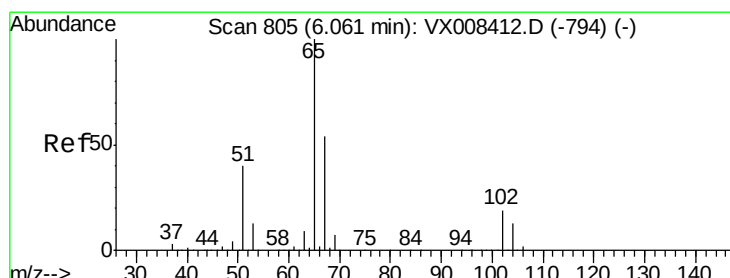
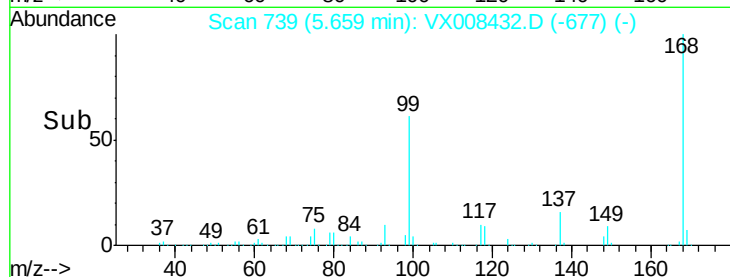
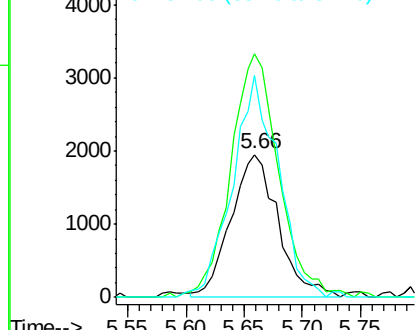
56 100

69 167.0 23.2 34.8#

84 151.3 60.7 91.1#



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: 47.401 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX008432.D

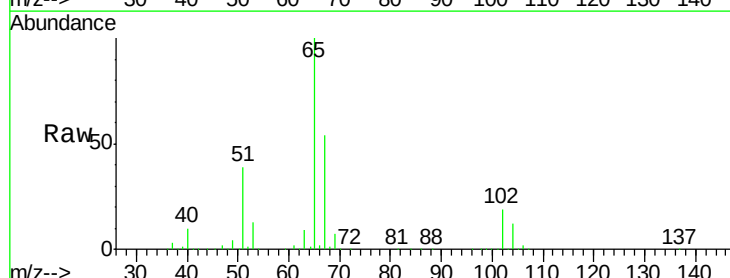
Acq: 26 Mar 2019 00:05

Tgt Ion: 65 Resp: 163691

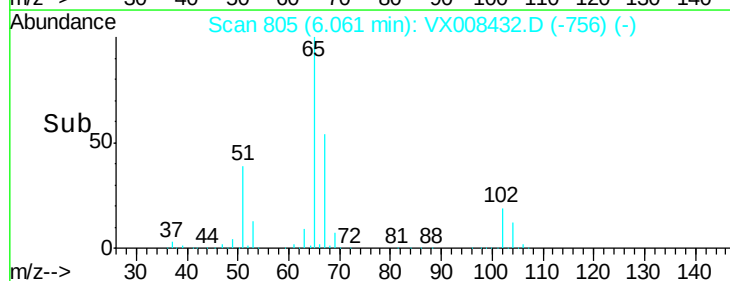
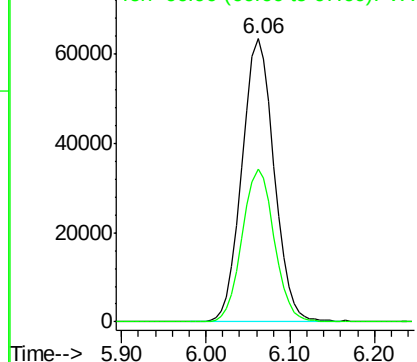
Ion Ratio Lower Upper

