

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032519\
 Data File : VX008430.D
 Acq On : 25 Mar 2019 23:19
 Operator : JC/SP
 Sample : K1969-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-TT-AOC22-MW10-20190316RE

Quant Time: Mar 26 06:06:58 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	231845	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	394842	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	338959	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	142514	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	167123	47.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.10%	
35) Dibromofluoromethane	5.50	113	122112	47.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.86%	
50) Toluene-d8	8.71	98	494080	47.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.98%	
62) 4-Bromofluorobenzene	11.13	95	168572	44.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.38%	

Target Compounds

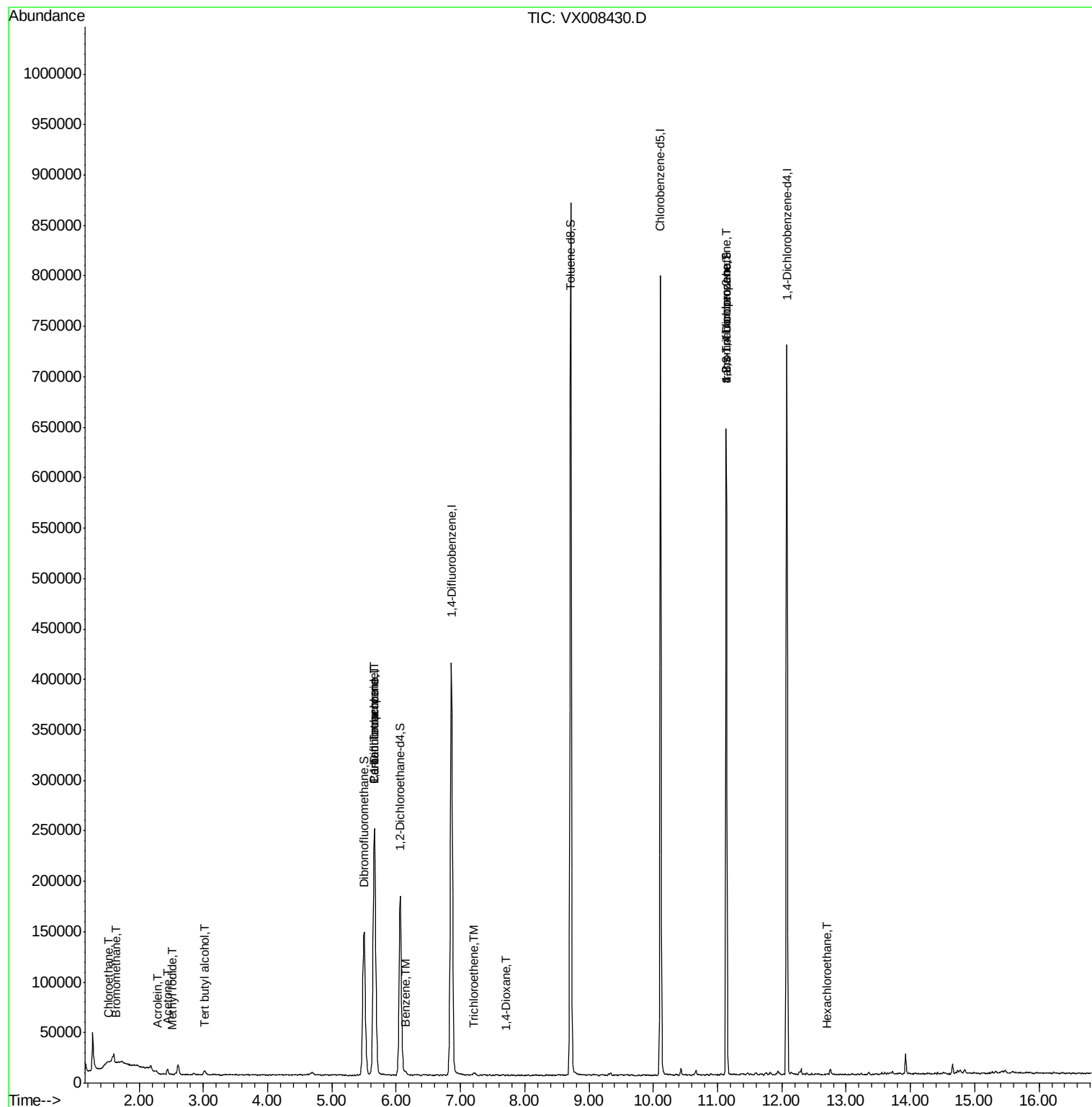
					Qvalue	
3) Chloromethane	1.33	50	167	Below Cal	#	1
5) Bromomethane	1.65	94	204	1.906	ug/l #	1
6) Chloroethane	1.53	64	16312	7.216	ug/l #	55
10) Methyl Iodide	2.52	142	99	4.165	ug/l #	42
11) Tert butyl alcohol	3.01	59	2584	3.318	ug/l #	87
13) Acrolein	2.29	56	213	0.377	ug/l #	14
16) Acetone	2.44	43	6090	3.315	ug/l	91
20) Methylene Chloride	2.85	84	457	Below Cal	#	68
21) trans-1,2-Dichloroethene	3.17	96	82	Below Cal	#	35
36) 1,1-Dichloropropene	5.66	75	19932	4.735	ug/l #	51
38) Carbon Tetrachloride	5.66	117	22962	6.536	ug/l #	16
40) Benzene	6.14	78	3139	0.249	ug/l	93
44) Trichloroethene	7.21	130	737	0.249	ug/l	66
49) 1,4-Dioxane	7.71	88	19	0.219	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	86814	20.490	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	86814	65.628	ug/l #	9
90) Hexachloroethane	12.70	117	350	0.211	ug/l #	10

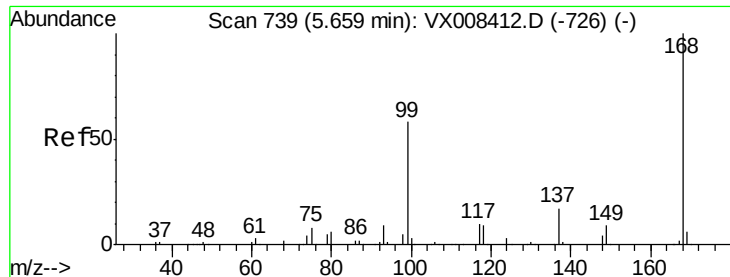
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X032519W.M
Quant Title : SW846 8260
QLast Update : Tue Mar 26 04:58:03 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX008430.D

Acq: 25 Mar 2019 23:19

Instrument :

MSVOA_X

ClientSampleId :

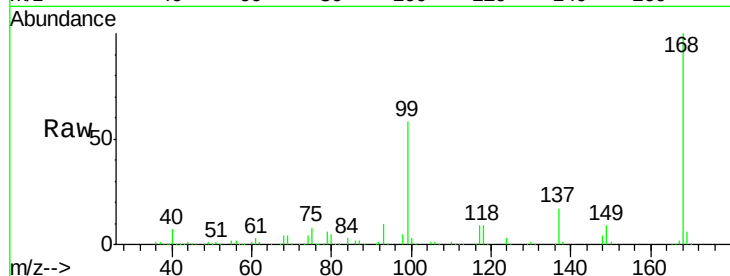
BP-TT-AOC22-MW10-20190316RE

Tot Ion:168 Resp: 231845

Ion Ratio Lower Upper

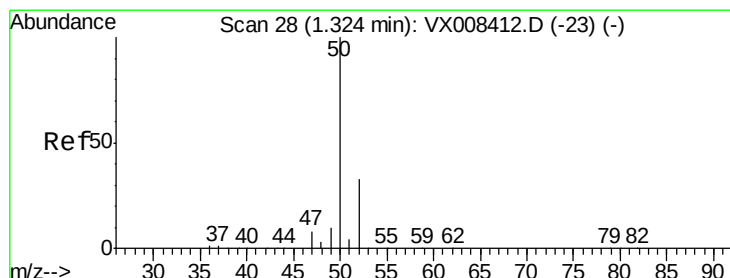
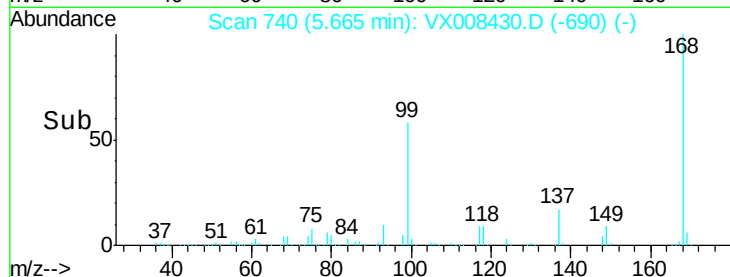
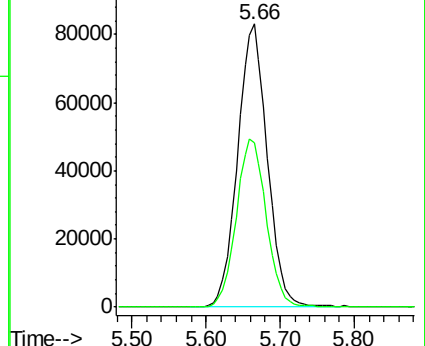
168 100

99 58.2 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: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX008430.D

