

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082918\
 Data File : VX004312.D
 Acq On : 30 Aug 2018 00:44
 Operator : JC/MD
 Sample : J4681-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CPA-CPMW05S-M12W4-082318

Quant Time: Aug 30 02:14:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 05:39:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	263612	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	415767	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	388873	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	208762	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	188820	54.96	ug/l	0.00
Spiked Amount			Recovery	=	109.92%	
35) Dibromofluoromethane	5.50	113	166163	53.72	ug/l	0.00
Spiked Amount			Recovery	=	107.44%	
50) Toluene-d8	8.72	98	600669	51.45	ug/l	0.00
Spiked Amount			Recovery	=	102.90%	
62) 4-Bromofluorobenzene	11.14	95	209569	48.11	ug/l	0.00
Spiked Amount			Recovery	=	96.22%	

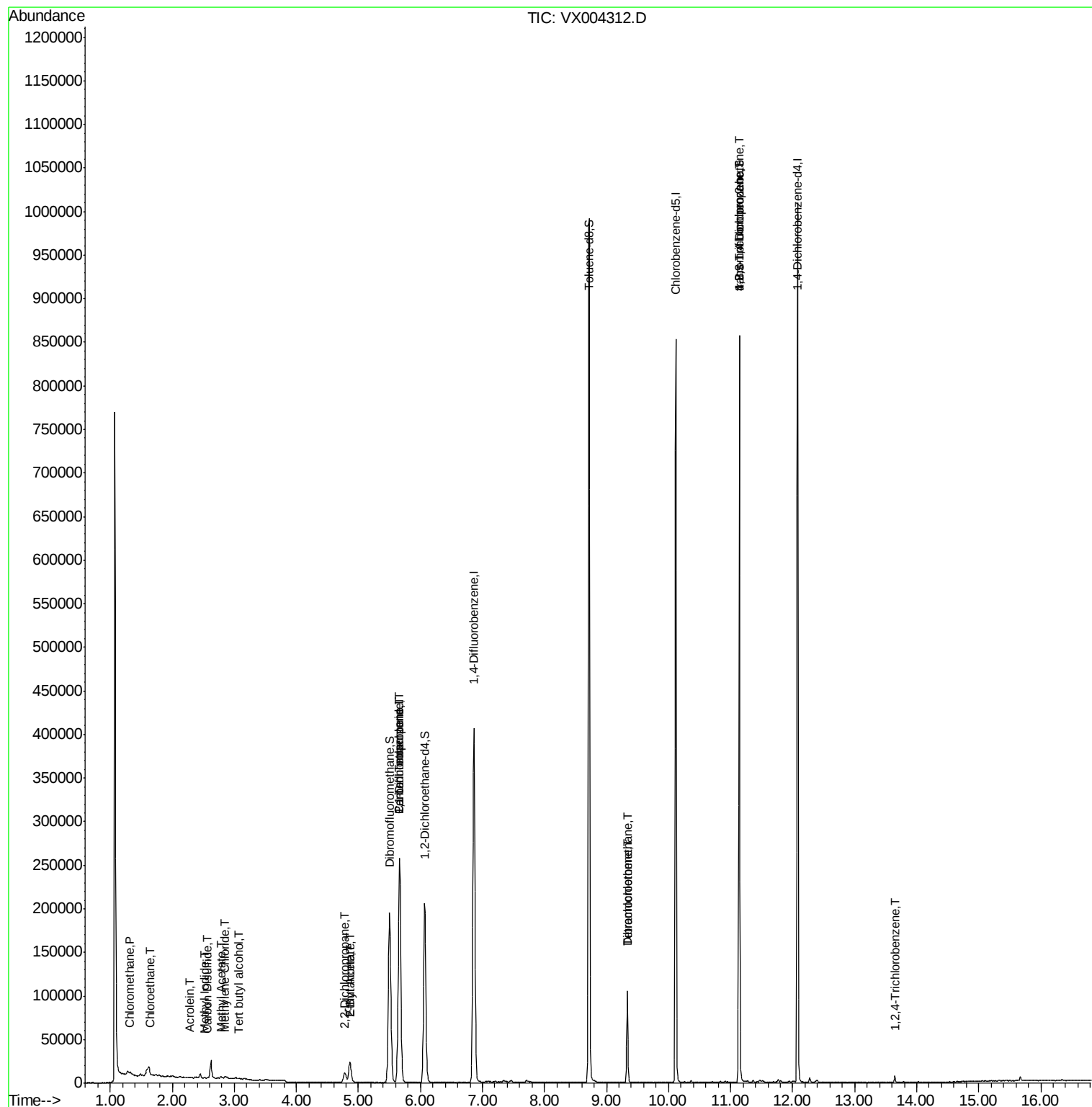
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1036	0.60	ug/l	# 87
5) Bromomethane	1.64	94	951	Below	Cal	93
6) Chloroethane	1.64	64	609	1.19	ug/l	# 44
10) Methyl Iodide	2.51	142	583	4.42	ug/l	# 92
11) Tert butyl alcohol	3.07	59	1193	1.63	ug/l	# 94
13) Acrolein	2.29	56	91	0.52	ug/l	94
16) Acetone	2.45	43	4973	Below	Cal	95
17) Carbon Disulfide	2.56	76	779	0.90	ug/l	# 74
18) Methyl Acetate	2.78	43	1939	0.38	ug/l	93
20) Methylene Chloride	2.86	84	830	0.25	ug/l	# 89
25) 2-Butanone	4.86	43	41117	15.19	ug/l	# 47
26) 2,2-Dichloropropane	4.78	77	987	0.23	ug/l	# 52
36) 1,1-Dichloropropene	5.66	75	17266	3.69	ug/l	# 49
37) Ethyl Acetate	4.86	43	41117	8.94	ug/l	99
38) Carbon Tetrachloride	5.67	117	23012	5.23	ug/l	# 16
60) Dibromochloromethane	9.34	129	18794	5.47	ug/l	# 11
64) Tetrachloroethene	9.34	164	21219	5.52	ug/l	96
76) 1,2,3-Trichloropropane	11.14	75	100140	23.59	ug/l	# 37
81) trans-1,4-Dichloro-2-buten	11.14	75	100140	76.52	ug/l	# 10
93) 1,2,4-Trichlorobenzene	13.65	180	2087	0.43	ug/l	92
94) Hexachlorobutadiene	13.79	225	175	Below	Cal	84

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

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Quant Title : SW846 8260
QLast Update : Thu Aug 23 05:39:44 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.00 min

Lab File: VX004312.D

Acq: 30 Aug 2018 00:44

Instrument :

MSVOA_X

ClientSampleId :

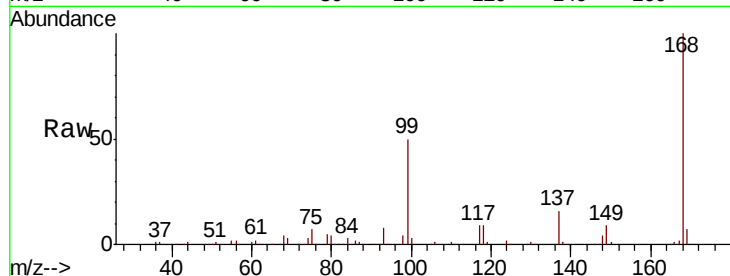
CPA-CPMW05S-M12W4-082318

Tot Ion:168 Resp: 263612

Ion Ratio Lower Upper

168 100

99 50.5 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

100000

80000

60000

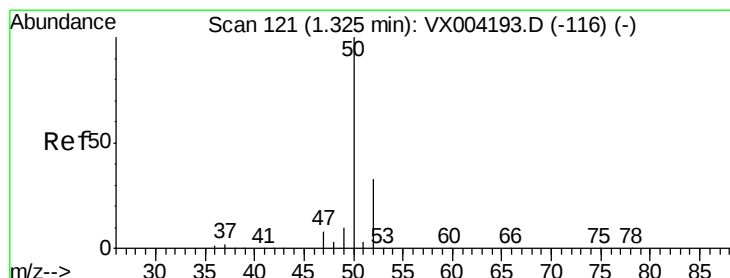
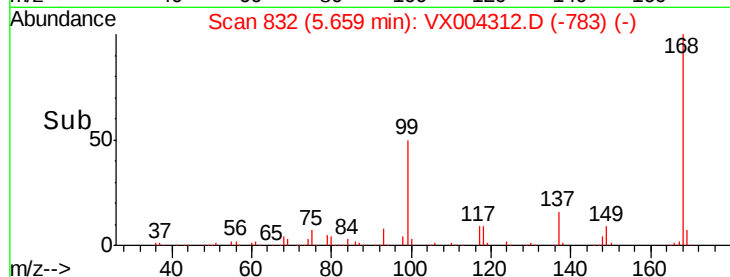
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.60 ug/l

RT: 1.32 min Scan# 120

Delta R.T. -0.01 min

Lab File: VX004312.D

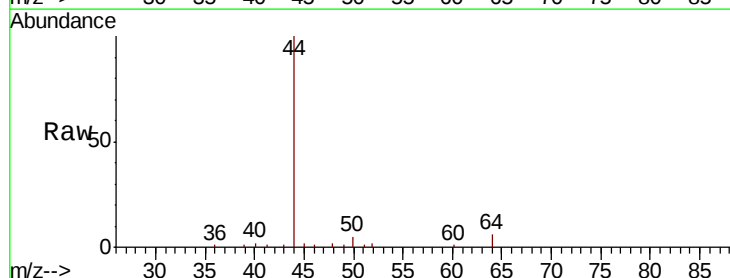
Acq: 30 Aug 2018 00:44

Tgt Ion: 50 Resp: 1036

Ion Ratio Lower Upper

50 100

52 40.3 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

600

500

400

300

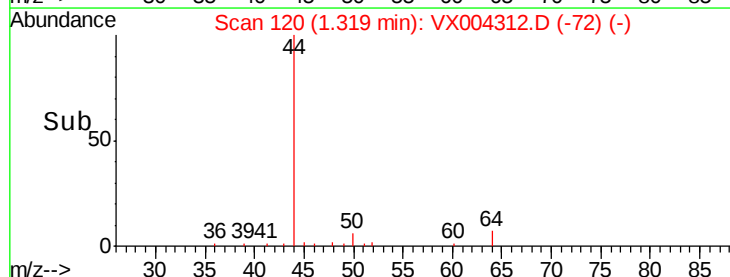
200

100

0

Time-->

1.25 1.30 1.35 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX004312.D

Acq: 30 Aug 2018 00:44

Instrument :