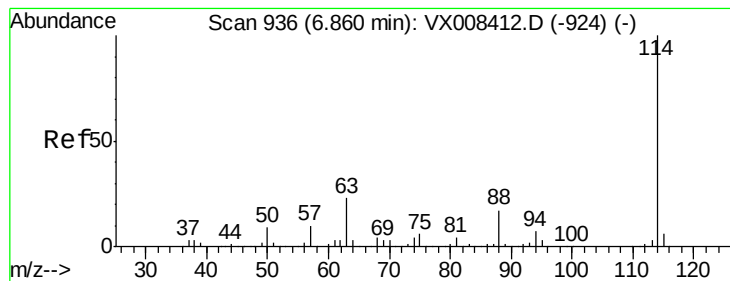
65 100

67 54.2 0.0 109.4



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. -0.01 min

Lab File: VX008432.D

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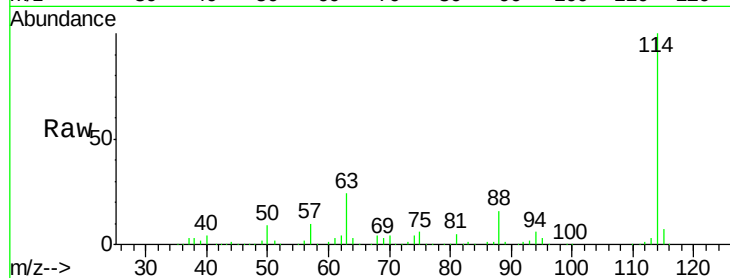
Tot Ion:114 Resp: 389973

Ion Ratio Lower Upper

114 100

63 24.0 0.0 46.4

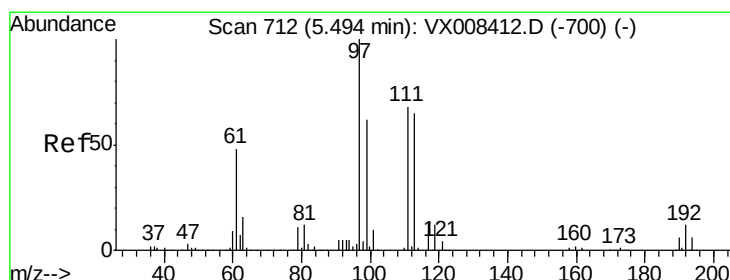
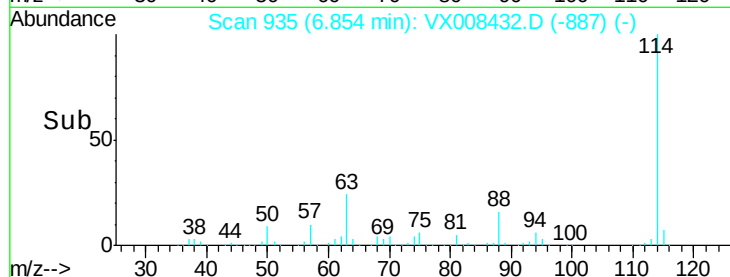
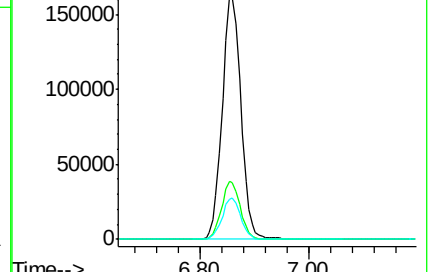
88 16.5 0.0 33.2



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: 47.335 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX008432.D

