

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051719\
 Data File : VX009666.D
 Acq On : 17 May 2019 16:57
 Operator : JC/SP
 Sample : K2891-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB202-TB-20190513

Quant Time: May 18 04:50:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	166273	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	260965	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	224376	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	87137	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	109113	48.07	ug/l	0.00
Spiked Amount			Recovery	=	96.14%	
35) Dibromofluoromethane	5.50	113	79183	48.27	ug/l	0.00
Spiked Amount			Recovery	=	96.54%	
50) Toluene-d8	8.71	98	326580	49.31	ug/l	0.00
Spiked Amount			Recovery	=	98.62%	
62) 4-Bromofluorobenzene	11.13	95	102533	42.60	ug/l	0.00
Spiked Amount			Recovery	=	85.20%	

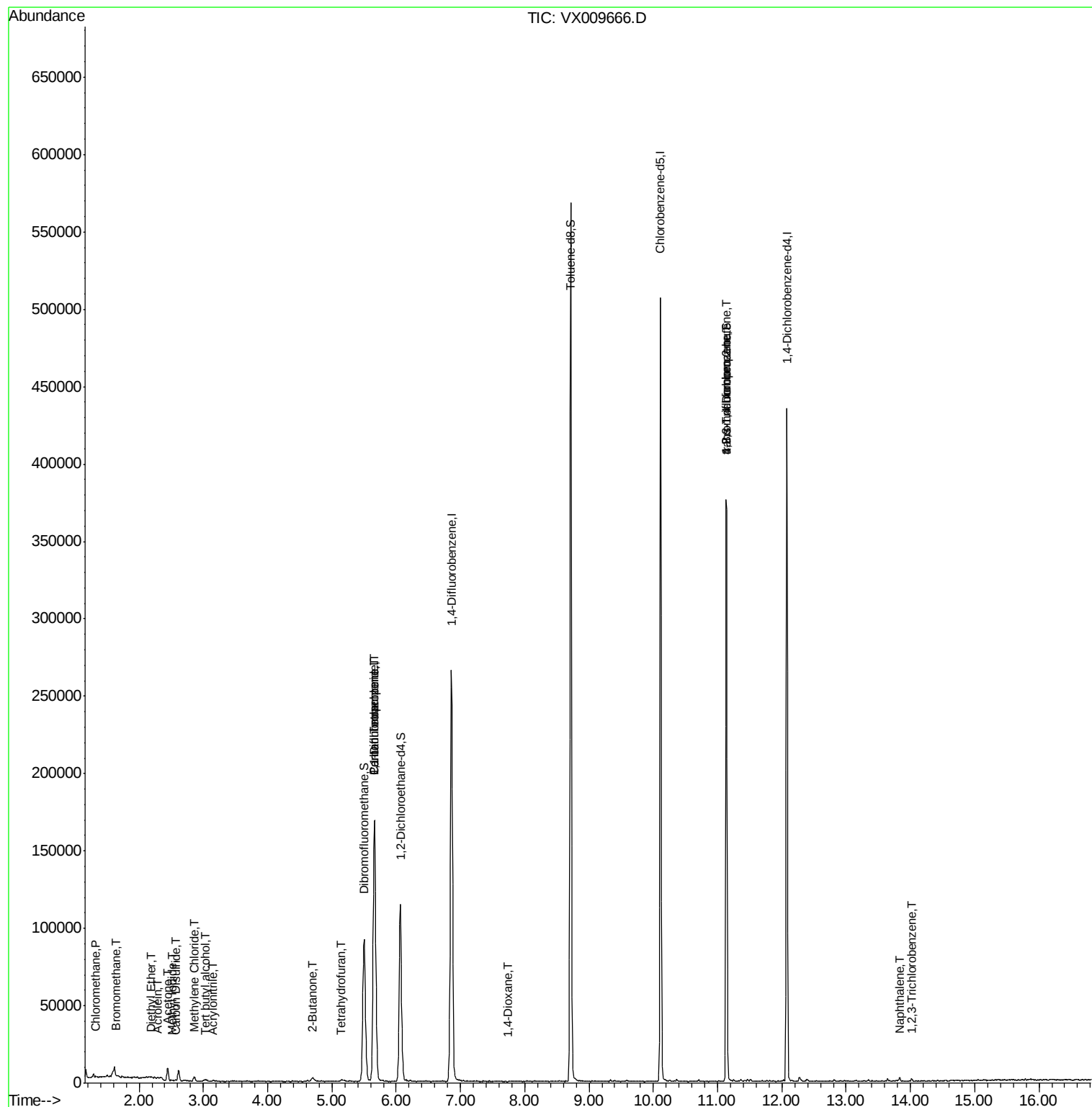
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	543	0.260	ug/l	99
5) Bromomethane	1.65	94	408	0.333	ug/l	85
8) Diethyl Ether	2.19	74	309	0.263	ug/l	99
10) Methyl Iodide	2.51	142	444	4.817	ug/l #	87
11) Tert butyl alcohol	3.03	59	910	1.732	ug/l #	89
13) Acrolein	2.29	56	210	0.441	ug/l #	1
15) Acrylonitrile	3.15	53	378	0.294	ug/l #	86
16) Acetone	2.45	43	8981	7.369	ug/l	97
17) Carbon Disulfide	2.57	76	945	0.216	ug/l #	76
20) Methylene Chloride	2.86	84	1159	0.587	ug/l #	82
25) 2-Butanone	4.70	43	1220	0.644	ug/l #	85
28) Bromochloromethane	5.03	49	147	Below Cal	#	64
29) Tetrahydrofuran	5.15	42	1787	1.466	ug/l #	82
36) 1,1-Dichloropropene	5.67	75	12762	5.262	ug/l #	43
38) Carbon Tetrachloride	5.67	117	15463	7.018	ug/l #	15
49) 1,4-Dioxane	7.73	88	20	0.368	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	53009	26.226	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	53009	67.102	ug/l #	10
95) Naphthalene	13.83	128	1312	0.207	ug/l	99
96) 1,2,3-Trichlorobenzene	14.02	180	416	0.210	ug/l	97

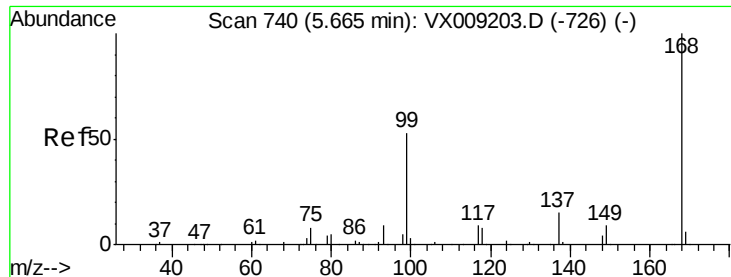
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX009666.D

Acq: 17 May 2019 16:57

Instrument :

MSVOA_X

ClientSampleId :

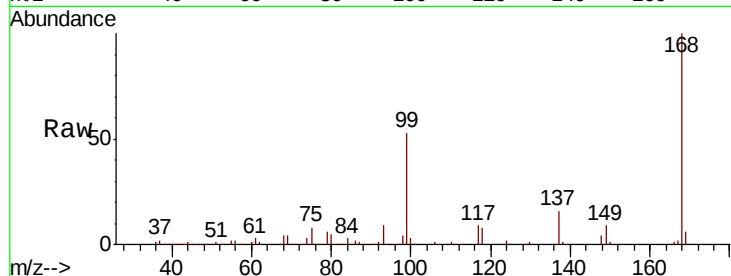
BP-VPB202-TB-20190513

Tot Ion:168 Resp: 166273

Ion Ratio Lower Upper

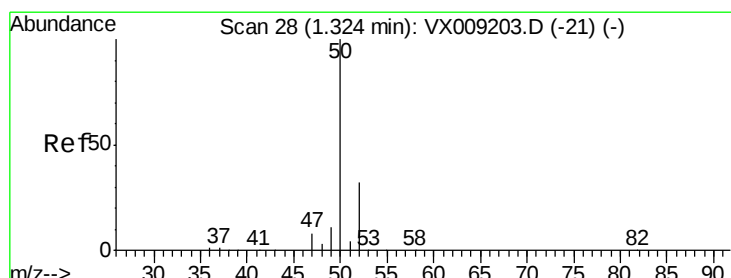
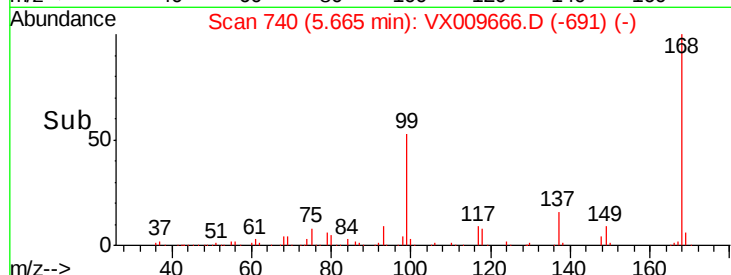
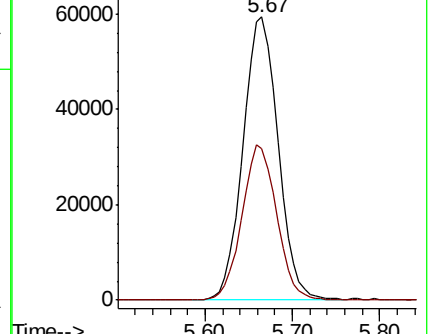
168 100

99 53.5 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.260 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX009666.D

