

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX041119\
 Data File : VX008865.D
 Acq On : 11 Apr 2019 20:23
 Operator : JC/SP
 Sample : K2349-15DL 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ST008MW151-190409DL

Quant Time: Apr 12 07:38:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 04 04:47:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	195582	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	316678	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	281250	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	121268	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	129529	45.41	ug/l	0.00
Spiked Amount			Recovery	=	90.82%	
35) Dibromofluoromethane	5.50	113	95176	47.01	ug/l	0.00
Spiked Amount			Recovery	=	94.02%	
50) Toluene-d8	8.71	98	399102	49.50	ug/l	0.00
Spiked Amount			Recovery	=	99.00%	
62) 4-Bromofluorobenzene	11.13	95	136556	47.77	ug/l	0.00
Spiked Amount			Recovery	=	95.54%	

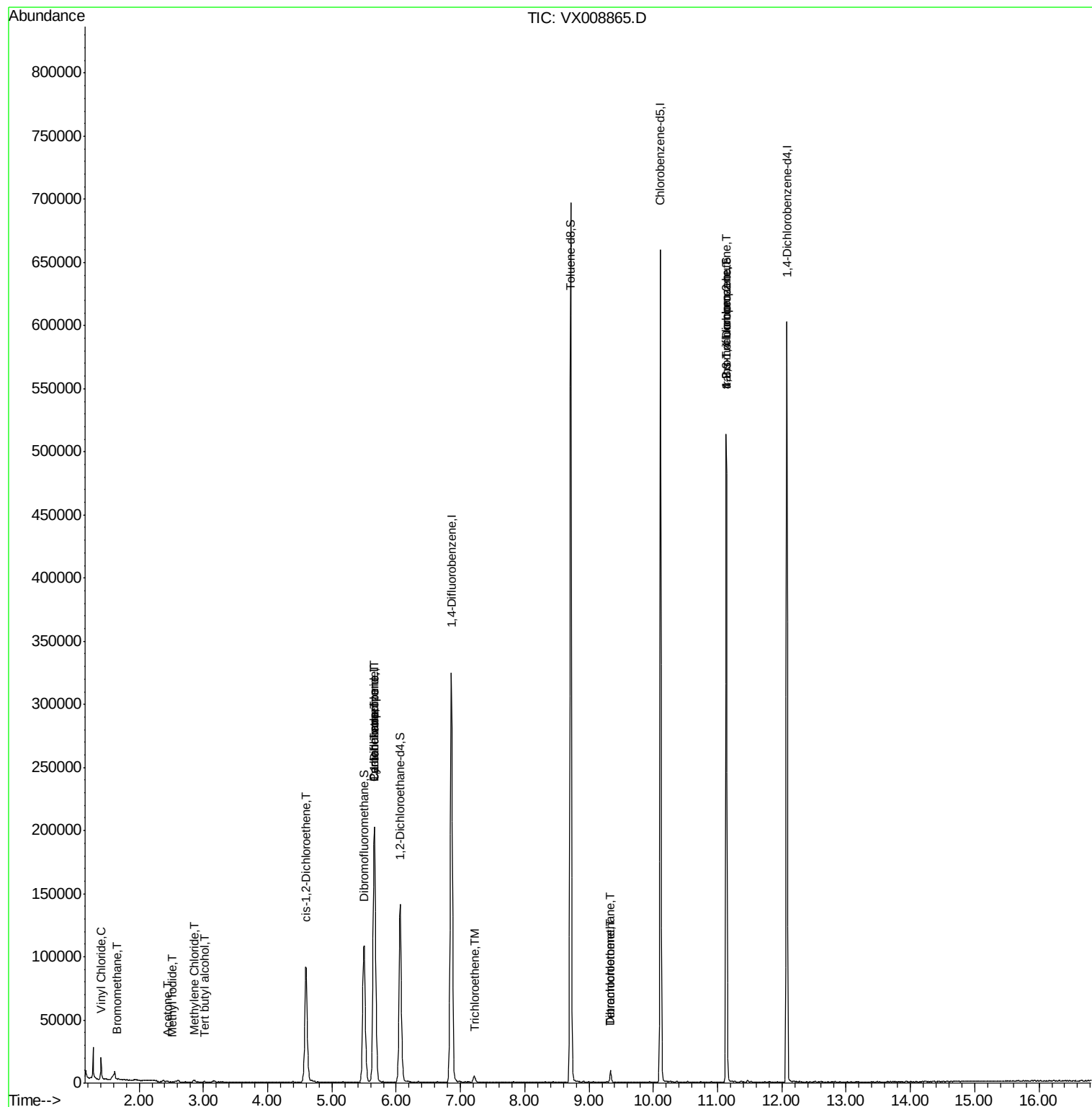
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	370	Below Cal		89
4) Vinyl Chloride	1.41	62	12159	3.995	ug/l	99
5) Bromomethane	1.65	94	315	2.087	ug/l #	34
6) Chloroethane	1.73	64	74	Below Cal	#	43
10) Methyl Iodide	2.51	142	97	4.048	ug/l #	42
11) Tert butyl alcohol	3.01	59	213	0.319	ug/l	97
16) Acetone	2.45	43	1090	0.663	ug/l #	85
17) Carbon Disulfide	2.57	76	606	Below Cal	#	75
20) Methylene Chloride	2.86	84	726	0.264	ug/l	89
27) cis-1,2-Dichloroethene	4.59	96	56861	20.221	ug/l	90
28) Bromochloromethane	5.04	49	47	Below Cal	#	22
31) Cyclohexane	5.66	56	4265	0.865	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	15940	4.605	ug/l #	51
38) Carbon Tetrachloride	5.66	117	18538	6.470	ug/l #	17
44) Trichloroethene	7.21	130	1839	0.766	ug/l	83
60) Dibromochloromethane	9.33	129	1665	0.724	ug/l #	11
64) Tetrachloroethene	9.33	164	1724	0.827	ug/l	91
76) 1,2,3-Trichloropropane	11.13	75	69347	20.817	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	69347	57.382	ug/l #	9

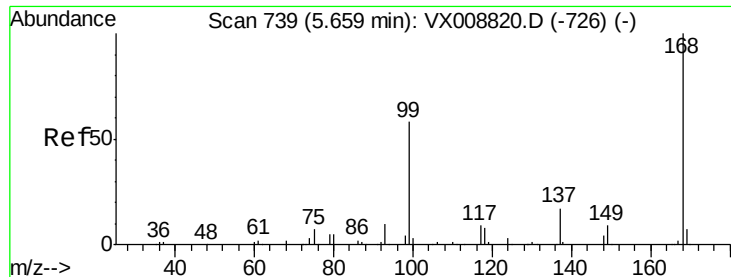
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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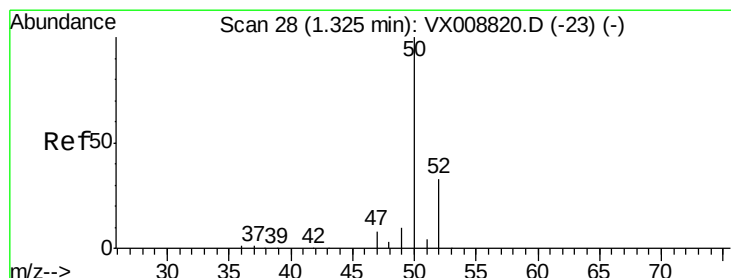
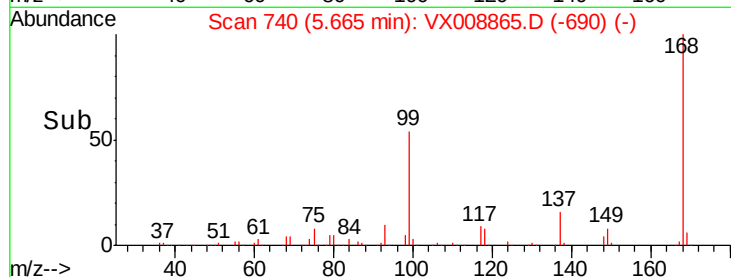
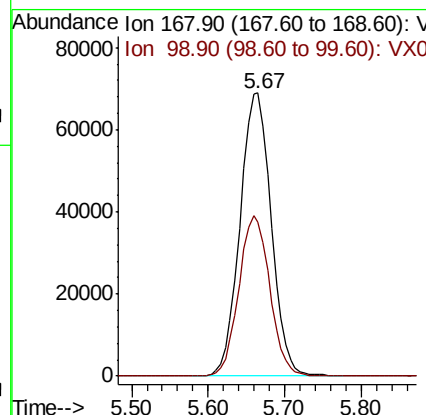
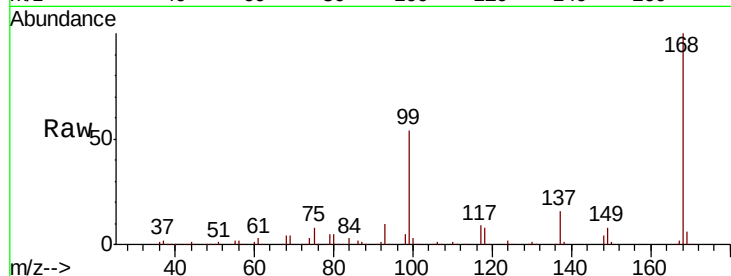




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.01 min
Lab File: VX008865.D
Acq: 11 Apr 2019 20:23