Acq: 26 Mar 2019 00:05

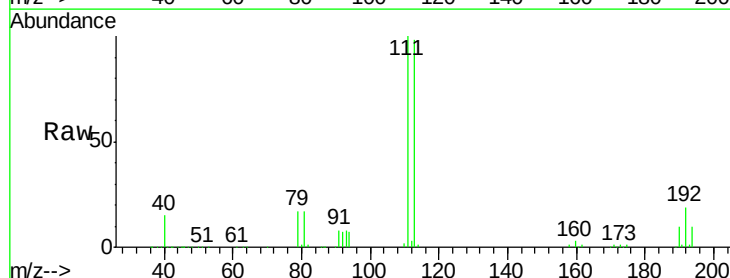
Tgt Ion:113 Resp: 120363

Ion Ratio Lower Upper

113 100

111 102.6 83.0 124.4

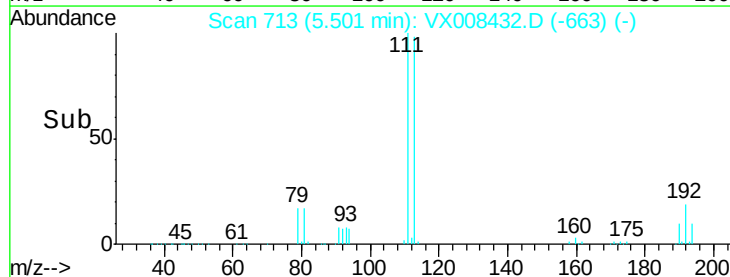
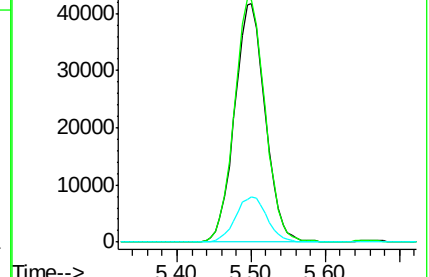
192 19.6 15.6 23.4

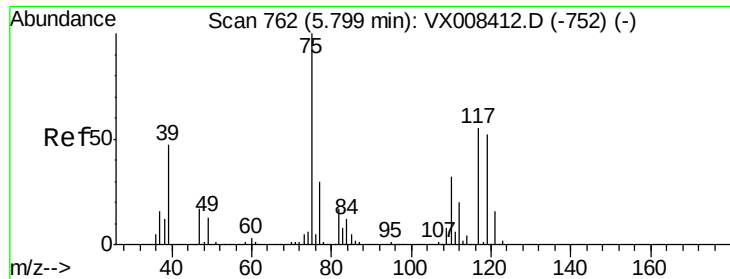


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

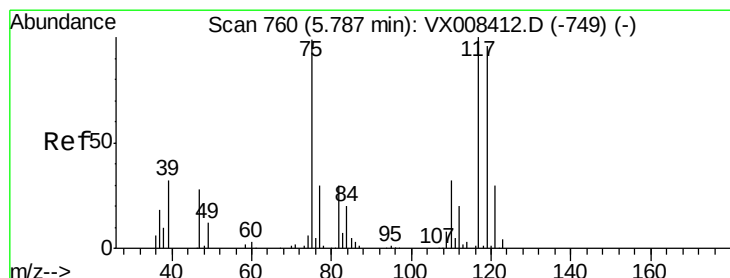
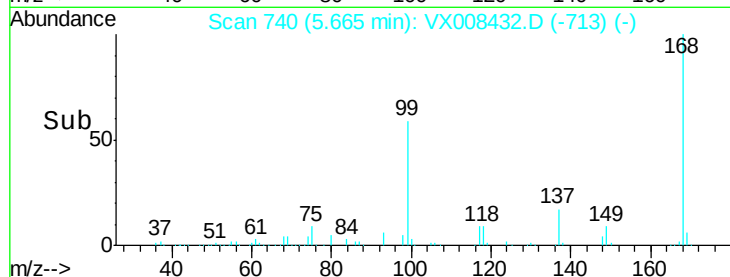
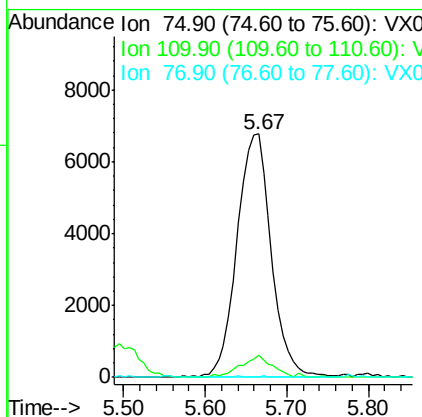
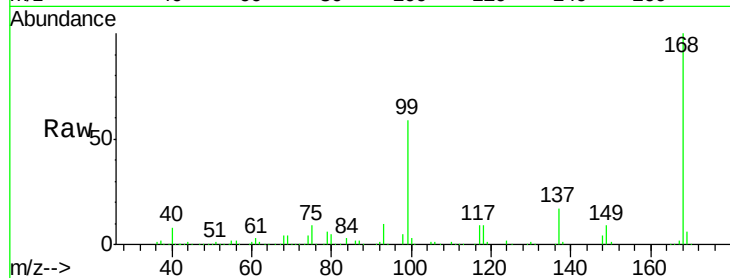




