

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031919\
 Data File : VX008210.D
 Acq On : 20 Mar 2019 00:18
 Operator : JC/SP
 Sample : K1882-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-EB01-20190312

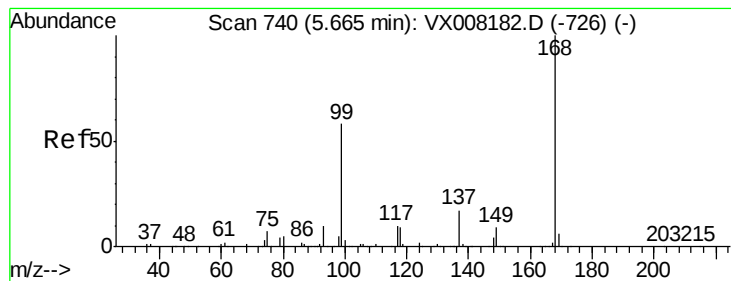
Quant Time: Mar 20 07:16:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X031919W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 20 06:51:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	338490	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	544782	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	461085	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	184116	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	233810	45.86	ug/l	0.00
Spiked Amount			Recovery	=	91.72%	
35) Dibromofluoromethane	5.50	113	171946	47.15	ug/l	0.00
Spiked Amount			Recovery	=	94.30%	
50) Toluene-d8	8.71	98	676268	48.91	ug/l	0.00
Spiked Amount			Recovery	=	97.82%	
62) 4-Bromofluorobenzene	11.13	95	217519	45.69	ug/l	0.00
Spiked Amount			Recovery	=	91.38%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1075	0.246	ug/l #	63
6) Chloroethane	1.70	64	684	0.212	ug/l #	43
11) Tert butyl alcohol	3.03	59	10178	9.326	ug/l #	75
13) Acrolein	2.28	56	318	Below Cal	#	53
15) Acrylonitrile	3.16	53	768	0.266	ug/l #	85
16) Acetone	2.45	43	3306	1.143	ug/l	93
17) Carbon Disulfide	2.57	76	3870	0.960	ug/l #	89
20) Methylene Chloride	2.87	84	1138	0.236	ug/l #	84
25) 2-Butanone	4.69	43	2008	0.470	ug/l	95
31) Cyclohexane	5.66	56	7134	0.844	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	28399	4.477	ug/l #	50
38) Carbon Tetrachloride	5.67	117	33781	5.977	ug/l #	17
44) Trichloroethene	7.21	130	1068	0.233	ug/l	88
49) 1,4-Dioxane	7.75	88	148	1.312	ug/l #	1
53) t-1,3-Dichloropropene	9.05	75	650	1.505	ug/l #	78
56) Ethyl methacrylate	9.18	69	62	0.534	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	112201	21.667	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	112201	55.085	ug/l #	11
93) 1,2,4-Trichlorobenzene	13.65	180	995	0.211	ug/l	83

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX008210.D

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ClientSampleId :

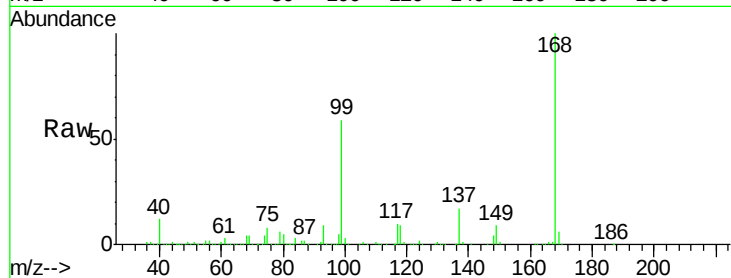
BP-EB01-20190312

Tot Ion:168 Resp: 338490

Ion Ratio Lower Upper

168 100

99 58.5 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

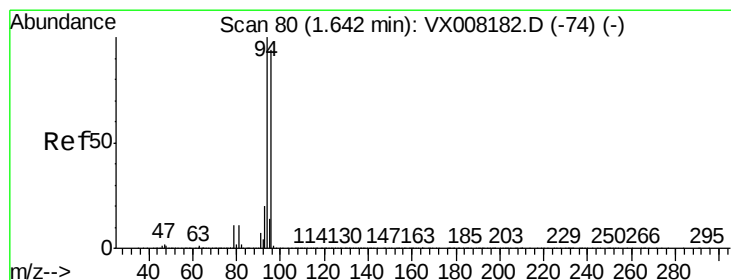
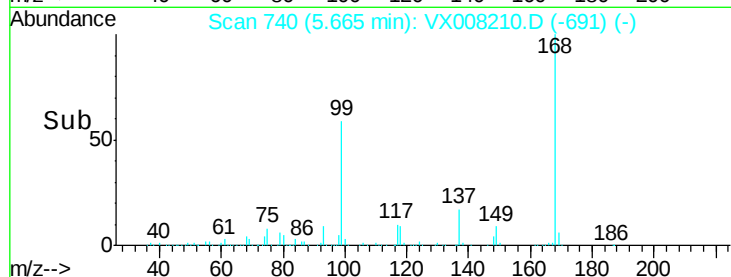
5.67

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.246 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX008210.D

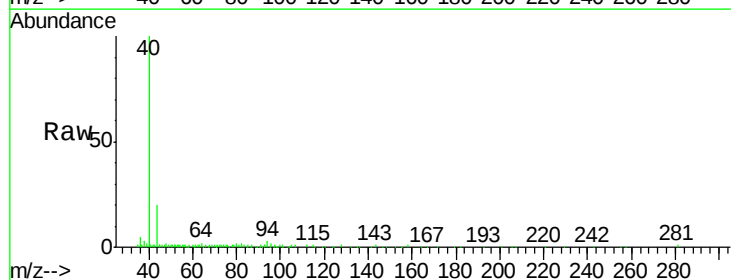
Acq: 20 Mar 2019 00:18

Tgt Ion: 94 Resp: 1075

Ion Ratio Lower Upper

94 100

96 58.3 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

400

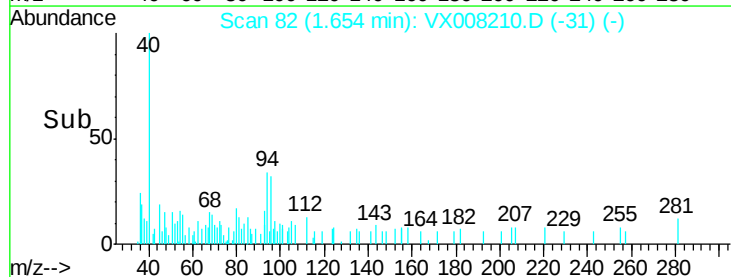
300

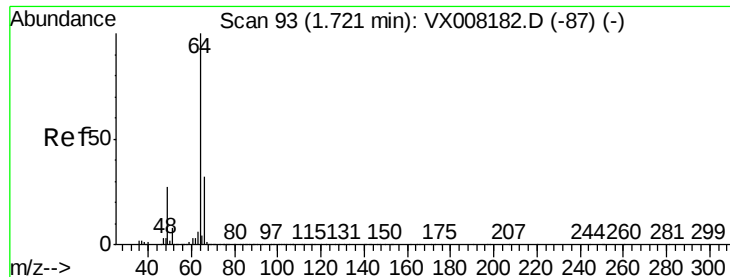
200

100

0

Time--> 1.60 1.65 1.70 1.75





#6

Chloroethane

Concen: 0.212 ug/l

RT: 1.70 min Scan# 90

Delta R.T. -0.02 min

Lab File: VX008210.D

Acq: 20 Mar 2019 00:18

Instrument :

MSVOA_X

ClientSampleId :

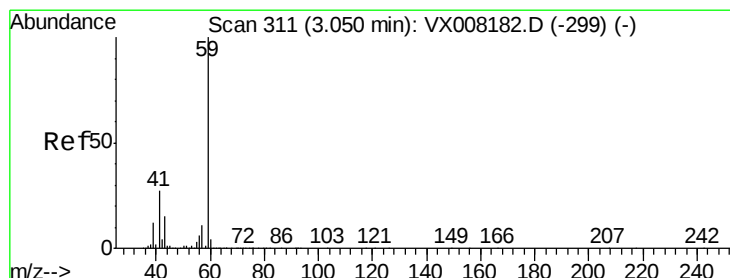
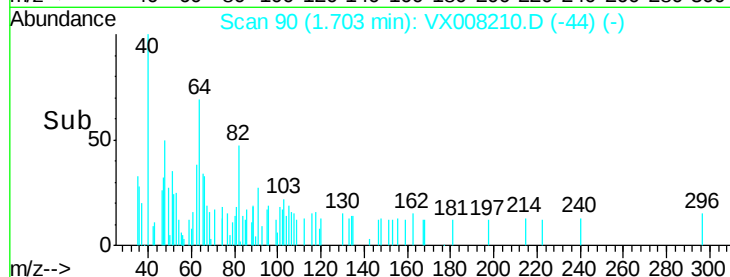
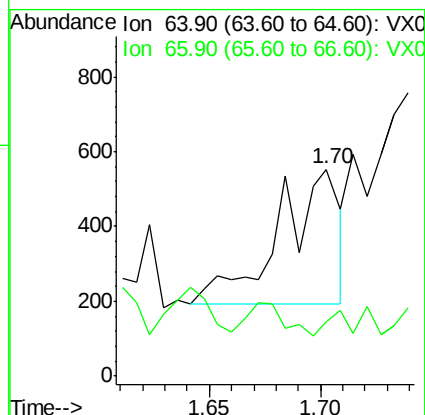
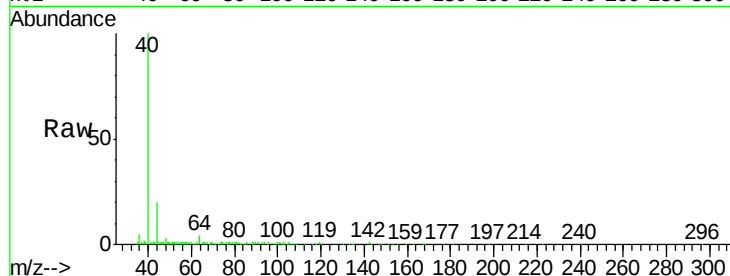
BP-EB01-20190312