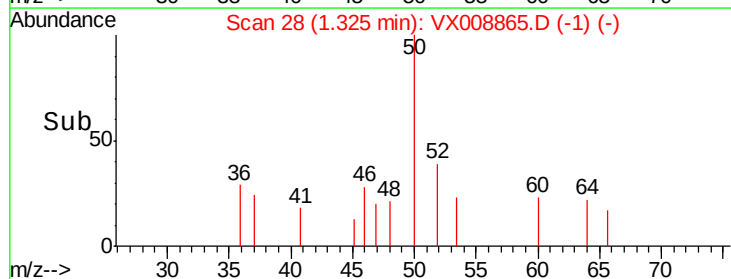
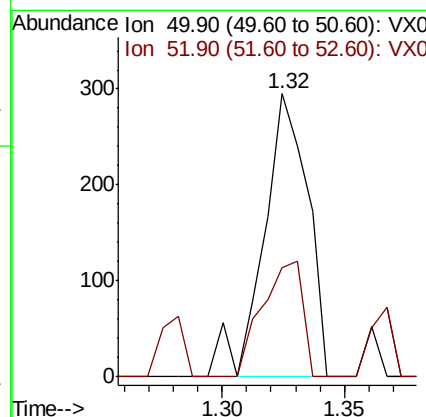
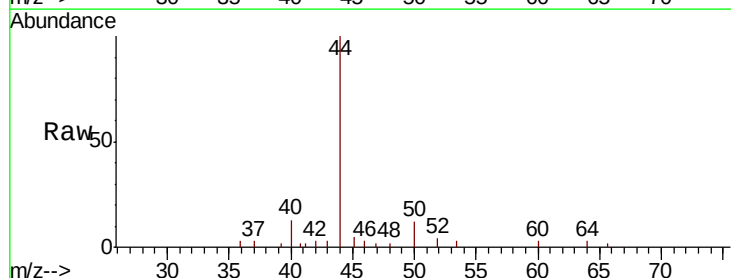
Instrument :
MSVOA_X
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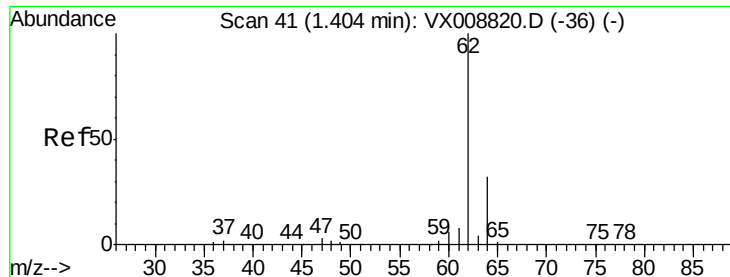
Tgt Ion:168 Resp: 195582
Ion Ratio Lower Upper
168 100
99 54.3 46.7 70.1



#3
Chloromethane
Concen: Below Cal
RT: 1.32 min Scan# 28
Delta R.T. 0.00 min
Lab File: VX008865.D
Acq: 11 Apr 2019 20:23

Tgt Ion: 50 Resp: 370
Ion Ratio Lower Upper
50 100
52 38.6 25.8 38.8





#4

Vinyl Chloride

Concen: 3.995 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX008865.D

Acq: 11 Apr 2019 20:23

Instrument :

MSVOA_X

ClientSampleId :

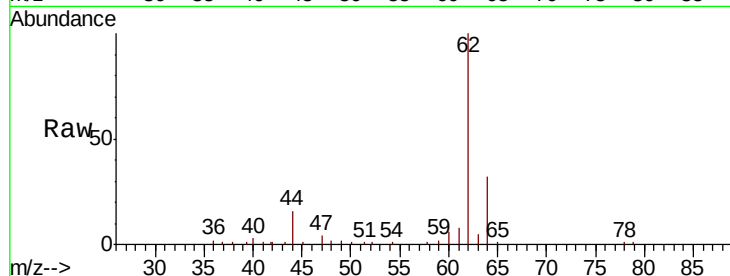
ST008MW151-190409DL

Tgt Ion: 62 Resp: 12159

Ion Ratio Lower Upper

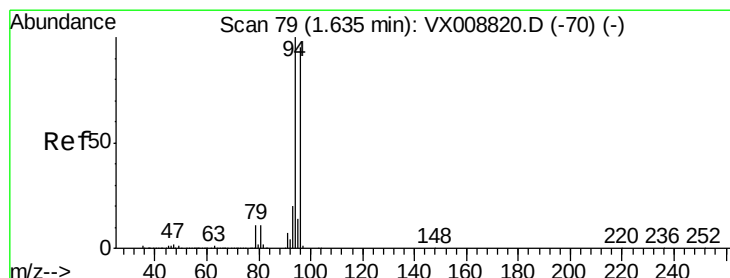
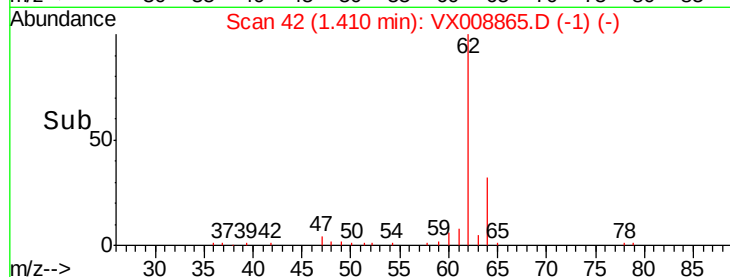
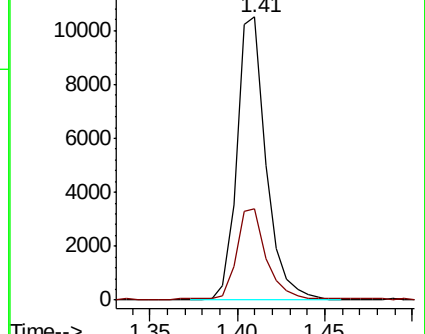
62 100

64 31.7 24.7 37.1



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 2.087 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX008865.D

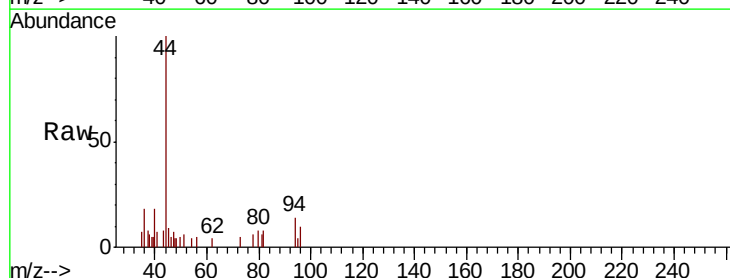
Acq: 11 Apr 2019 20:23

Tgt Ion: 94 Resp: 315

Ion Ratio Lower Upper

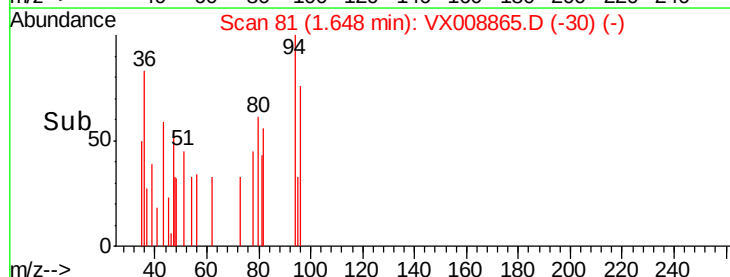
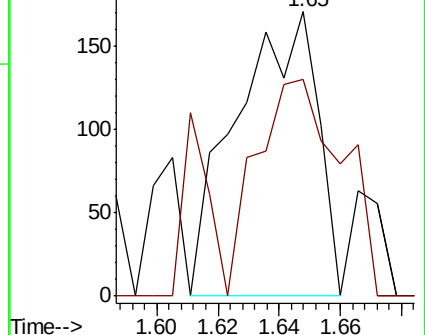
94 100

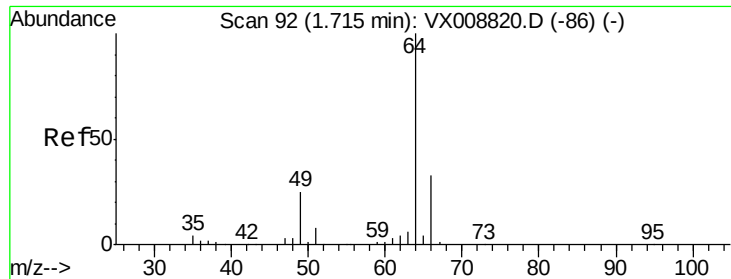
96 29.8 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX008865.D

Acq: 11 Apr 2019 20:23

Instrument :

MSVOA_X

ClientSampleId :

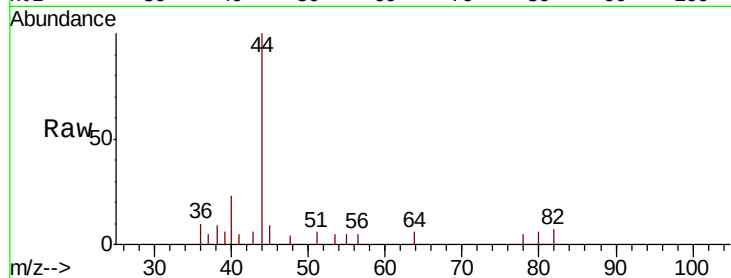
ST008MW151-190409DL

Tgt Ion: 64 Resp: 74

Ion Ratio Lower Upper

64 100

66 0.0 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.73

80

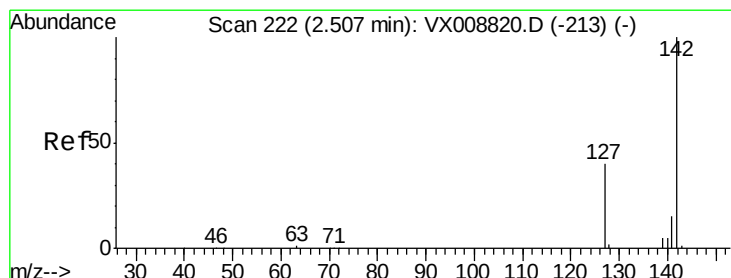
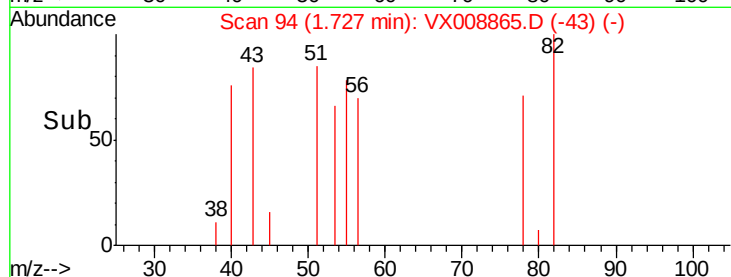
60