MSVOA_X

ClientSampleId :

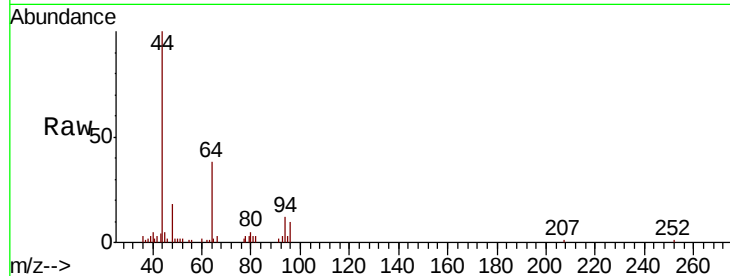
CPA-CPMW05S-M12W4-082318

Tot Ion: 94 Resp: 951

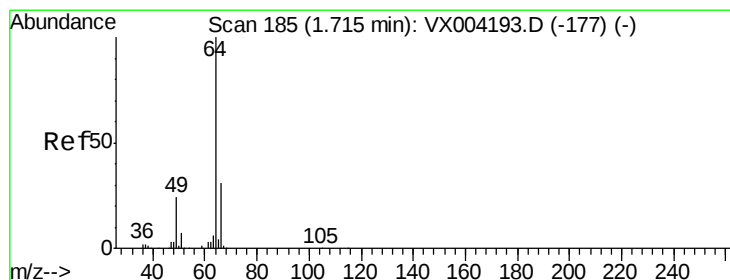
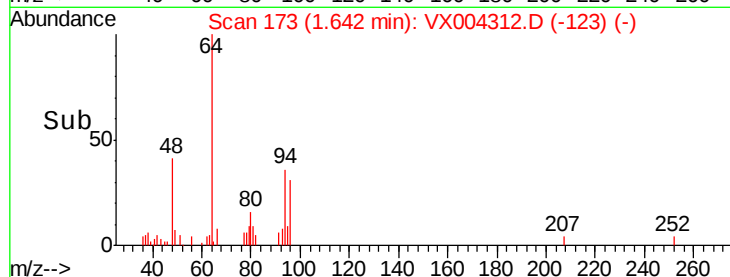
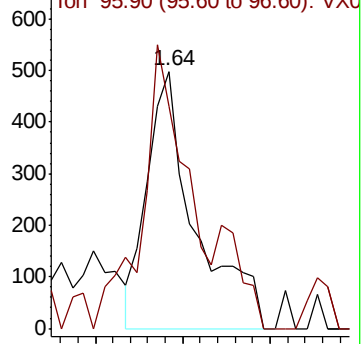
Ion Ratio Lower Upper

94 100

96 86.3 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0



#6

Chloroethane

Concen: 1.19 ug/l

RT: 1.64 min Scan# 173

Delta R.T. -0.07 min

Lab File: VX004312.D

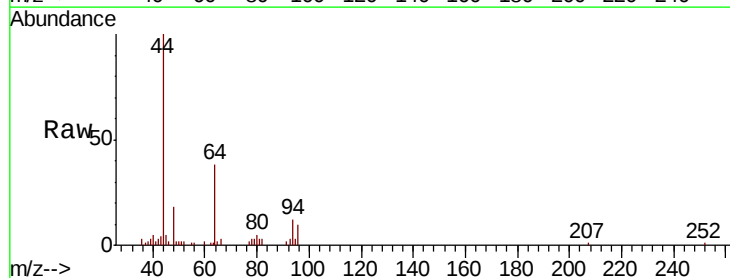
Acq: 30 Aug 2018 00:44

Tgt Ion: 64 Resp: 609

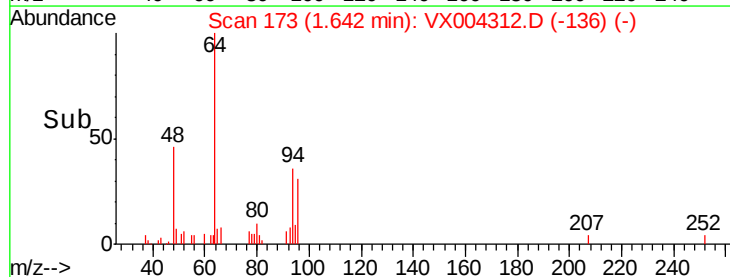
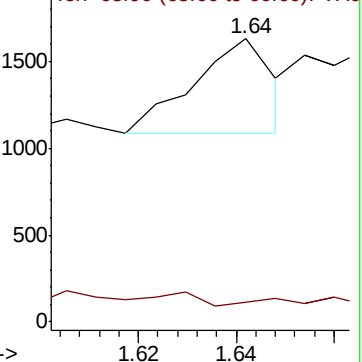
Ion Ratio Lower Upper

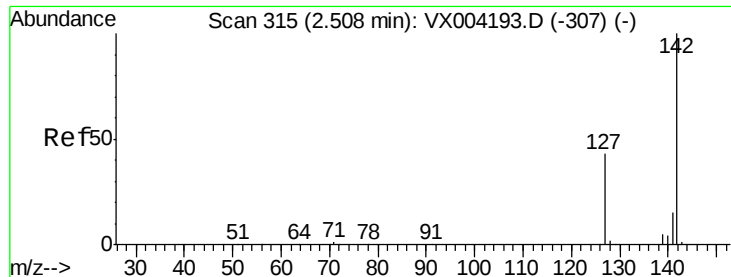
64 100

66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

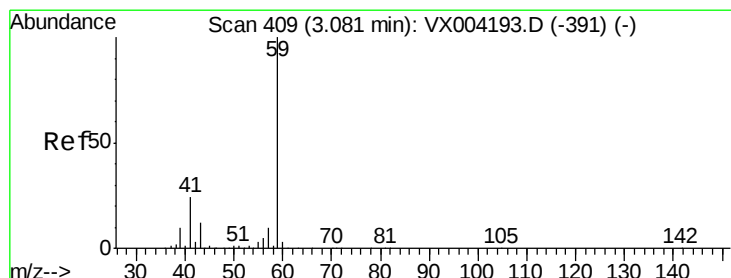
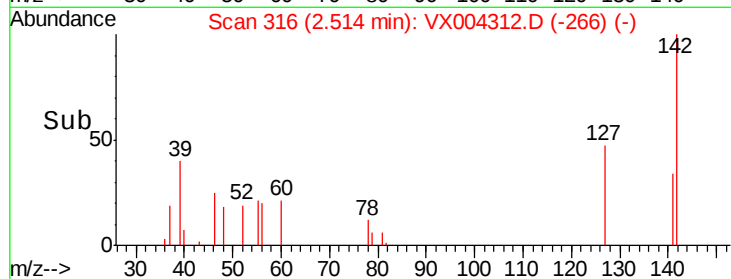
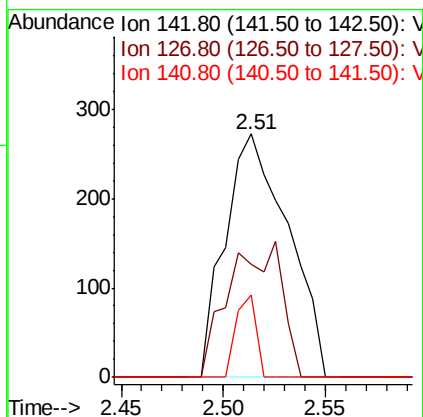
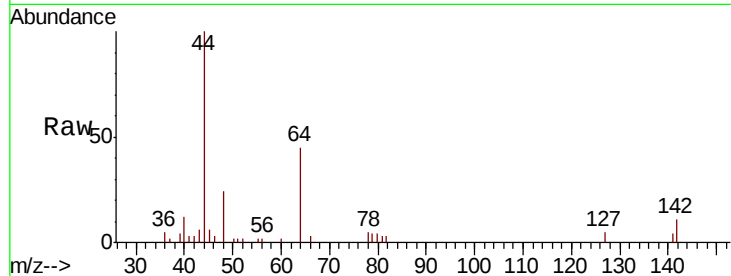




#10
Methyl Iodide
Concen: 4.42 ug/l
RT: 2.51 min Scan# 316
Delta R.T. 0.01 min
Lab File: VX004312.D
Acq: 30 Aug 2018 00:44

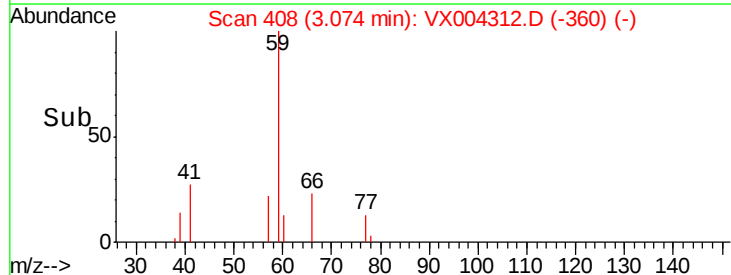
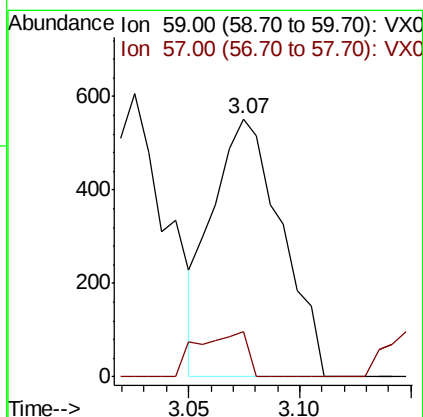
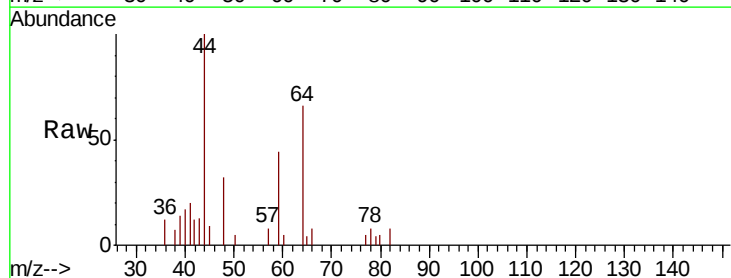
Instrument :
MSVOA_X
ClientSampleId :
CPA-CPMW05S-M12W4-082318