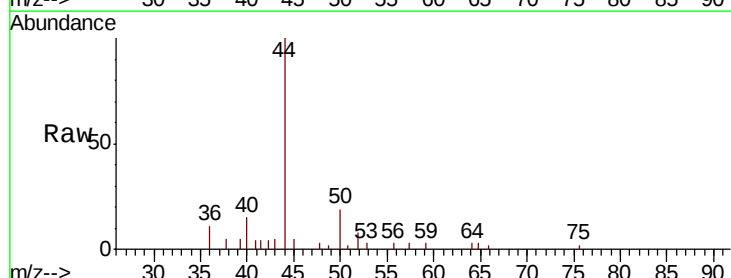
Acq: 17 May 2019 16:57

Tgt Ion: 50 Resp: 543

Ion Ratio Lower Upper

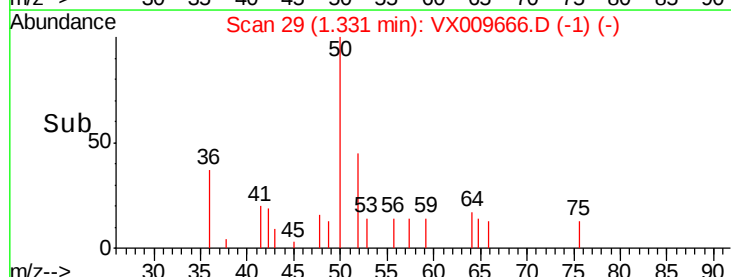
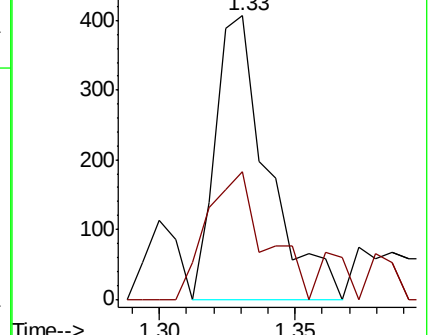
50 100

52 31.9 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.333 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009666.D

Acq: 17 May 2019 16:57

Instrument :

MSVOA_X

ClientSampleId :

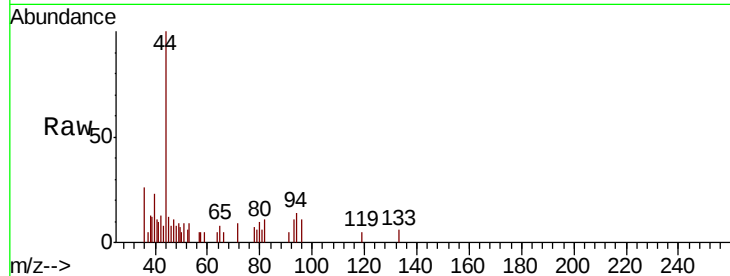
BP-VPB202-TB-20190513

Tot Ion: 94 Resp: 408

Ion Ratio Lower Upper

94 100

96 77.5 73.0 109.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

200

150

100

50

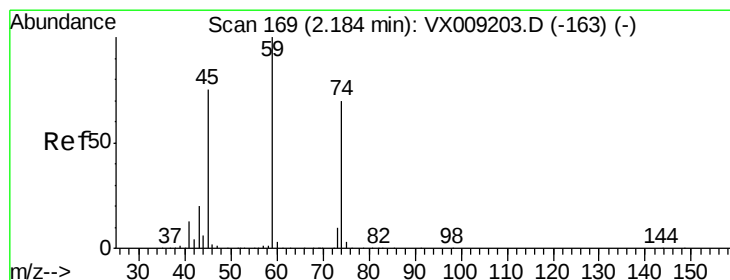
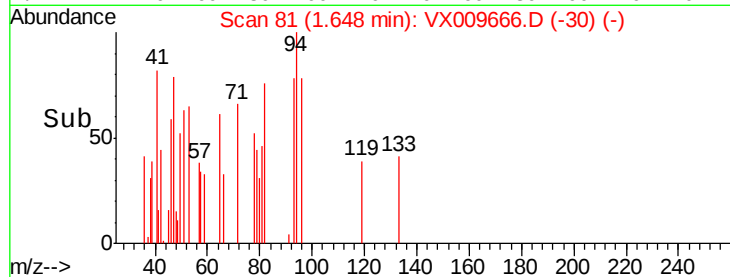
0

1.60

1.65

1.70

Time-->



#8

Diethyl Ether

Concen: 0.263 ug/l

RT: 2.19 min Scan# 170

Delta R.T. 0.01 min

Lab File: VX009666.D

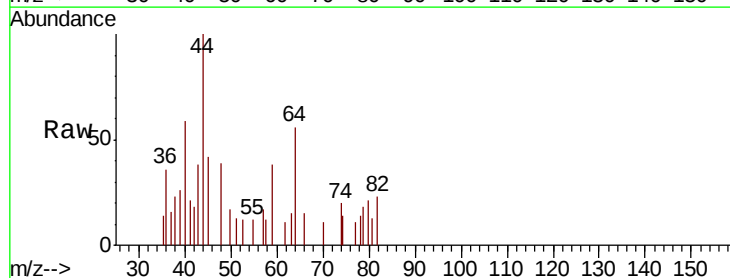
Acq: 17 May 2019 16:57

Tgt Ion: 74 Resp: 309

Ion Ratio Lower Upper

74 100

45 108.1 53.3 159.9



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

400

300

200

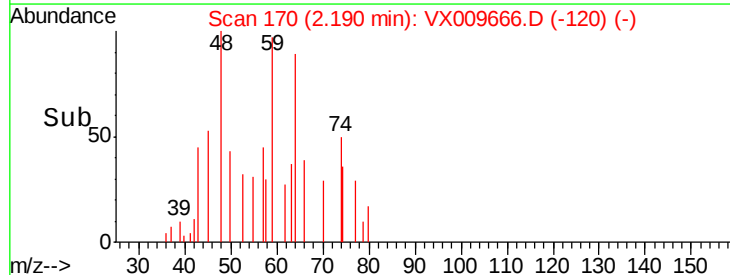
100

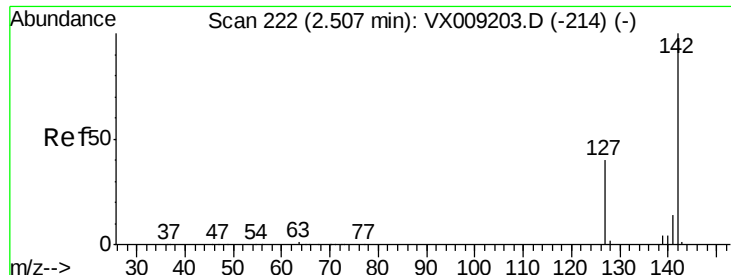
0

2.15

2.20

Time-->

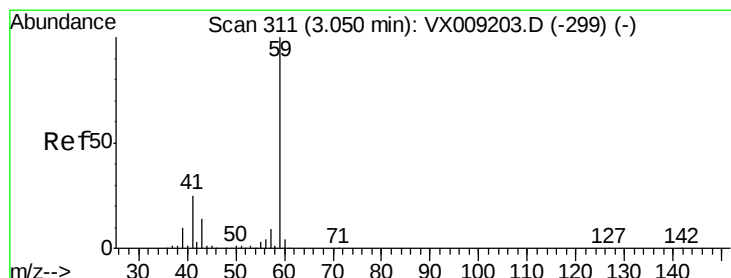
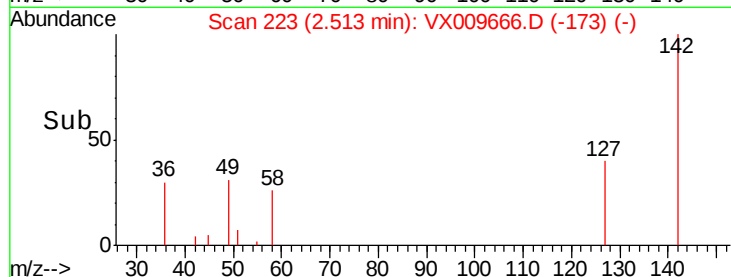
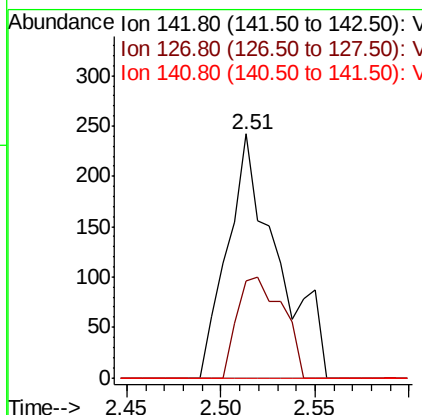
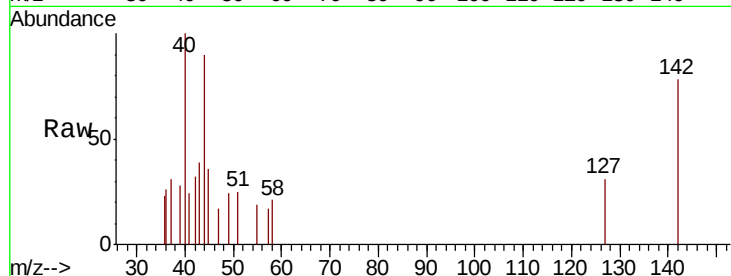




#10
Methvl Iodide
Concen: 4.817 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX009666.D
Acq: 17 May 2019 16:57

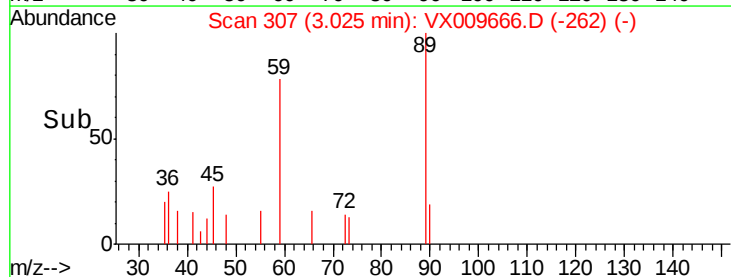
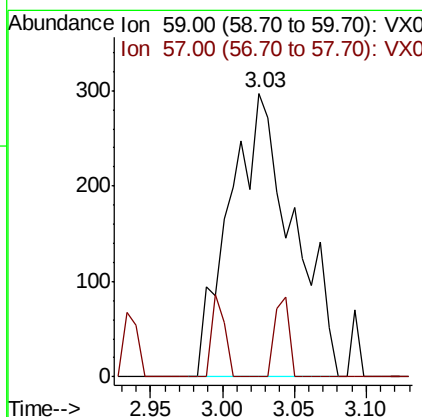
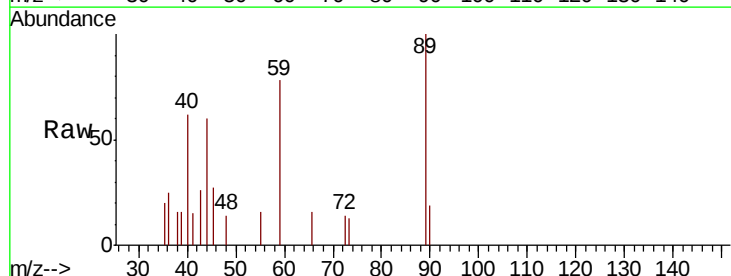
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB202-TB-20190513