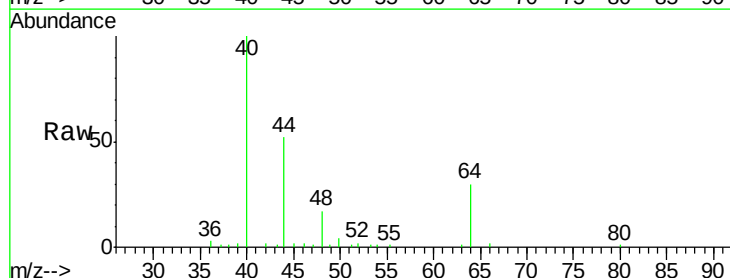
Acq: 25 Mar 2019 23:19

Tgt Ion: 50 Resp: 167

Ion Ratio Lower Upper

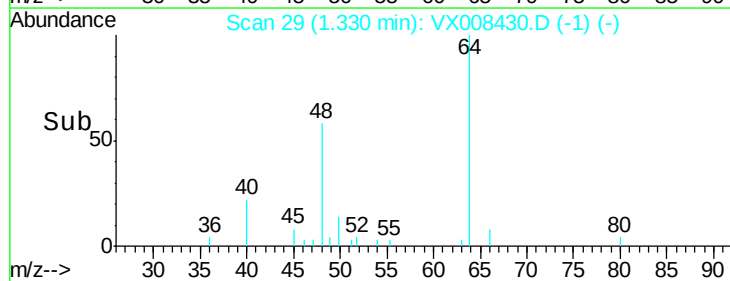
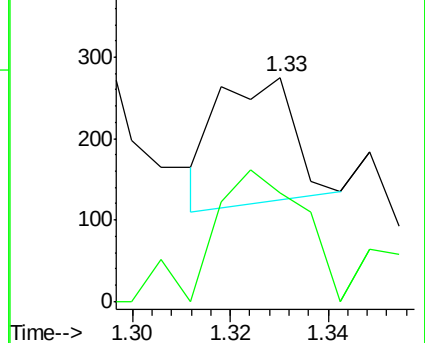
50 100

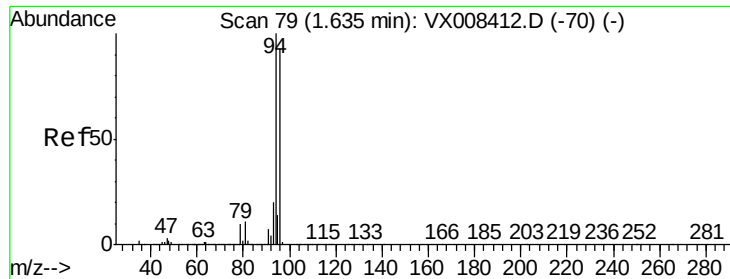
52 95.0 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 1.906 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX008430.D

Acq: 25 Mar 2019 23:19

Instrument :

MSVOA_X

ClientSampleId :

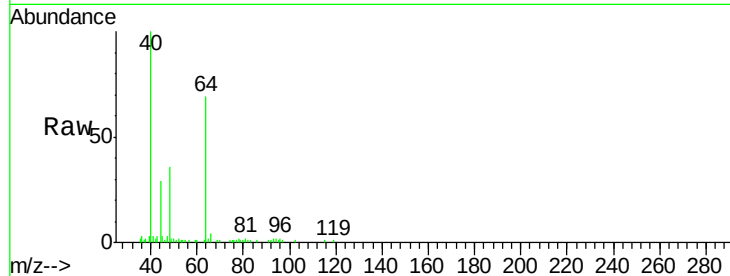
BP-TT-AOC22-MW10-20190316RE

Tot Ion: 94 Resp: 204

Ion Ratio Lower Upper

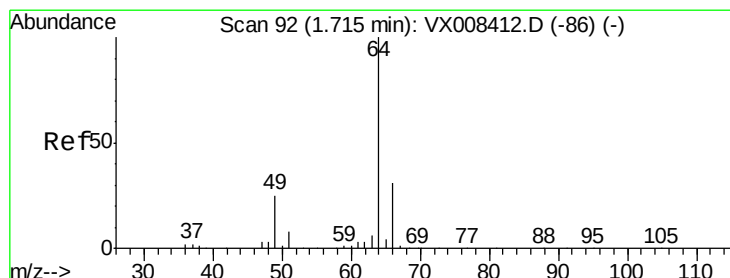
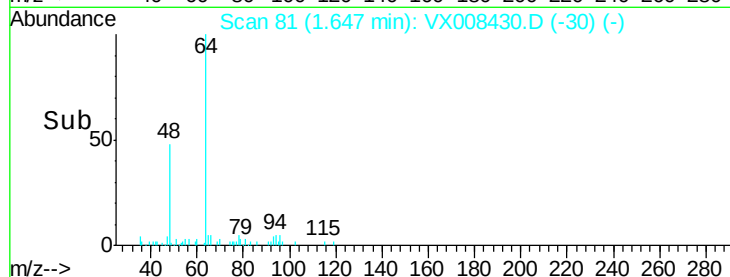
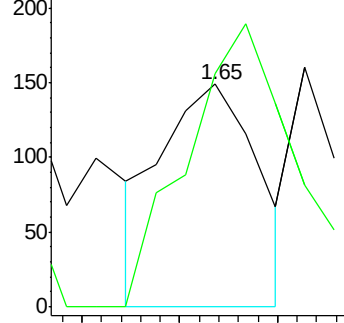
94 100

96 190.2 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: 7.216 ug/l

RT: 1.53 min Scan# 62

Delta R.T. -0.18 min

Lab File: VX008430.D

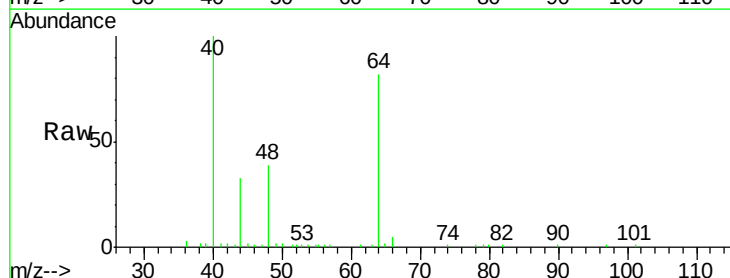
Acq: 25 Mar 2019 23:19

Tgt Ion: 64 Resp: 16312

Ion Ratio Lower Upper

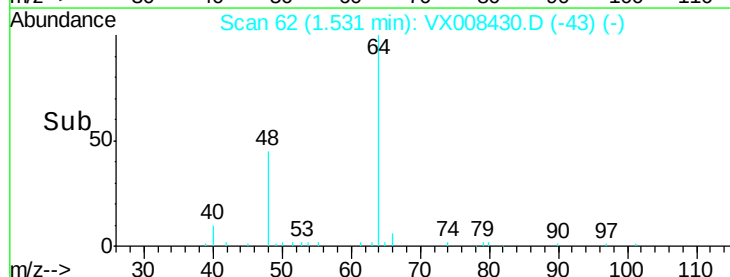
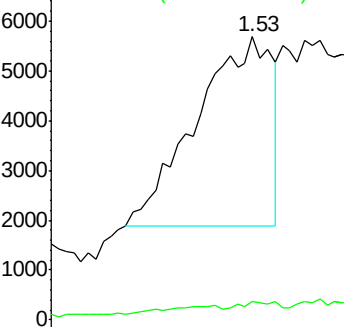
64 100

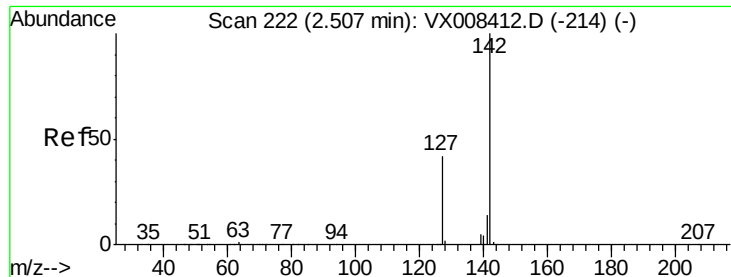
66 6.4 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

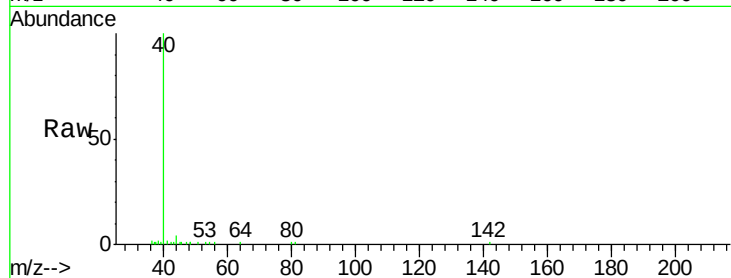




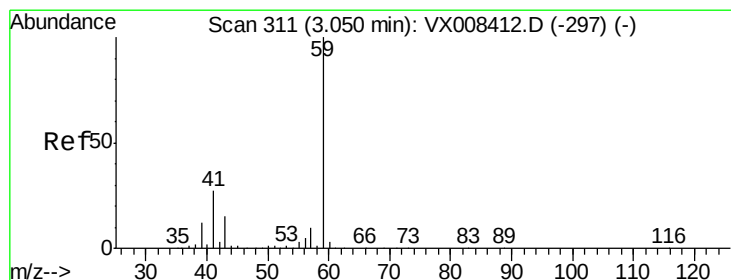
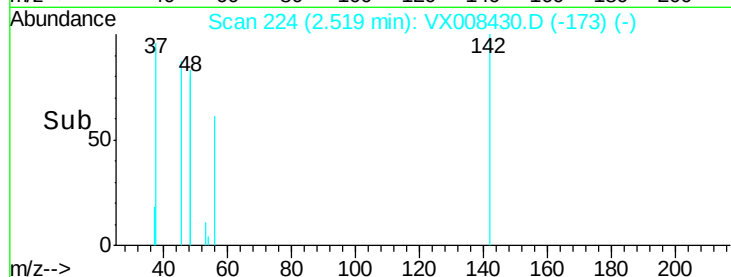
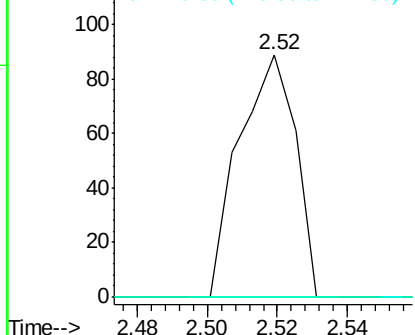
#10
Methvl Iodide
Concen: 4.165 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX008430.D
Acq: 25 Mar 2019 23:19