40

20

0

Time--> 1.70 1.72 1.74



#10

Methyl Iodide

Concen: 4.048 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX008865.D

Acq: 11 Apr 2019 20:23

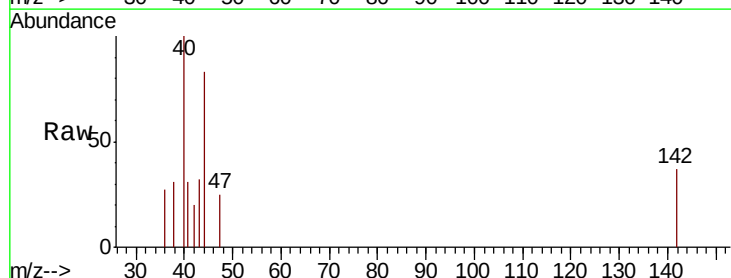
Tgt Ion: 142 Resp: 97

Ion Ratio Lower Upper

142 100

127 0.0 33.0 49.6#

141 0.0 11.4 17.2#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

120

100

80

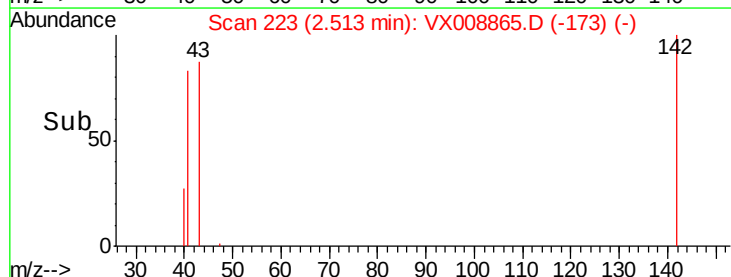
60

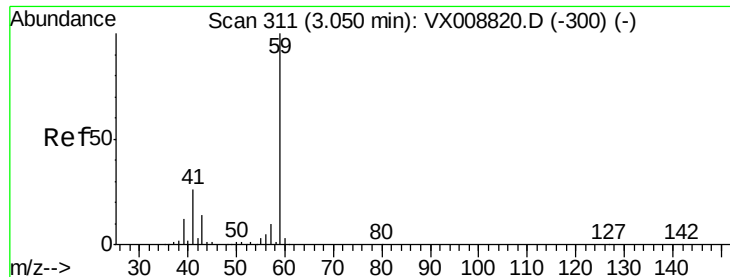
40

20

0

Time--> 2.50 2.52 2.54

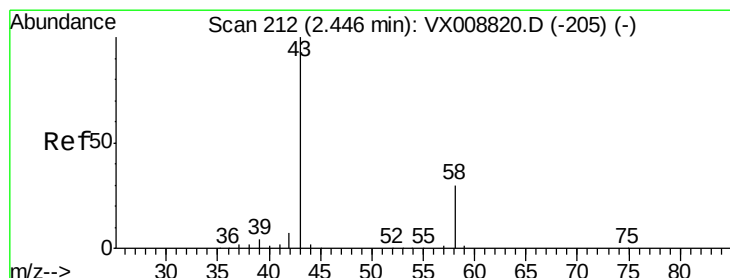
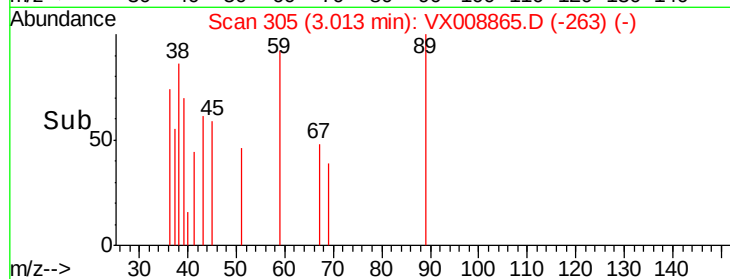
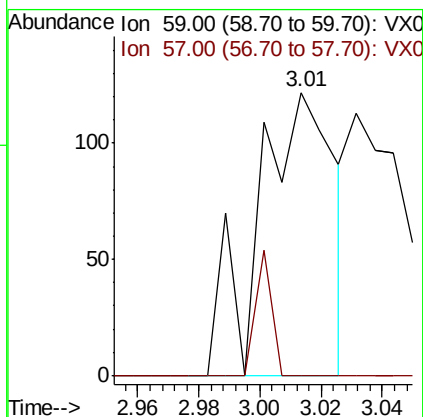
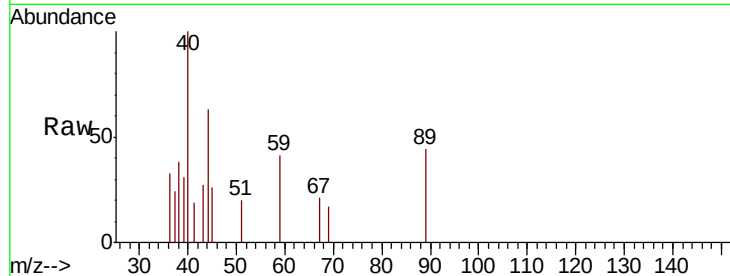




#11
Tert butyl alcohol
Concen: 0.319 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX008865.D
Acq: 11 Apr 2019 20:23

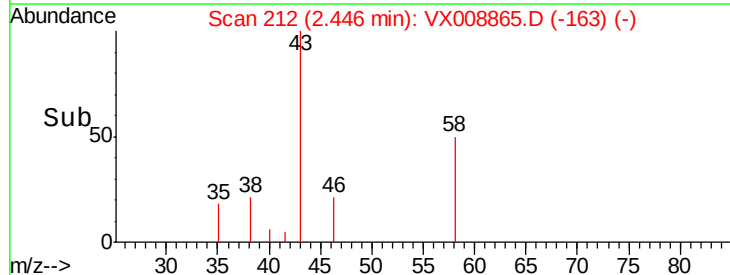
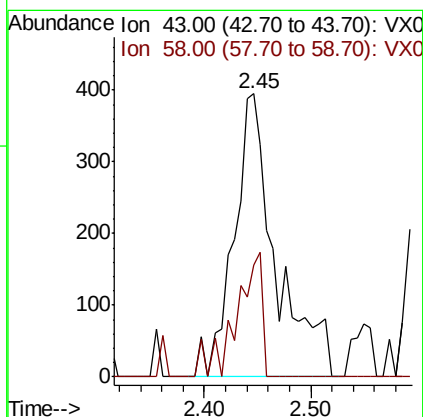
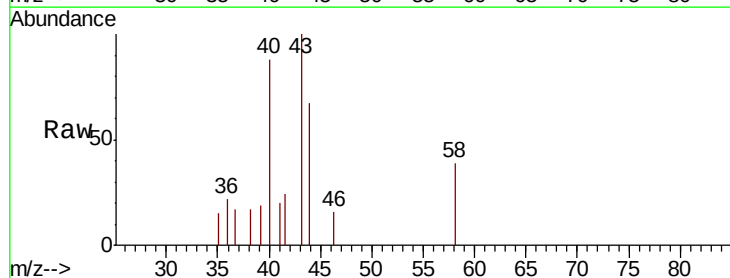
Instrument :
MSVOA_X
ClientSampleId :
ST008MW151-190409DL

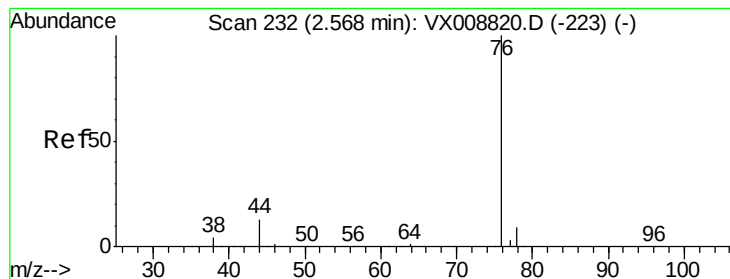
Tgt Ion: 59 Resp: 213
Ion Ratio Lower Upper
59 100
57 9.4 8.3 12.5



#16
Acetone
Concen: 0.663 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX008865.D
Acq: 11 Apr 2019 20:23

Tgt Ion: 43 Resp: 1090
Ion Ratio Lower Upper
43 100
58 39.5 24.8 37.2#





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX008865.D

Acq: 11 Apr 2019 20:23

Instrument :

MSVOA_X

ClientSampleId :

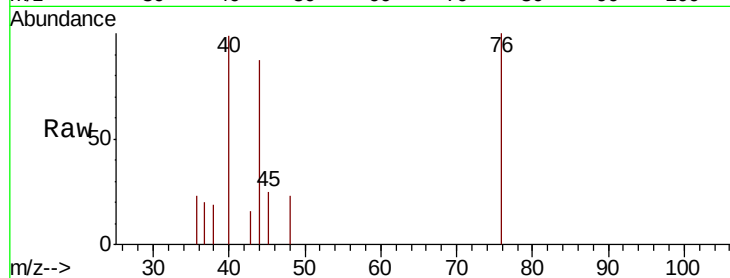
ST008MW151-190409DL

Tgt Ion: 76 Resp: 606

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

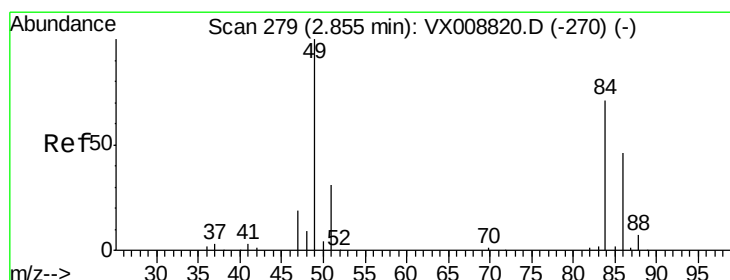
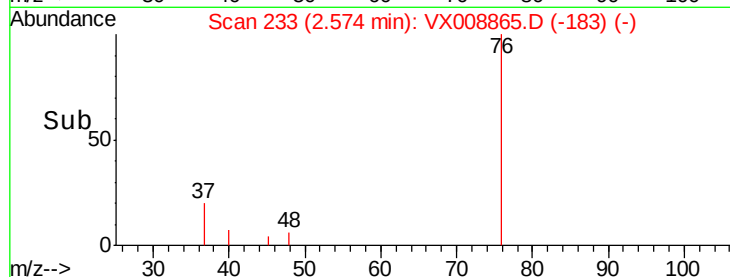
300