Tot Ion: 64 Resp: 684

Ion Ratio Lower Upper

64 100

66 0.0 25.2 37.8#



#11

Tert butyl alcohol

Concen: 9.326 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.02 min

Lab File: VX008210.D

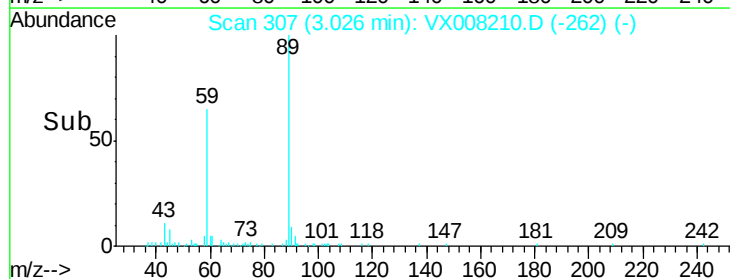
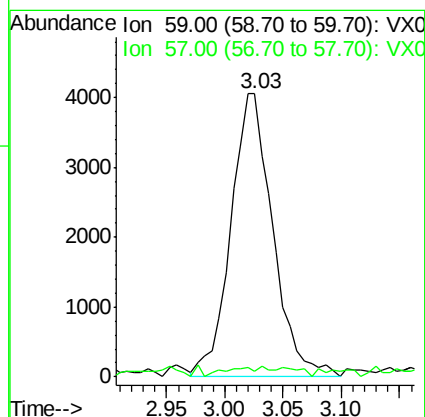
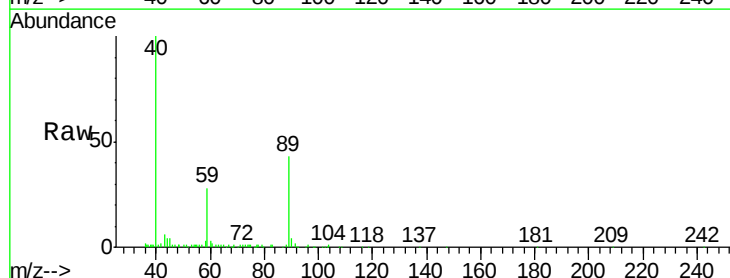
Acq: 20 Mar 2019 00:18

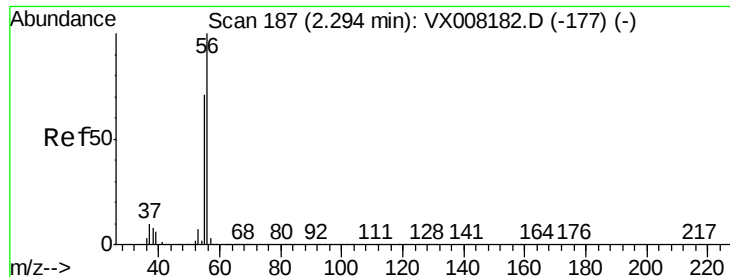
Tgt Ion: 59 Resp: 10178

Ion Ratio Lower Upper

59 100

57 0.9 8.2 12.2#





#13

Acrolein

Concen: Below Cal

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX008210.D

Acq: 20 Mar 2019 00:18

Instrument :

MSVOA_X

ClientSampleId :

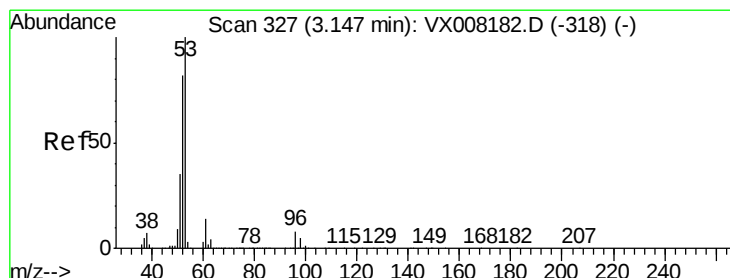
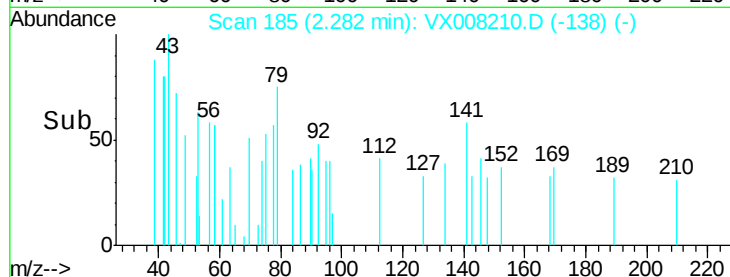
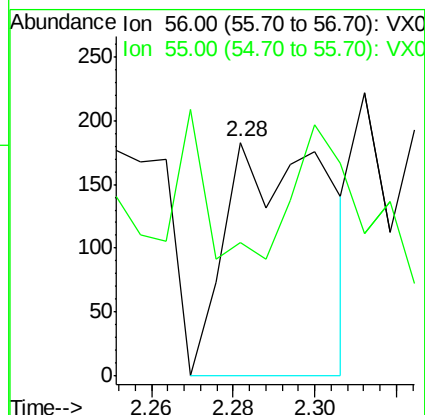
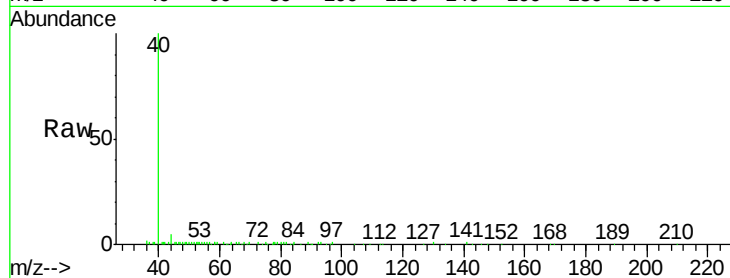
BP-EB01-20190312

Tot Ion: 56 Resp: 318

Ion Ratio Lower Upper

56 100

55 111.6 57.8 86.6#



#15

Acrylonitrile

Concen: 0.266 ug/l

RT: 3.16 min Scan# 329

Delta R.T. 0.01 min

Lab File: VX008210.D

Acq: 20 Mar 2019 00:18

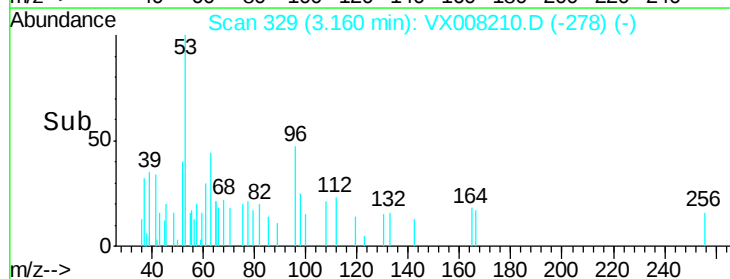
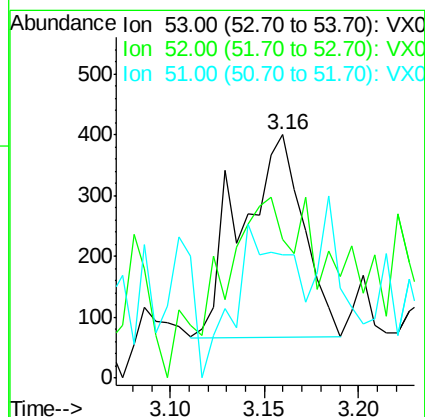
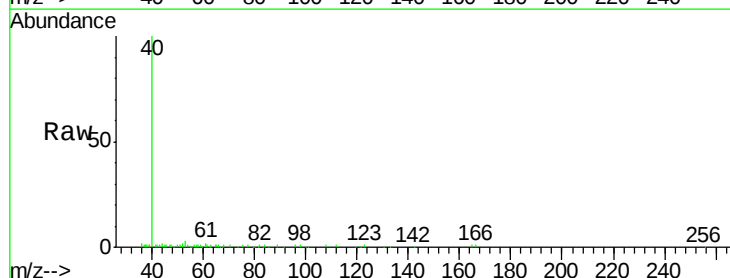
Tgt Ion: 53 Resp: 768

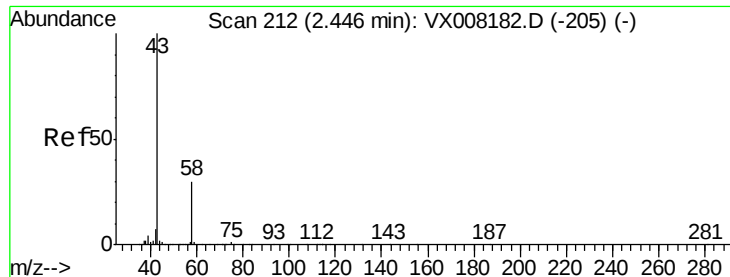
Ion Ratio Lower Upper

53 100

52 99.1 66.0 99.0#

51 39.1 28.0 42.0





#16

Acetone

Concen: 1.143 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX008210.D

Acq: 20 Mar 2019 00:18

Instrument :

MSVOA_X

ClientSampleId :