#36
 1,1-Dichloropropene
 Concen: 4.757 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX008432.D
 Acq: 26 Mar 2019 00:05

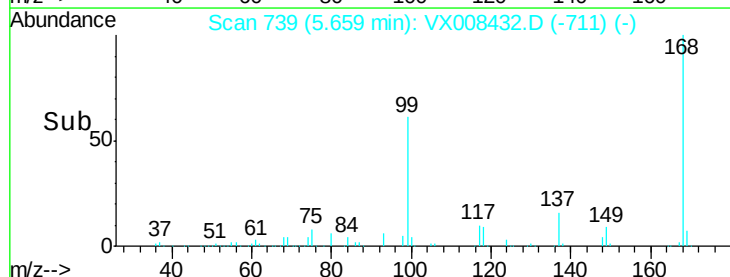
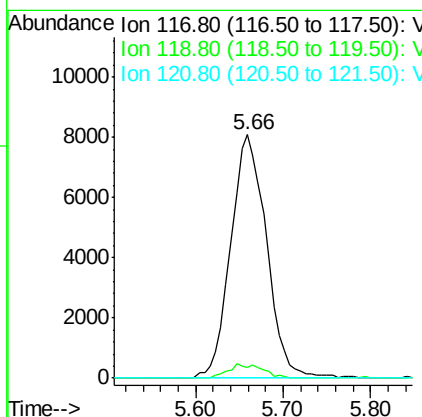
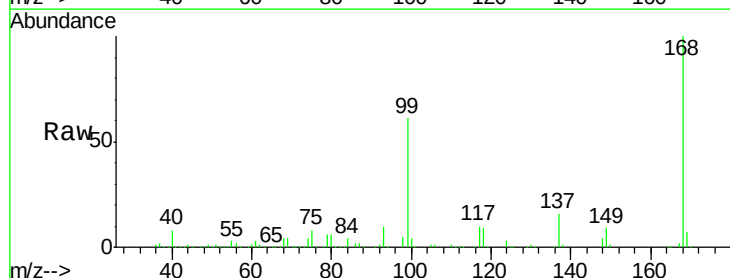
Instrument :
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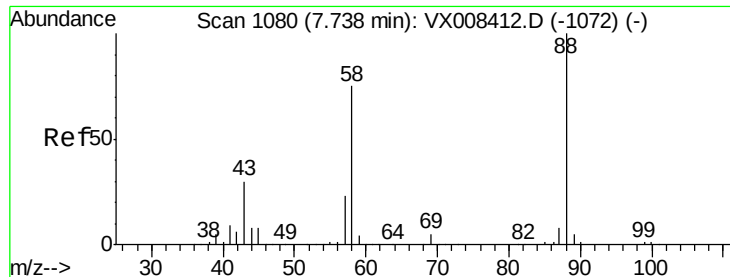
Tot Ion: 75 Resp: 19779
 Ion Ratio Lower Upper
 75 100
 110 8.2 16.6 49.7#
 77 0.1 24.2 36.2#



#38
 Carbon Tetrachloride
 Concen: 6.612 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX008432.D
 Acq: 26 Mar 2019 00:05

Tgt Ion: 117 Resp: 22942
 Ion Ratio Lower Upper
 117 100
 119 4.6 76.7 115.1#
 121 0.0 24.3 36.5#