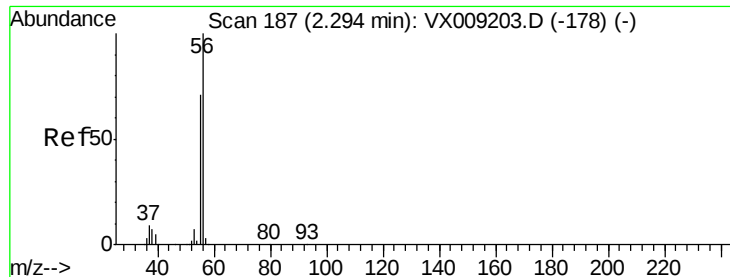
Tot Ion:142 Resp: 444
Ion Ratio Lower Upper
142 100
127 37.8 32.7 49.1
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 1.732 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.02 min
Lab File: VX009666.D
Acq: 17 May 2019 16:57

Tgt Ion: 59 Resp: 910
Ion Ratio Lower Upper
59 100
57 6.3 8.2 12.2#





#13

Acrolein

Concen: 0.441 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX009666.D

Acq: 17 May 2019 16:57

Instrument :

MSVOA_X

ClientSampleId :

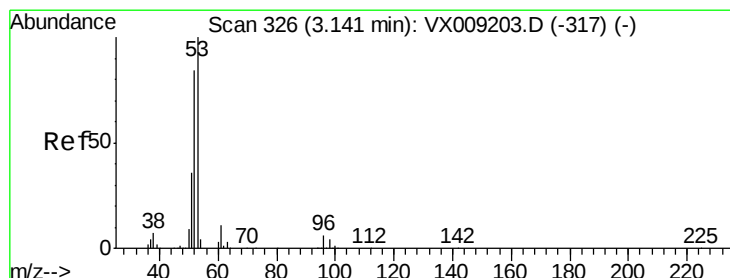
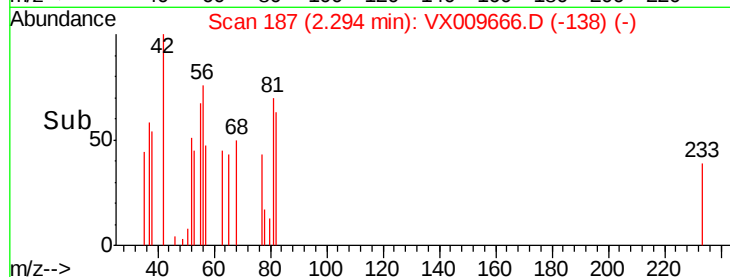
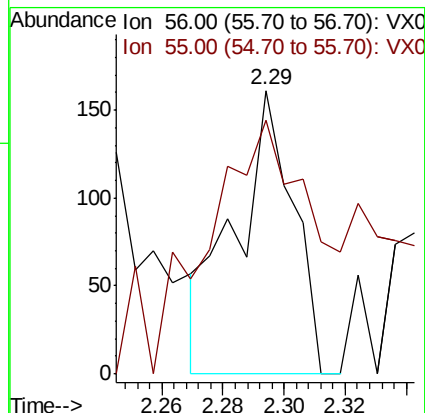
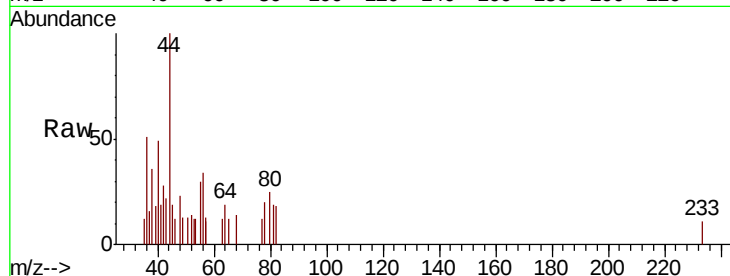
BP-VPB202-TB-20190513

Tot Ion: 56 Resp: 210

Ion Ratio Lower Upper

56 100

55 162.4 56.6 85.0#



#15

Acrylonitrile

Concen: 0.294 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX009666.D

Acq: 17 May 2019 16:57

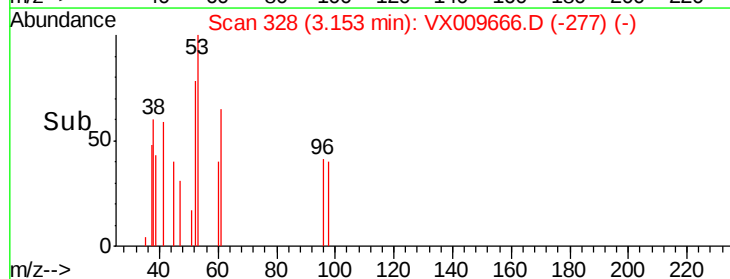
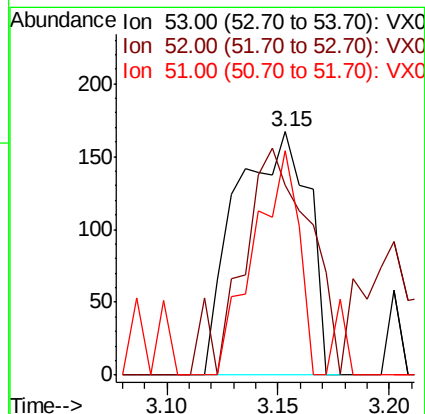
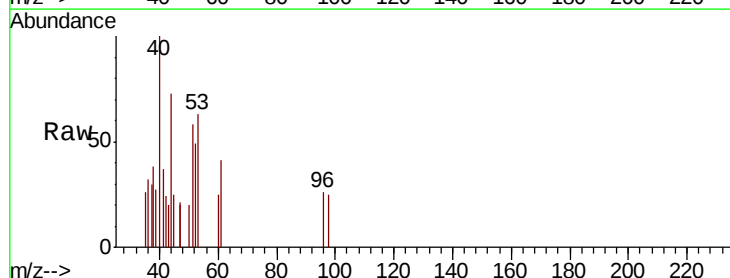
Tgt Ion: 53 Resp: 378

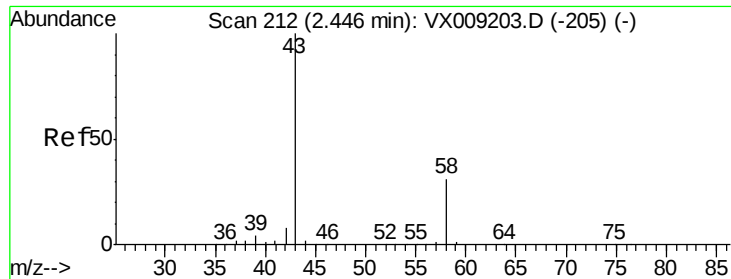
Ion Ratio Lower Upper

53 100

52 87.0 66.9 100.3

51 56.9 28.2 42.2#





#16

Acetone

Concen: 7.369 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX009666.D

Acq: 17 May 2019 16:57

Instrument :

MSVOA_X

ClientSampleId :

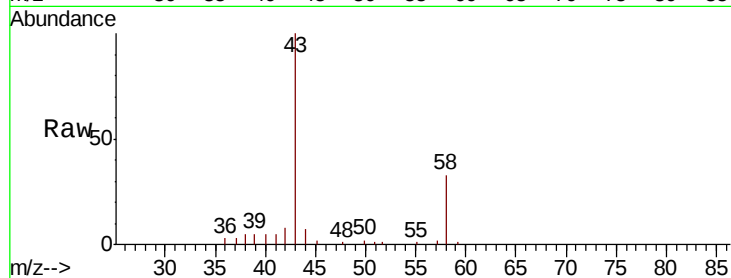
BP-VPB202-TB-20190513

Tot Ion: 43 Resp: 8981

Ion Ratio Lower Upper

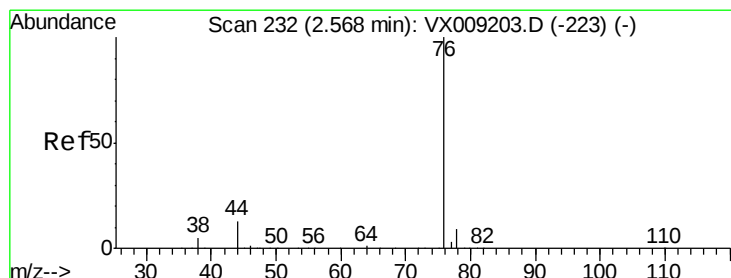
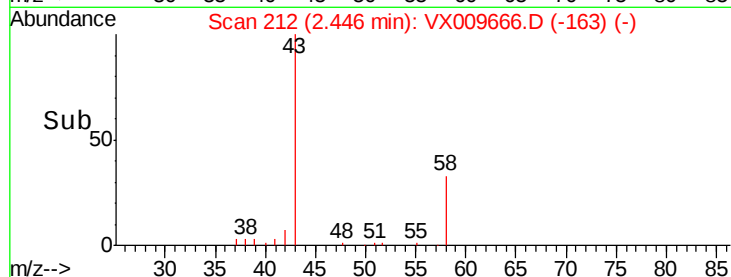
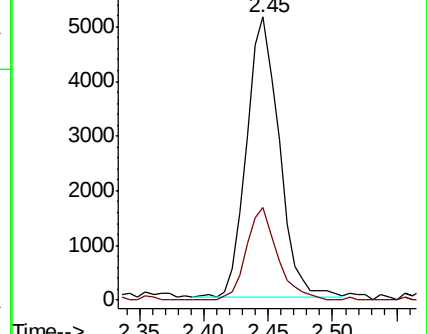
43 100

58 32.9 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.216 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX009666.D