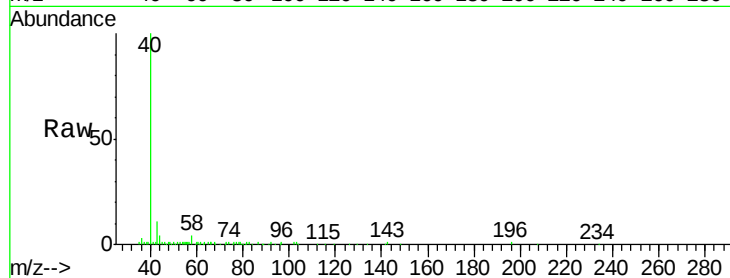
BP-EB01-20190312

Tot Ion: 43 Resp: 3306

Ion Ratio Lower Upper

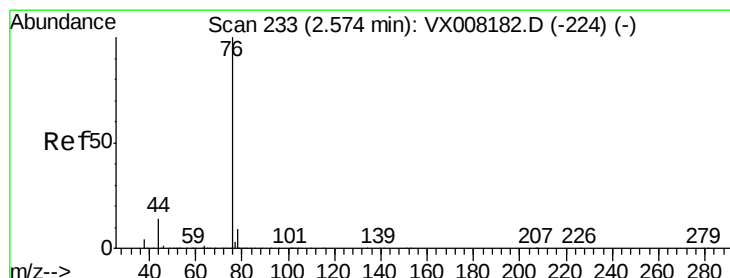
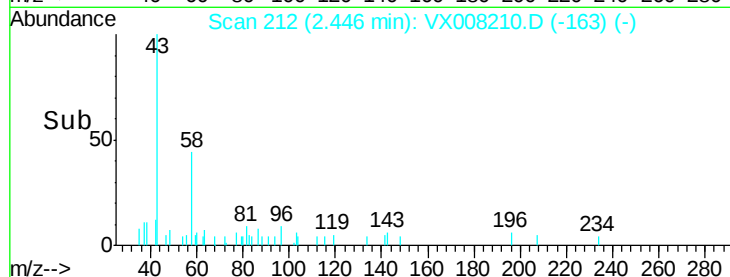
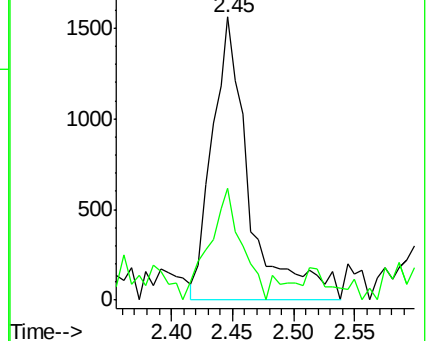
43 100

58 35.6 25.5 38.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.960 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX008210.D

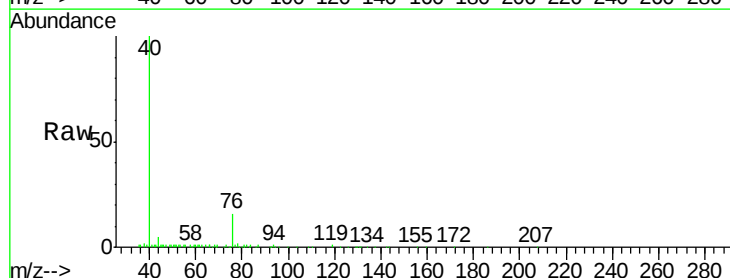
Acq: 20 Mar 2019 00:18

Tgt Ion: 76 Resp: 3870

Ion Ratio Lower Upper

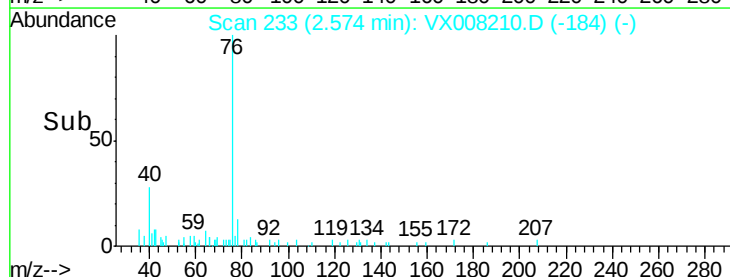
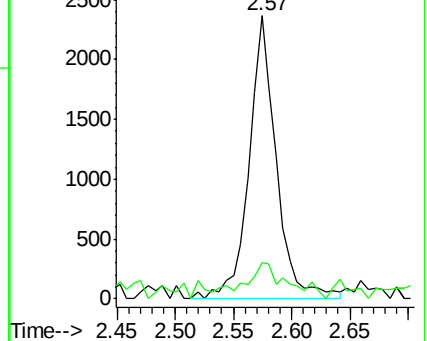
76 100

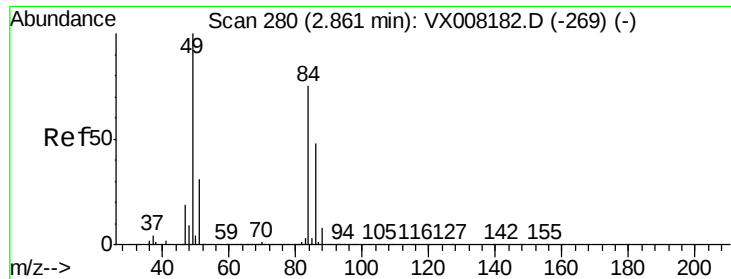
78 13.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

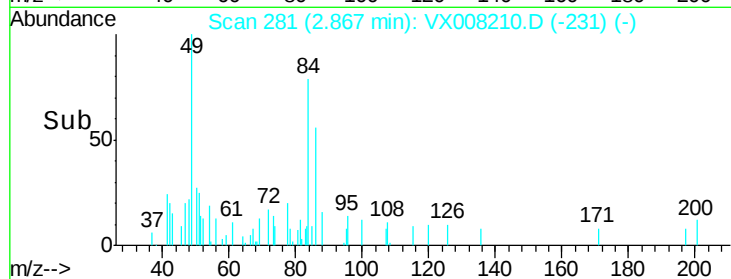
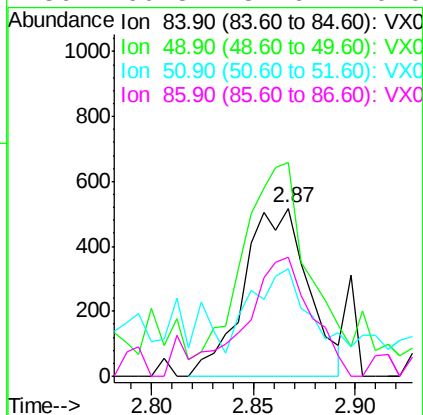
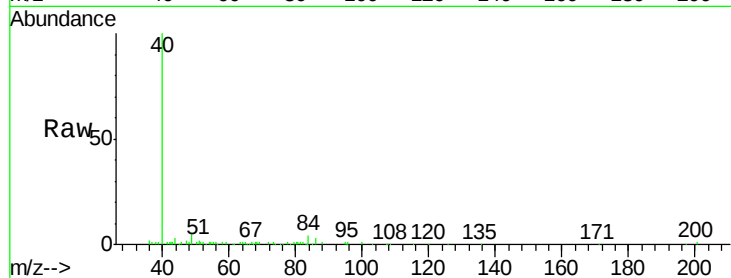




#20
Methvlene Chloride
Concen: 0.236 ug/l
RT: 2.87 min Scan# 281
Delta R.T. 0.01 min
Lab File: VX008210.D
Acq: 20 Mar 2019 00:18

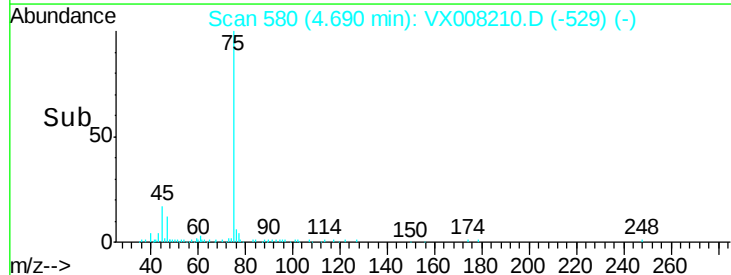
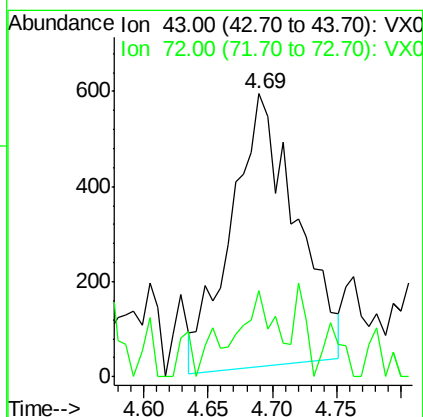
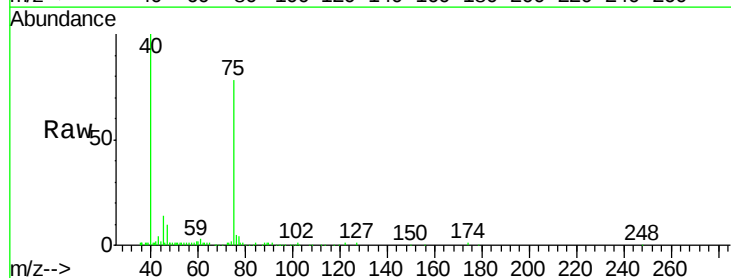
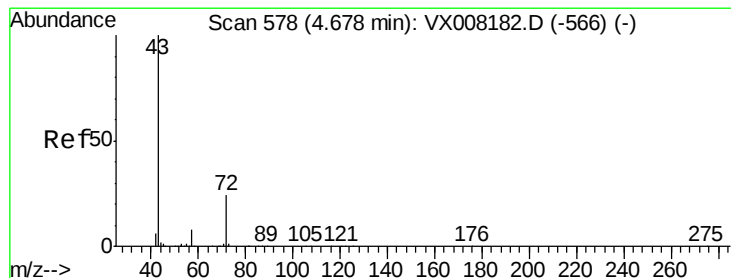
Instrument :
MSVOA_X
ClientSampleId :
BP-EB01-20190312