#49

1,4-Dioxane

Concen: 0.210 ug/l

RT: 7.65 min Scan# 1066

Delta R.T. -0.09 min

Lab File: VX008432.D

Acq: 26 Mar 2019 00:05

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW301I-20190316RE

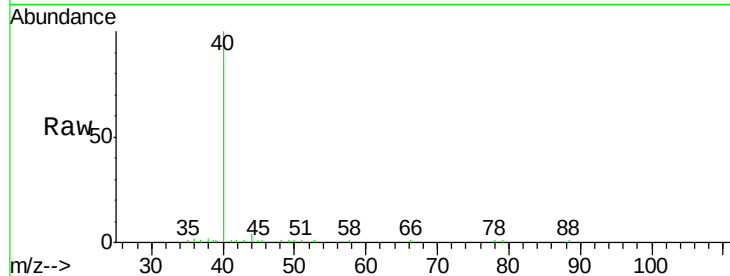
Tot Ion: 88 Resp: 18

Ion Ratio Lower Upper

88 100

43 861.1 28.6 43.0#

58 127.8 63.0 94.4#



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

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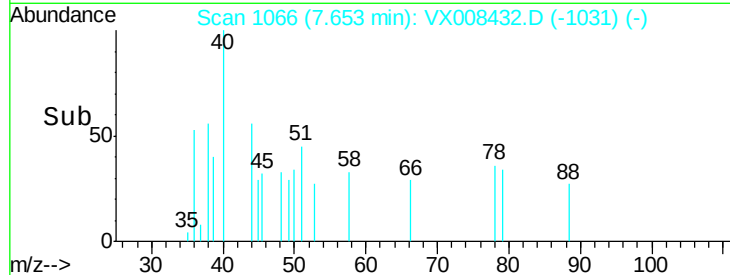
7.65

7.65

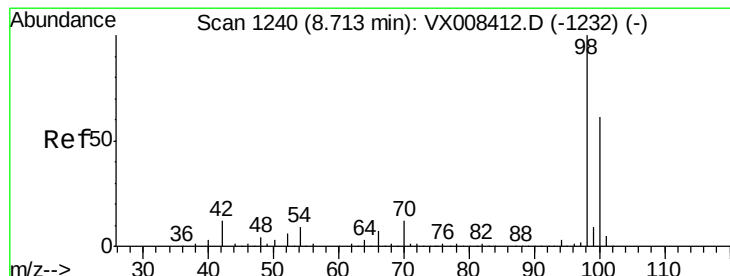
7.65

7.65

7.65



Time-->



#50

Toluene-d8

Concen: 47.872 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008432.D

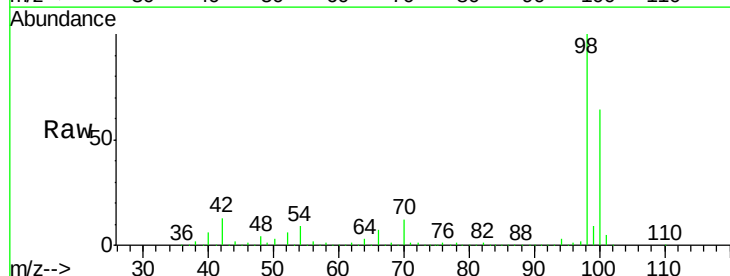
Acq: 26 Mar 2019 00:05

Tgt Ion: 98 Resp: 486741

Ion Ratio Lower Upper

98 100

100 63.8 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

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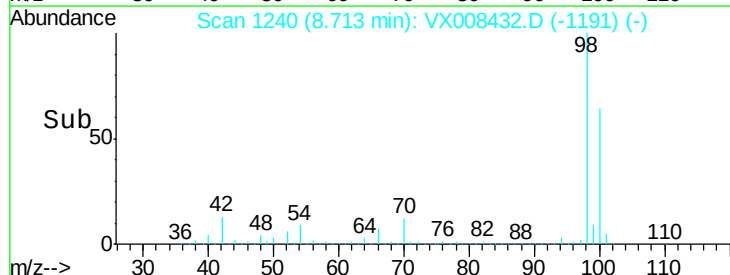
8.71