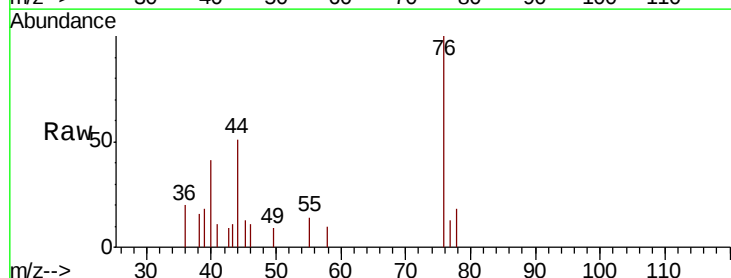
Acq: 17 May 2019 16:57

Tgt Ion: 76 Resp: 945

Ion Ratio Lower Upper

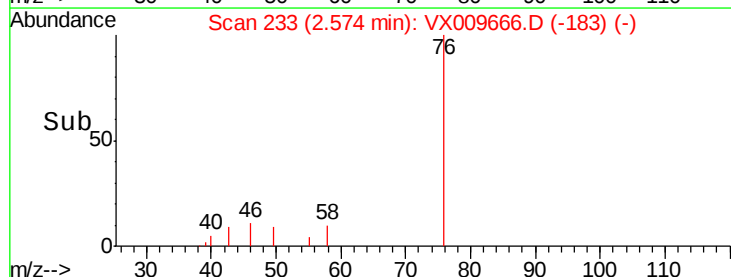
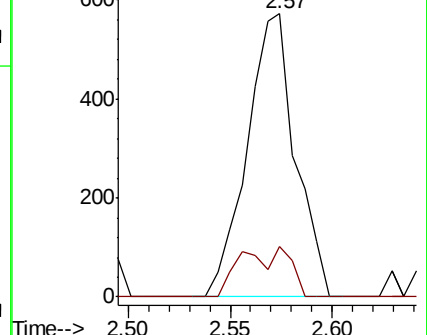
76 100

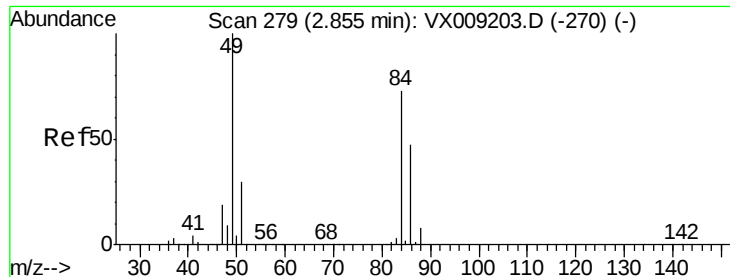
78 18.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

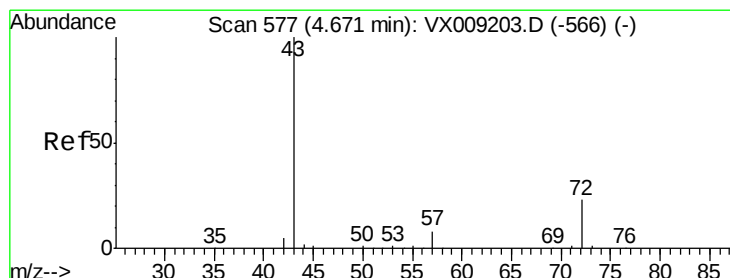
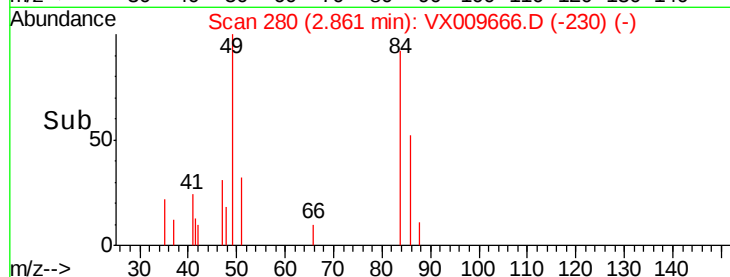
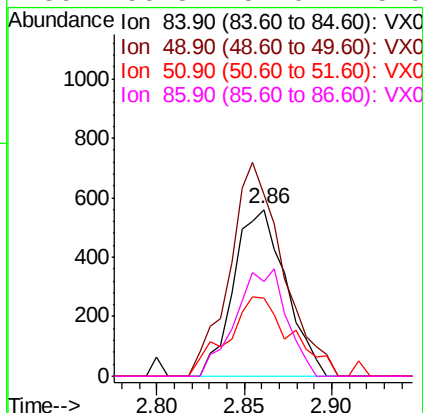
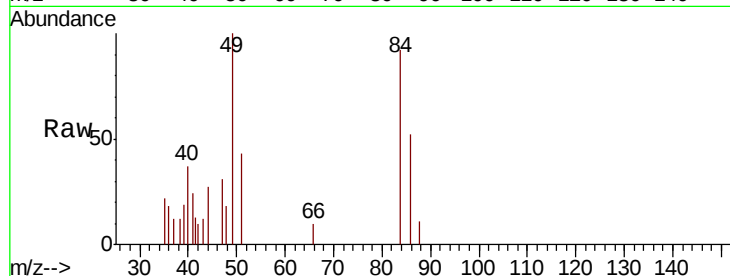




#20
Methylene Chloride
Concen: 0.587 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX009666.D
Acq: 17 May 2019 16:57

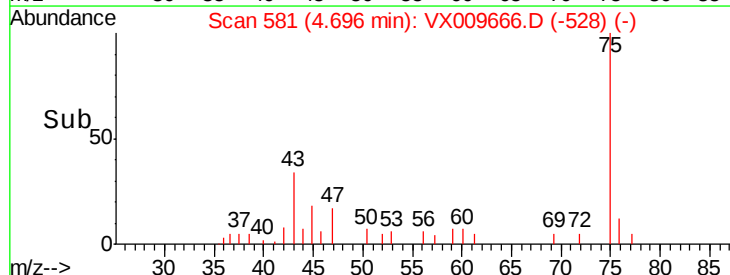
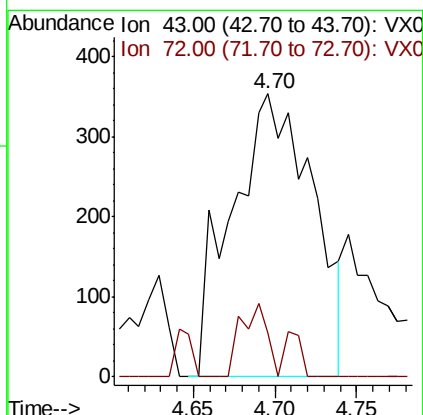
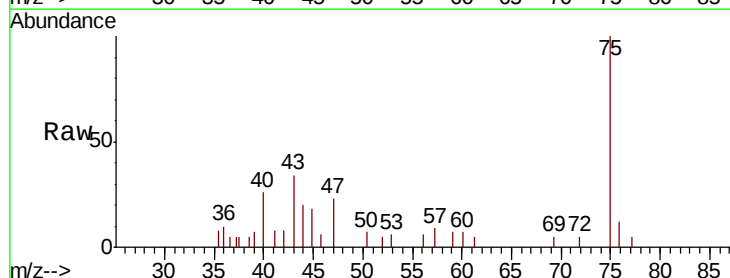
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB202-TB-20190513

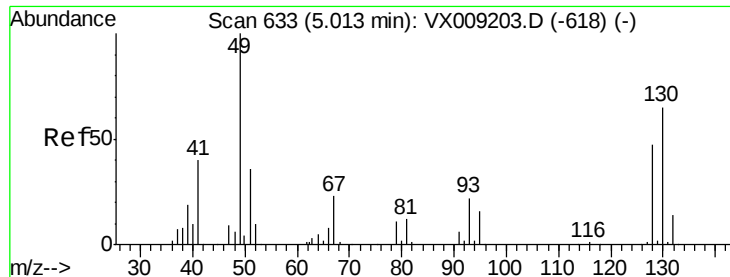
Tot Ion: 84 Resp: 1159
Ion Ratio Lower Upper
84 100
49 109.1 109.9 164.9#
51 47.0 32.7 49.1
86 56.8 52.0 78.0



#25
2-Butanone
Concen: 0.644 ug/l
RT: 4.70 min Scan# 581
Delta R.T. 0.02 min
Lab File: VX009666.D
Acq: 17 May 2019 16:57

Tgt Ion: 43 Resp: 1220
Ion Ratio Lower Upper
43 100
72 15.6 18.2 27.2#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 636

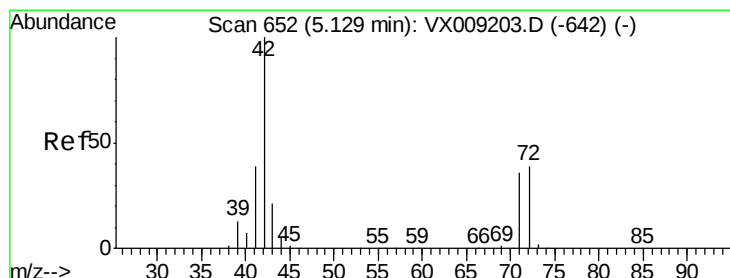
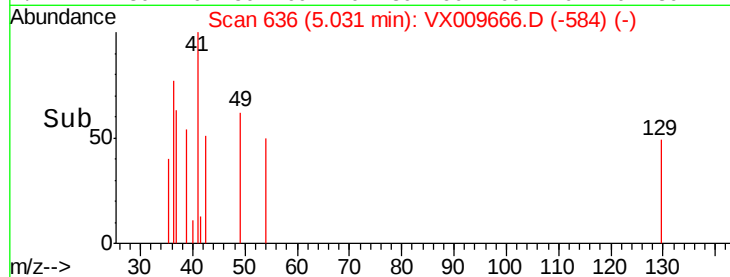
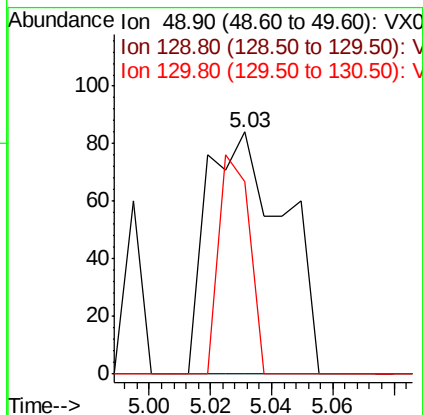
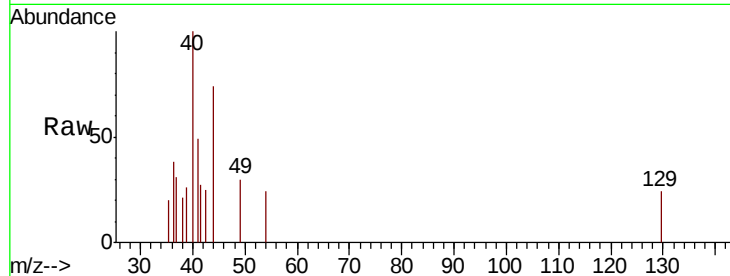
Delta R.T. 0.02 min