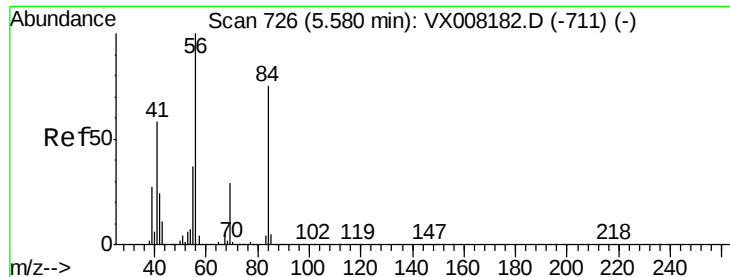
Tot Ion: 84 Resp: 1138
Ion Ratio Lower Upper
84 100
49 100.0 99.3 148.9
51 47.7 31.3 46.9#
86 60.8 52.6 79.0



#25
2-Butanone
Concen: 0.470 ug/l
RT: 4.69 min Scan# 580
Delta R.T. 0.01 min
Lab File: VX008210.D
Acq: 20 Mar 2019 00:18

Tgt Ion: 43 Resp: 2008
Ion Ratio Lower Upper
43 100
72 22.5 19.9 29.9

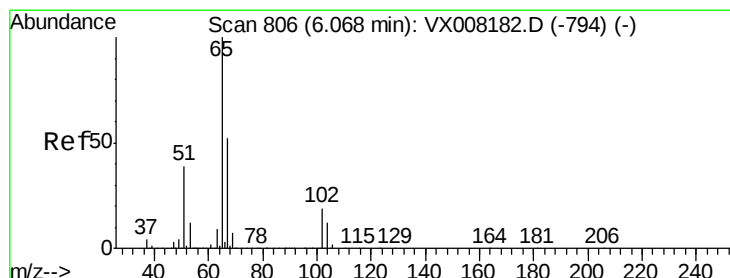
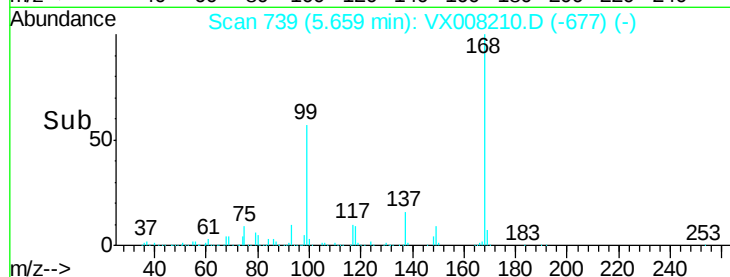
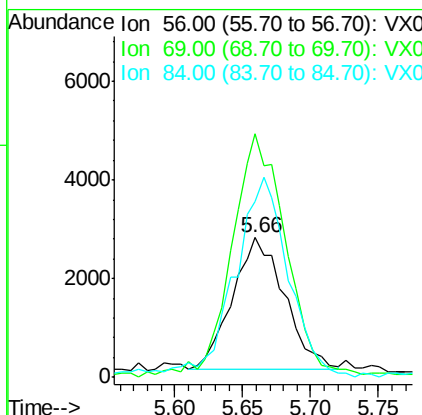
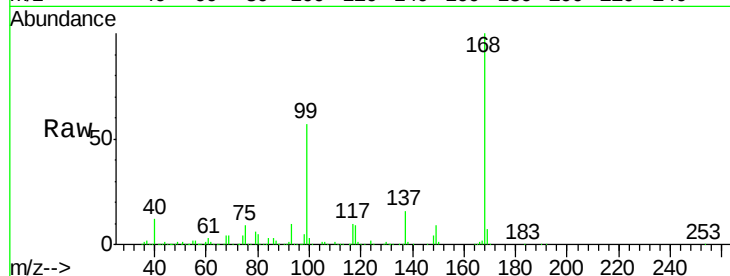




#31
Cyclohexane
Concen: 0.844 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX008210.D
Acq: 20 Mar 2019 00:18

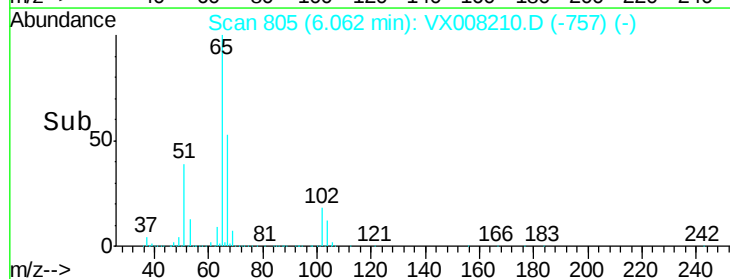
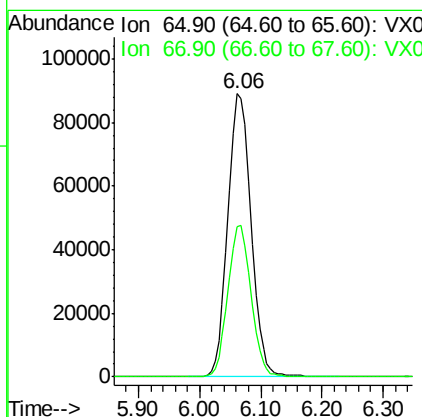
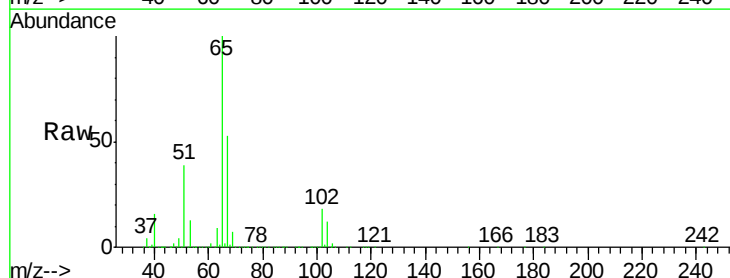
Instrument :
MSVOA_X
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BP-EB01-20190312

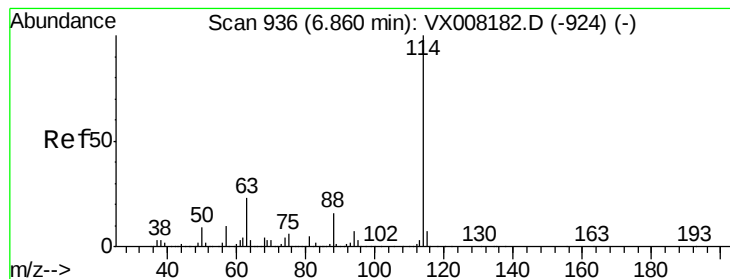
Tot Ion: 56 Resp: 7134
Ion Ratio Lower Upper
56 100
69 179.6 24.0 36.0#
84 131.6 65.3 97.9#



#33
1,2-Dichloroethane-d4
Concen: 45.863 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.01 min
Lab File: VX008210.D
Acq: 20 Mar 2019 00:18

Tgt Ion: 65 Resp: 233810
Ion Ratio Lower Upper
65 100
67 53.0 0.0 110.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX008210.D

Acq: 20 Mar 2019 00:18

Instrument :
MSVOA_X
ClientSampleId :
BP-EB01-20190312

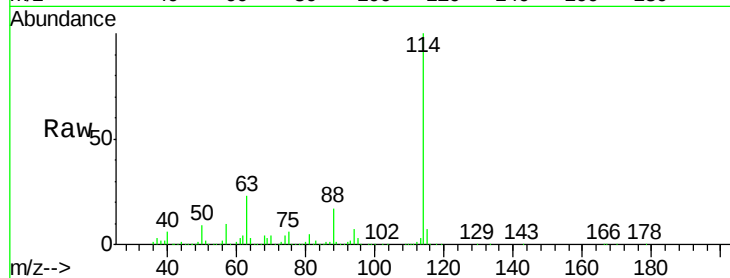
Tot Ion:114 Resp: 544782

Ion Ratio Lower Upper

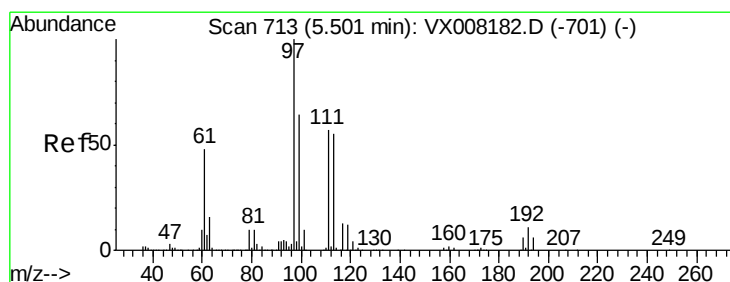
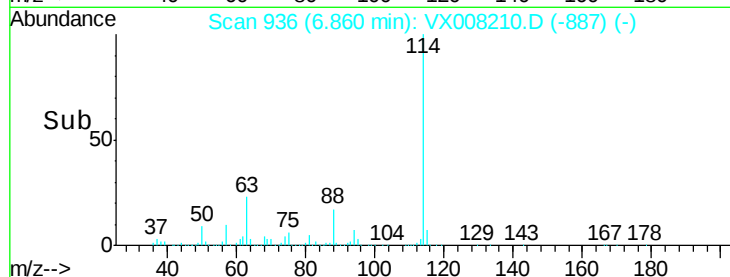
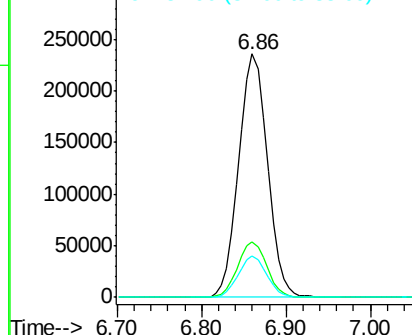
114 100