200

100

0

Time-->



#20

Methylene Chloride

Concen: 0.264 ug/l

RT: 2.86 min Scan# 280

Delta R.T. -0.00 min

Lab File: VX008865.D

Acq: 11 Apr 2019 20:23

Tgt Ion: 84 Resp: 726

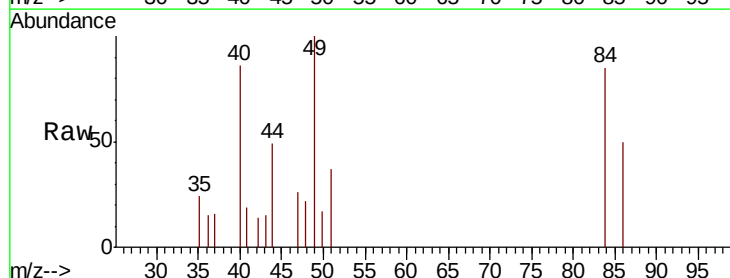
Ion Ratio Lower Upper

84 100

49 118.3 109.7 164.5

51 43.7 33.6 50.4

86 59.3 51.4 77.2



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

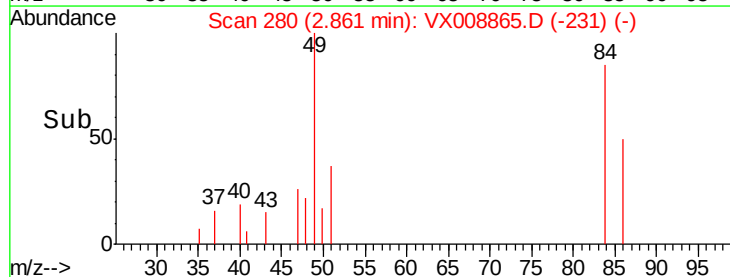
600

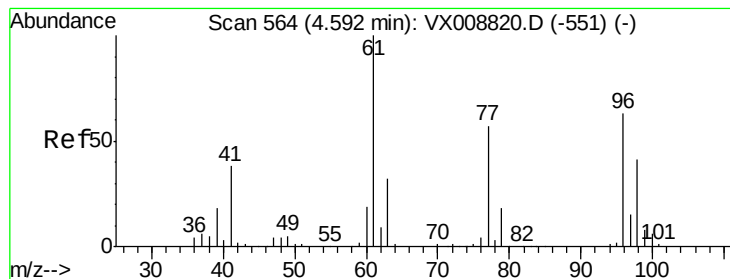
400

200

0

Time-->



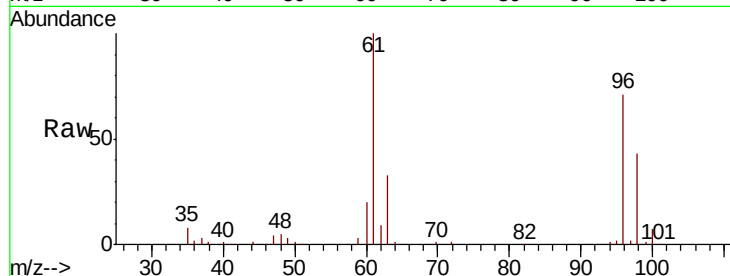


#27

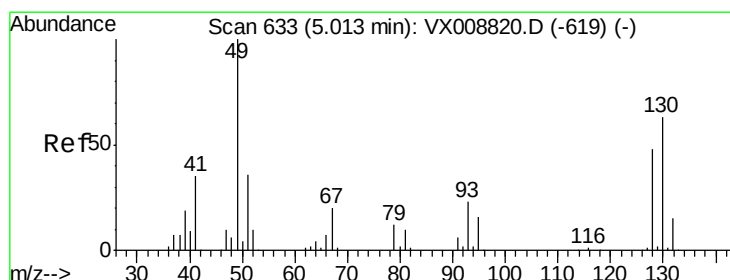
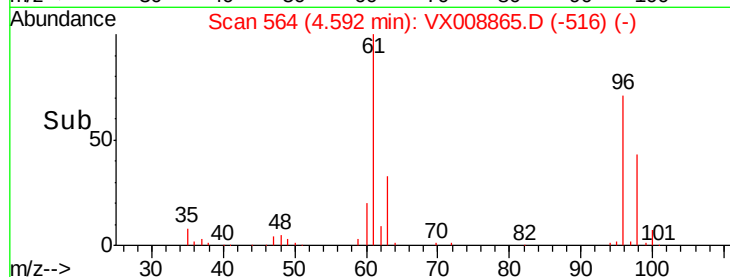
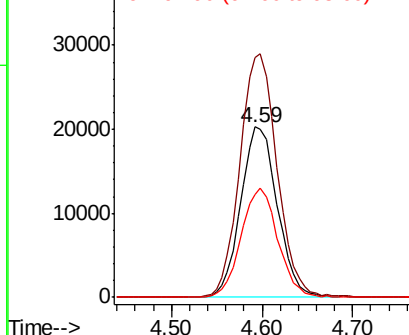
cis-1,2-Dichloroethene
 Concen: 20.221 ug/l
 RT: 4.59 min Scan# 564
 Delta R.T. -0.01 min
 Lab File: VX008865.D
 Acq: 11 Apr 2019 20:23

Instrument :
 MSVOA_X
 ClientSampleId :
 ST008MW151-190409DL

Tgt Ion: 96 Resp: 56861
 Ion Ratio Lower Upper
 96 100
 61 145.3 0.0 327.6
 98 64.2 0.0 128.6



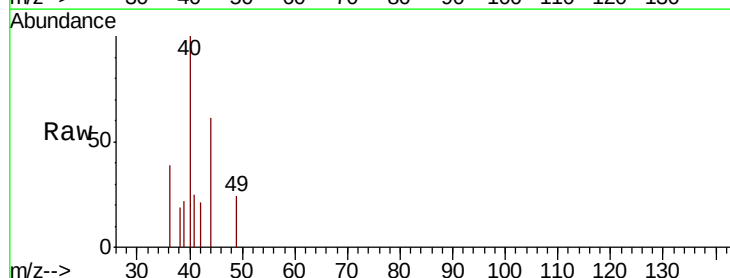
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



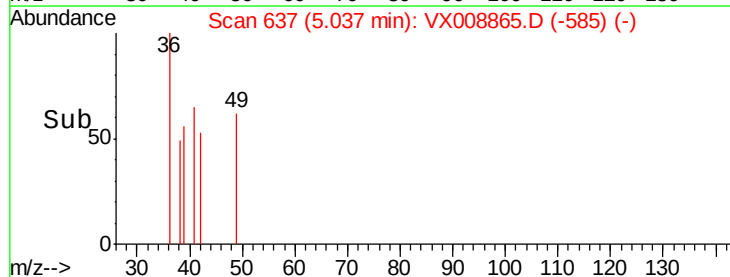
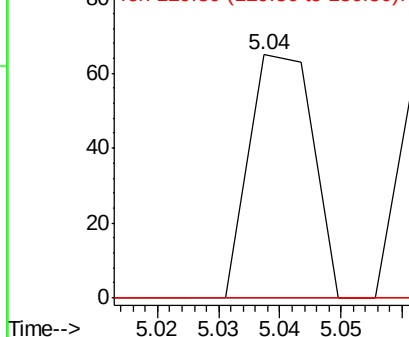
#28

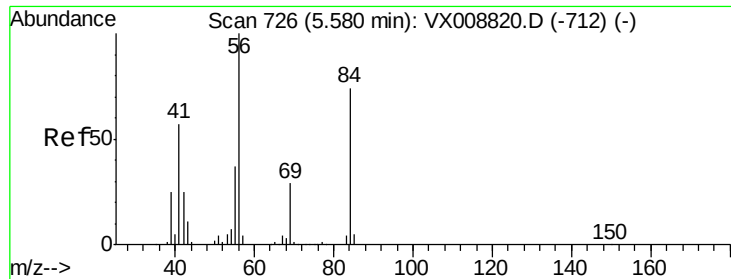
Bromochloromethane
 Concen: Below Cal
 RT: 5.04 min Scan# 637
 Delta R.T. 0.02 min
 Lab File: VX008865.D
 Acq: 11 Apr 2019 20:23

Tgt Ion: 49 Resp: 47
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 3.6
 130 0.0 49.3 73.9#



Abundance Ion 48.90 (48.60 to 49.60): VX0
 Ion 128.80 (128.50 to 129.50): V
 Ion 129.80 (129.50 to 130.50): V