8.71

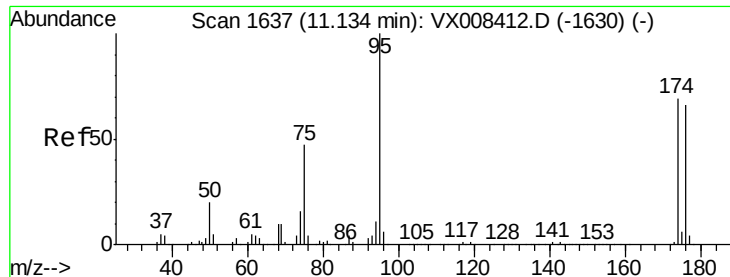
8.71

8.71

8.71



Time-->



#62

4-Bromofluorobenzene

Concen: 43.350 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008432.D

Acq: 26 Mar 2019 00:05

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW301I-20190316RE

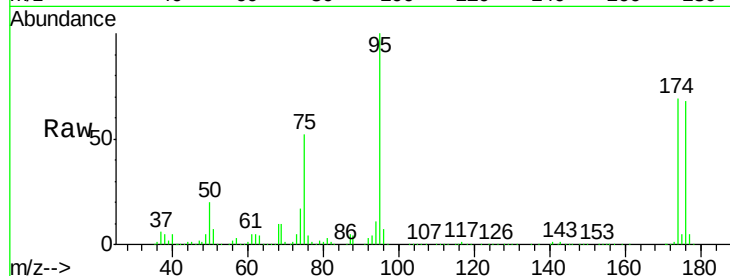
Tot Ion: 95 Resp: 163331

Ion Ratio Lower Upper

95 100

174 74.4 0.0 147.2

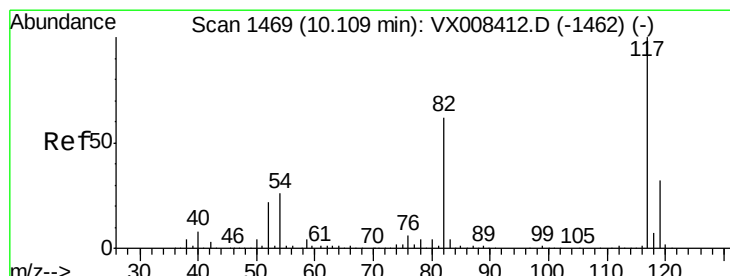
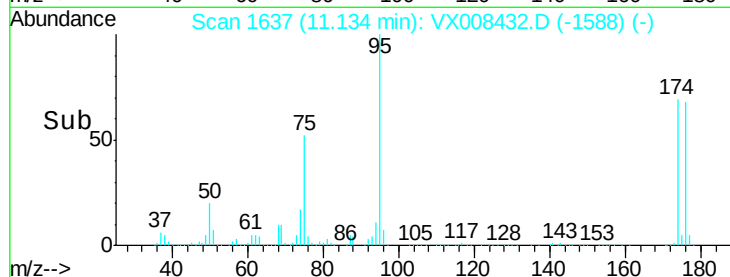
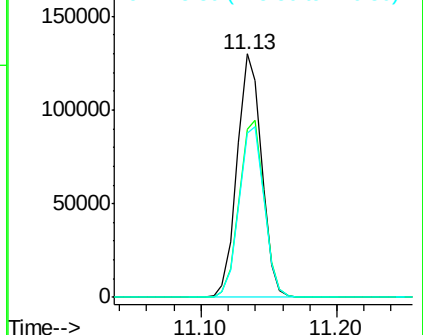
176 72.0 0.0 142.4



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: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX008432.D