Lab File: VX009666.D

Acq: 17 May 2019 16:57

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB202-TB-20190513

Tot Ion: 49 Resp: 147
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.8
130 35.4 51.2 76.8#



#29

Tetrahydrofuran

Concen: 1.466 ug/l

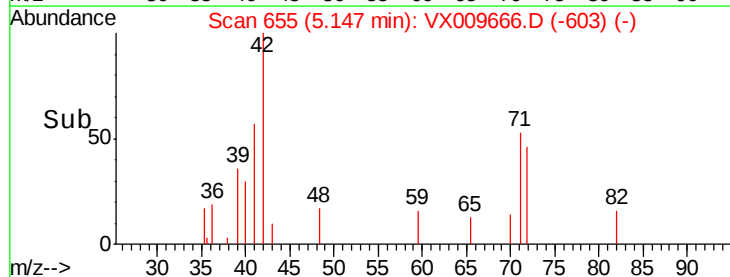
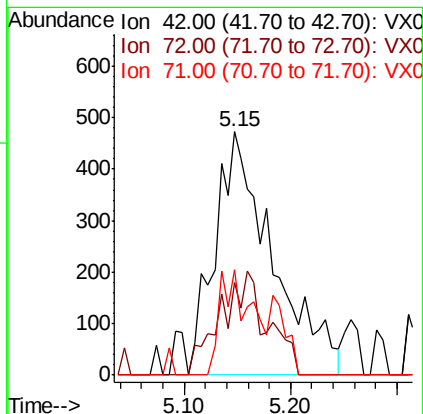
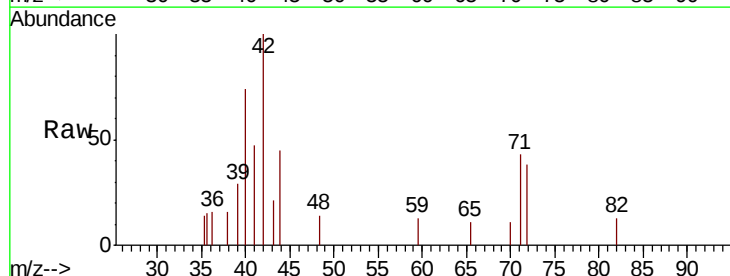
RT: 5.15 min Scan# 655

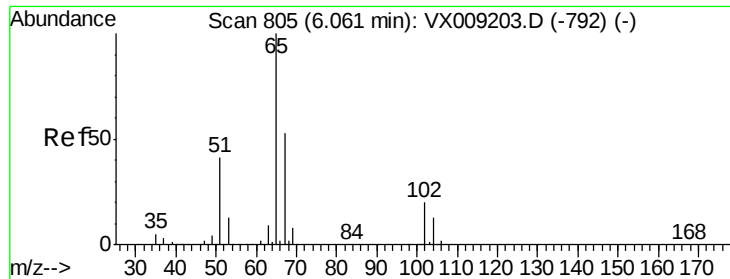
Delta R.T. 0.02 min

Lab File: VX009666.D

Acq: 17 May 2019 16:57

Tgt Ion: 42 Resp: 1787
Ion Ratio Lower Upper
42 100
72 28.1 30.4 45.6#
71 23.8 28.6 43.0#

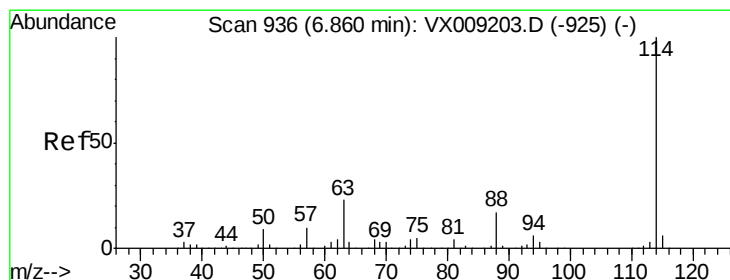
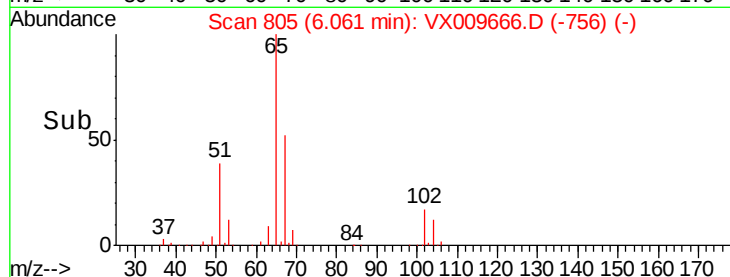
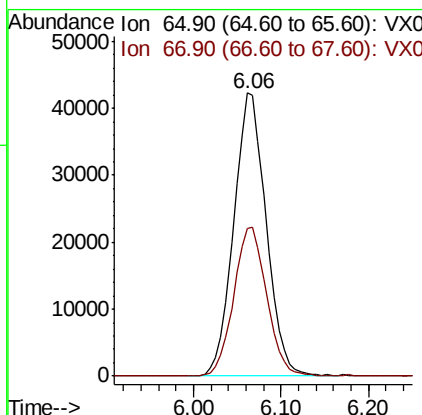
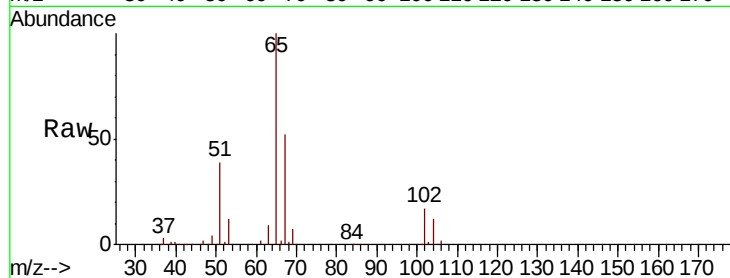




#33
 1,2-Dichloroethane-d4
 Concen: 48.071 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX009666.D
 Acq: 17 May 2019 16:57

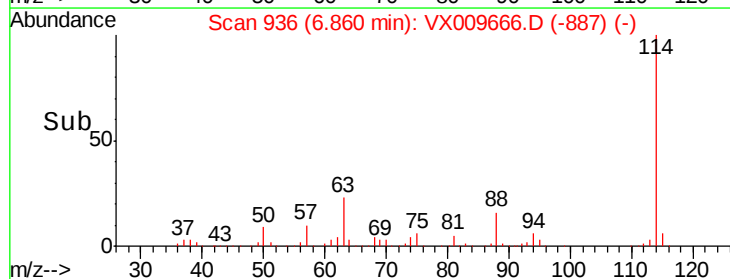
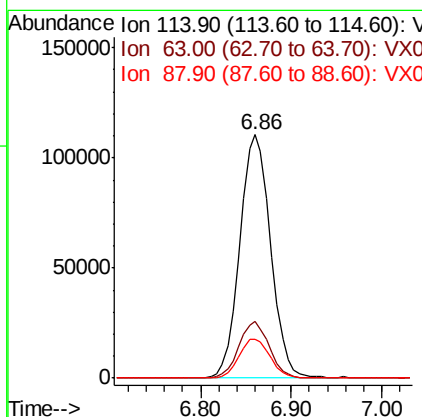
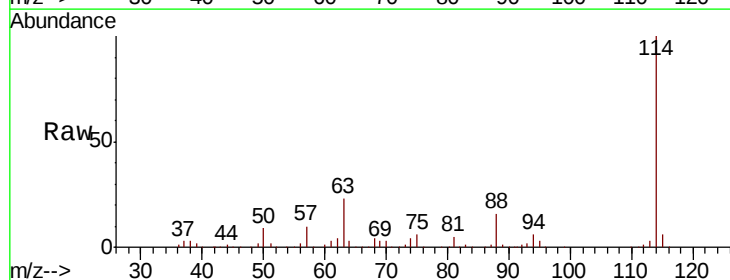
Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB202-TB-20190513

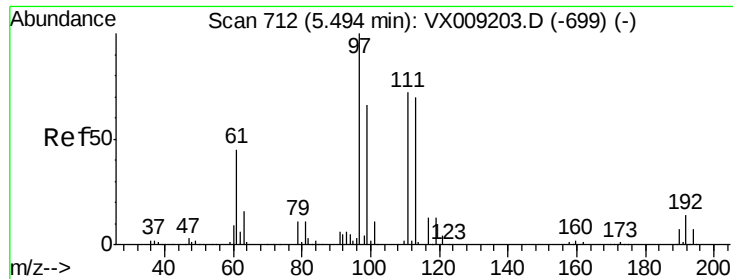
Tot Ion: 65 Resp: 109113
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX009666.D
 Acq: 17 May 2019 16:57

Tgt Ion: 114 Resp: 260965
 Ion Ratio Lower Upper
 114 100
 63 23.1 0.0 45.6
 88 16.1 0.0 33.2