63 22.6 0.0 39.8

88 16.8 0.0 31.4



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: 47.148 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX008210.D

Acq: 20 Mar 2019 00:18

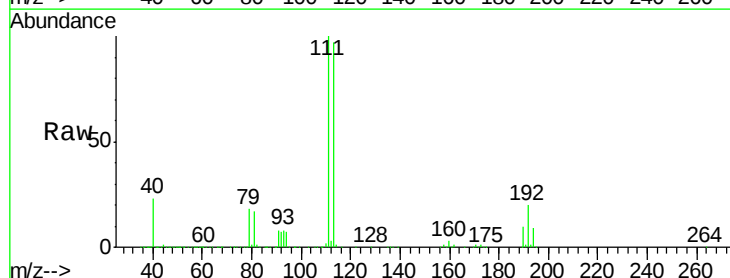
Tgt Ion:113 Resp: 171946

Ion Ratio Lower Upper

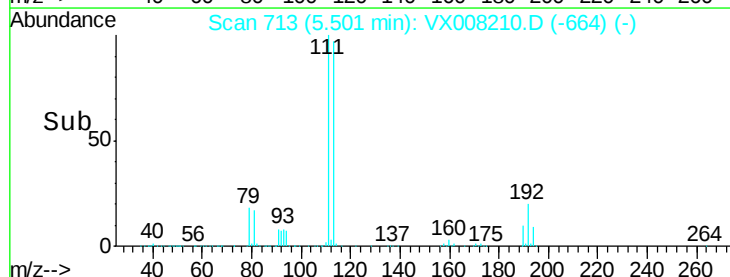
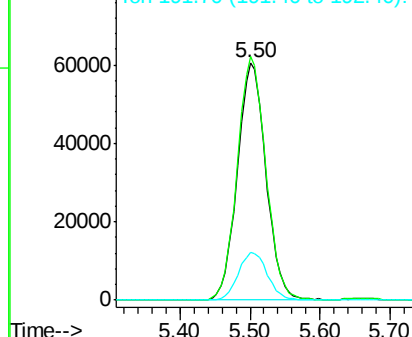
113 100

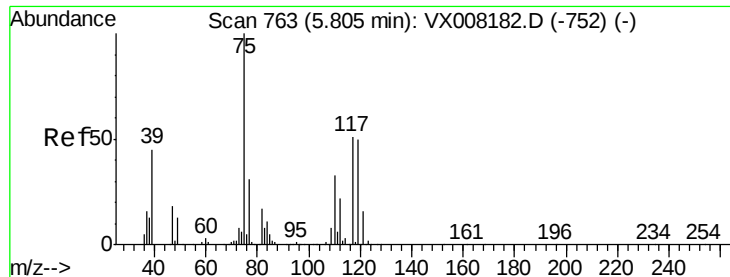
111 102.5 81.4 122.0

192 20.5 19.4 29.0



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

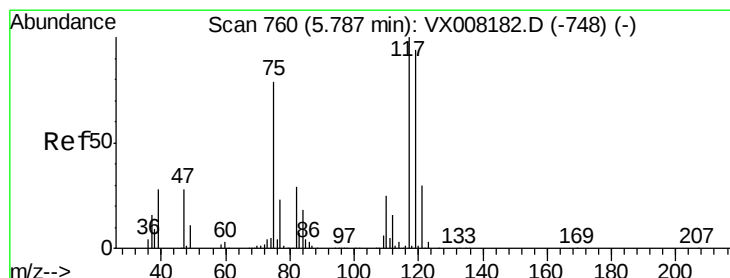
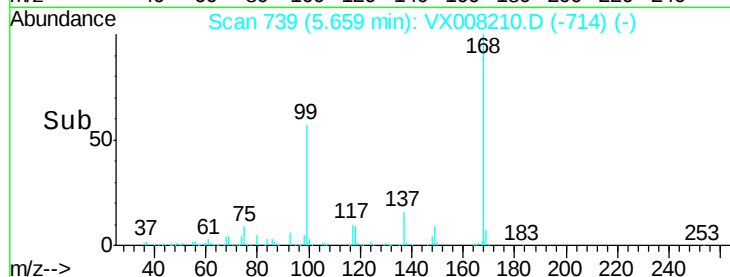
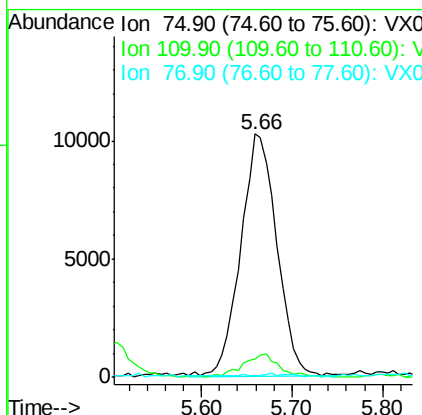
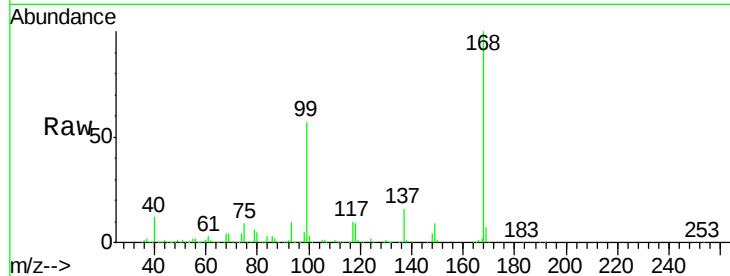




#36
 1,1-Dichloropropene
 Concen: 4.477 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.15 min
 Lab File: VX008210.D
 Acq: 20 Mar 2019 00:18

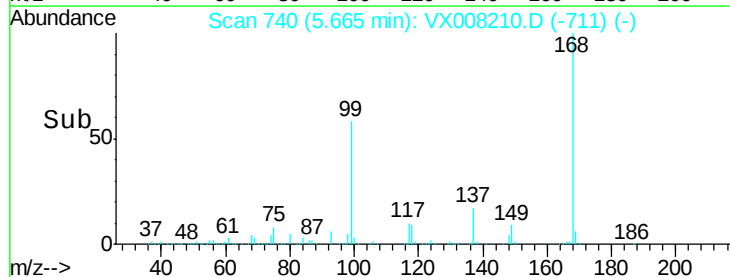
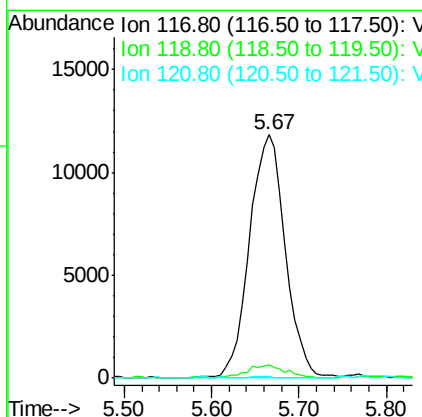
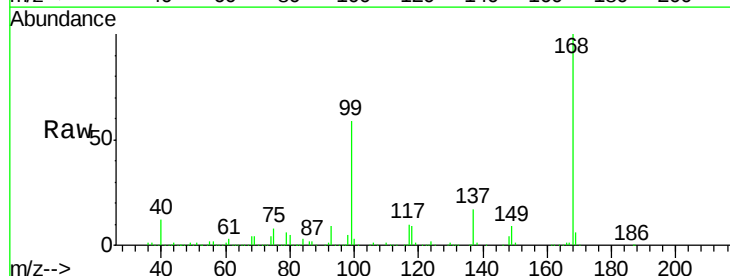
Instrument :
 MSVOA_X
 ClientSampleId :
 BP-EB01-20190312

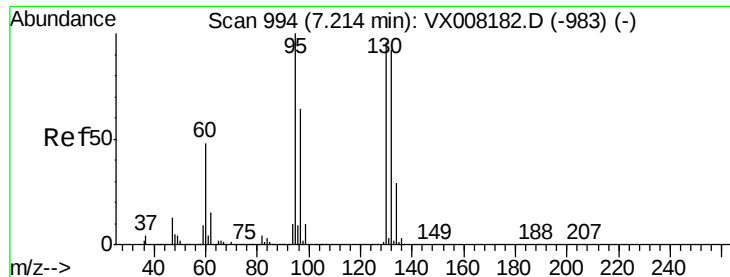
Tot Ion	75	Resp	28399
Ion Ratio	Lower	Upper	
75	100		
110	9.8	18.4	55.0#
77	0.7	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.977 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX008210.D
 Acq: 20 Mar 2019 00:18

Tgt Ion	117	Resp	33781
Ion Ratio	Lower	Upper	
117	100		
119	5.7	76.2	114.2#
121	0.5	24.6	36.8#





#44

Trichloroethene

Concen: 0.233 ug/l

RT: 7.21 min Scan# 993

Delta R.T. -0.01 min

Lab File: VX008210.D

Acq: 20 Mar 2019 00:18

Instrument :

MSVOA_X

ClientSampleId :