Instrument :
MSVOA_X
ClientSampleId :
BP-TT-AOC22-MW10-20190316RE

Tot Ion:142 Resp: 99
Ion Ratio Lower Upper
142 100
127 0.0 33.6 50.4#
141 0.0 11.3 16.9#

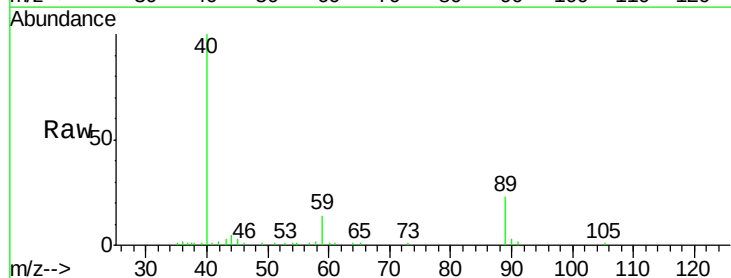


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

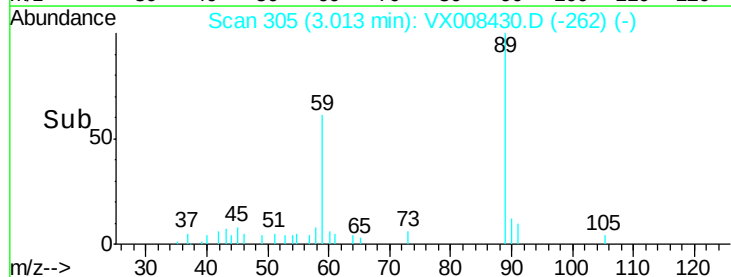
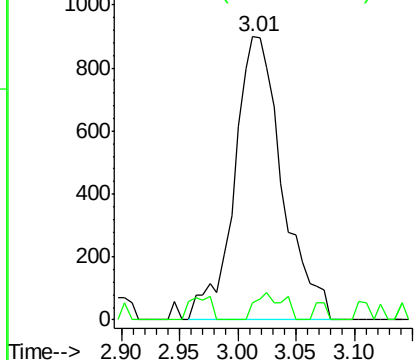


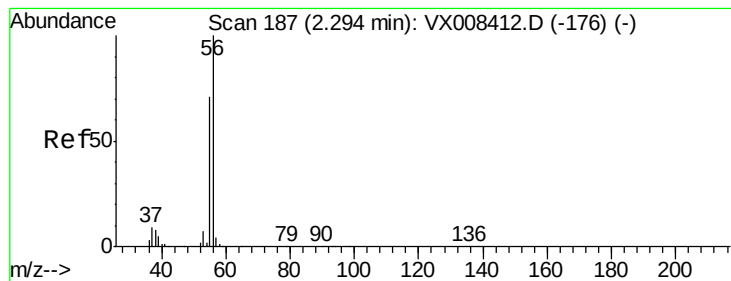
#11
Tert butyl alcohol
Concen: 3.318 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX008430.D
Acq: 25 Mar 2019 23:19

Tgt Ion: 59 Resp: 2584
Ion Ratio Lower Upper
59 100
57 5.6 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.377 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX008430.D

Acq: 25 Mar 2019 23:19

Instrument :

MSVOA_X

ClientSampleId :

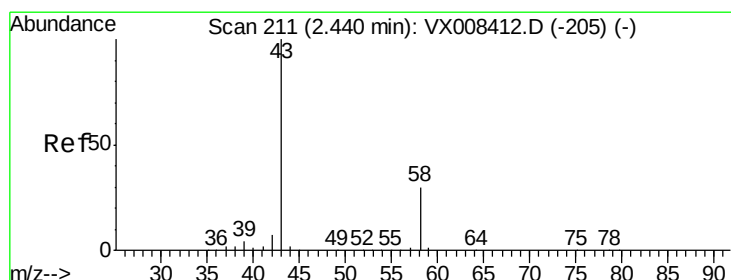
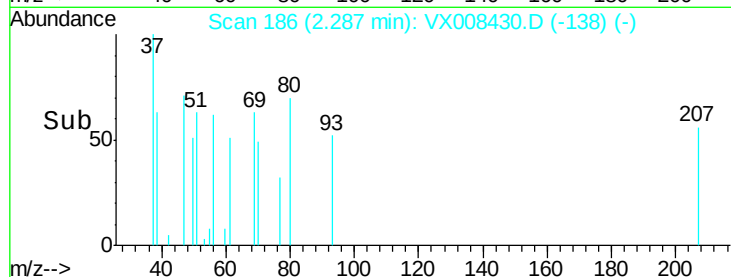
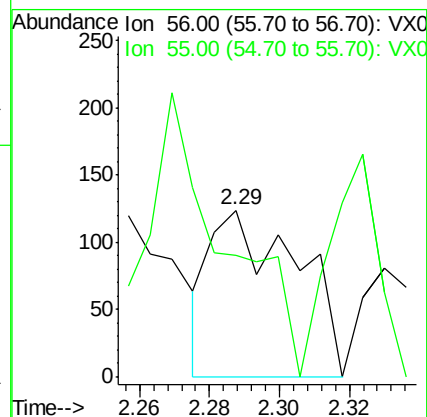
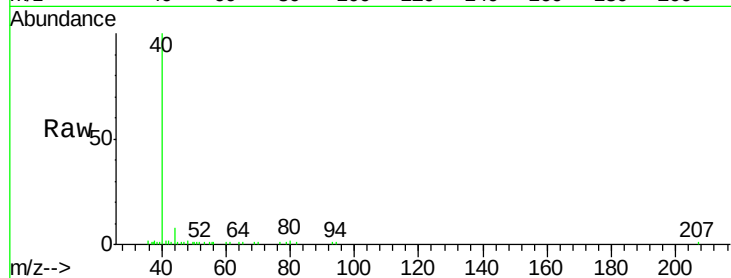
BP-TT-AOC22-MW10-20190316RE

Tot Ion: 56 Resp: 213

Ion Ratio Lower Upper

56 100

55 0.0 56.5 84.7#



#16

Acetone

Concen: 3.315 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX008430.D

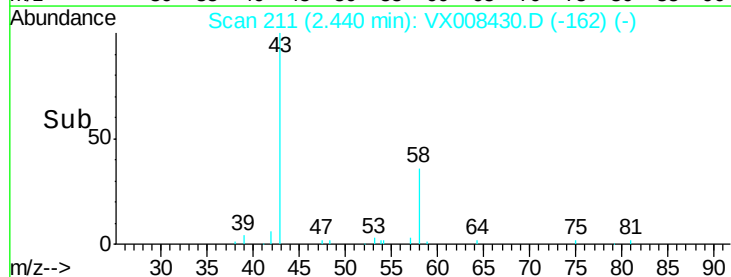
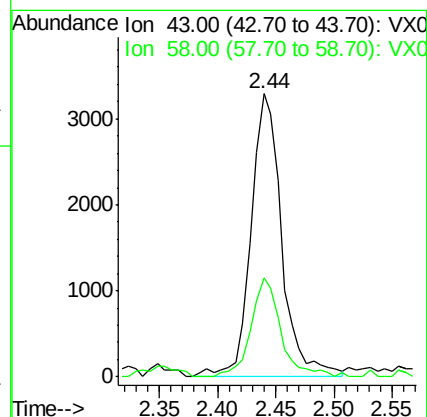
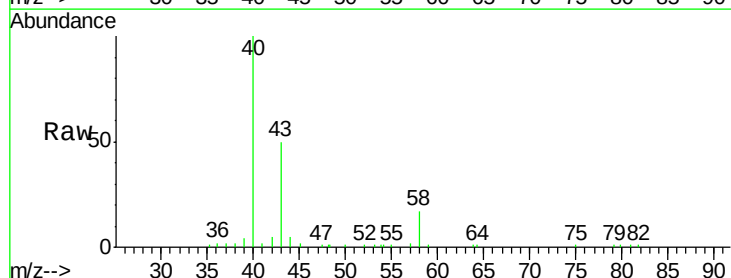
Acq: 25 Mar 2019 23:19