Acq: 26 Mar 2019 00:05

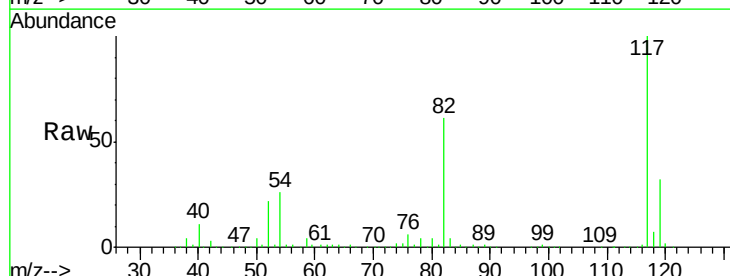
Tgt Ion: 117 Resp: 335893

Ion Ratio Lower Upper

117 100

82 60.9 49.4 74.2

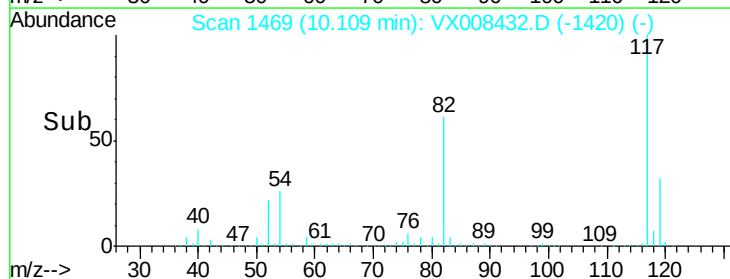
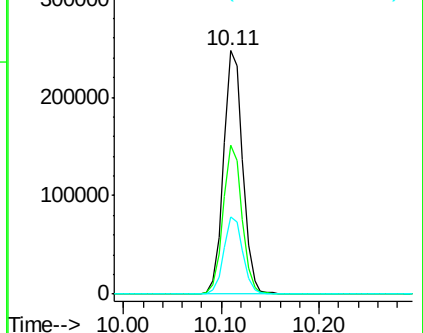
119 31.7 25.4 38.0

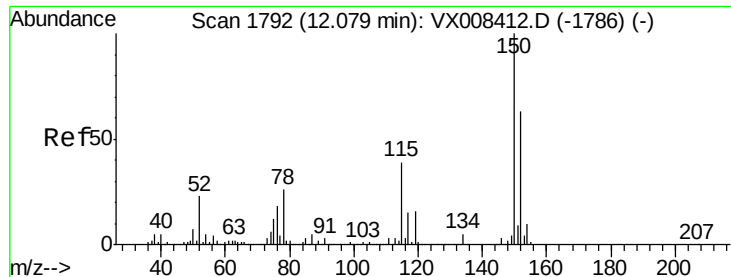


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



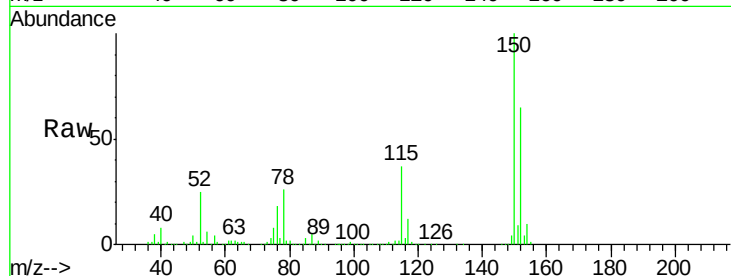


#72

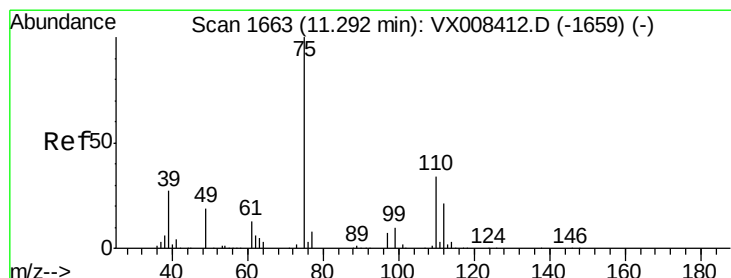
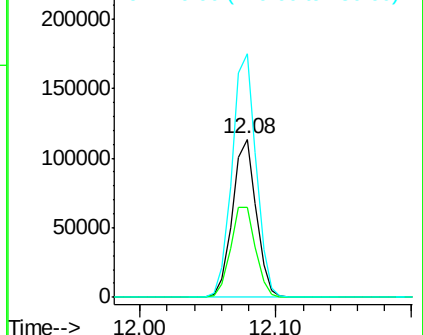
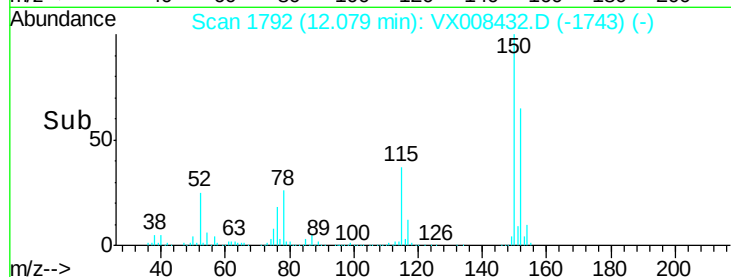
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX008432.D
Acq: 26 Mar 2019 00:05