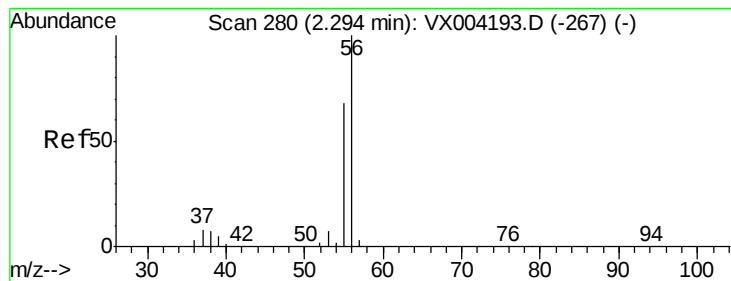
Tot Ion:142 Resp: 583
Ion Ratio Lower Upper
142 100
127 47.0 33.8 50.6
141 10.5 11.4 17.0#



#11
Tert butyl alcohol
Concen: 1.63 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX004312.D
Acq: 30 Aug 2018 00:44

Tgt Ion: 59 Resp: 1193
Ion Ratio Lower Upper
59 100
57 12.4 8.2 12.4#





#13

Acrolein

Concen: 0.52 ug/l

RT: 2.29 min Scan# 280

Delta R.T. -0.00 min

Lab File: VX004312.D

Acq: 30 Aug 2018 00:44

Instrument :

MSVOA_X

ClientSampleId :

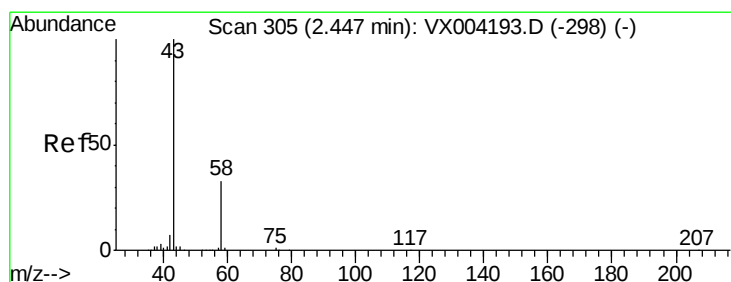
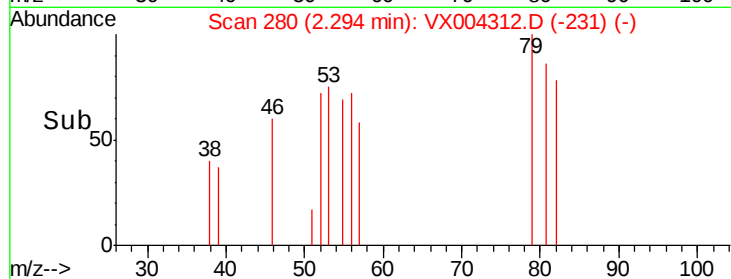
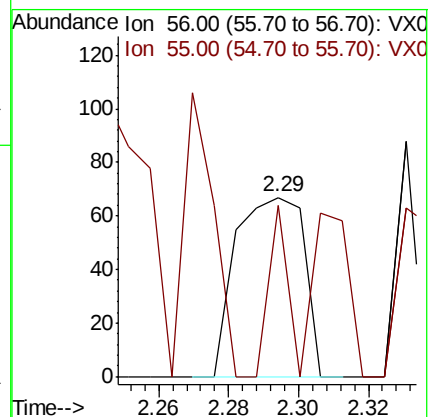
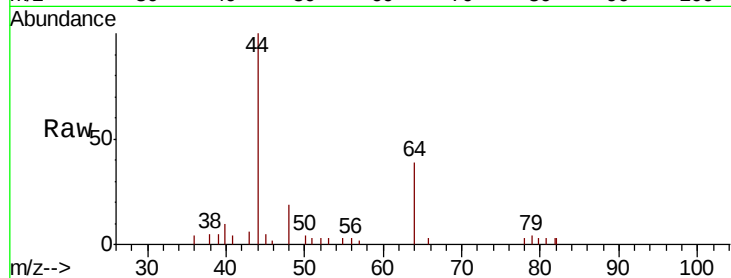
CPA-CPMW05S-M12W4-082318

Tot Ion: 56 Resp: 91

Ion Ratio Lower Upper

56 100

55 73.6 54.7 82.1



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX004312.D

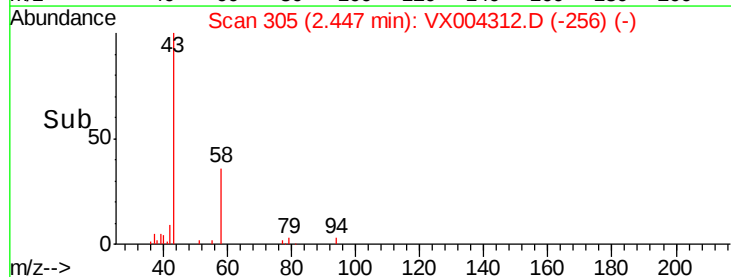
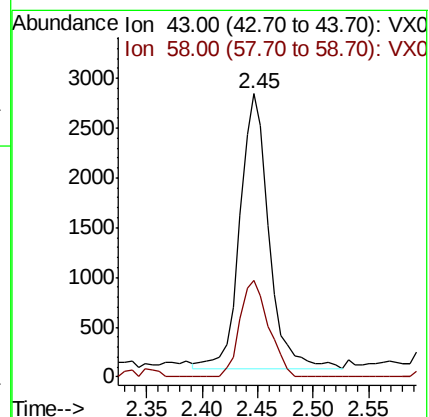
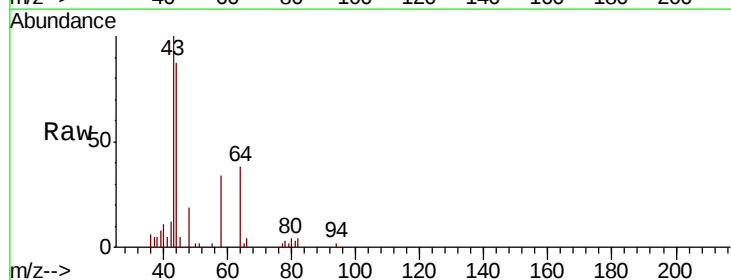
Acq: 30 Aug 2018 00:44

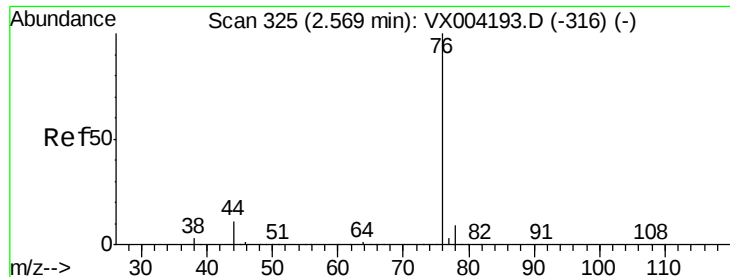
Tgt Ion: 43 Resp: 4973

Ion Ratio Lower Upper

43 100

58 35.3 26.2 39.4

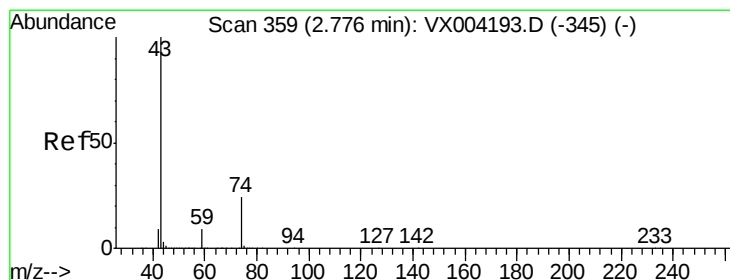
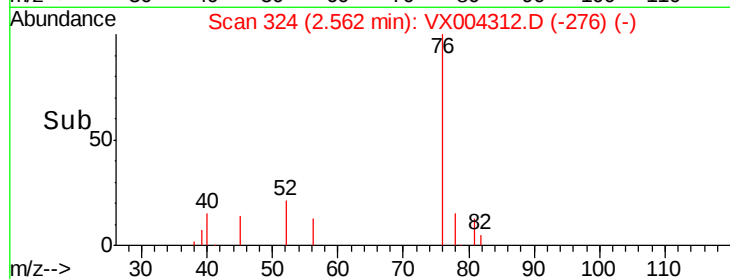
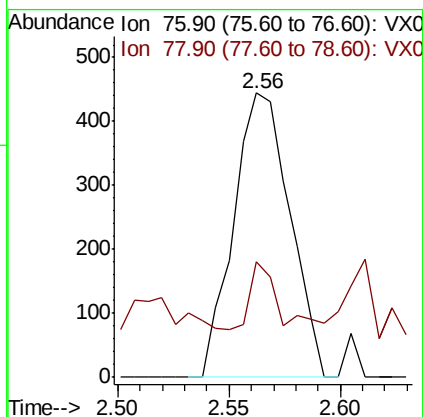
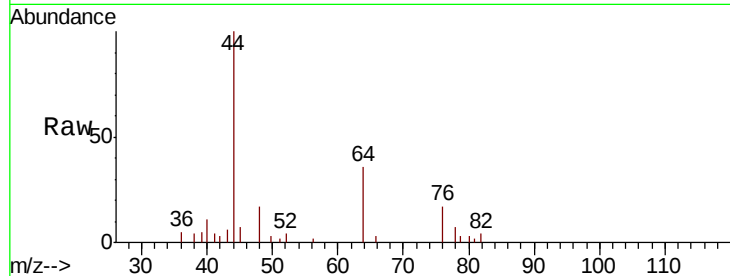