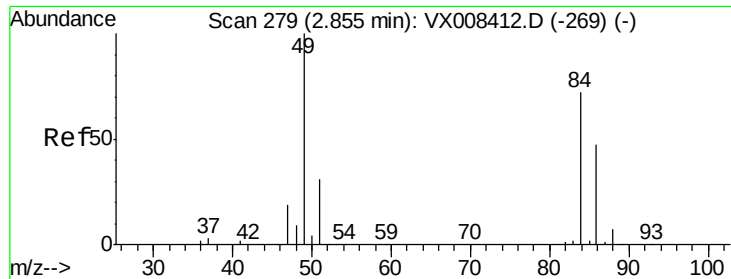
Tgt Ion: 43 Resp: 6090

Ion Ratio Lower Upper

43 100

58 34.9 24.2 36.2





#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 278

Delta R.T. -0.01 min

Lab File: VX008430.D

Acq: 25 Mar 2019 23:19

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-AOC22-MW10-20190316RE

Tot Ion: 84 Resp: 457

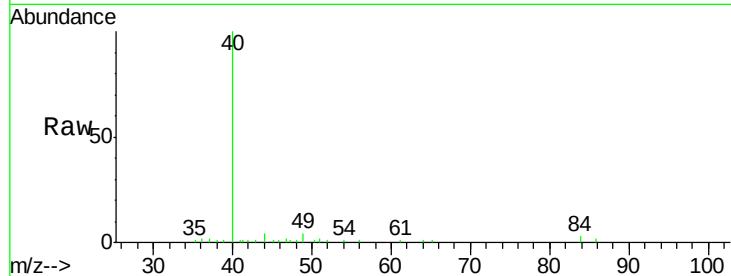
Ion Ratio Lower Upper

84 100

49 81.2 110.6 165.8#

51 25.1 33.9 50.9#

86 61.5 52.2 78.2

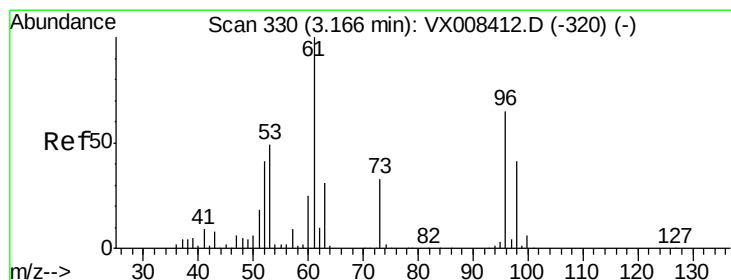
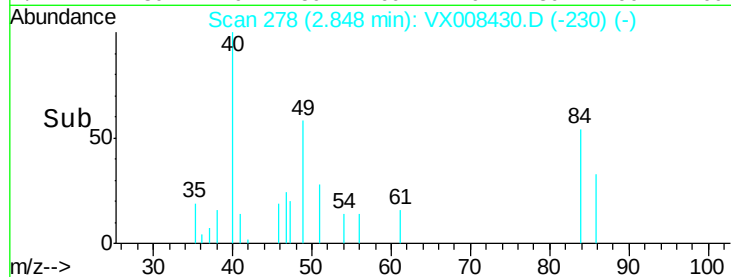
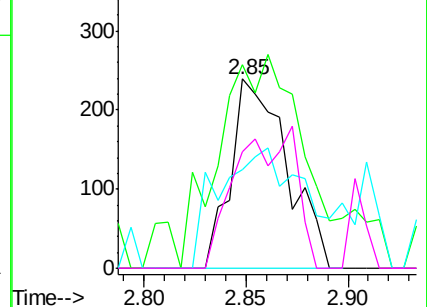


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 3.17 min Scan# 330

Delta R.T. 0.00 min

Lab File: VX008430.D

Acq: 25 Mar 2019 23:19

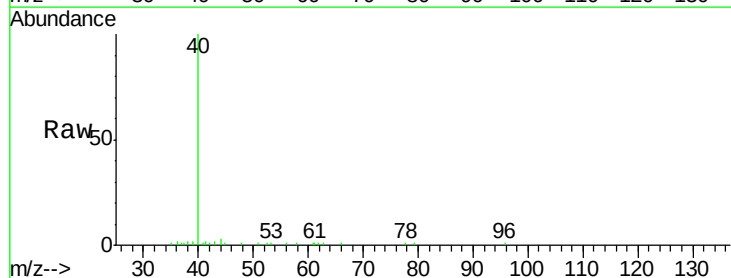
Tgt Ion: 96 Resp: 82

Ion Ratio Lower Upper

96 100

61 78.7 122.6 184.0#

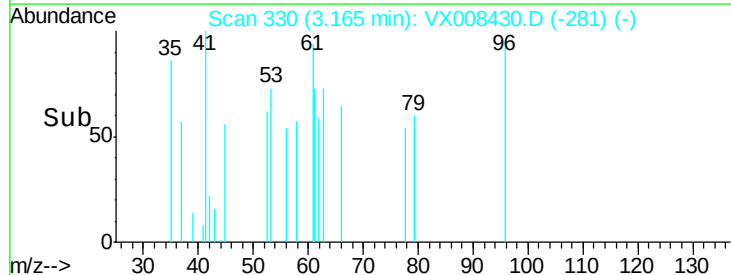
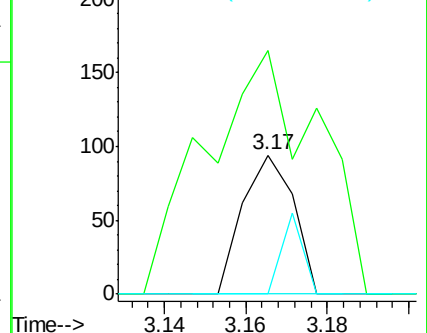
98 0.0 50.9 76.3#

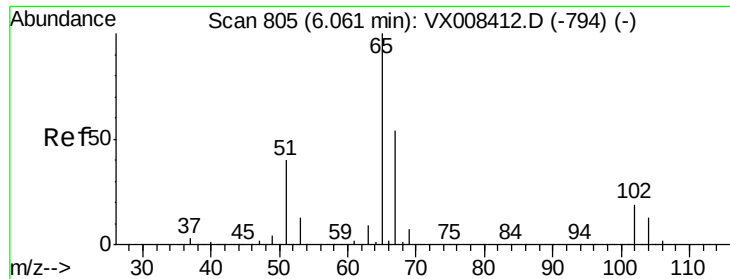


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

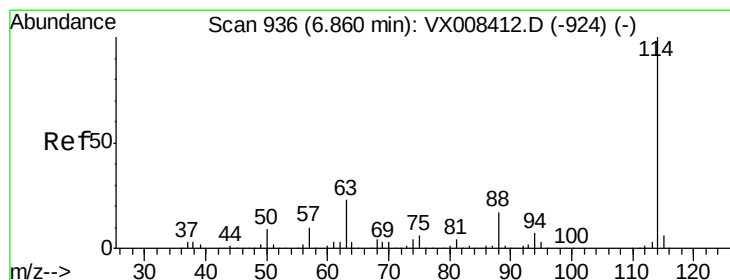
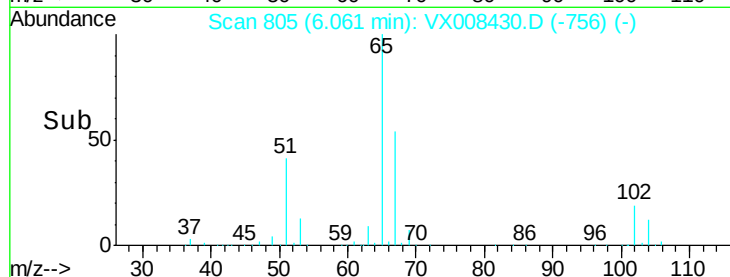
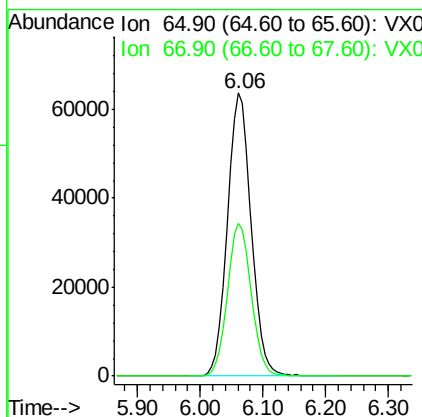
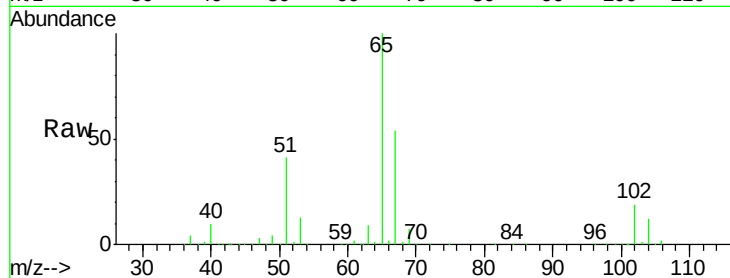




#33
 1,2-Dichloroethane-d4
 Concen: 47.548 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX008430.D
 Acq: 25 Mar 2019 23:19