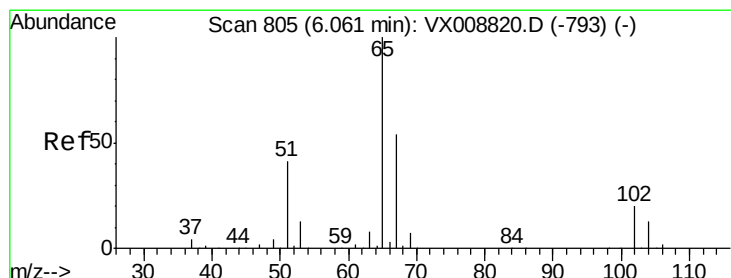
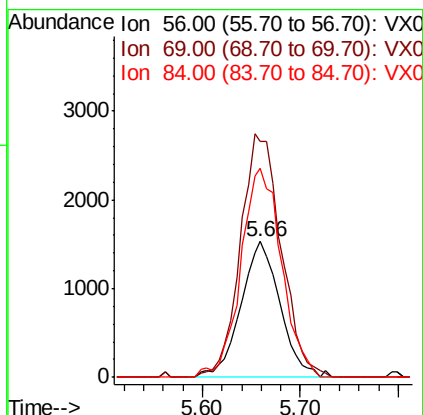
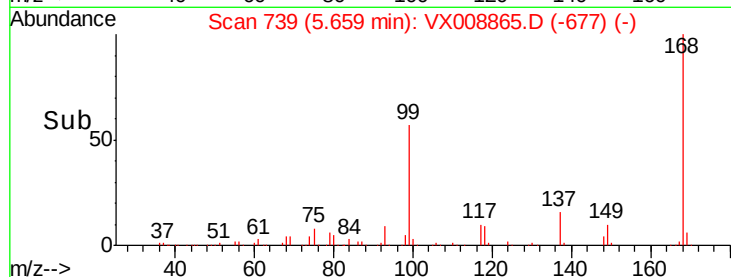
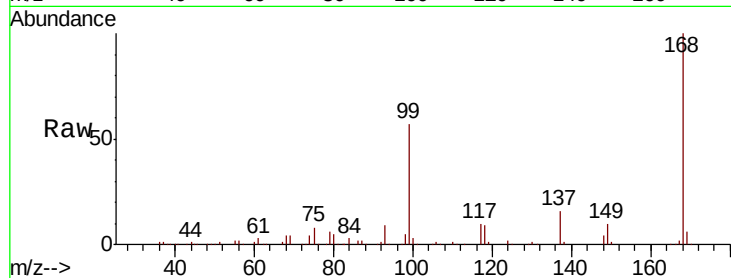




#31
Cyclohexane
Concen: 0.865 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX008865.D
Acq: 11 Apr 2019 20:23

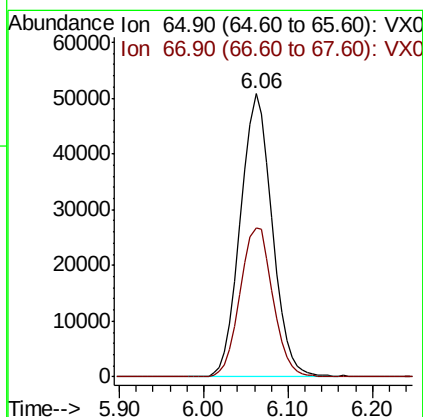
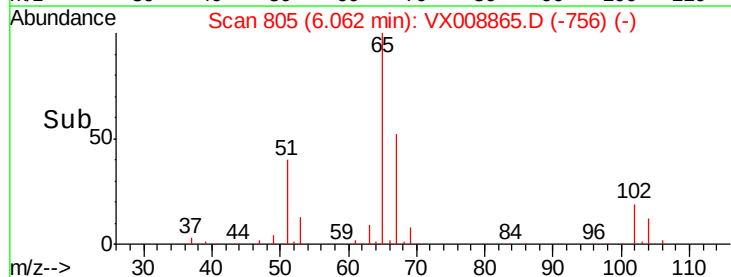
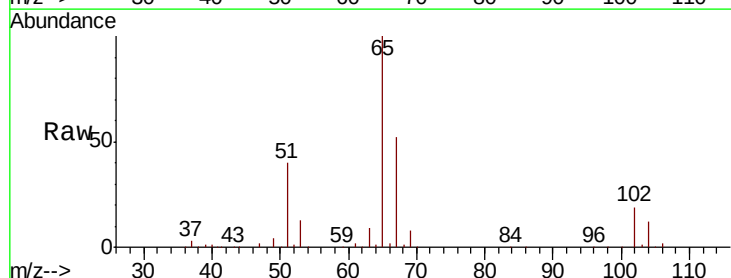
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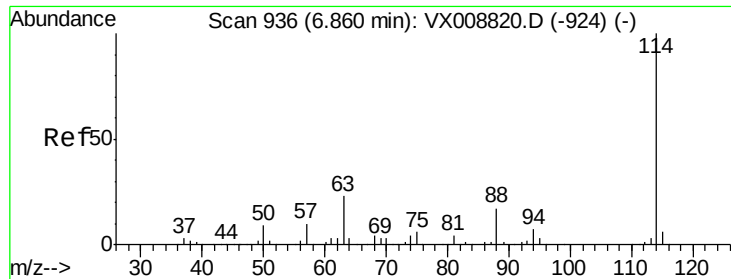
Tgt Ion: 56 Resp: 4265
Ion Ratio Lower Upper
56 100
69 173.8 22.6 33.8#
84 153.8 59.3 88.9#



#33
1,2-Dichloroethane-d4
Concen: 45.406 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX008865.D
Acq: 11 Apr 2019 20:23

Tgt Ion: 65 Resp: 129529
Ion Ratio Lower Upper
65 100
67 54.5 0.0 107.2

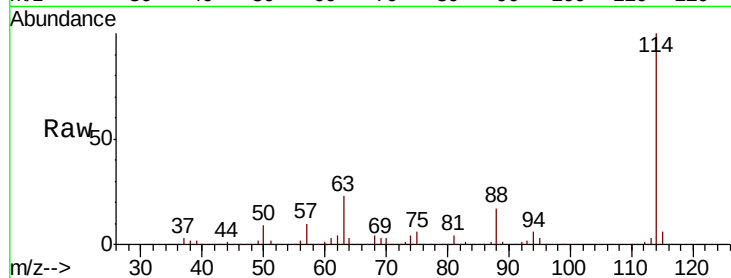




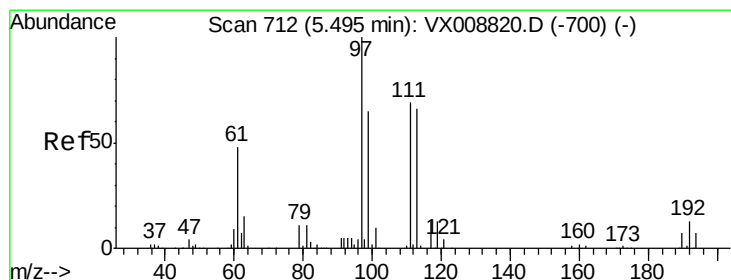
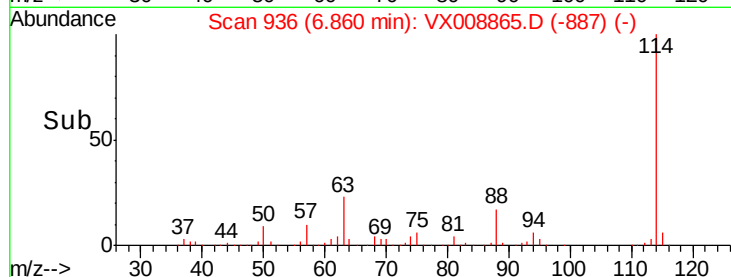
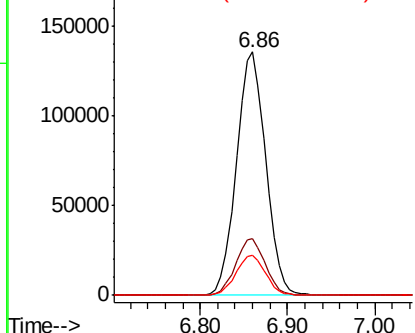
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008865.D
 Acq: 11 Apr 2019 20:23

Instrument :
 MSVOA_X
 ClientSampleId :
 ST008MW151-190409DL

Tgt Ion:114 Resp: 316678
 Ion Ratio Lower Upper
 114 100
 63 23.1 0.0 47.2
 88 16.7 0.0 34.0

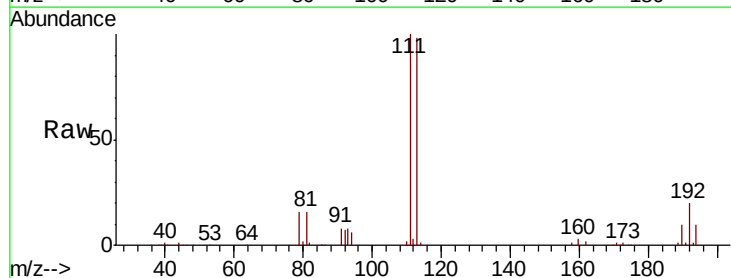


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

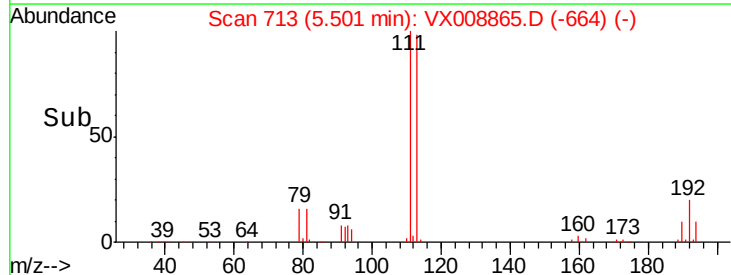
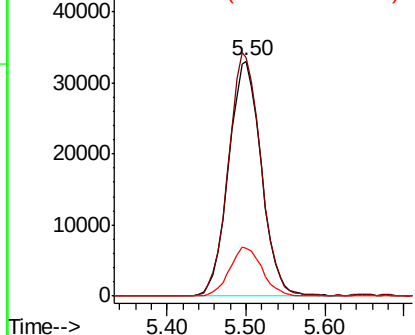