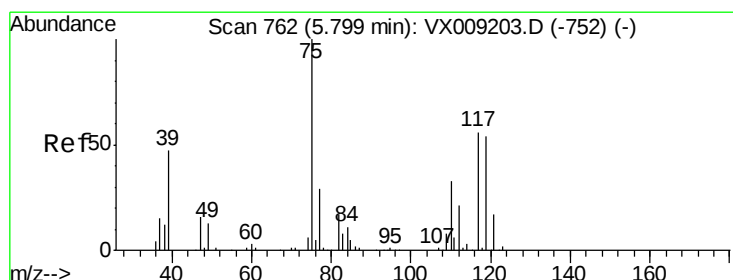
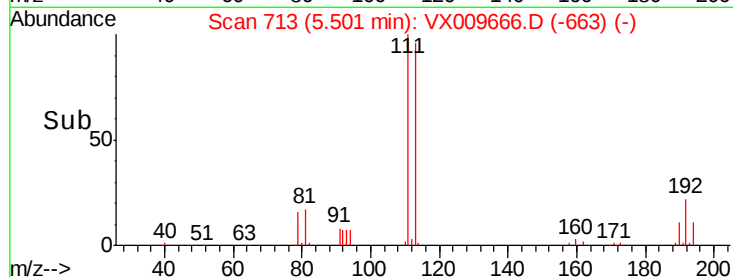
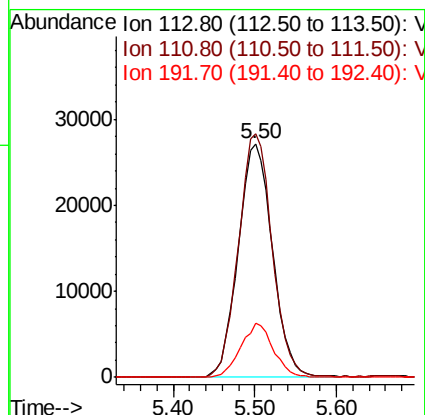
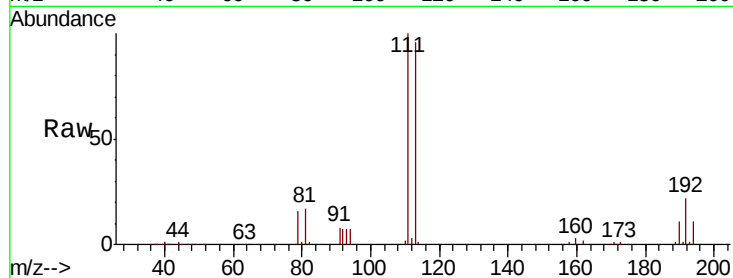




#35
 Dibromofluoromethane
 Concen: 48.267 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009666.D
 Acq: 17 May 2019 16:57

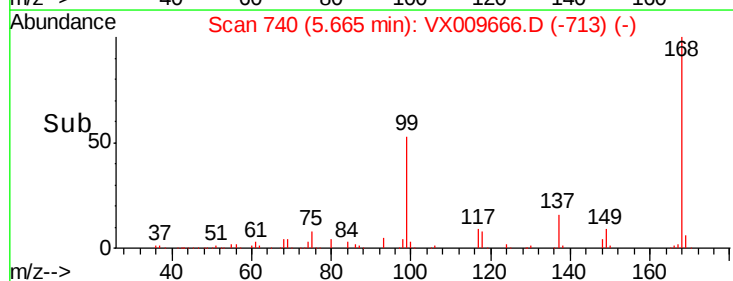
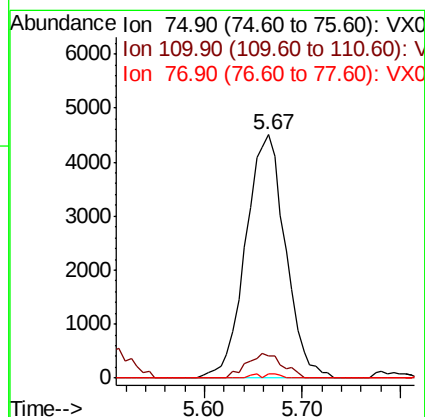
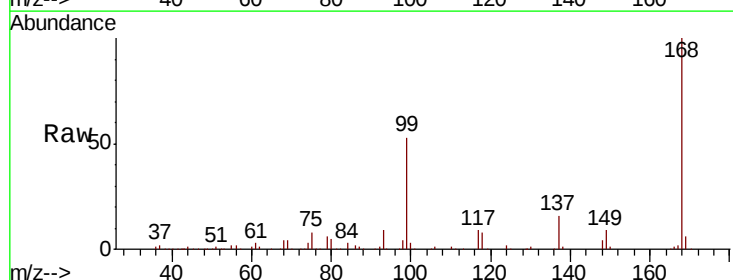
Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB202-TB-20190513

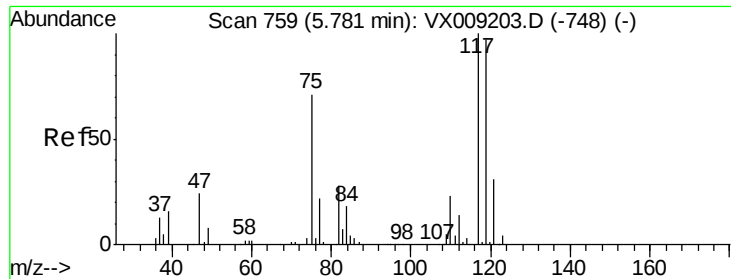
Tot Ion:113 Resp: 79183
 Ion Ratio Lower Upper
 113 100
 111 102.6 82.8 124.2
 192 22.0 17.0 25.6



#36
 1,1-Dichloropropene
 Concen: 5.262 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX009666.D
 Acq: 17 May 2019 16:57

Tgt Ion: 75 Resp: 12762
 Ion Ratio Lower Upper
 75 100
 110 0.0 16.9 50.6#
 77 0.6 24.8 37.2#

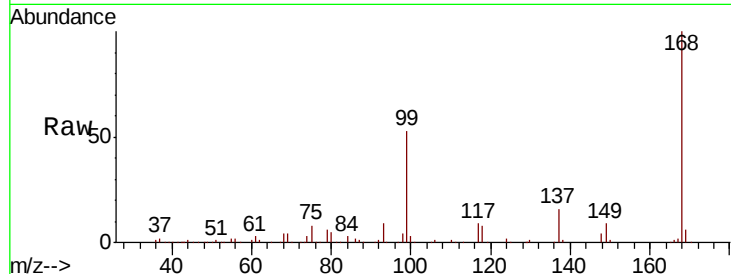




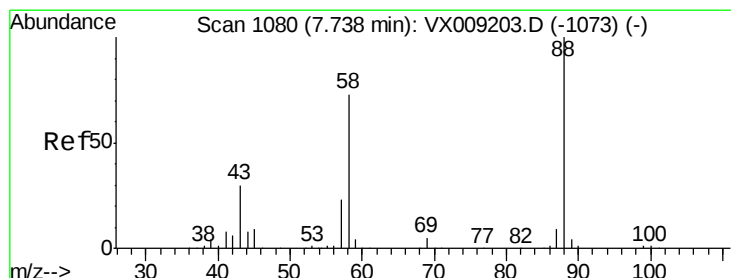
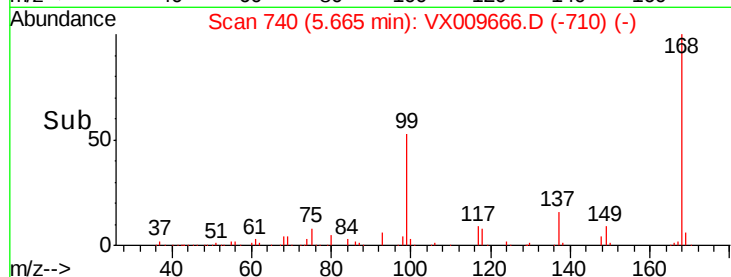
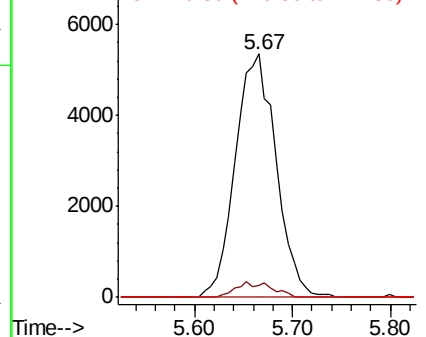
#38
Carbon Tetrachloride
Concen: 7.018 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX009666.D
Acq: 17 May 2019 16:57

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB202-TB-20190513

Tot Ion:117 Resp: 15463
Ion Ratio Lower Upper
117 100
119 4.8 77.5 116.3#
121 0.0 24.7 37.1#

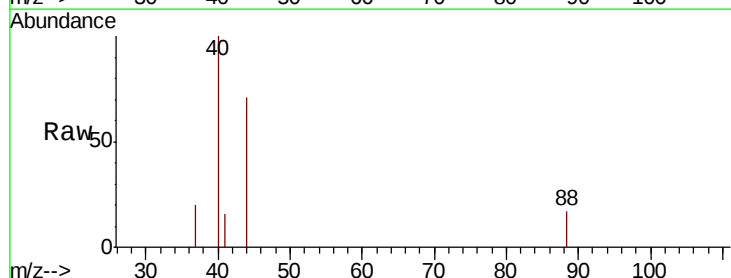


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

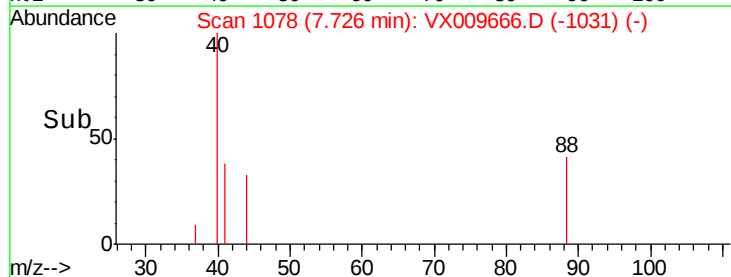
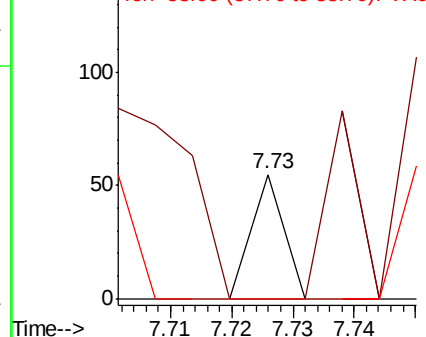


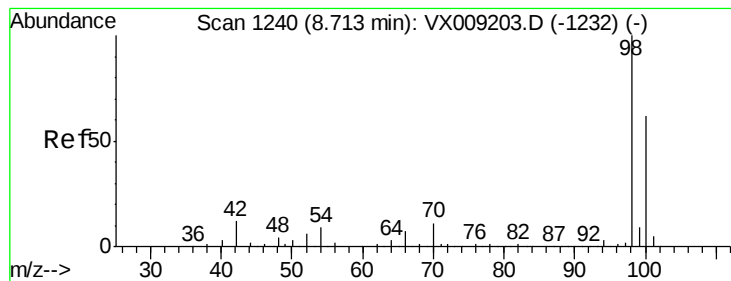
#49
1,4-Dioxane
Concen: 0.368 ug/l
RT: 7.73 min Scan# 1078
Delta R.T. -0.01 min
Lab File: VX009666.D
Acq: 17 May 2019 16:57