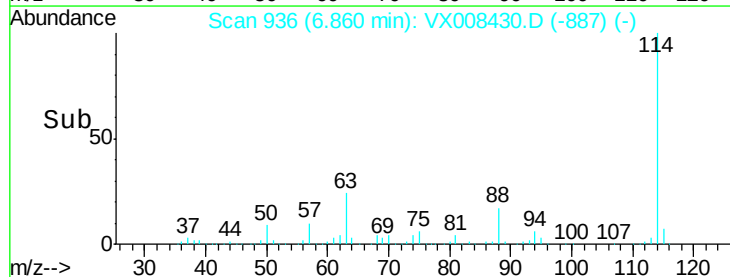
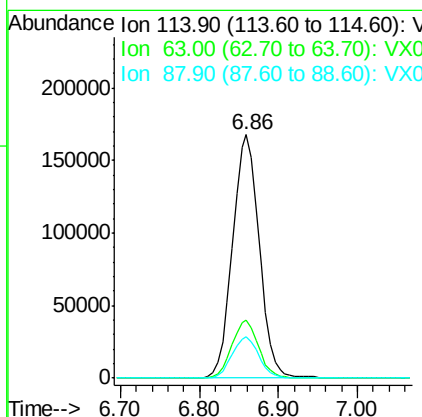
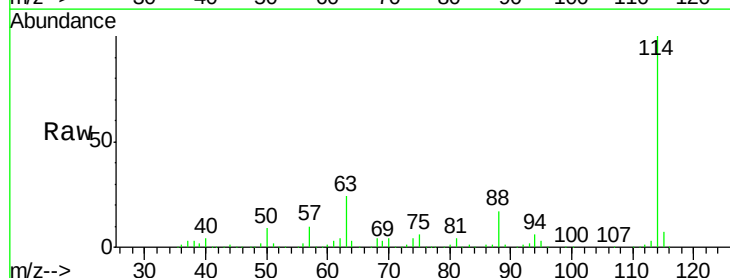
Instrument :
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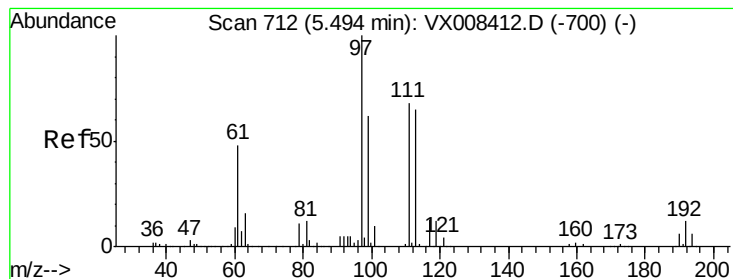
Tot Ion: 65 Resp: 167123
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 109.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008430.D
 Acq: 25 Mar 2019 23:19

Tgt Ion: 114 Resp: 394842
 Ion Ratio Lower Upper
 114 100
 63 23.6 0.0 46.4
 88 17.3 0.0 33.2





#35

Dibromofluoromethane

Concen: 47.430 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX008430.D

Acq: 25 Mar 2019 23:19

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-AOC22-MW10-20190316RE

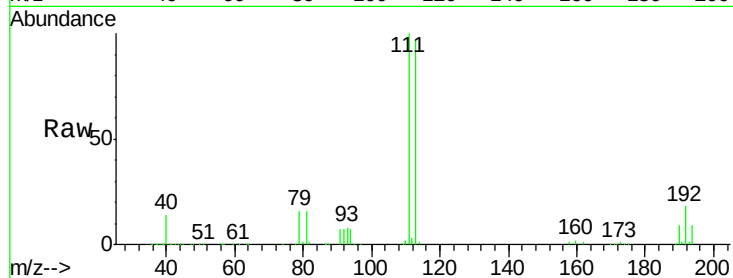
Tot Ion:113 Resp: 122112

Ion Ratio Lower Upper

113 100

111 104.4 83.0 124.4

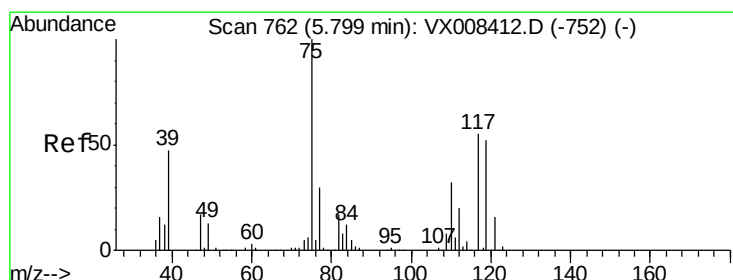
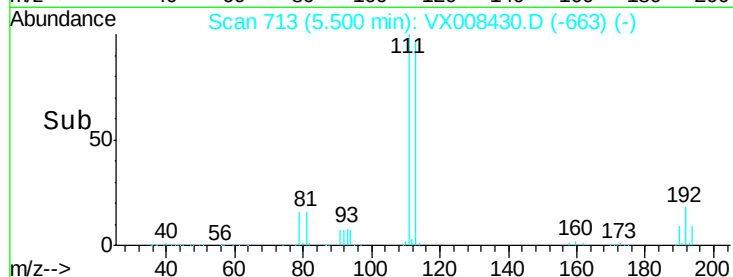
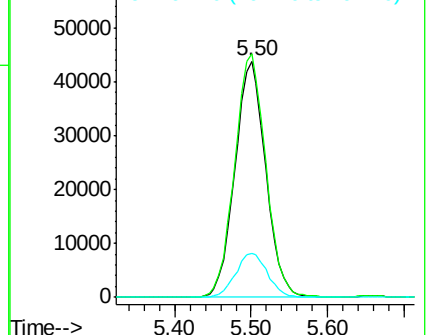
192 19.4 15.6 23.4



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: 4.735 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008430.D

Acq: 25 Mar 2019 23:19

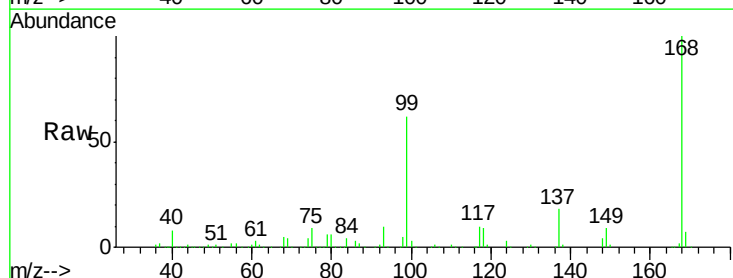
Tgt Ion: 75 Resp: 19932

Ion Ratio Lower Upper

75 100

110 8.1 16.6 49.7#

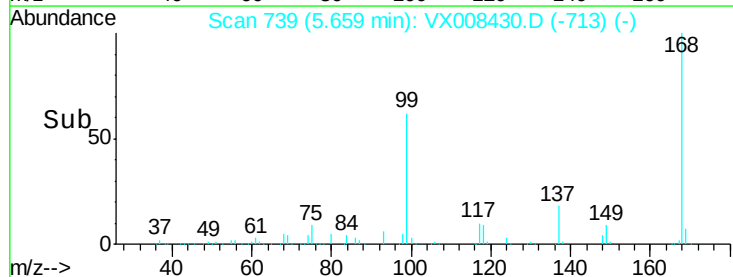
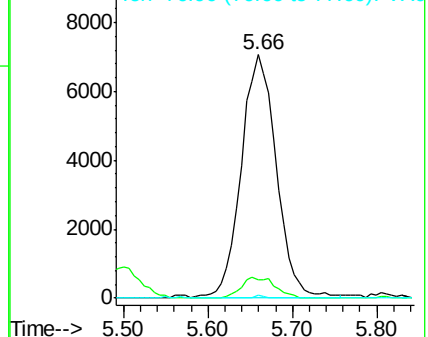
77 0.2 24.2 36.2#

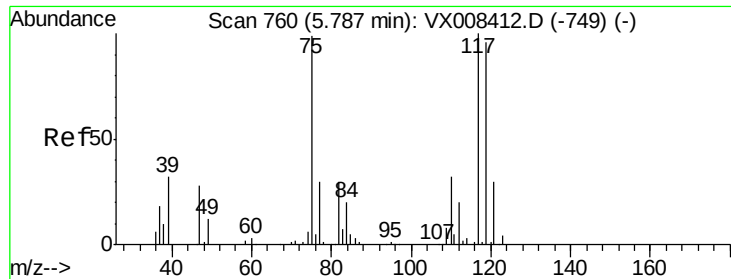


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.536 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008430.D

Acq: 25 Mar 2019 23:19

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-AOC22-MW10-20190316RE

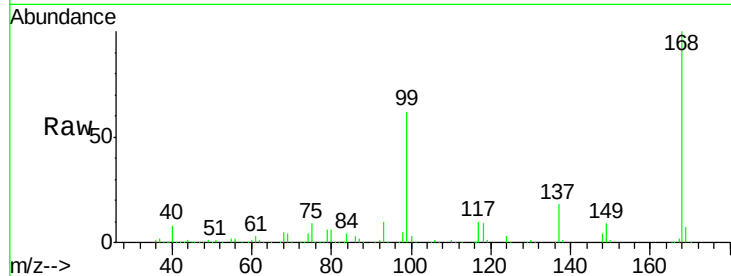
Tot Ion:117 Resp: 22962

Ion Ratio Lower Upper

117 100

119 5.5 76.7 115.1#

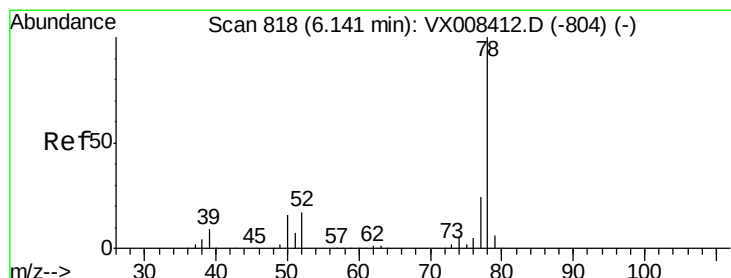
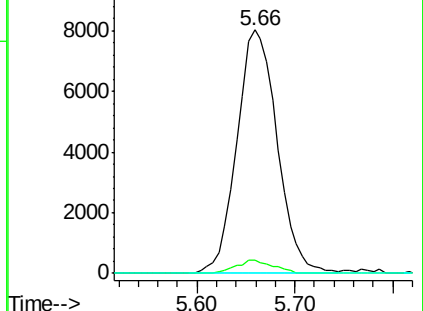
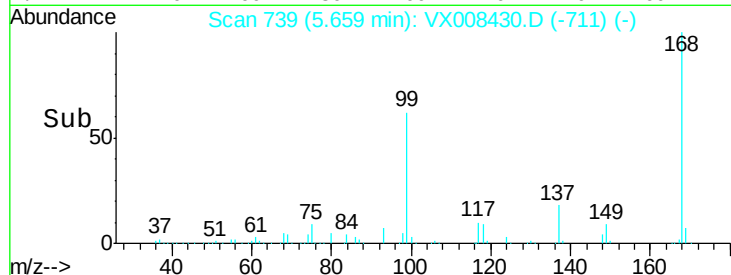
121 0.0 24.3 36.5#