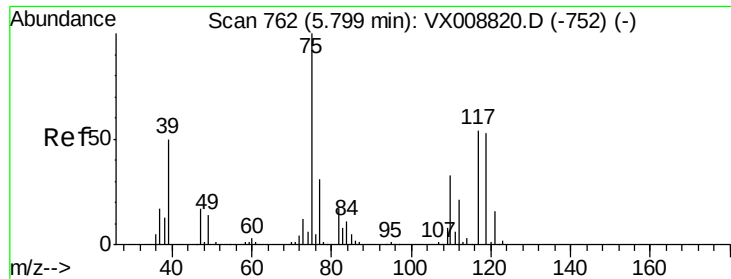
#35
 Dibromofluoromethane
 Concen: 47.007 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX008865.D
 Acq: 11 Apr 2019 20:23

Tgt Ion:113 Resp: 95176
 Ion Ratio Lower Upper
 113 100
 111 102.6 83.4 125.2
 192 20.7 16.1 24.1



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

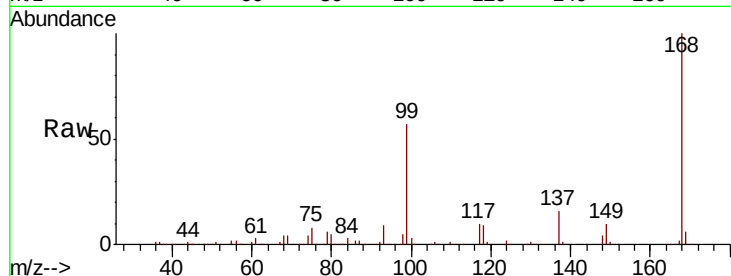




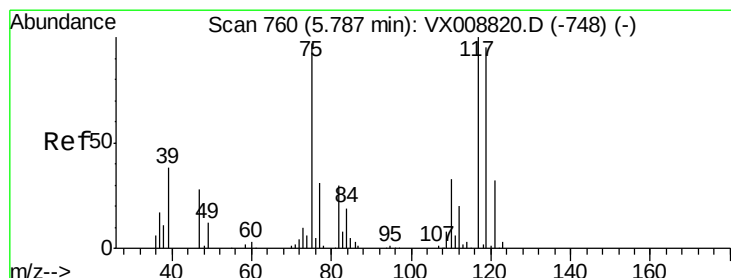
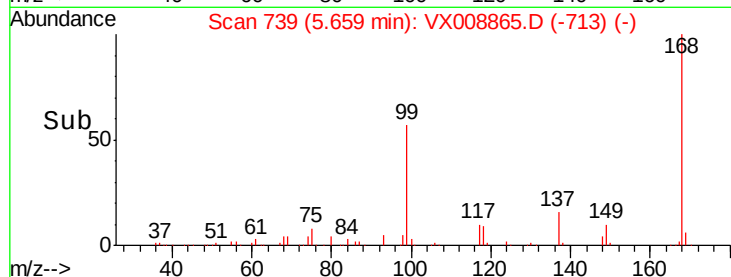
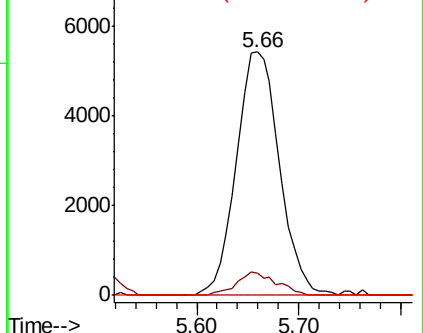
#36
 1,1-Dichloropropene
 Concen: 4.605 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX008865.D
 Acq: 11 Apr 2019 20:23

Instrument :
 MSVOA_X
 ClientSampleId :
 ST008MW151-190409DL

Tgt Ion: 75 Resp: 15940
 Ion Ratio Lower Upper
 75 100
 110 8.8 16.4 49.2#
 77 0.0 24.7 37.1#

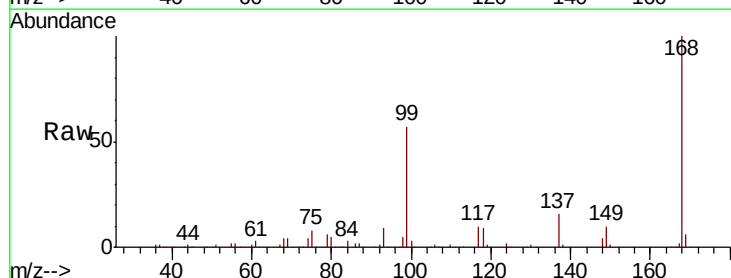


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

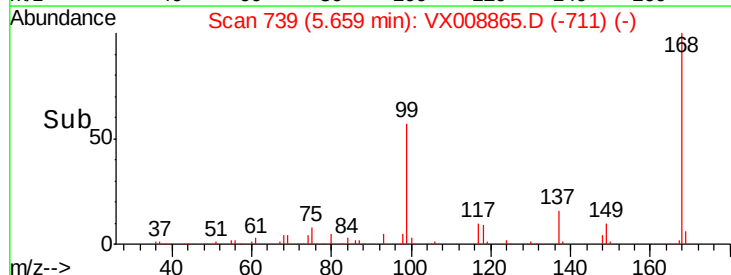
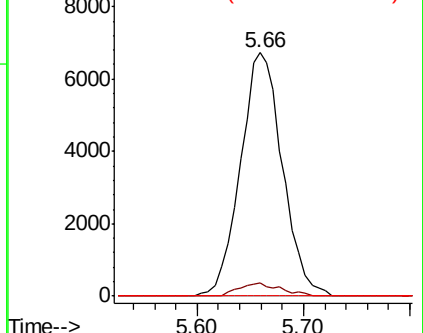


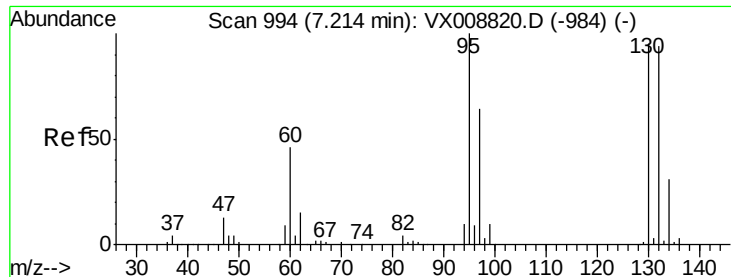
#38
 Carbon Tetrachloride
 Concen: 6.470 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX008865.D
 Acq: 11 Apr 2019 20:23

Tgt Ion: 117 Resp: 18538
 Ion Ratio Lower Upper
 117 100
 119 5.2 75.0 112.6#
 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

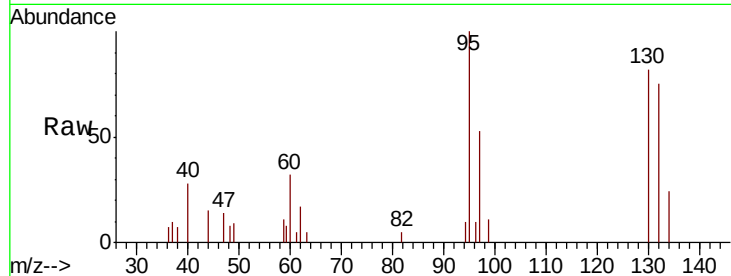




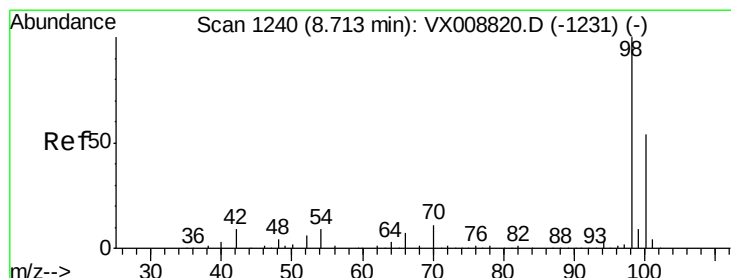
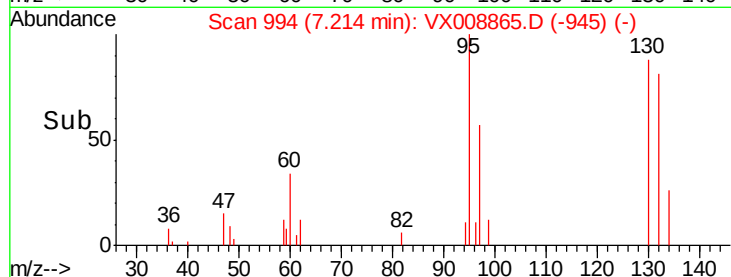
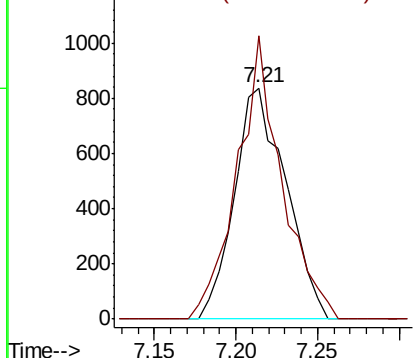
#44
 Trichloroethene
 Concen: 0.766 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. -0.00 min
 Lab File: VX008865.D
 Acq: 11 Apr 2019 20:23