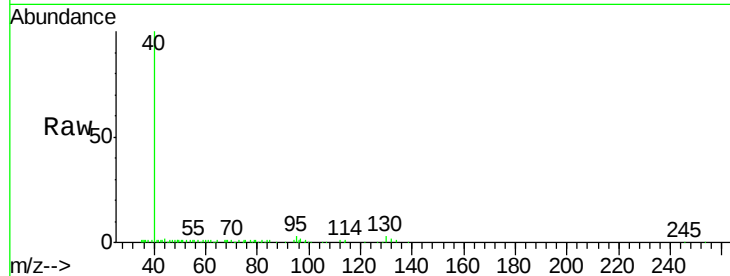
BP-EB01-20190312

Tot Ion:130 Resp: 1068

Ion Ratio Lower Upper

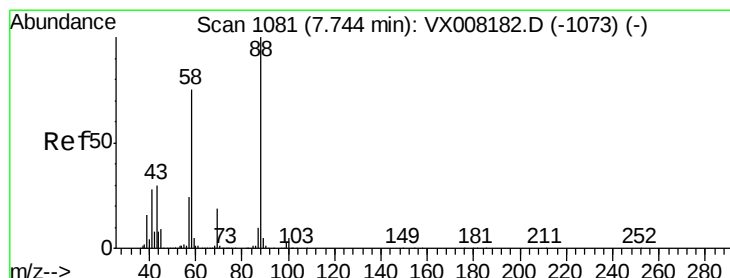
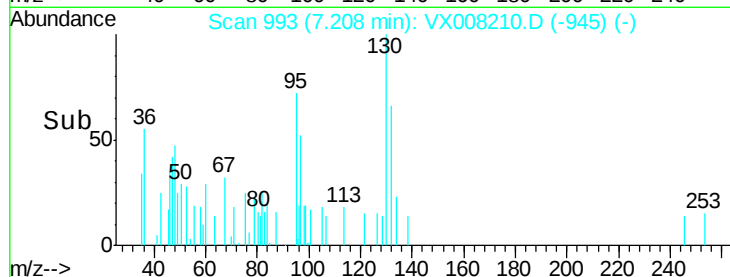
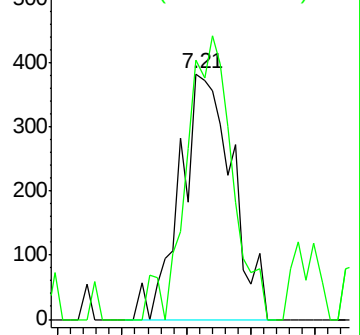
130 100

95 105.8 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 1.312 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.01 min

Lab File: VX008210.D

Acq: 20 Mar 2019 00:18

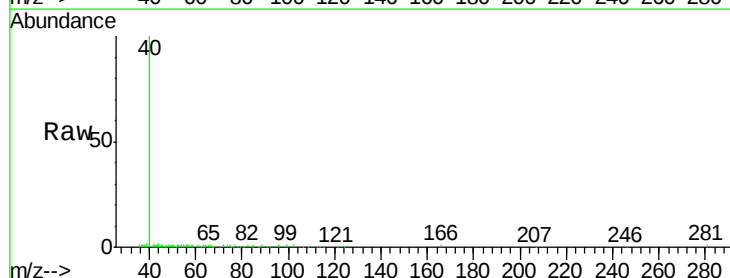
Tgt Ion: 88 Resp: 148

Ion Ratio Lower Upper

88 100

43 155.4 25.1 37.7#

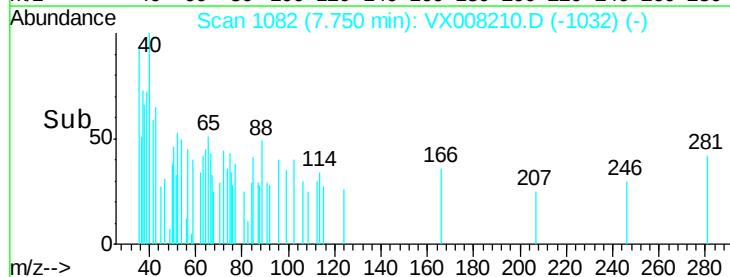
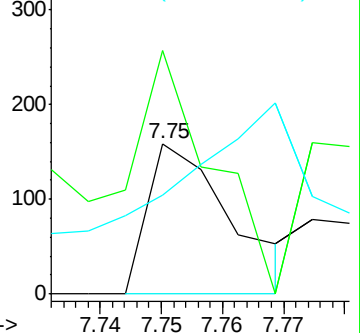
58 0.0 57.8 86.6#

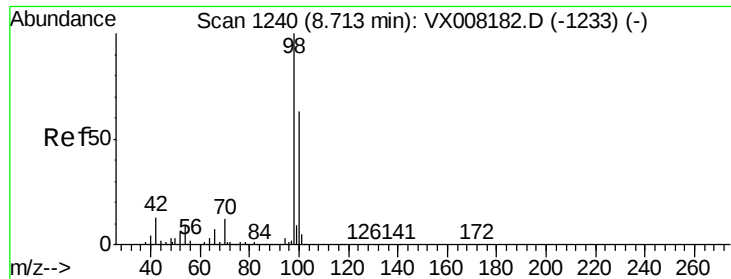


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.910 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008210.D

Acq: 20 Mar 2019 00:18

Instrument :

MSVOA_X

ClientSampleId :

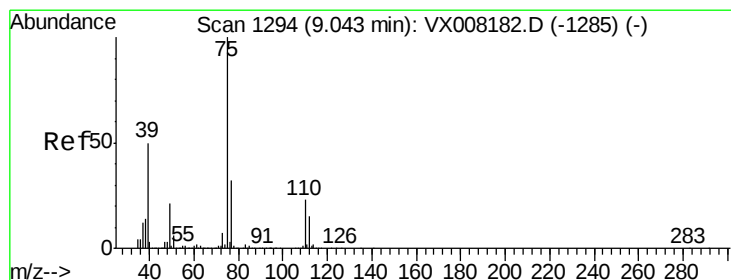
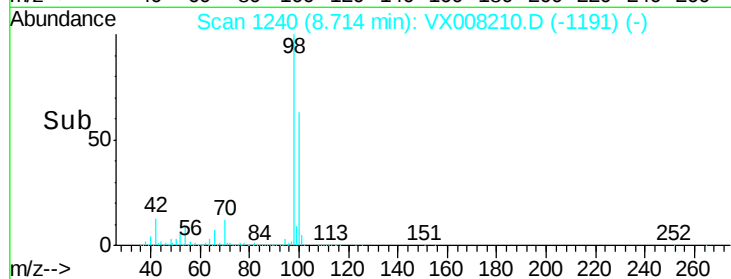
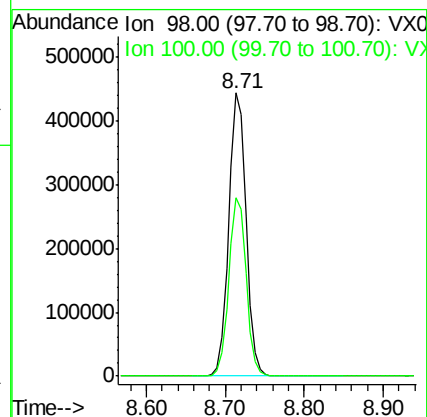
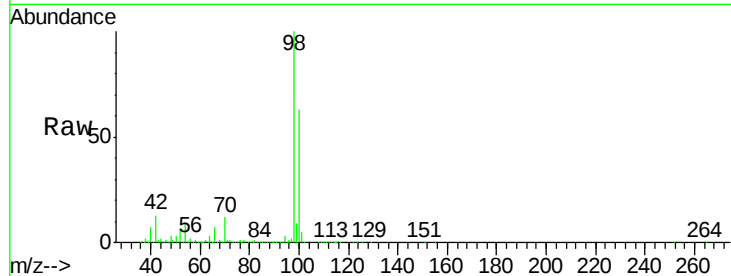
BP-EB01-20190312

Tot Ion: 98 Resp: 676268

Ion Ratio Lower Upper

98 100

100 63.1 51.7 77.5



#53

t-1,3-Dichloropropene

Concen: 1.505 ug/l

RT: 9.05 min Scan# 1295

Delta R.T. 0.01 min

Lab File: VX008210.D

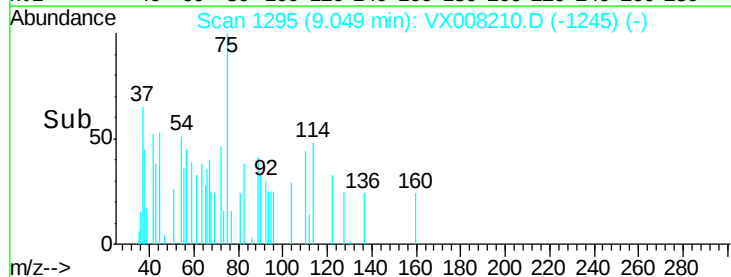
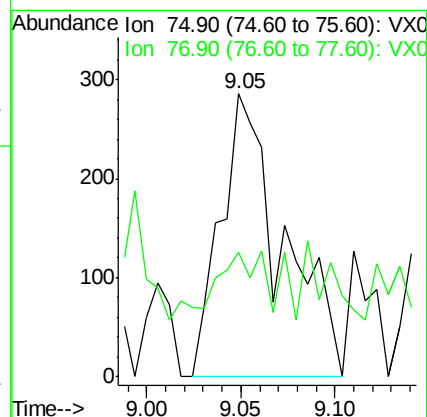
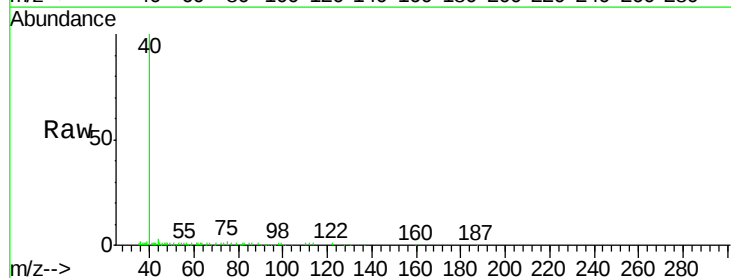
Acq: 20 Mar 2019 00:18