#17
Carbon Disulfide
Concen: 0.90 ug/l
RT: 2.56 min Scan# 324
Delta R.T. -0.01 min
Lab File: VX004312.D
Acq: 30 Aug 2018 00:44

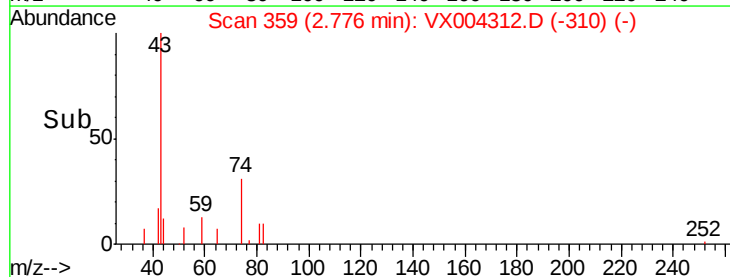
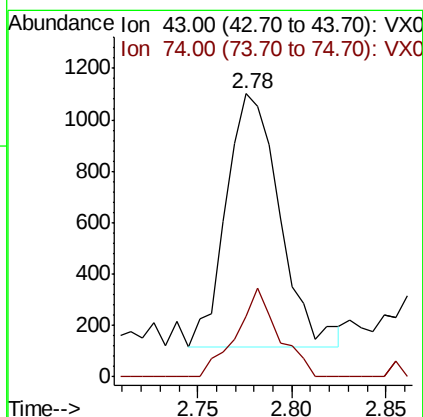
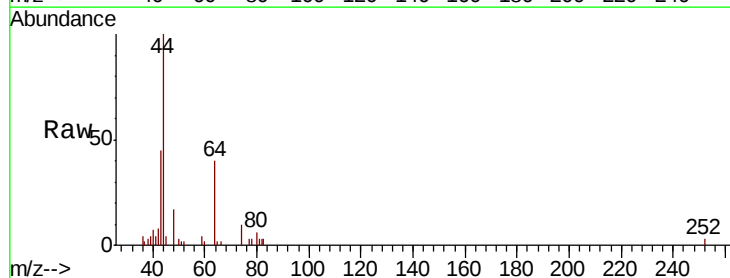
Instrument :
MSVOA_X
ClientSampleId :
CPA-CPMW05S-M12W4-082318

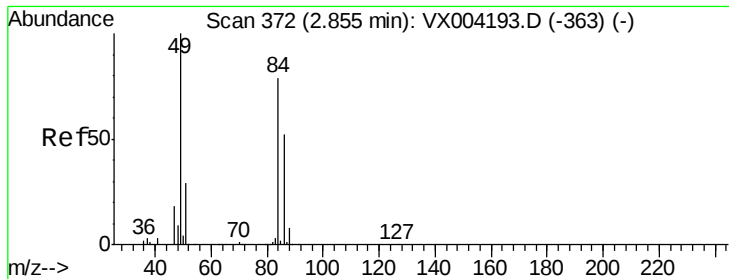
Tot Ion: 76 Resp: 779
Ion Ratio Lower Upper
76 100
78 18.0 7.0 10.6#



#18
Methyl Acetate
Concen: 0.38 ug/l
RT: 2.78 min Scan# 359
Delta R.T. -0.00 min
Lab File: VX004312.D
Acq: 30 Aug 2018 00:44

Tgt Ion: 43 Resp: 1939
Ion Ratio Lower Upper
43 100
74 27.6 19.4 29.2





#20

Methvlene Chloride

Concen: 0.25 ug/l

RT: 2.86 min Scan# 372

Delta R.T. -0.00 min

Lab File: VX004312.D

Acq: 30 Aug 2018 00:44

Instrument :

MSVOA_X

ClientSampleId :

CPA-CPMW05S-M12W4-082318

Tot Ion: 84 Resp: 830

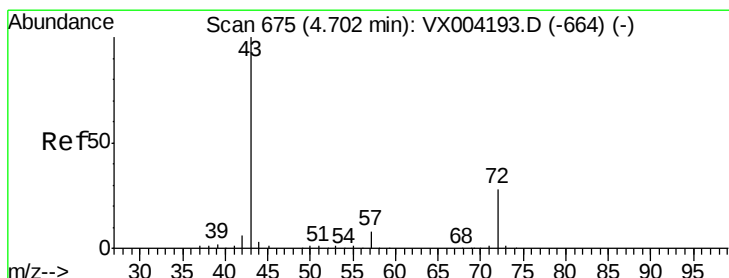
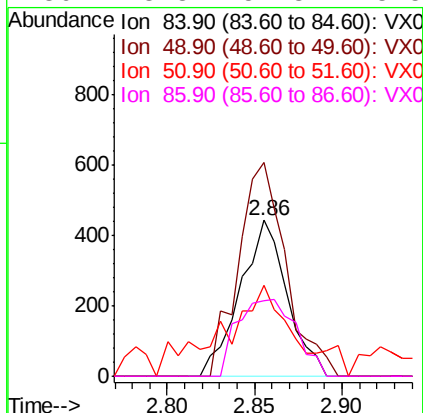
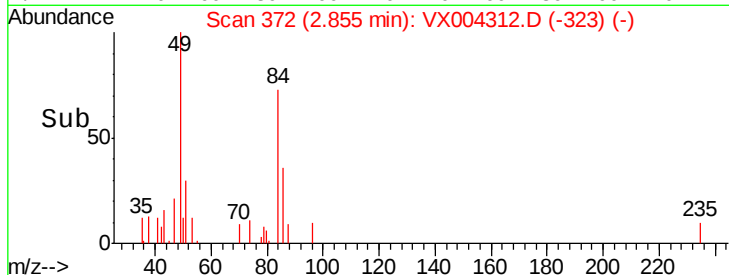
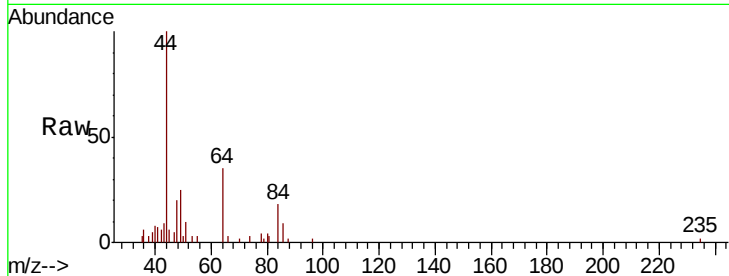
Ion Ratio Lower Upper

84 100

49 137.0 101.2 151.8

51 38.1 29.5 44.3

86 48.8 52.3 78.5#



#25

2-Butanone

Concen: 15.19 ug/l

RT: 4.86 min Scan# 701

Delta R.T. 0.16 min

Lab File: VX004312.D

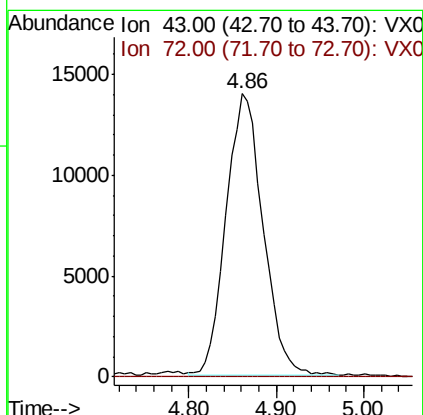
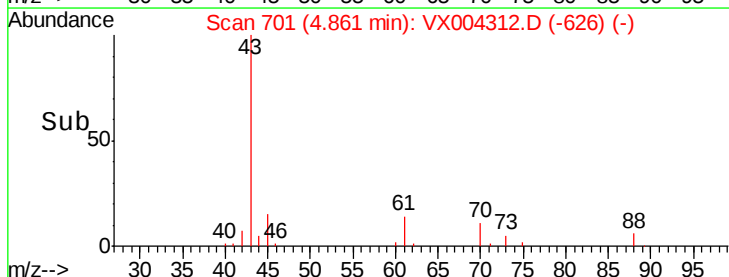
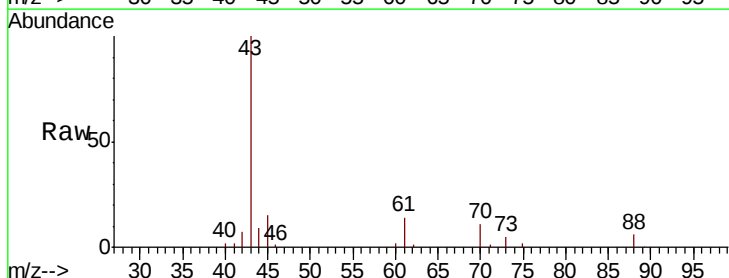
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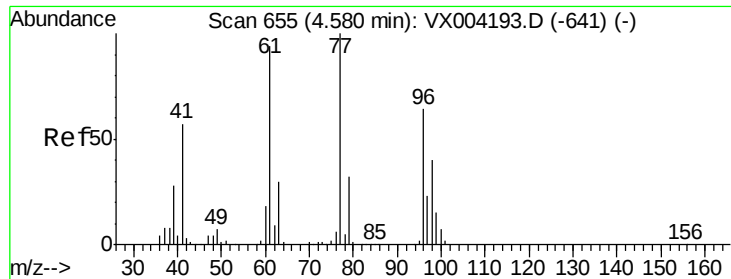
Tgt Ion: 43 Resp: 41117

Ion Ratio Lower Upper

43 100

72 0.0 22.0 33.0#





#26

2,2-Dichloropropane

Concen: 0.23 ug/l

RT: 4.78 min Scan# 688

Delta R.T. 0.20 min

Lab File: VX004312.D

Acq: 30 Aug 2018 00:44

Instrument :

MSVOA_X

ClientSampleId :