Instrument :
 MSVOA_X
 ClientSampleId :
 ST008MW151-190409DL

Tgt Ion:130 Resp: 1839
 Ion Ratio Lower Upper
 130 100
 95 122.5 0.0 209.8

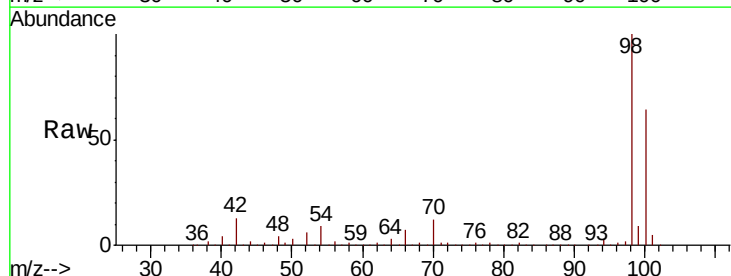


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

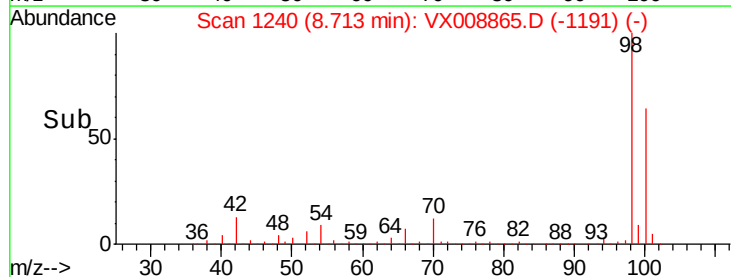
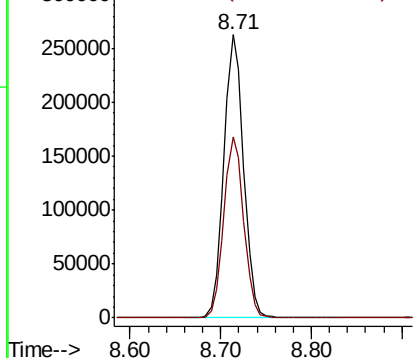


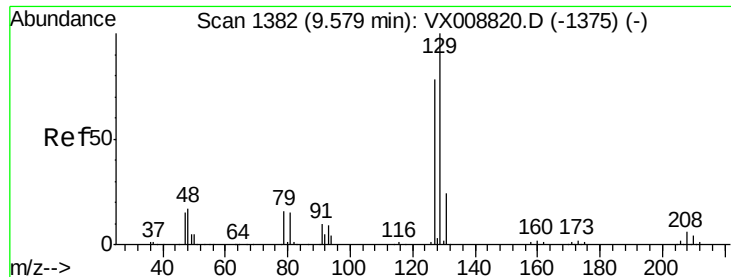
#50
 Toluene-d8
 Concen: 49.505 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. -0.00 min
 Lab File: VX008865.D
 Acq: 11 Apr 2019 20:23

Tgt Ion: 98 Resp: 399102
 Ion Ratio Lower Upper
 98 100
 100 64.3 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0
 Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 0.724 ug/l

RT: 9.33 min Scan# 1341

Delta R.T. -0.25 min

Lab File: VX008865.D

Acq: 11 Apr 2019 20:23

Instrument :

MSVOA_X

ClientSampleId :

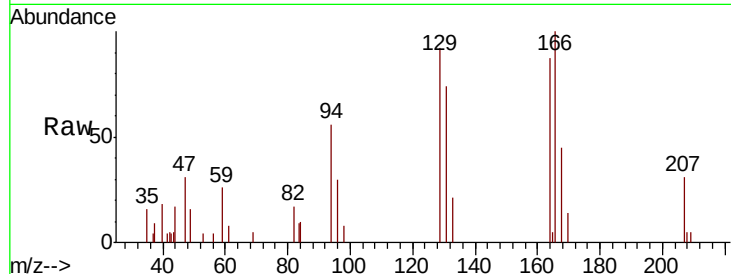
ST008MW151-190409DL

Tgt Ion:129 Resp: 1665

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.33

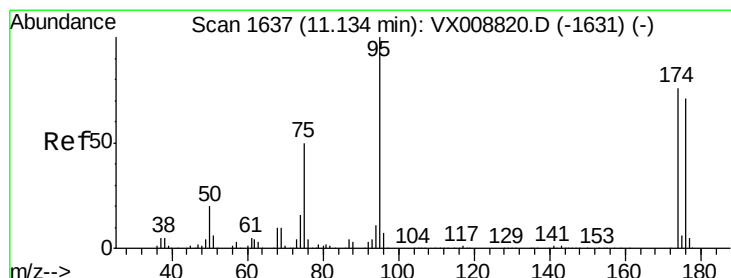
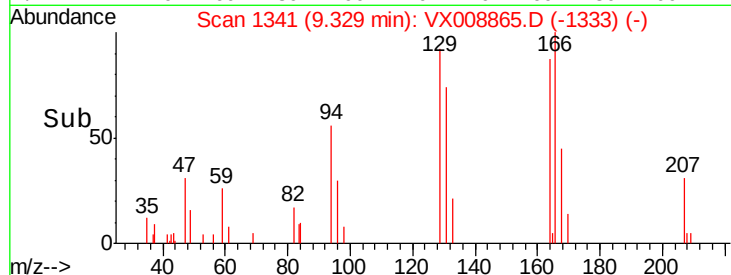
1000

500

0

Time-->

9.30 9.35



#62

4-Bromofluorobenzene

Concen: 47.766 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008865.D

Acq: 11 Apr 2019 20:23

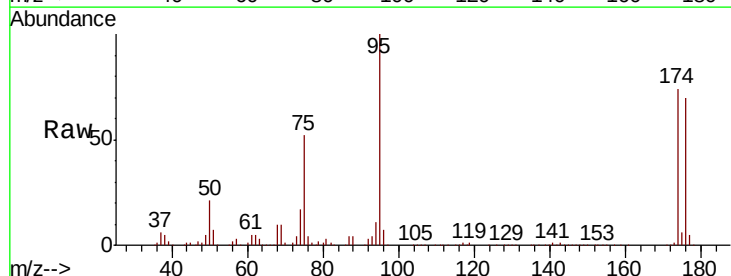
Tgt Ion: 95 Resp: 136556

Ion Ratio Lower Upper

95 100

174 78.9 0.0 151.8

176 75.8 0.0 145.8



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

150000

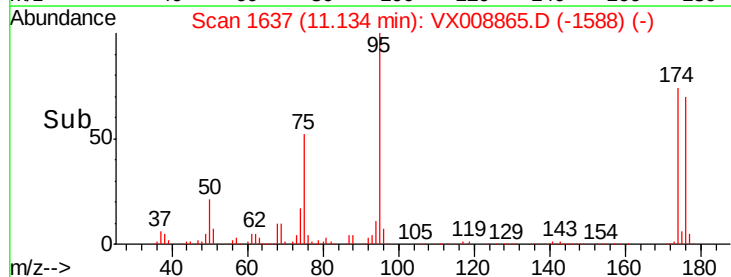
100000

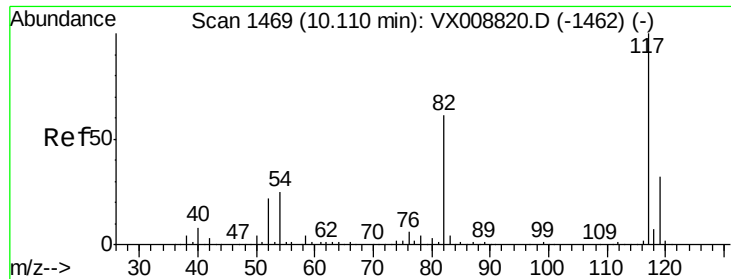
50000

0

Time-->

11.10 11.20

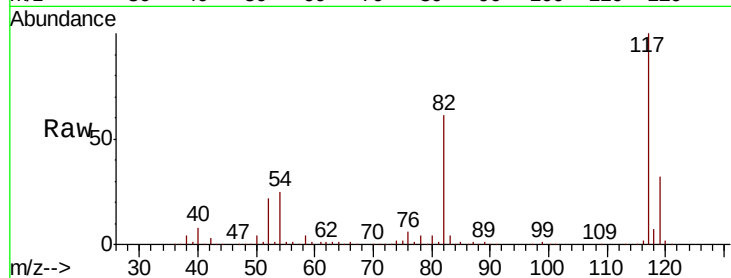




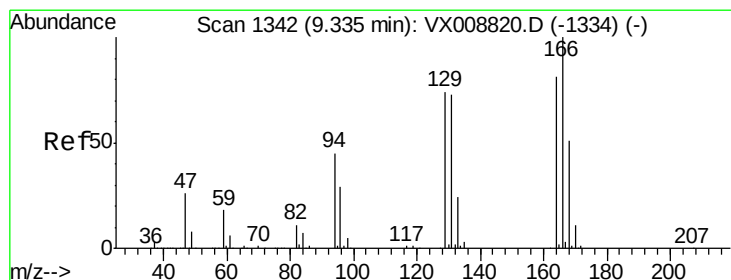
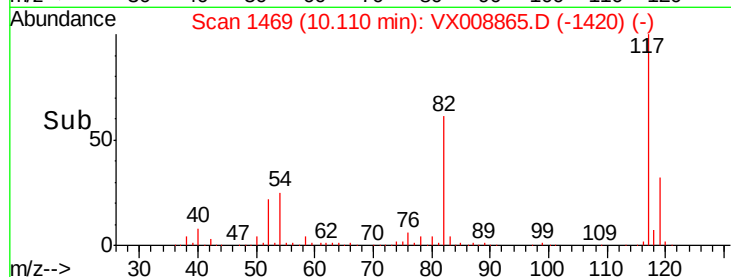
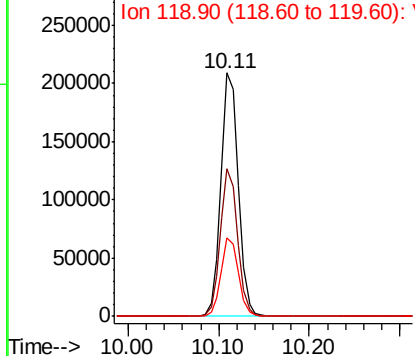
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008865.D
Acq: 11 Apr 2019 20:23

Instrument :
MSVOA_X
ClientSampleId :
ST008MW151-190409DL

Tgt Ion:117 Resp: 281250
Ion Ratio Lower Upper
117 100
82 60.8 49.6 74.4
119 32.2 25.0 37.4