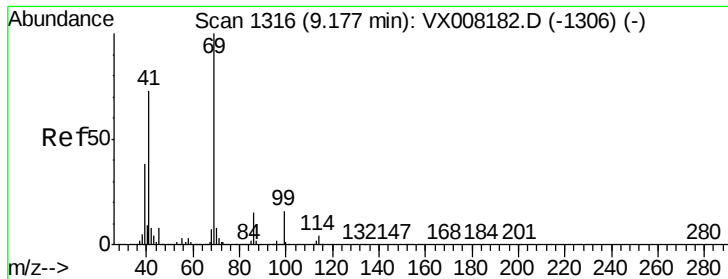
Tgt Ion: 75 Resp: 650

Ion Ratio Lower Upper

75 100

77 19.2 25.4 38.0#





#56

Ethyl methacrylate

Concen: 0.534 ug/l

RT: 9.18 min Scan# 1317

Delta R.T. 0.01 min

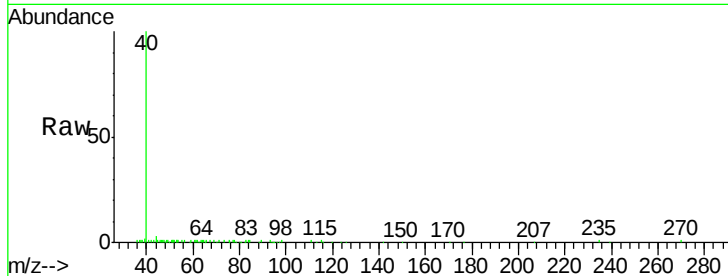
Lab File: VX008210.D

Acq: 20 Mar 2019 00:18

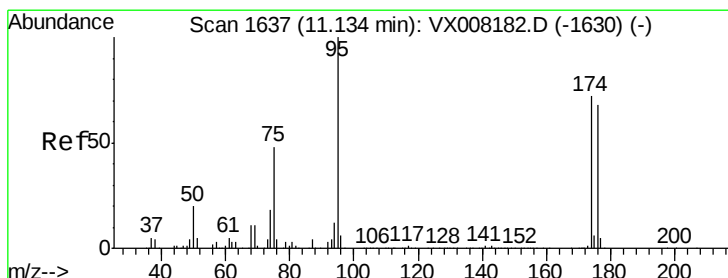
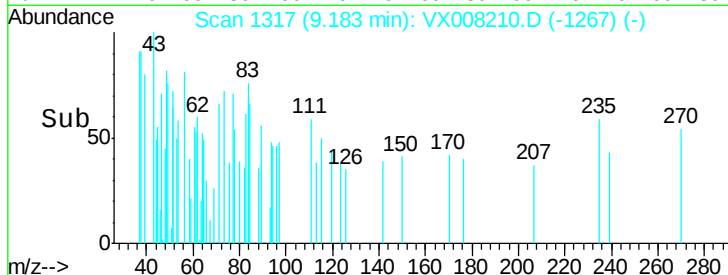
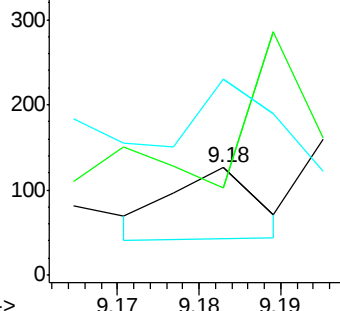
Instrument :
MSVOA_X
ClientSampleId :
BP-EB01-20190312

Tot Ion: 69 Resp: 62

Ion	Ratio	Lower	Upper
69	100		
41	212.9	54.2	81.4#
39	0.0	25.0	37.4#



Abundance Ion 69.00 (68.70 to 69.70): VX0
Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0



#62

4-Bromofluorobenzene

Concen: 45.689 ug/l

RT: 11.13 min Scan# 1637

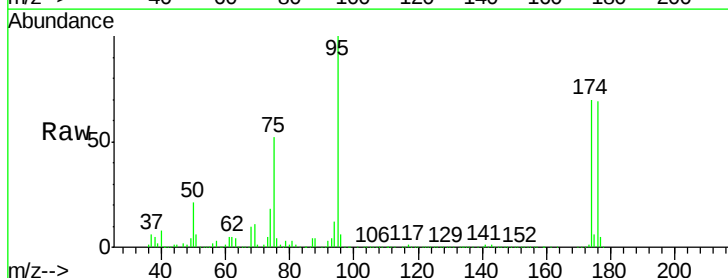
Delta R.T. 0.00 min

Lab File: VX008210.D

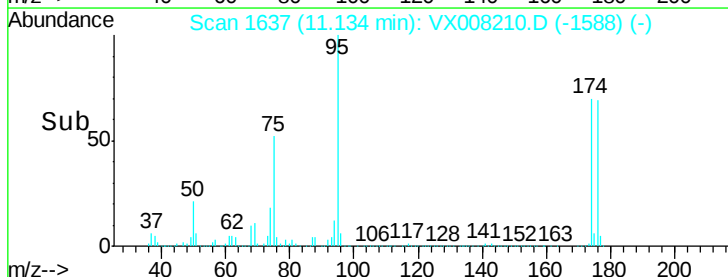
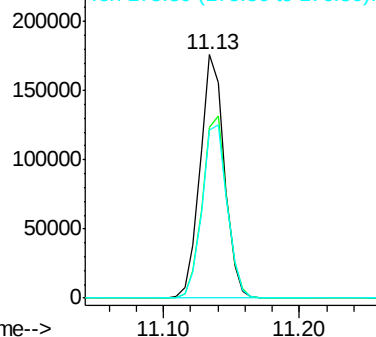
Acq: 20 Mar 2019 00:18

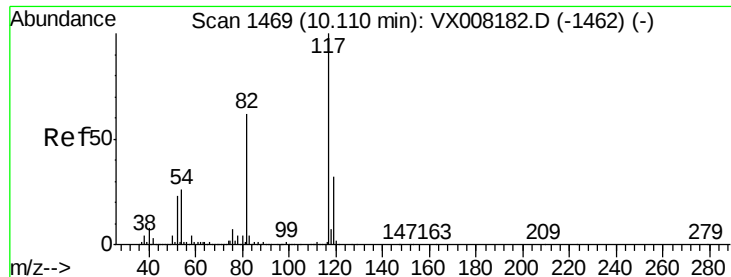
Tgt Ion: 95 Resp: 217519

Ion	Ratio	Lower	Upper
95	100		
174	76.3	0.0	182.8
176	74.2	0.0	178.0



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

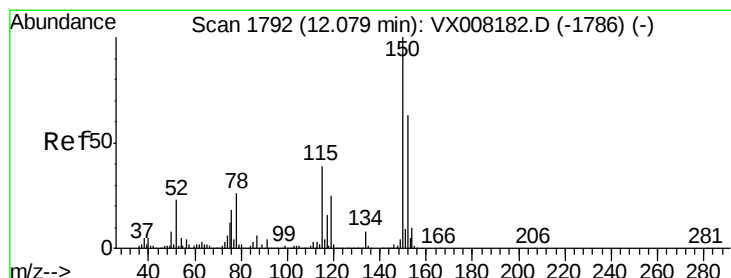
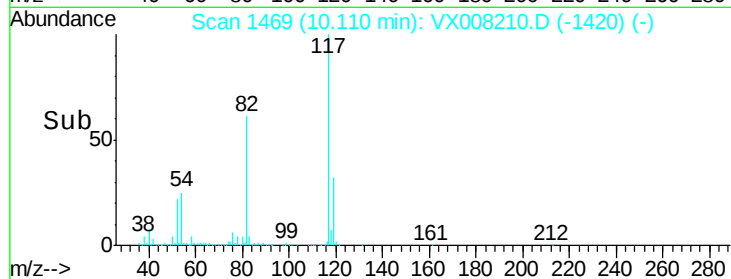
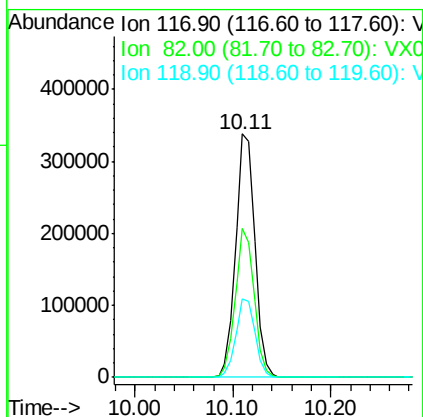
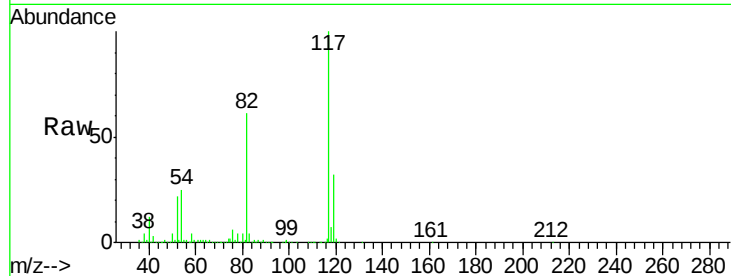