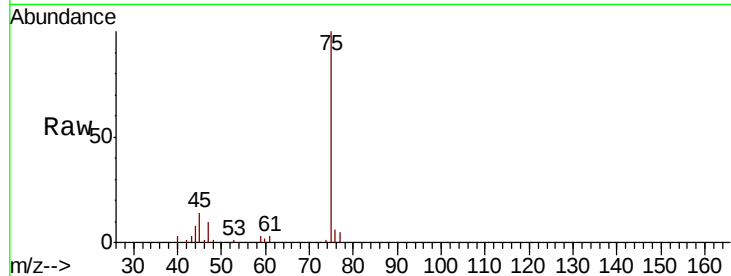
CPA-CPMW05S-M12W4-082318

Tot Ion: 77 Resp: 987

Ion Ratio Lower Upper

77 100

97 0.0 11.7 35.0#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0

4.78

300

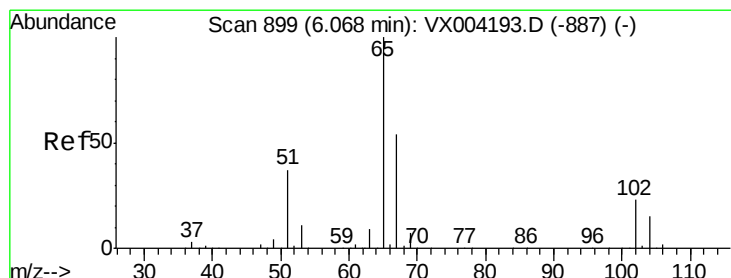
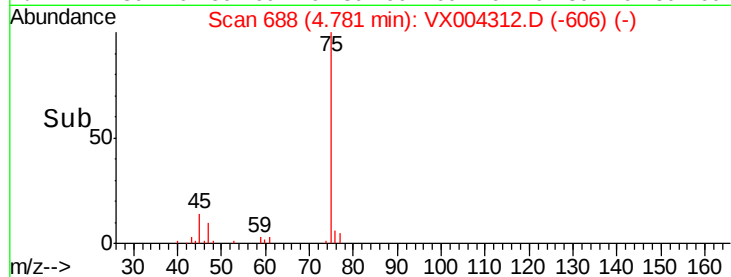
200

100

0

4.70 4.75 4.80 4.85

Time-->



#33

1,2-Dichloroethane-d4

Concen: 54.96 ug/l

RT: 6.07 min Scan# 899

Delta R.T. -0.00 min

Lab File: VX004312.D

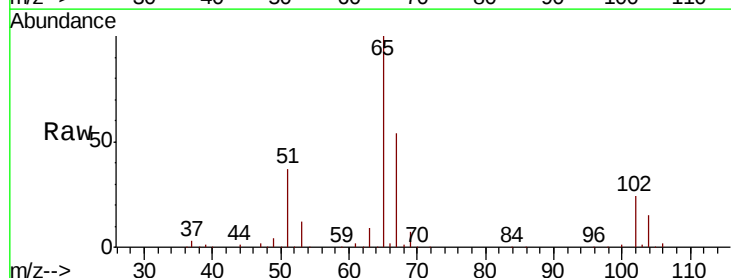
Acq: 30 Aug 2018 00:44

Tgt Ion: 65 Resp: 188820

Ion Ratio Lower Upper

65 100

67 53.3 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

80000

60000

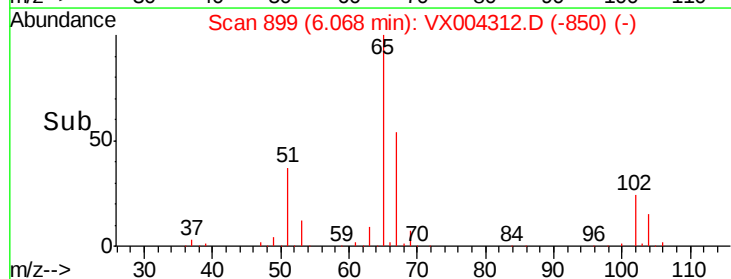
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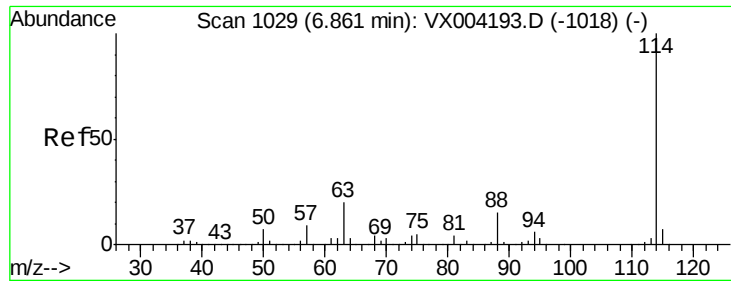
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5.90 6.00 6.10 6.20

Time-->

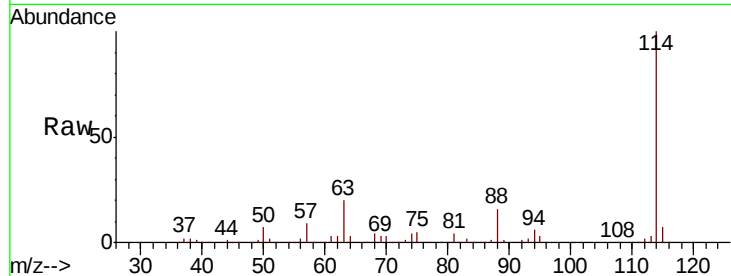




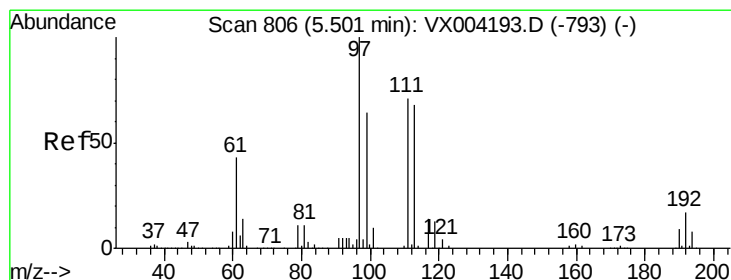
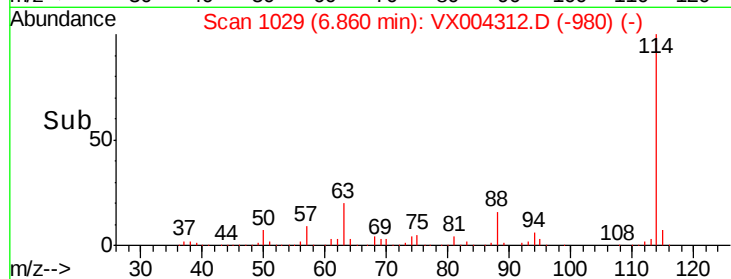
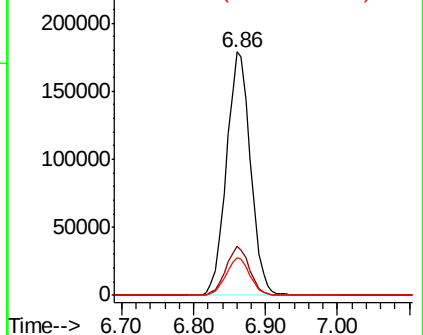
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. -0.00 min
 Lab File: VX004312.D
 Acq: 30 Aug 2018 00:44

Instrument :
 MSVOA_X
 ClientSampleId :
 CPA-CPMW05S-M12W4-082318

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	39.0
88	15.5	0.0	30.4

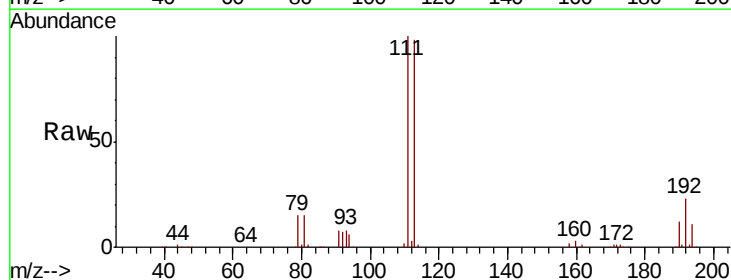


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

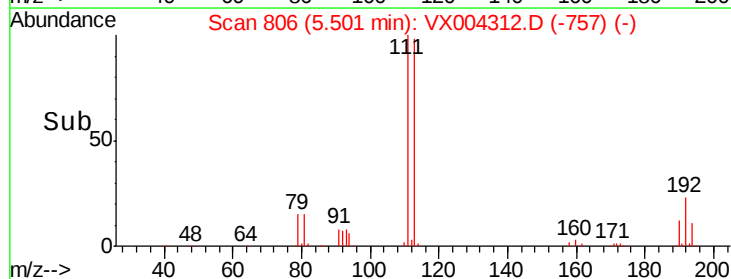
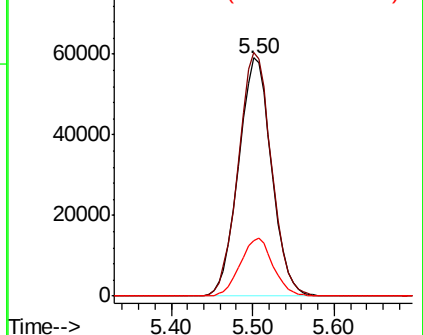


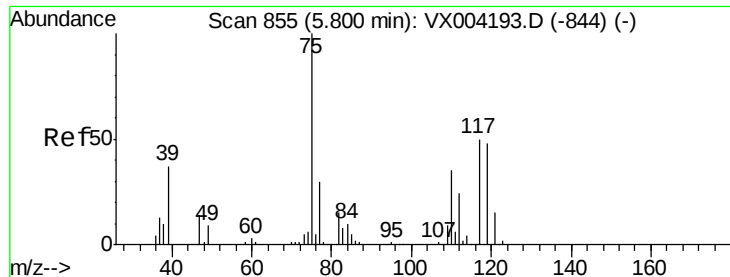
#35
 Dibromofluoromethane
 Concen: 53.72 ug/l
 RT: 5.50 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004312.D
 Acq: 30 Aug 2018 00:44

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.4	123.6
192	24.1	19.4	29.2



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: 3.69 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.14 min

Lab File: VX004312.D

Acq: 30 Aug 2018 00:44

Instrument :

MSVOA_X

ClientSampleId :