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



#40

Benzene

Concen: 0.249 ug/l

RT: 6.14 min Scan# 818

Delta R.T. -0.00 min

Lab File: VX008430.D

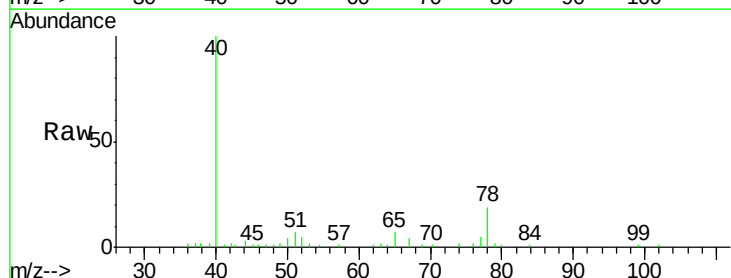
Acq: 25 Mar 2019 23:19

Tgt Ion: 78 Resp: 3139

Ion Ratio Lower Upper

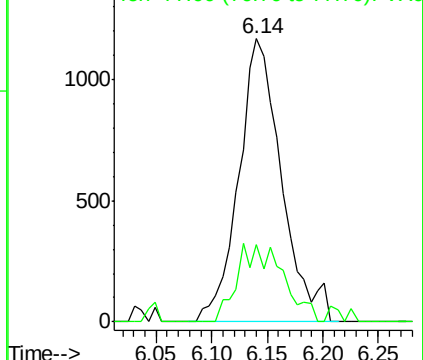
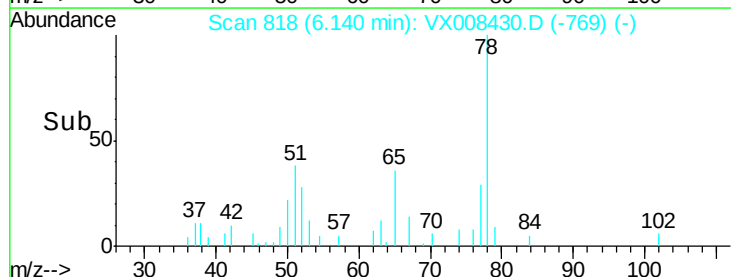
78 100

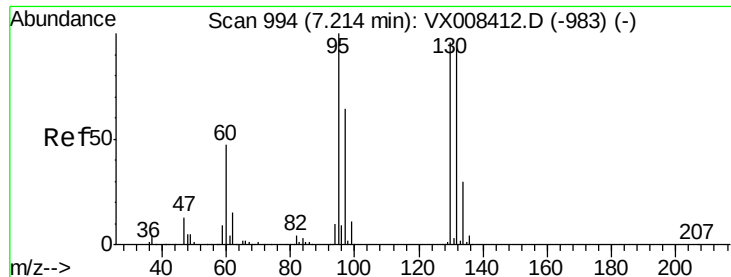
77 27.4 19.3 28.9



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#44

Trichloroethene

Concen: 0.249 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX008430.D

Acq: 25 Mar 2019 23:19

Instrument :

MSVOA_X

ClientSampleId :

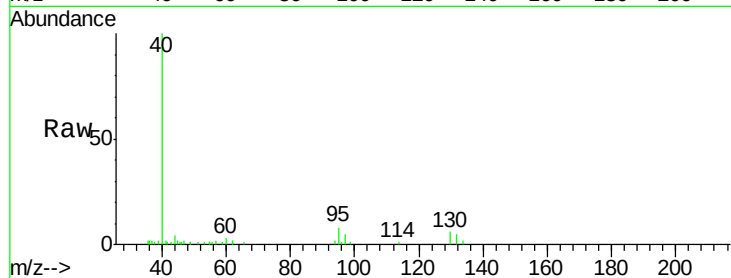
BP-TT-AOC22-MW10-20190316RE

Tot Ion:130 Resp: 737

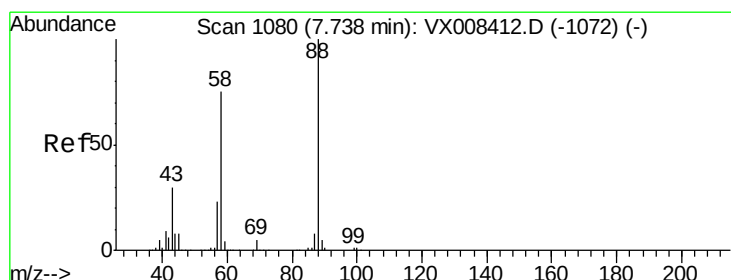
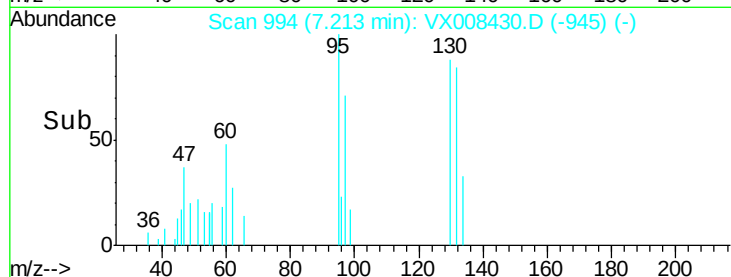
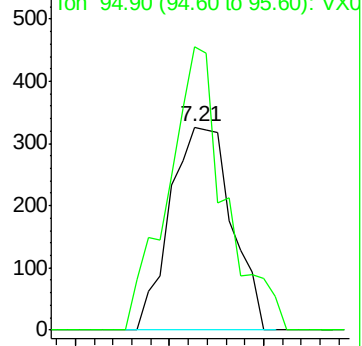
Ion Ratio Lower Upper

130 100

95 139.6 0.0 208.8



Abundance Ion 129.80 (129.50 to 130.50): V



#49

1,4-Dioxane

Concen: 0.219 ug/l

RT: 7.71 min Scan# 1076

Delta R.T. -0.02 min

Lab File: VX008430.D

Acq: 25 Mar 2019 23:19

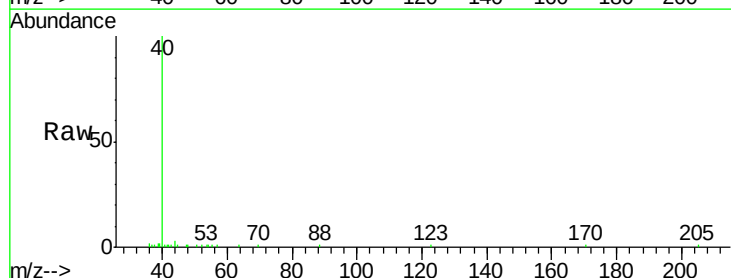
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

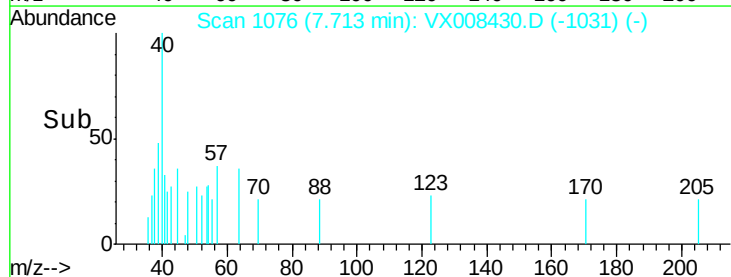
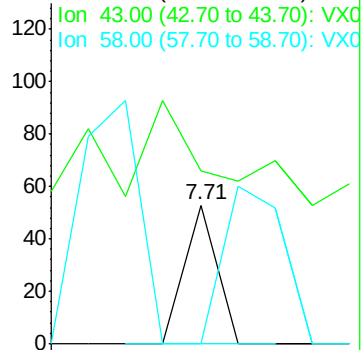
88 100

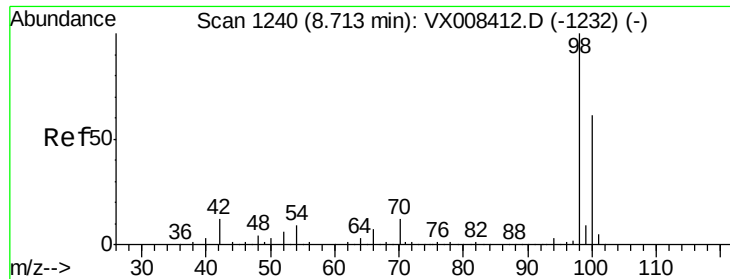
43 0.0 28.6 43.0#

58 215.8 63.0 94.4#



Abundance Ion 88.00 (87.70 to 88.70): VX0





#50

Toluene-d8

Concen: 47.994 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008430.D

Acq: 25 Mar 2019 23:19

Instrument :