Tgt Ion: 88 Resp: 20
Ion Ratio Lower Upper
88 100
43 150.0 28.6 42.8#
58 0.0 61.7 92.5#



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





#50

Toluene-d8

Concen: 49.308 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009666.D

Acq: 17 May 2019 16:57

Instrument :

MSVOA_X

ClientSampleId :

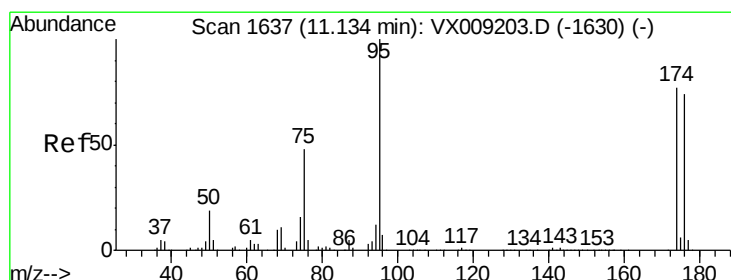
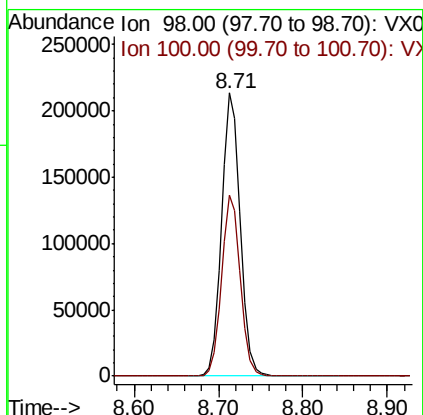
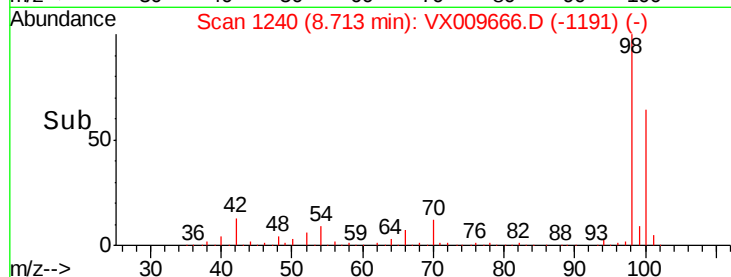
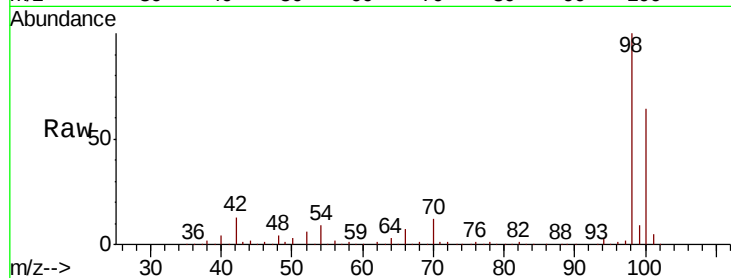
BP-VPB202-TB-20190513

Tot Ion: 98 Resp: 326580

Ion Ratio Lower Upper

98 100

100 63.9 51.2 76.8



#62

4-Bromofluorobenzene

Concen: 42.604 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009666.D

Acq: 17 May 2019 16:57

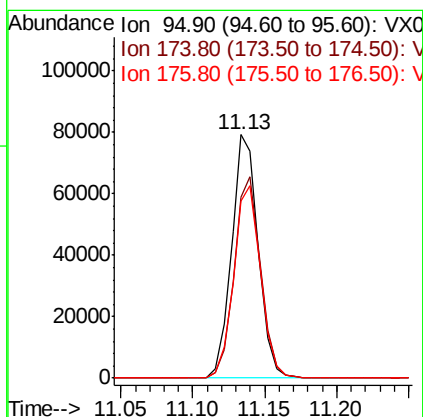
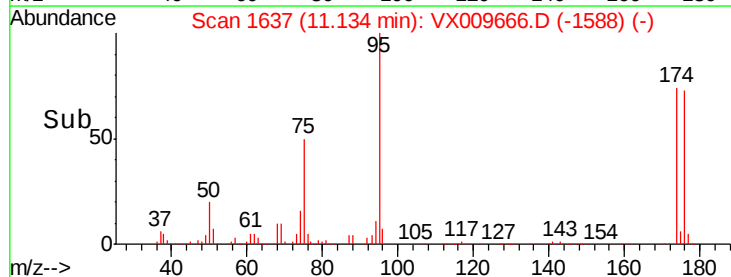
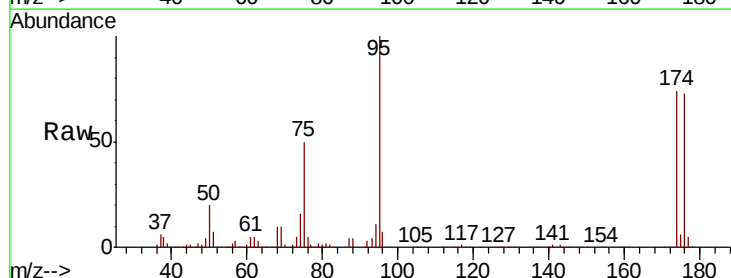
Tgt Ion: 95 Resp: 102533

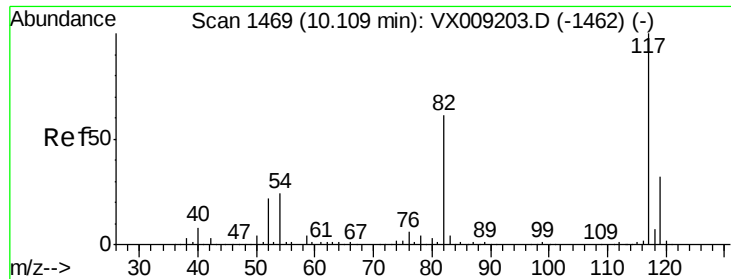
Ion Ratio Lower Upper

95 100

174 82.1 0.0 161.6

176 79.9 0.0 159.2

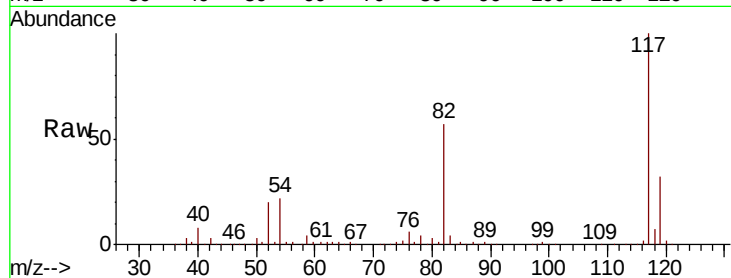




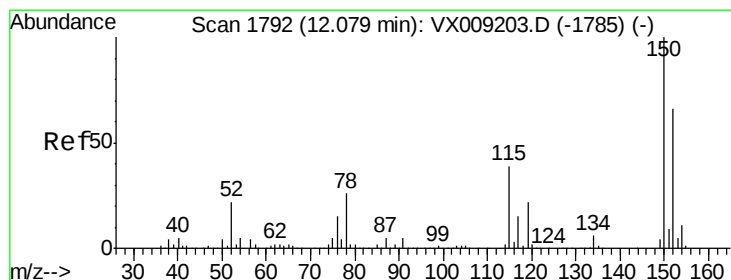
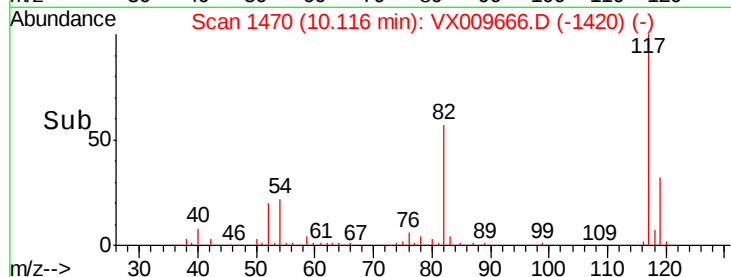
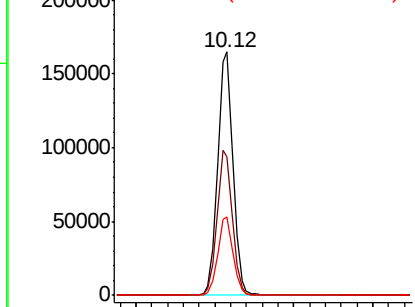
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX009666.D
Acq: 17 May 2019 16:57

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB202-TB-20190513

Tot Ion:117 Resp: 224376
Ion Ratio Lower Upper
117 100
82 57.1 48.8 73.2
119 32.2 25.8 38.6

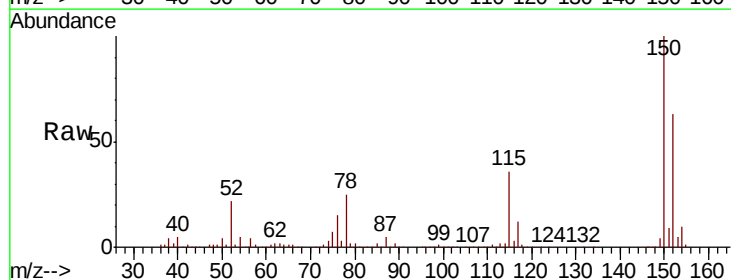


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

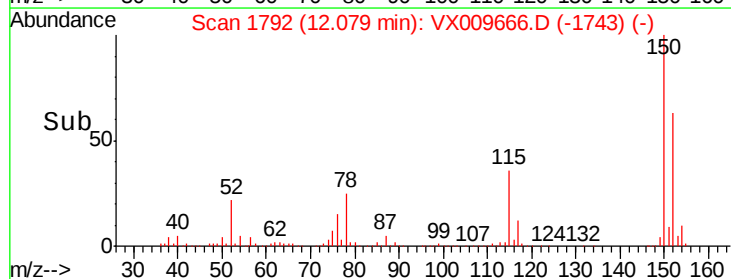
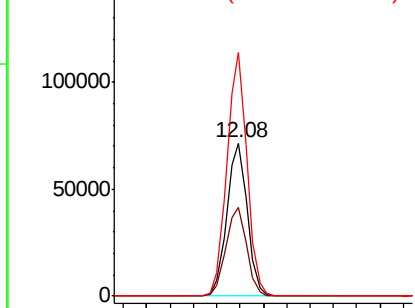