CPA-CPMW05S-M12W4-082318

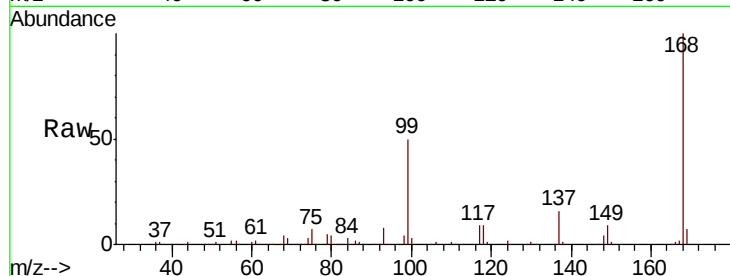
Tot Ion: 75 Resp: 17266

Ion Ratio Lower Upper

75 100

110 9.0 18.0 54.0#

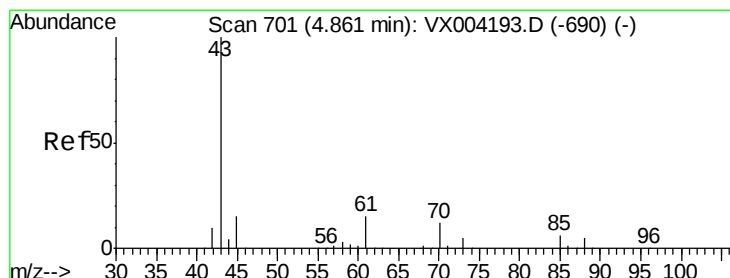
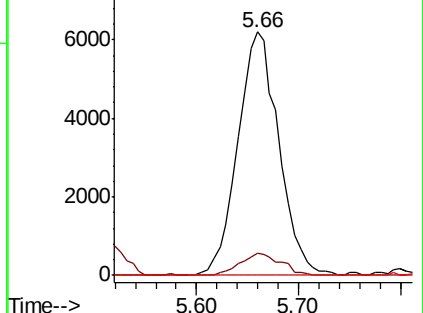
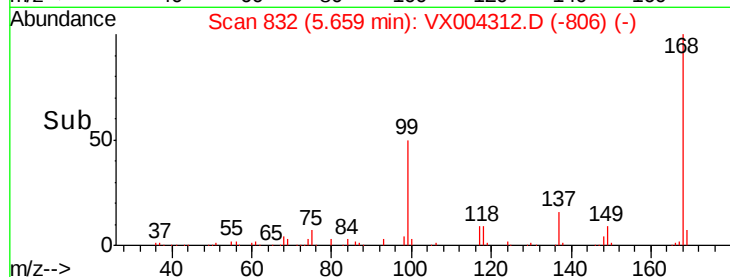
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 8.94 ug/l

RT: 4.86 min Scan# 701

Delta R.T. -0.00 min

Lab File: VX004312.D

Acq: 30 Aug 2018 00:44

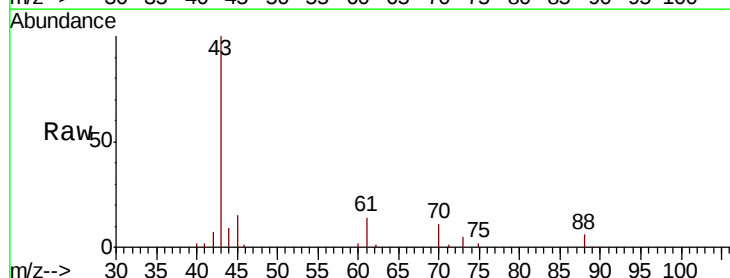
Tgt Ion: 43 Resp: 41117

Ion Ratio Lower Upper

43 100

61 14.8 11.5 17.3

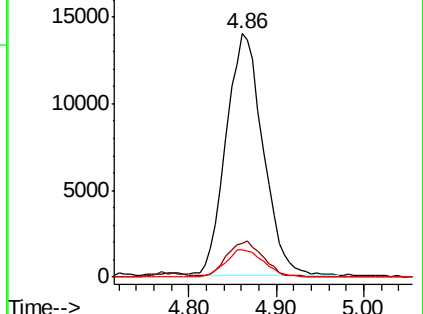
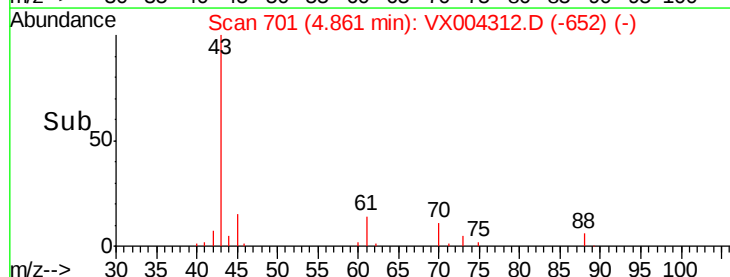
70 11.7 9.0 13.6

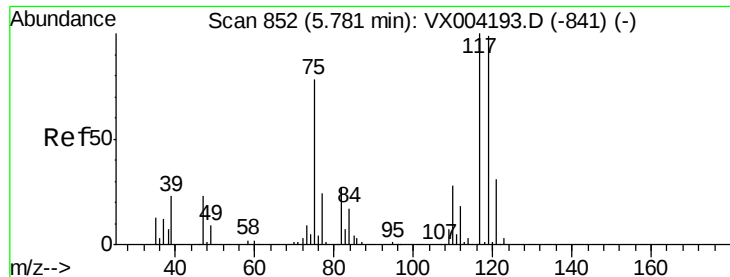


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 5.23 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX004312.D

Acq: 30 Aug 2018 00:44

Instrument :

MSVOA_X

ClientSampleId :

CPA-CPMW05S-M12W4-082318

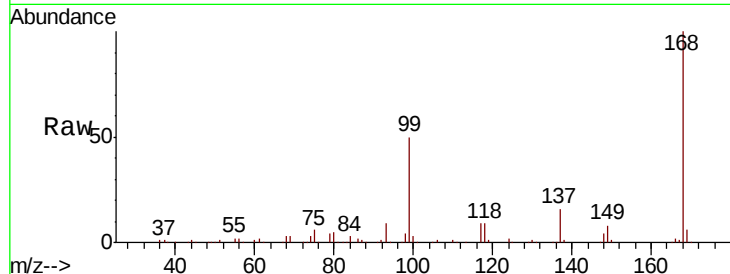
Tot Ion:117 Resp: 23012

Ion Ratio Lower Upper

117 100

119 7.2 78.8 118.2#

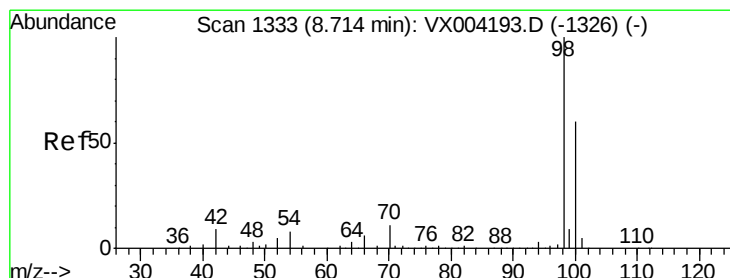
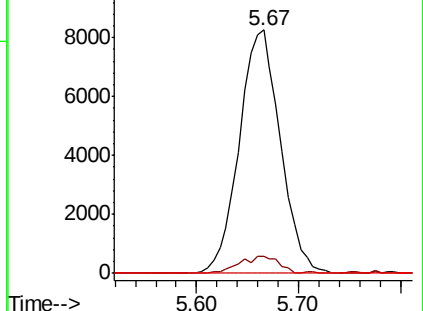
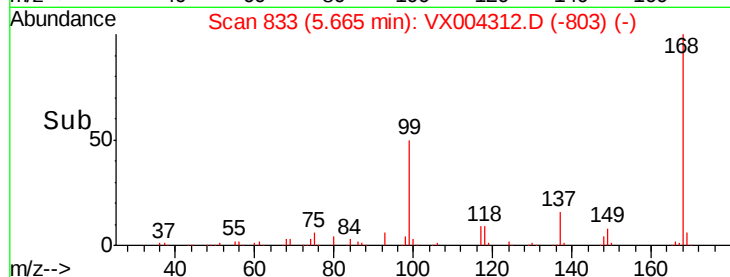
121 0.0 24.9 37.3#



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



#50

Toluene-d8

Concen: 51.45 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.01 min

Lab File: VX004312.D

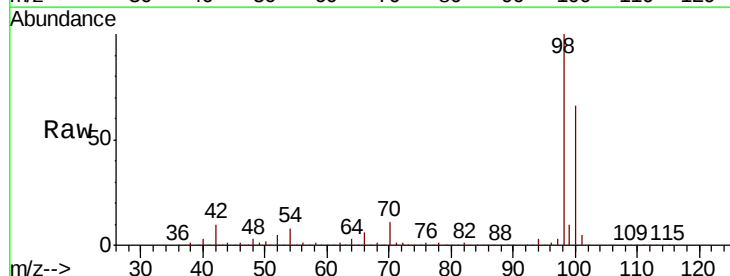
Acq: 30 Aug 2018 00:44

Tgt Ion: 98 Resp: 600669

Ion Ratio Lower Upper

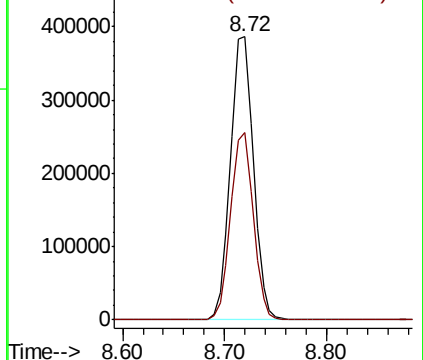
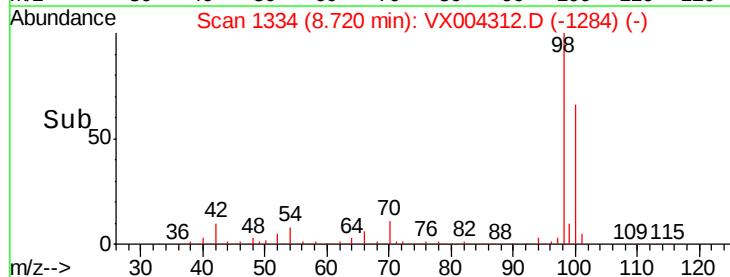
98 100