MSVOA_X

ClientSampleId :

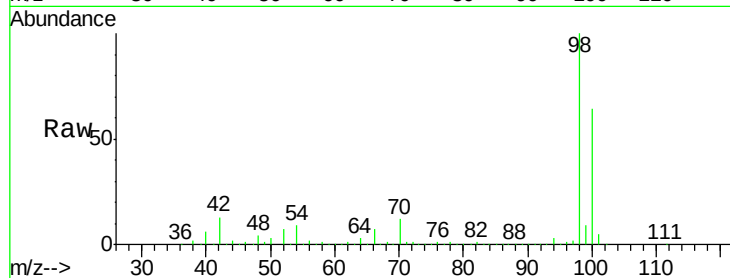
BP-TT-AOC22-MW10-20190316RE

Tot Ion: 98 Resp: 494080

Ion Ratio Lower Upper

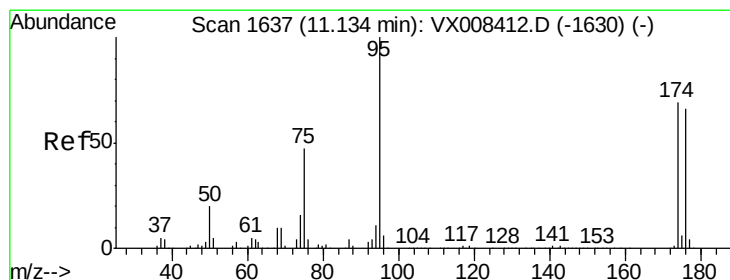
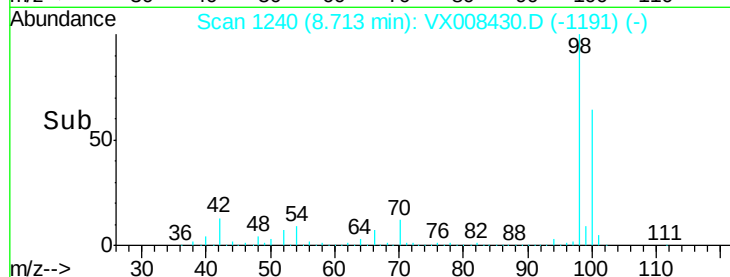
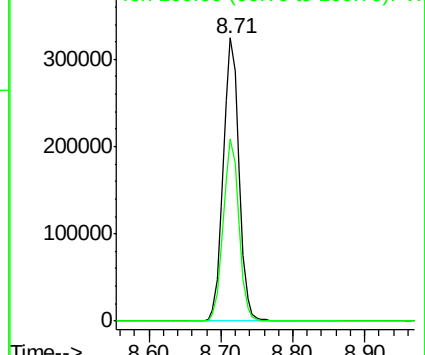
98 100

100 63.9 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 44.189 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008430.D

Acq: 25 Mar 2019 23:19

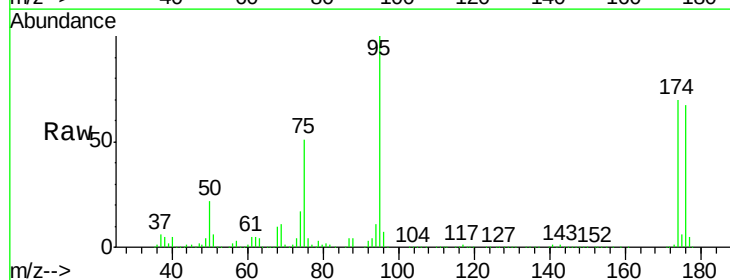
Tgt Ion: 95 Resp: 168572

Ion Ratio Lower Upper

95 100

174 73.7 0.0 147.2

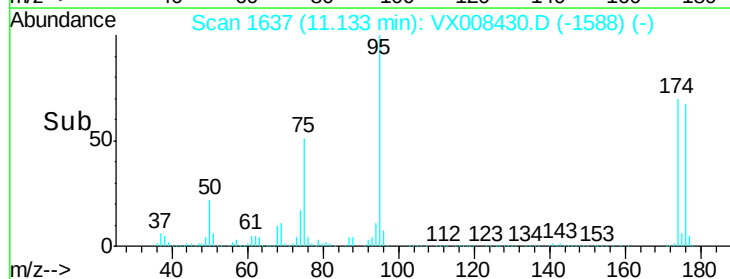
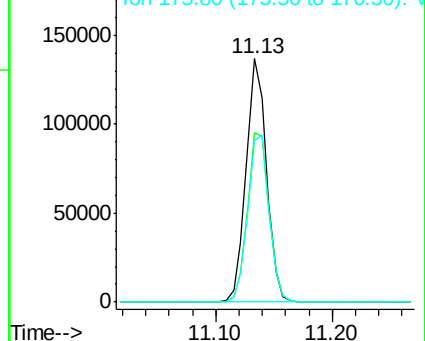
176 71.8 0.0 142.4

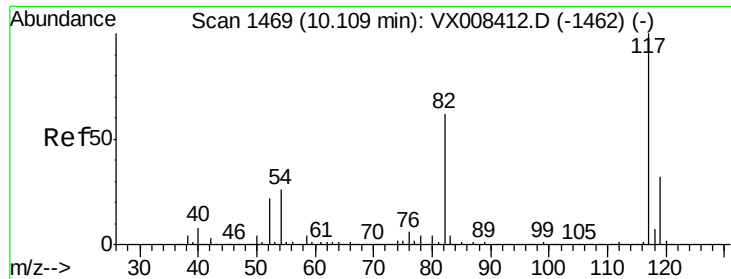


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

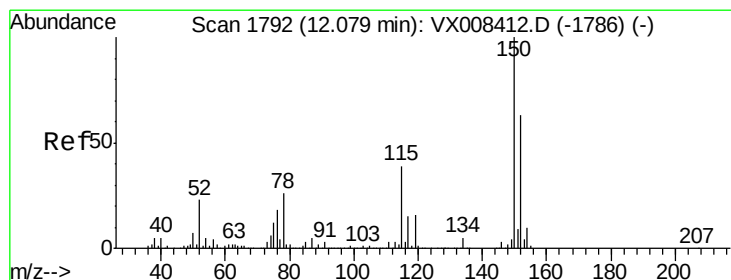
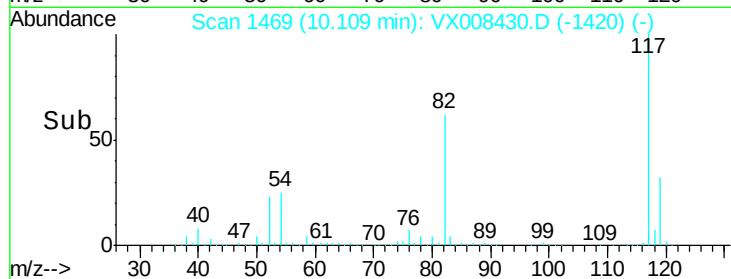
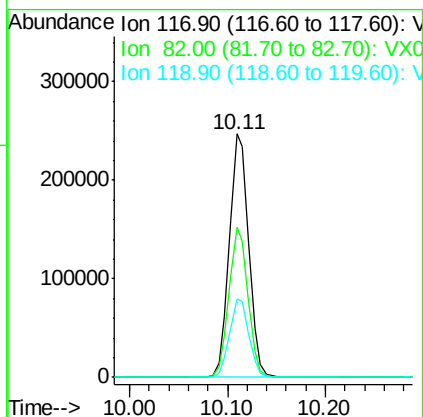
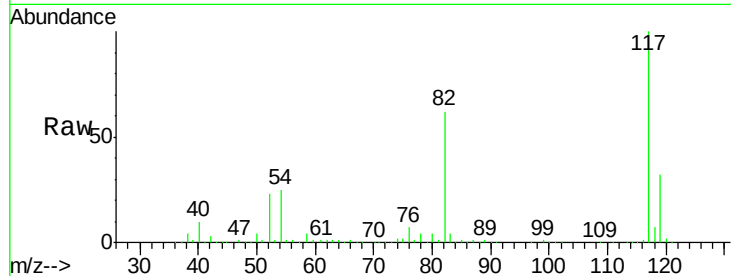




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008430.D
Acq: 25 Mar 2019 23:19

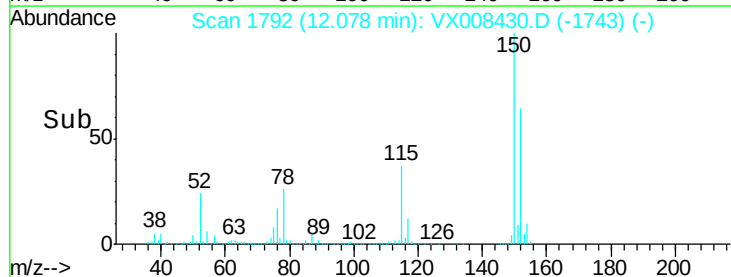
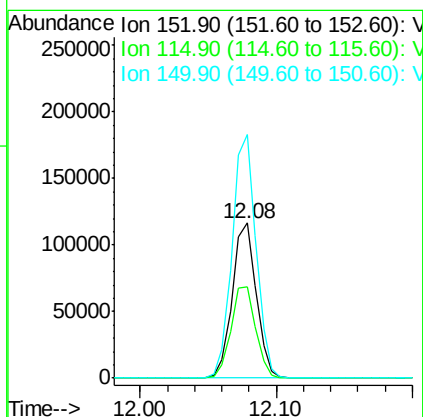
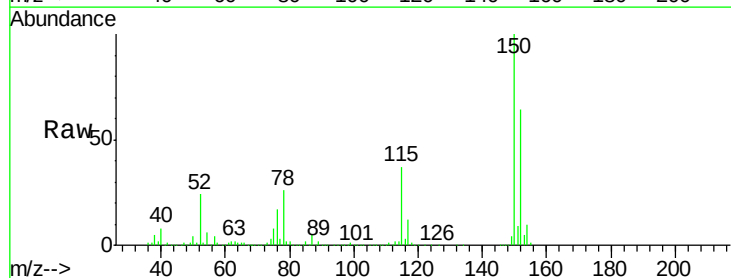
Instrument :
MSVOA_X
ClientSampleId :
BP-TT-AOC22-MW10-20190316RE