Instrument :
MSVOA_X
ClientSampleId :
BPS1-TT-MW301I-20190316RE

Tot Ion:152 Resp: 137708
Ion Ratio Lower Upper
152 100
115 60.4 43.5 130.5
150 156.6 0.0 348.8



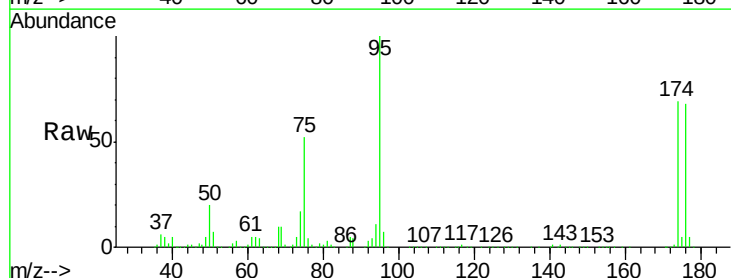
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



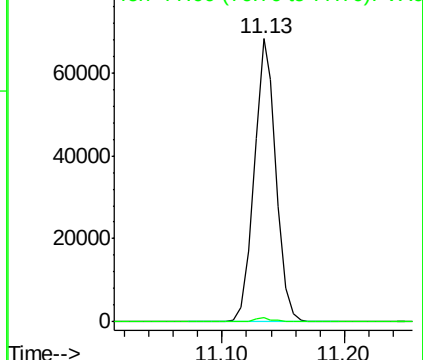
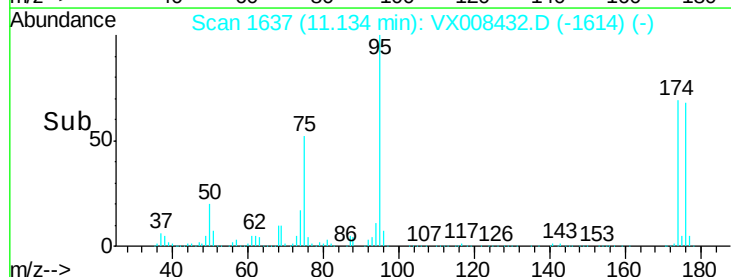
#76

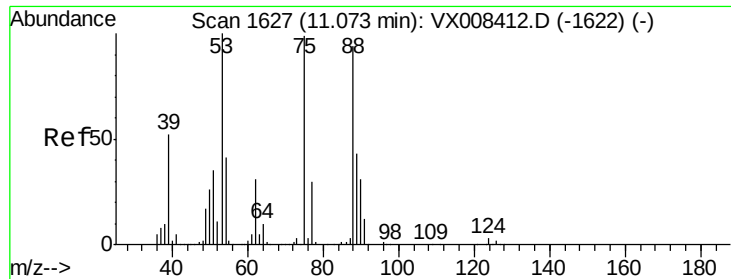
1,2,3-Trichloropropane
Concen: 20.671 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX008432.D
Acq: 26 Mar 2019 00:05

Tgt Ion: 75 Resp: 84624
Ion Ratio Lower Upper
75 100
77 1.3 21.9 65.7#



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: 66.205 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008432.D

Acq: 26 Mar 2019 00:05

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW301I-20190316RE

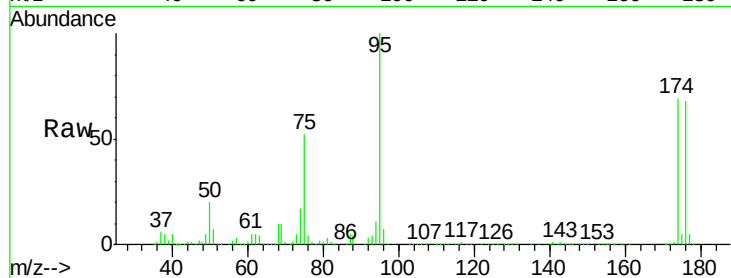
Tot Ion: 75 Resp: 84624

Ion Ratio Lower Upper

75 100

53 0.2 82.1 123.1#

89 0.0 34.6 52.0#



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