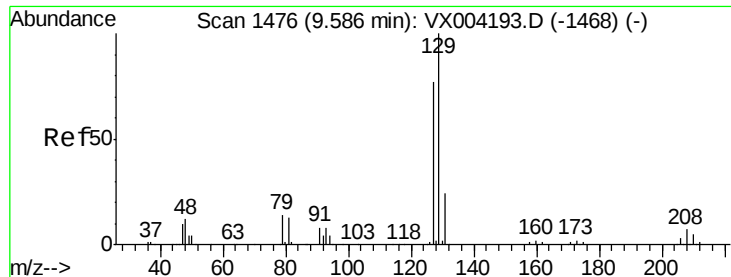
100 65.3 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 5.47 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.25 min

Lab File: VX004312.D

Acq: 30 Aug 2018 00:44

Instrument :

MSVOA_X

ClientSampleId :

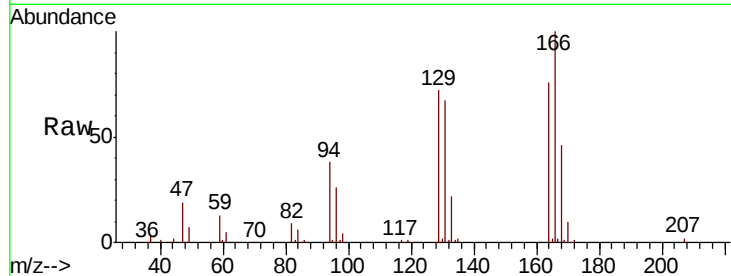
CPA-CPMW05S-M12W4-082318

Tot Ion:129 Resp: 18794

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.5#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.34

15000

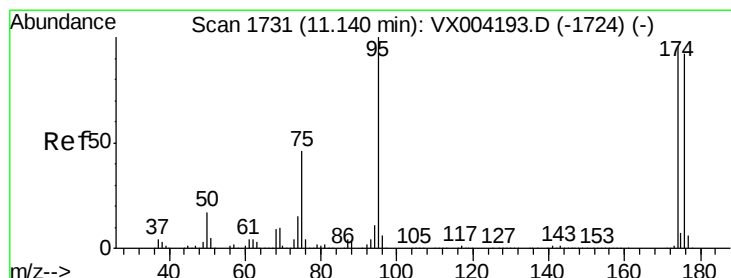
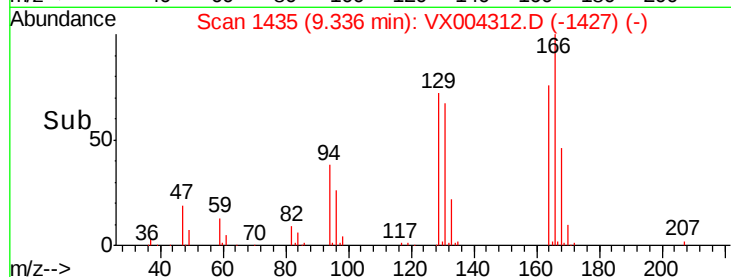
10000

5000

0

Time-->

9.30 9.35 9.40



#62

4-Bromofluorobenzene

Concen: 48.11 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX004312.D

Acq: 30 Aug 2018 00:44

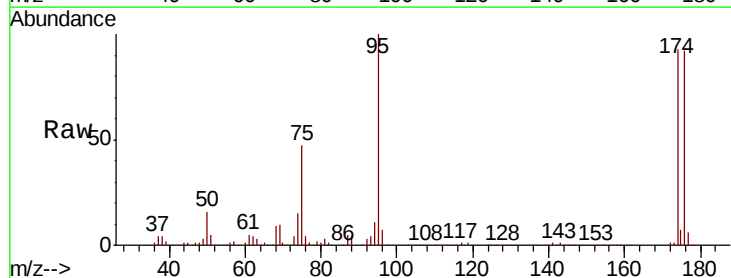
Tgt Ion: 95 Resp: 209569

Ion Ratio Lower Upper

95 100

174 92.7 0.0 185.2

176 89.6 0.0 178.6



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

200000

150000

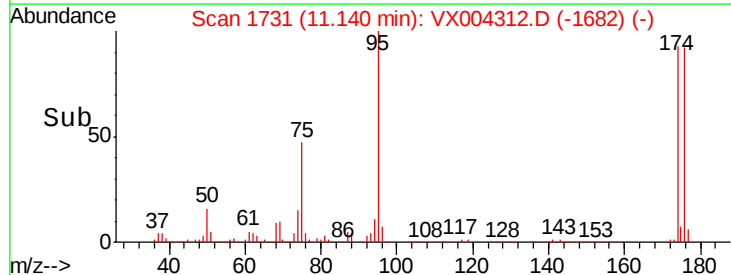
100000

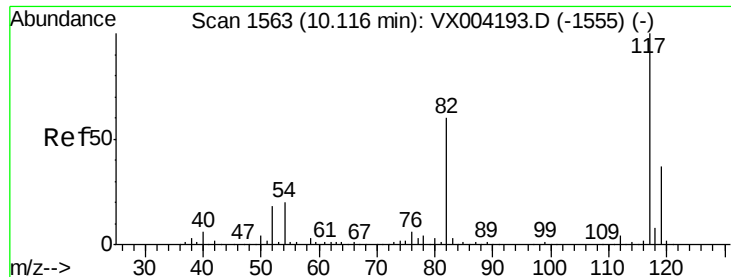
50000

0

Time-->

11.05 11.10 11.15 11.20

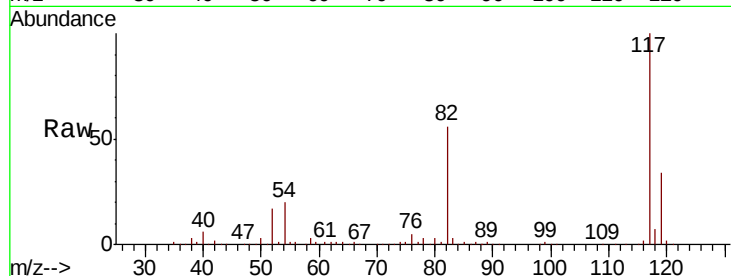




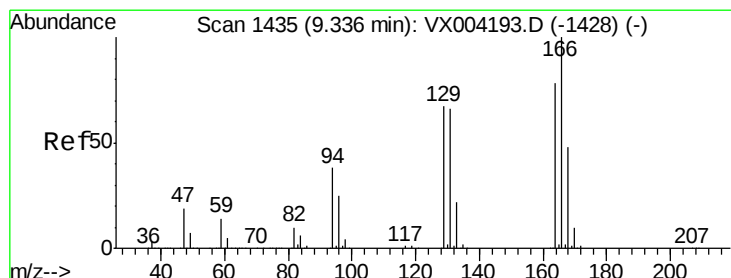
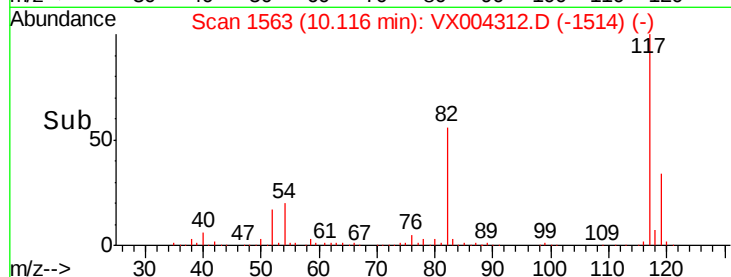
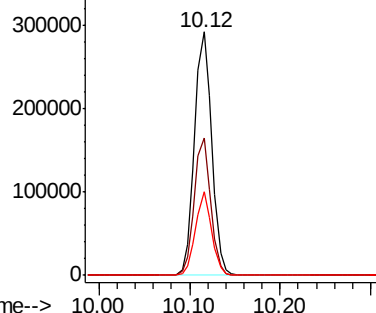
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004312.D
Acq: 30 Aug 2018 00:44

Instrument :
MSVOA_X
ClientSampleId :
CPA-CPMW05S-M12W4-082318

Tot Ion:117 Resp: 388873
Ion Ratio Lower Upper
117 100
82 56.3 47.8 71.6
119 34.2 29.3 43.9



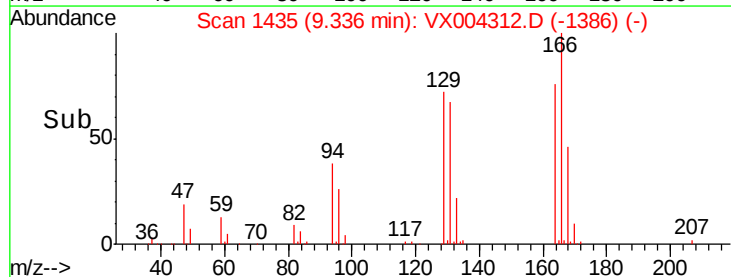
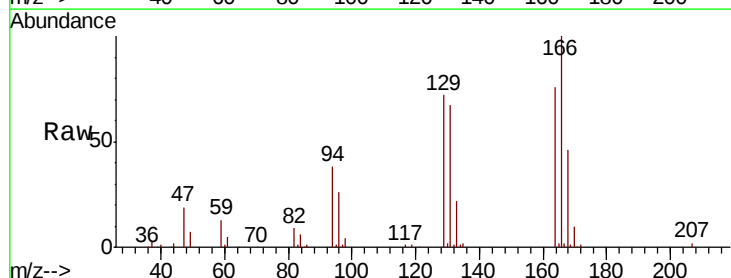
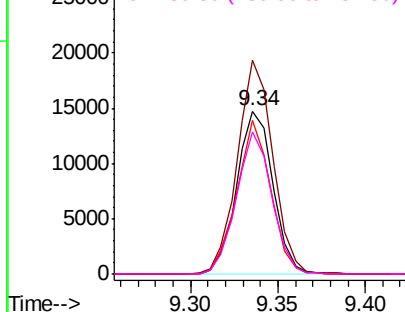
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