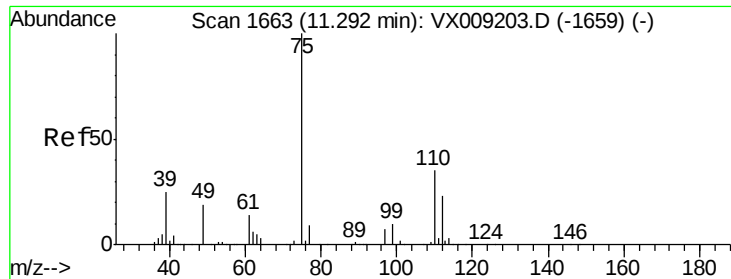
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX009666.D
Acq: 17 May 2019 16:57

Tgt Ion:152 Resp: 87137
Ion Ratio Lower Upper
152 100
115 58.5 41.2 123.6
150 156.0 0.0 346.4



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: 26.226 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009666.D

Acq: 17 May 2019 16:57

Instrument :

MSVOA_X

ClientSampleId :

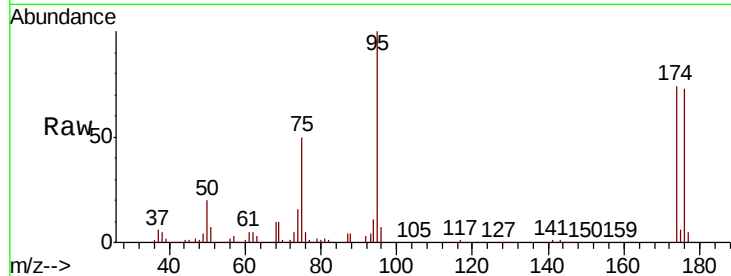
BP-VPB202-TB-20190513

Tot Ion: 75 Resp: 53009

Ion Ratio Lower Upper

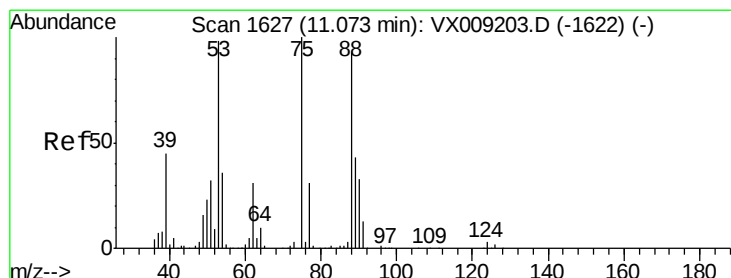
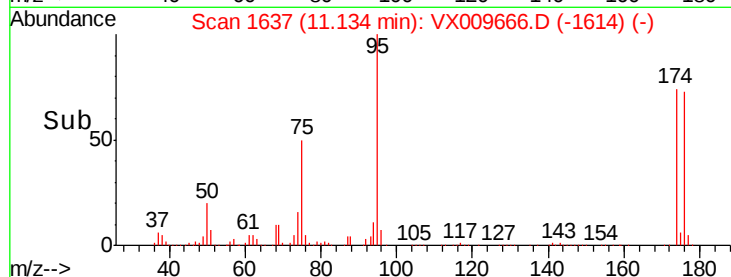
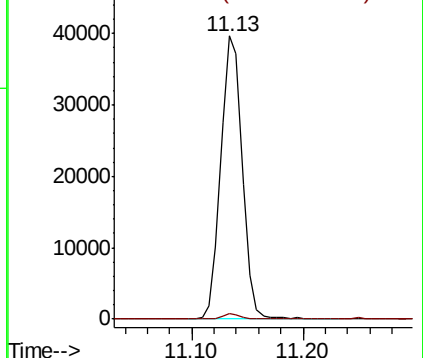
75 100

77 1.6 22.1 66.1#



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: 67.102 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009666.D

Acq: 17 May 2019 16:57

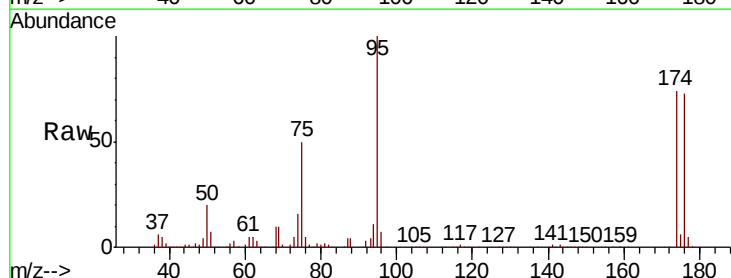
Tgt Ion: 75 Resp: 53009

Ion Ratio Lower Upper

75 100

53 0.1 79.0 118.6#

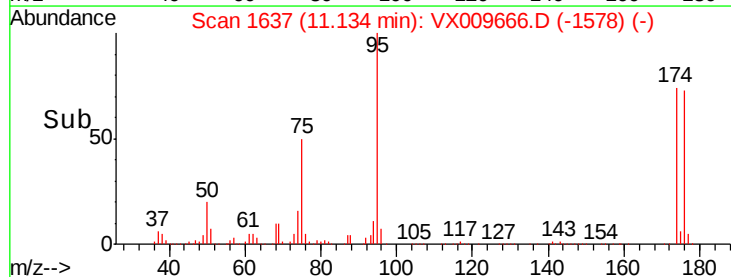
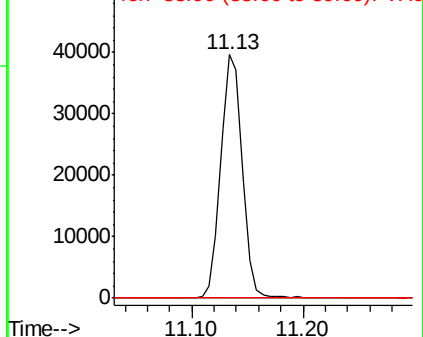
89 0.0 34.7 52.1#

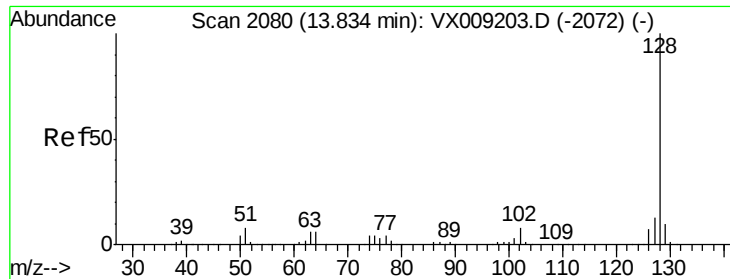


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#95

Naphthalene

Concen: 0.207 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX009666.D

Acq: 17 May 2019 16:57

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB202-TB-20190513

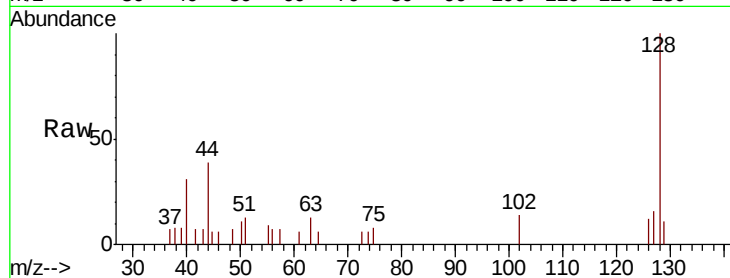
Tot Ion:128 Resp: 1312

Ion Ratio Lower Upper

128 100

127 13.4 10.4 15.6

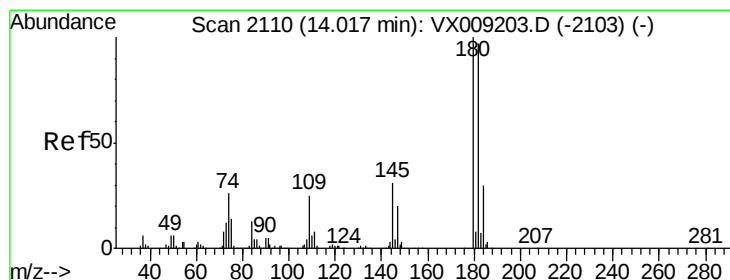
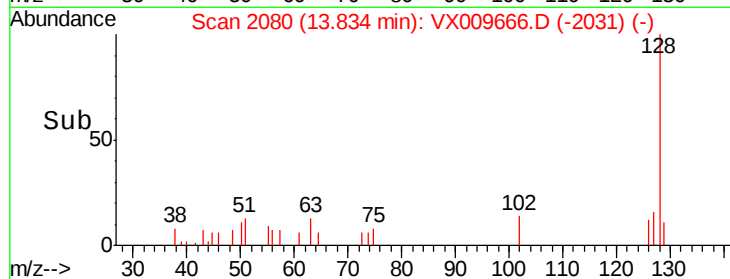
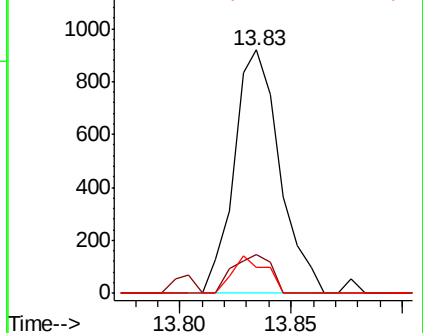
129 11.2 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 0.210 ug/l

RT: 14.02 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VX009666.D

Acq: 17 May 2019 16:57

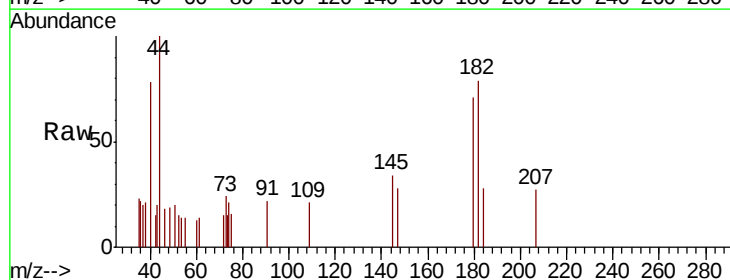
Tgt Ion:180 Resp: 416

Ion Ratio Lower Upper

180 100

182 98.8 47.8 143.4

145 32.0 15.4 46.4



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