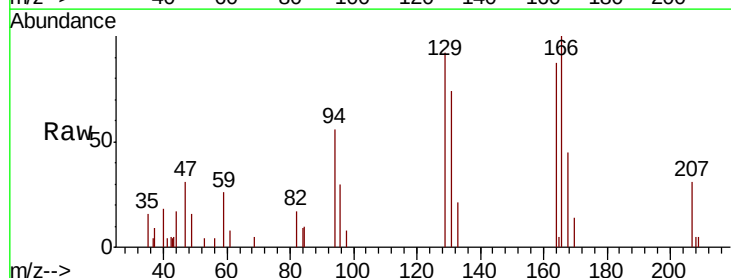


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

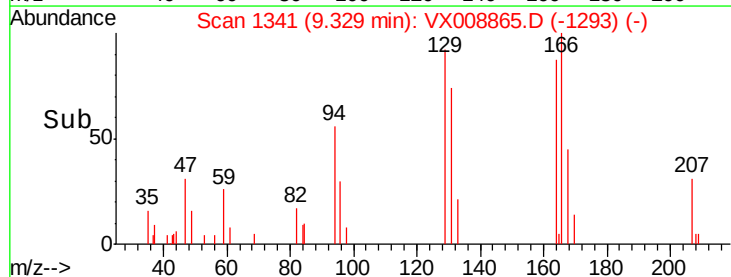
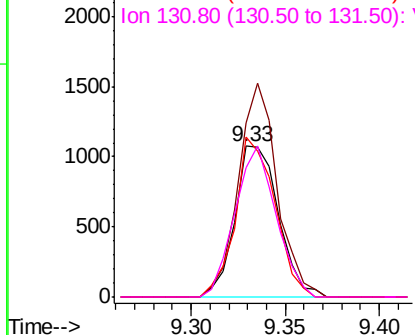


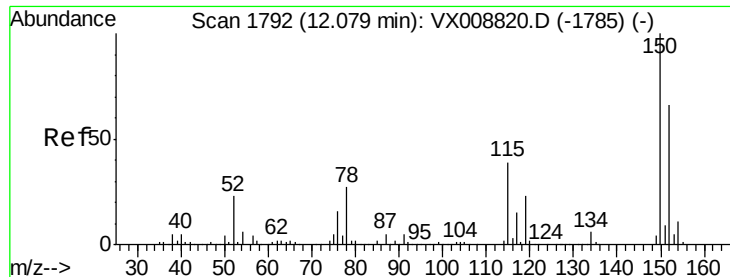
#64
Tetrachloroethene
Concen: 0.827 ug/l
RT: 9.33 min Scan# 1341
Delta R.T. -0.01 min
Lab File: VX008865.D
Acq: 11 Apr 2019 20:23

Tgt Ion:164 Resp: 1724
Ion Ratio Lower Upper
164 100
166 115.5 101.0 151.6
129 106.1 75.8 113.8
131 85.6 71.8 107.8



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): 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: VX008865.D

Acq: 11 Apr 2019 20:23

Instrument :

MSVOA_X

ClientSampleId :

ST008MW151-190409DL

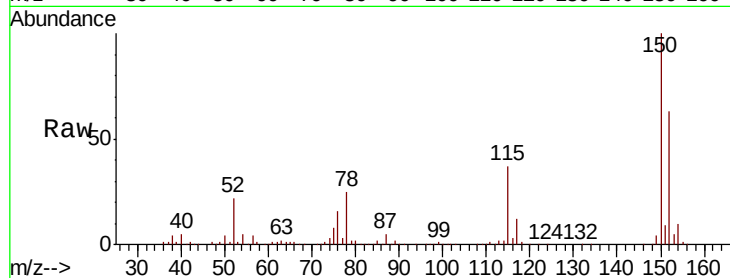
Tgt Ion:152 Resp: 121268

Ion Ratio Lower Upper

152 100

115 60.1 43.5 130.5

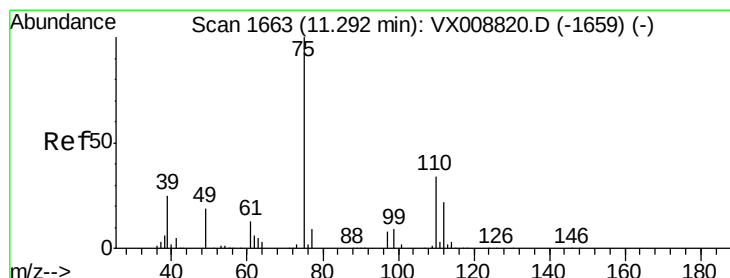
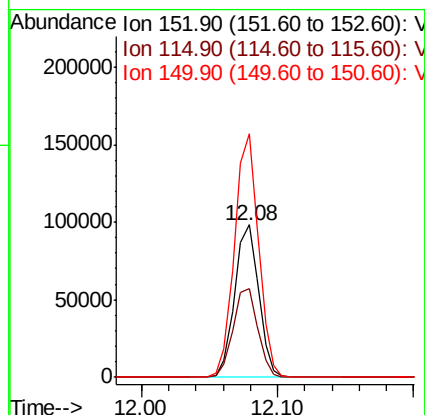
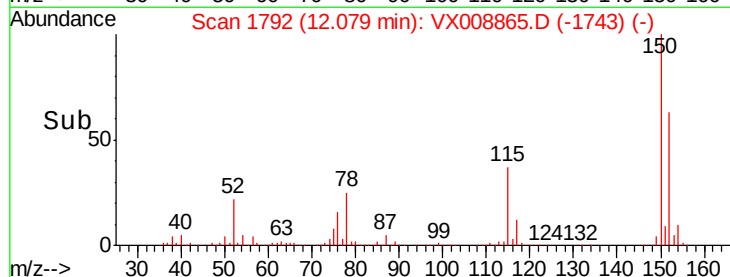
150 159.0 0.0 348.8



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: 20.817 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008865.D

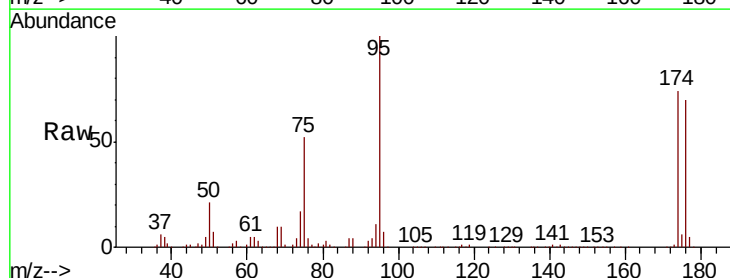
Acq: 11 Apr 2019 20:23

Tgt Ion: 75 Resp: 69347

Ion Ratio Lower Upper

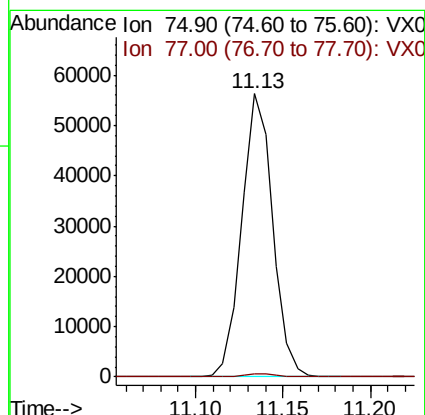
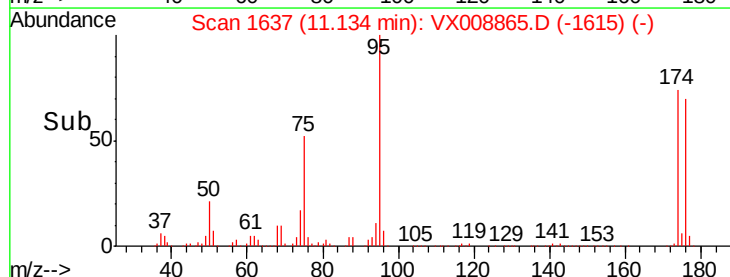
75 100

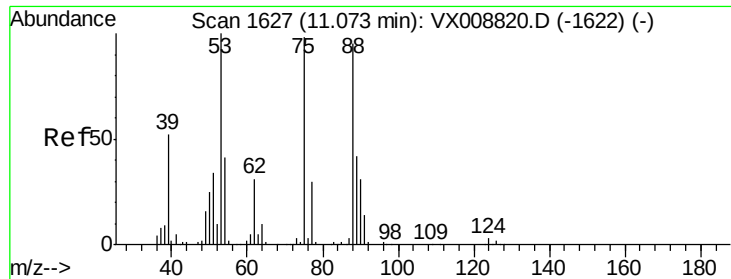
77 1.2 22.3 66.8#



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: 57.382 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008865.D

Acq: 11 Apr 2019 20:23

Instrument :

MSVOA_X

ClientSampleId :

ST008MW151-190409DL

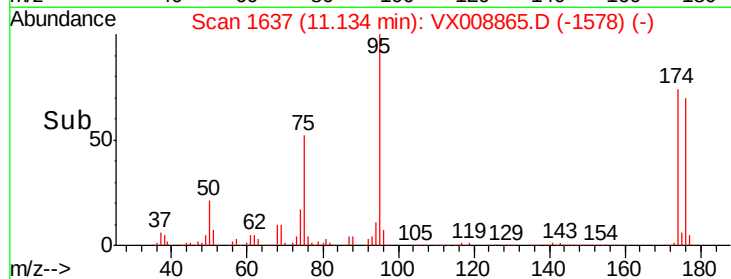
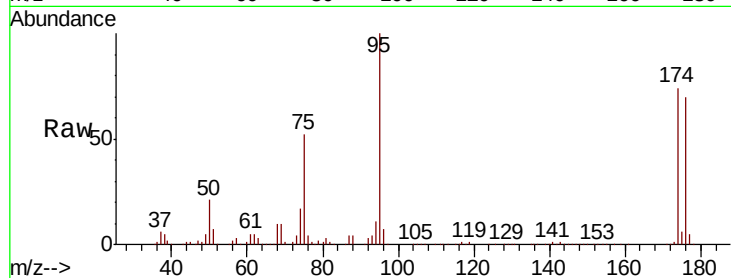
Tgt Ion: 75 Resp: 69347

Ion Ratio Lower Upper

75 100

53 0.0 81.3 121.9#

89 0.0 35.6 53.4#



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