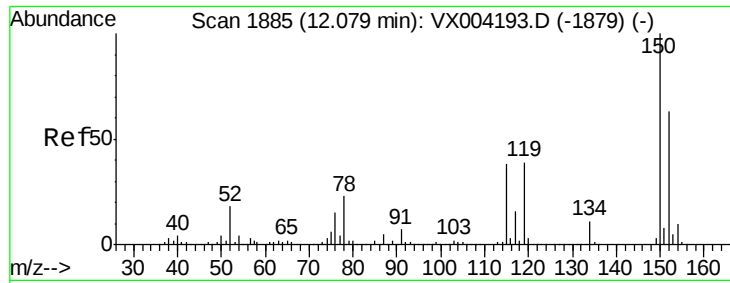


#64
Tetrachloroethene
Concen: 5.52 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.00 min
Lab File: VX004312.D
Acq: 30 Aug 2018 00:44

Tgt Ion:164 Resp: 21219
Ion Ratio Lower Upper
164 100
166 131.4 102.8 154.2
129 94.6 69.4 104.0
131 87.5 67.9 101.9

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: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX004312.D

Acq: 30 Aug 2018 00:44

Instrument :

MSVOA_X

ClientSampleId :

CPA-CPMW05S-M12W4-082318

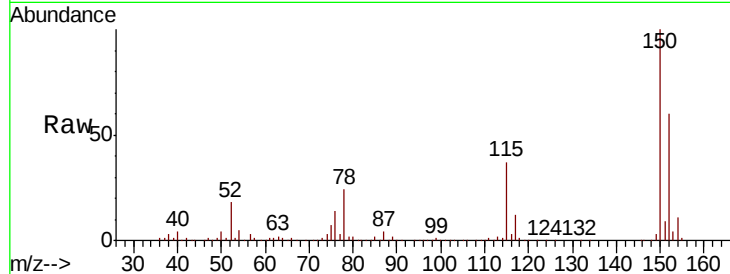
Tot Ion:152 Resp: 208762

Ion Ratio Lower Upper

152 100

115 56.9 39.0 117.0

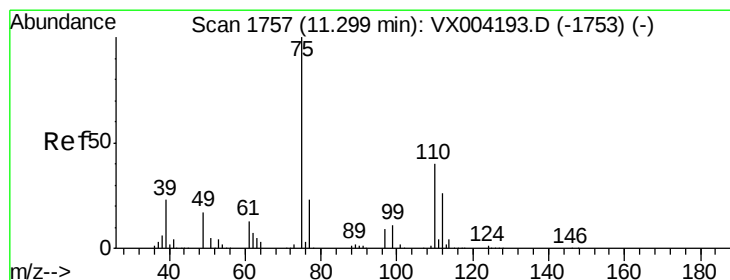
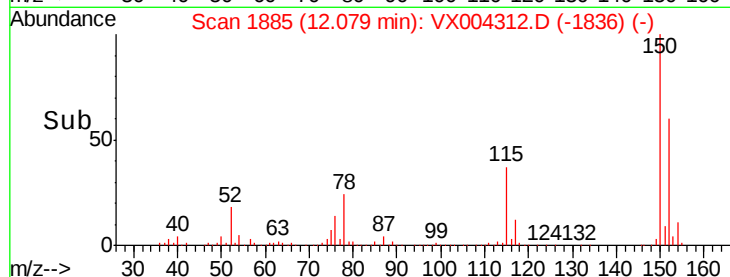
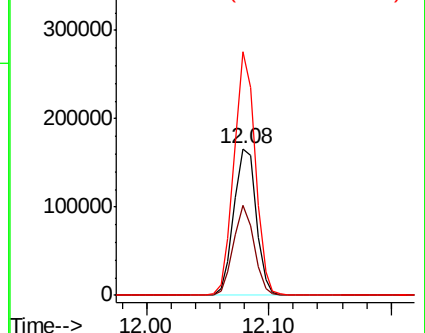
150 157.4 0.0 351.0



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: 23.59 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004312.D

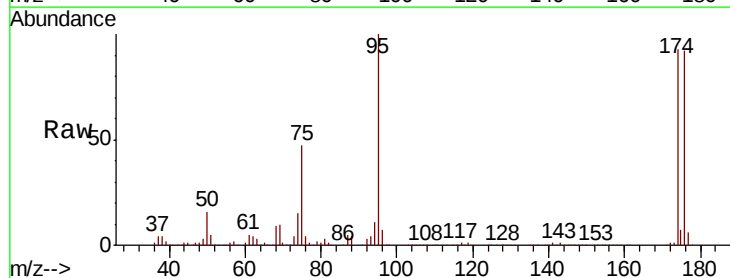
Acq: 30 Aug 2018 00:44

Tgt Ion: 75 Resp: 100140

Ion Ratio Lower Upper

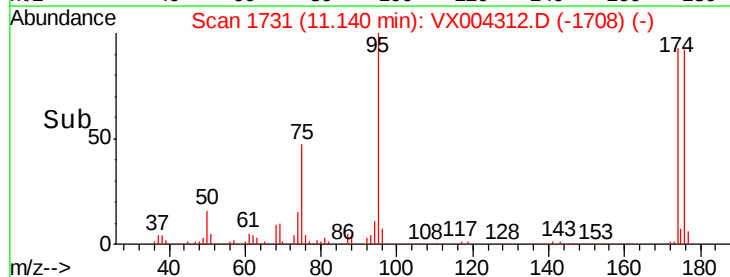
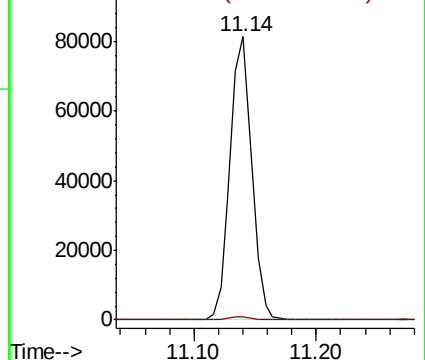
75 100

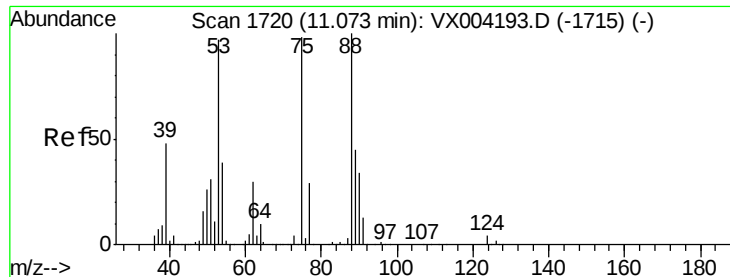
77 1.2 20.2 60.6#



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: 76.52 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.07 min

Lab File: VX004312.D

Acq: 30 Aug 2018 00:44

Instrument :

MSVOA_X

ClientSampleId :

CPA-CPMW05S-M12W4-082318

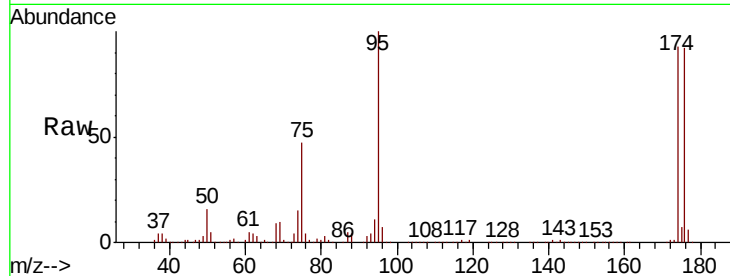
Tot Ion: 75 Resp: 100140

Ion Ratio Lower Upper

75 100

53 0.3 80.1 120.1#

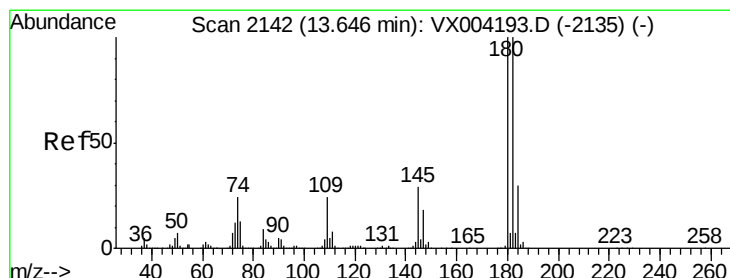
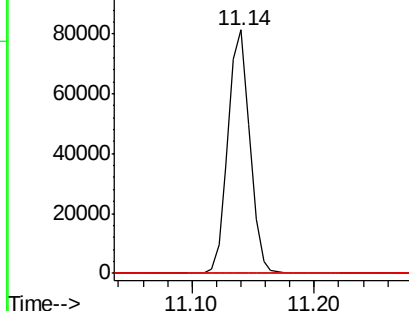
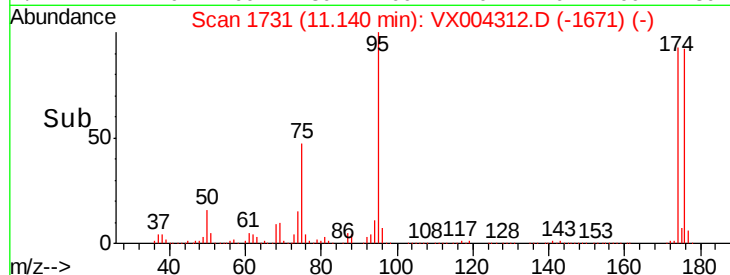
89 0.0 37.2 55.8#



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: 0.43 ug/l

RT: 13.65 min Scan# 2142

Delta R.T. -0.00 min

Lab File: VX004312.D

Acq: 30 Aug 2018 00:44

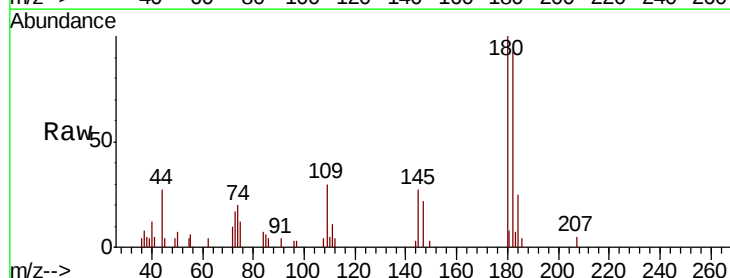
Tgt Ion:180 Resp: 2087

Ion Ratio Lower Upper

180 100

182 89.1 48.4 145.0

145 24.3 14.3 42.9



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