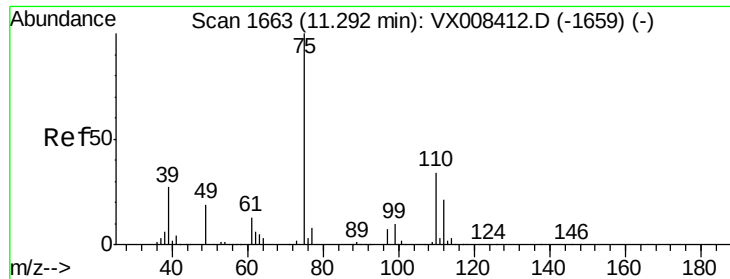
Tot Ion:117 Resp: 338959
Ion Ratio Lower Upper
117 100
82 61.8 49.4 74.2
119 32.2 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX008430.D
Acq: 25 Mar 2019 23:19

Tgt Ion:152 Resp: 142514
Ion Ratio Lower Upper
152 100
115 61.2 43.5 130.5
150 156.4 0.0 348.8





#76

1,2,3-Trichloropropane

Concen: 20.490 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008430.D

Acq: 25 Mar 2019 23:19

Instrument :

MSVOA_X

ClientSampleId :

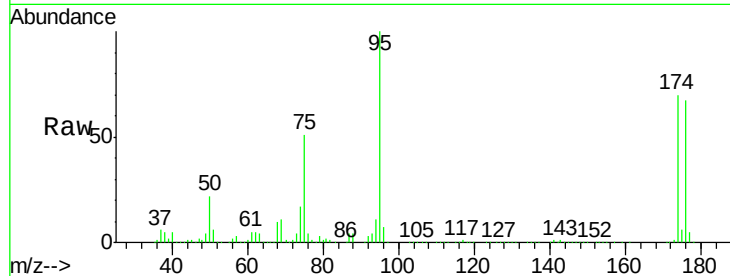
BP-TT-AOC22-MW10-20190316RE

Tot Ion: 75 Resp: 86814

Ion Ratio Lower Upper

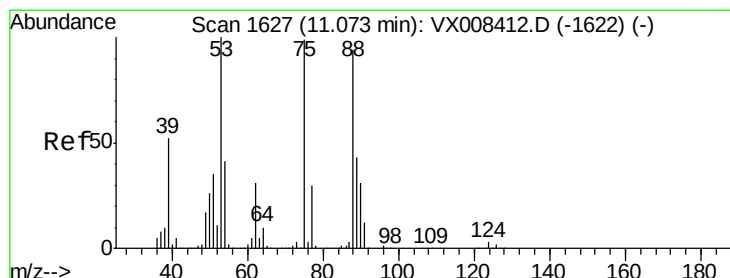
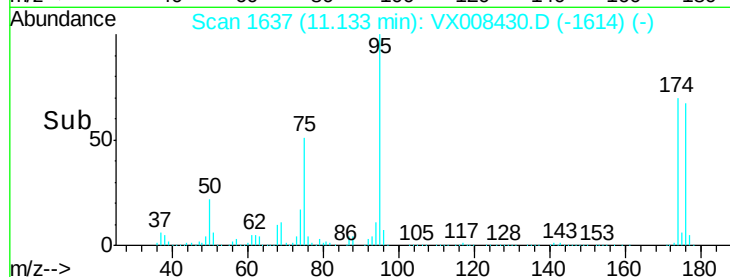
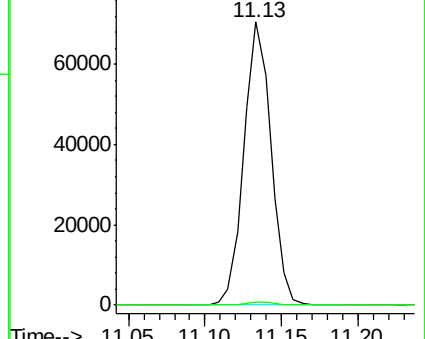
75 100

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: 65.628 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008430.D

Acq: 25 Mar 2019 23:19

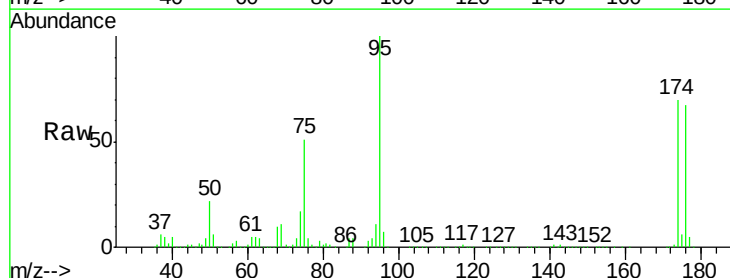
Tgt Ion: 75 Resp: 86814

Ion Ratio Lower Upper

75 100

53 0.1 82.1 123.1#

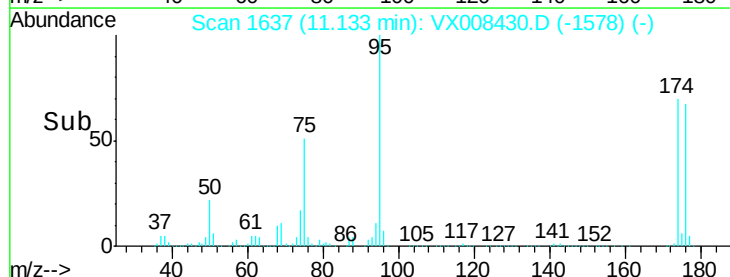
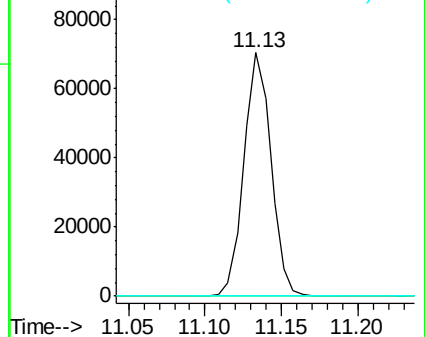
89 0.0 34.6 52.0#

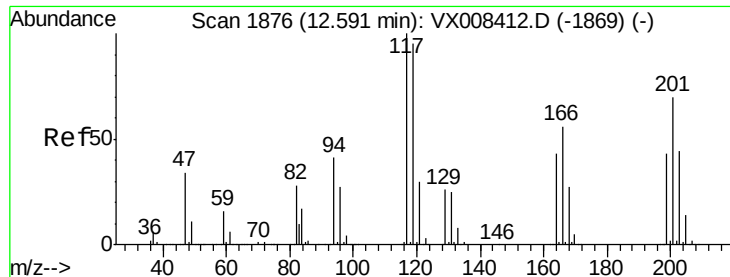


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#90

Hexachloroethane

Concen: 0.211 ug/l

RT: 12.70 min Scan# 1894

Delta R.T. 0.11 min

Lab File: VX008430.D

Acq: 25 Mar 2019 23:19

Instrument :

MSVOA_X

ClientSampleId :

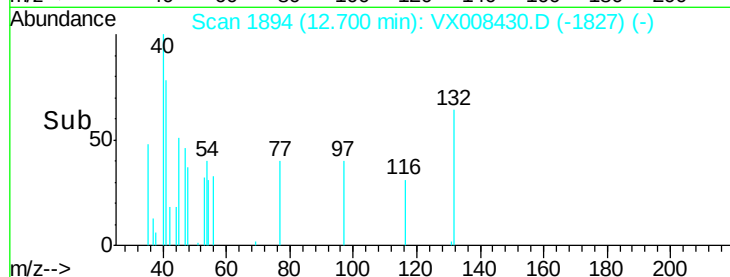
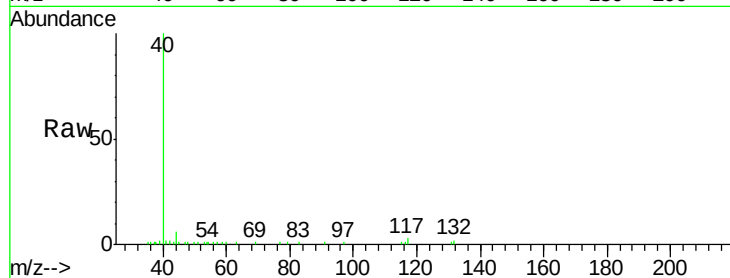
BP-TT-AOC22-MW10-20190316RE

Tot Ion:117 Resp: 350

Ion Ratio Lower Upper

117 100

201 0.0 39.4 118.1#



Abundance Ion 116.80 (116.50 to 117.50): V

2000 Ion 200.70 (200.40 to 201.40): V