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008210.D
Acq: 20 Mar 2019 00:18

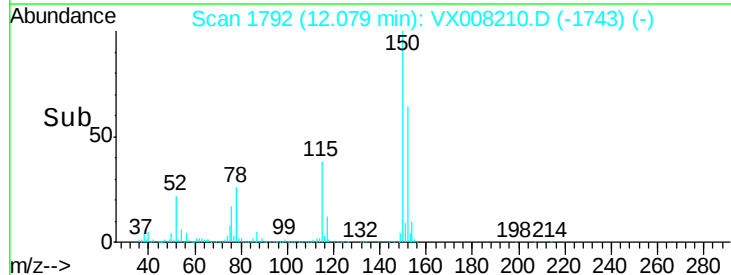
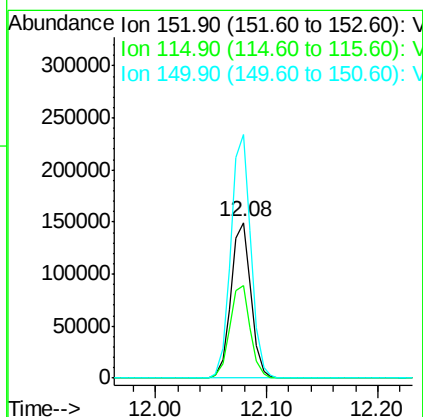
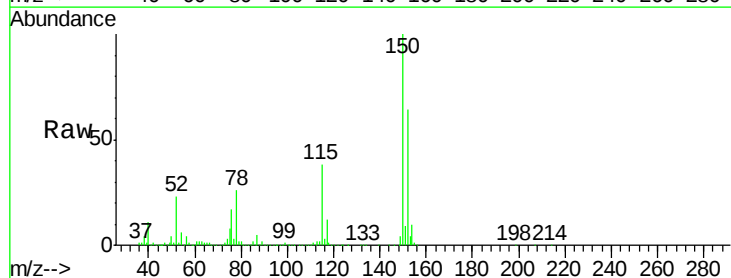
Instrument :
MSVOA_X
ClientSampleId :
BP-EB01-20190312

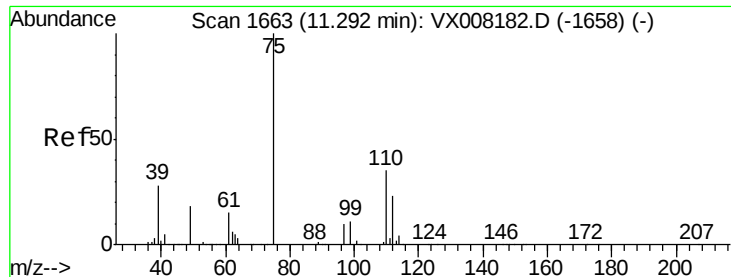
Tot Ion:117 Resp: 461085
Ion Ratio Lower Upper
117 100
82 61.0 44.3 66.5
119 32.2 25.3 37.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX008210.D
Acq: 20 Mar 2019 00:18

Tgt Ion:152 Resp: 184116
Ion Ratio Lower Upper
152 100
115 61.0 38.6 115.7
150 156.4 0.0 348.4





#76

1,2,3-Trichloropropane

Concen: 21.667 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008210.D

Acq: 20 Mar 2019 00:18

Instrument :

MSVOA_X

ClientSampleId :

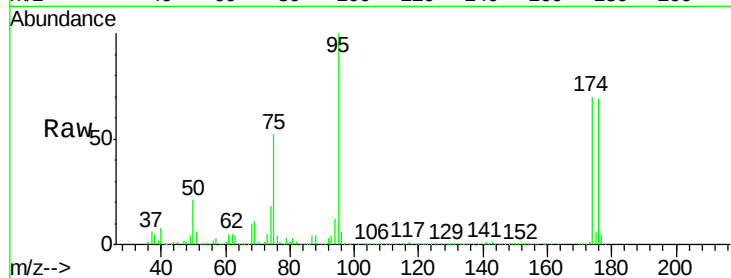
BP-EB01-20190312

Tot Ion: 75 Resp: 112201

Ion Ratio Lower Upper

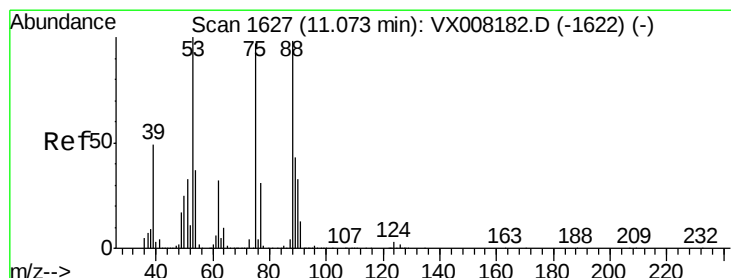
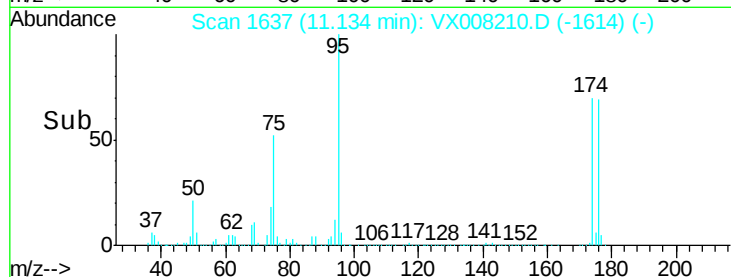
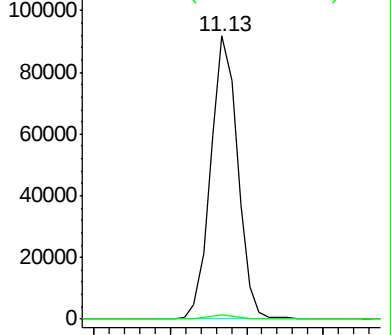
75 100

77 1.6 18.9 56.7#



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: 55.085 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008210.D

Acq: 20 Mar 2019 00:18

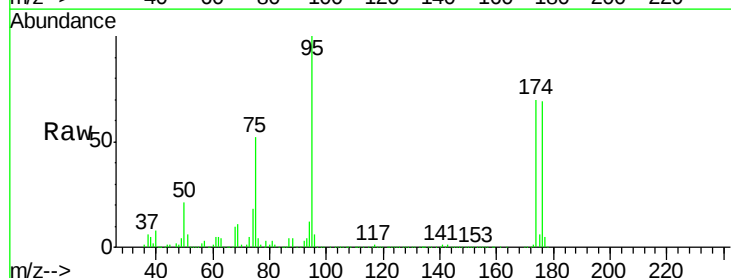
Tgt Ion: 75 Resp: 112201

Ion Ratio Lower Upper

75 100

53 0.0 76.1 114.1#

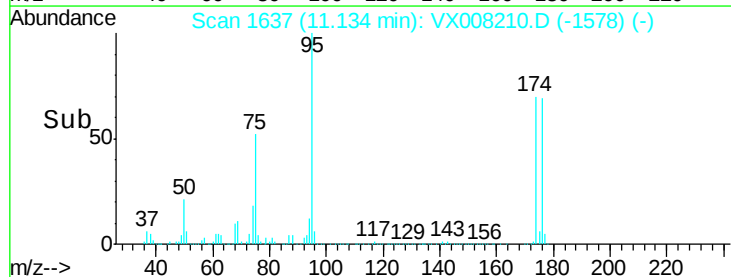
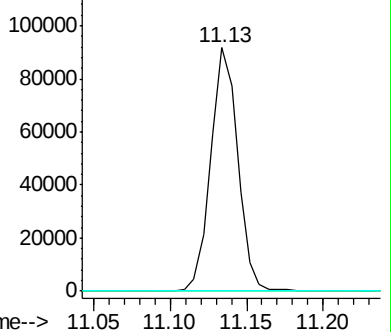
89 0.0 36.3 54.5#

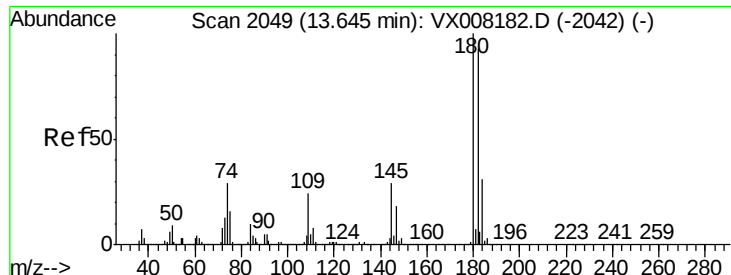


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

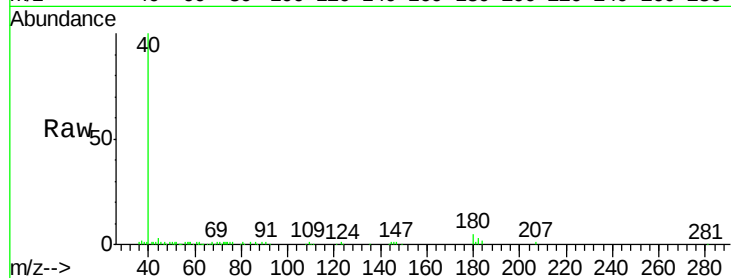




#93
 1,2,4-Trichlorobenzene
 Concen: 0.211 ug/l
 RT: 13.65 min Scan# 2050
 Delta R.T. 0.01 min
 Lab File: VX008210.D
 Acq: 20 Mar 2019 00:18

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-EB01-20190312

Tot Ion	Ratio	Lower	Upper
180	100		
182	76.1	47.9	143.7
145	32.6	14.1	42.4



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

