

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031119\
 Data File : VX007999.D
 Acq On : 12 Mar 2019 07:08
 Operator : JC/SP
 Sample : K1828-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CPA-CPMW11D-M20W2-030519

Quant Time: Mar 12 08:50:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 07 07:33:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	242882	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	379934	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	358513	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	172095	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	131637	51.38	ug/l	0.00
Spiked Amount			Recovery	=	102.76%	
35) Dibromofluoromethane	5.50	113	123313	50.74	ug/l	0.00
Spiked Amount			Recovery	=	101.48%	
50) Toluene-d8	8.71	98	459500	51.48	ug/l	0.00
Spiked Amount			Recovery	=	102.96%	
62) 4-Bromofluorobenzene	11.13	95	166281	53.14	ug/l	0.00
Spiked Amount			Recovery	=	106.28%	

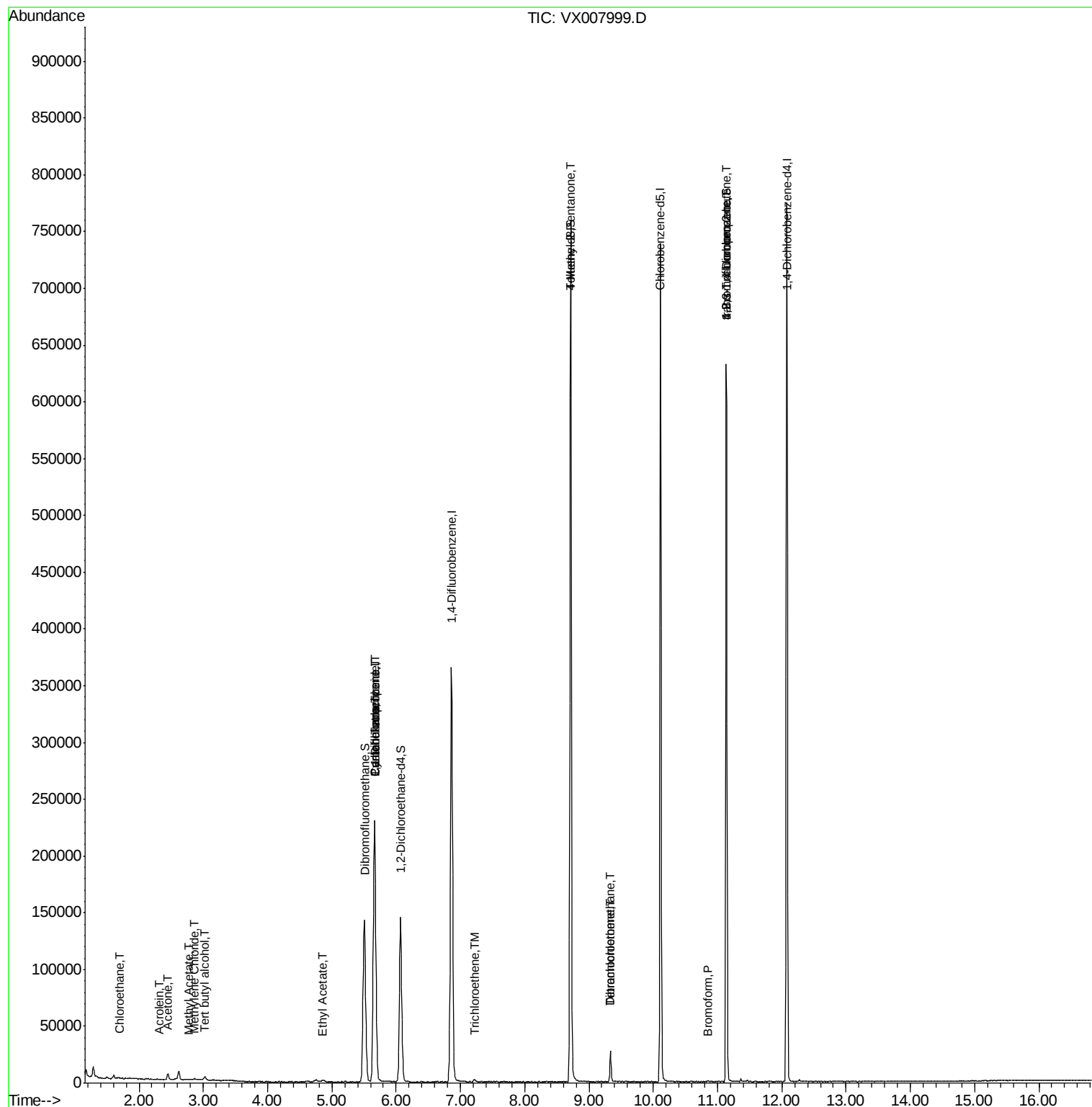
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	338	Below Cal		87
6) Chloroethane	1.70	64	355	0.201	ug/l #	43
11) Tert butyl alcohol	3.03	59	1976	3.449	ug/l #	73
13) Acrolein	2.31	56	67	1.747	ug/l #	58
16) Acetone	2.45	43	5599	3.775	ug/l	98
17) Carbon Disulfide	2.57	76	882	Below Cal	#	89
18) Methyl Acetate	2.78	43	970	0.308	ug/l #	58
20) Methylene Chloride	2.86	84	578	0.245	ug/l #	80
31) Cyclohexane	5.67	56	3667	0.931	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	14999	4.360	ug/l #	49
37) Ethyl Acetate	4.86	43	3042	0.745	ug/l	98
38) Carbon Tetrachloride	5.67	117	20612	6.311	ug/l #	17
44) Trichloroethene	7.22	130	803	0.285	ug/l	75
51) 4-Methyl-2-Pentanone	8.71	43	1822	0.469	ug/l #	1
60) Dibromochloromethane	9.34	129	4940	1.867	ug/l #	11
64) Tetrachloroethene	9.34	164	5521	1.858	ug/l	97
71) Bromoform	10.86	173	465	0.201	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	75690	20.959	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	75690	66.997	ug/l #	11

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

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QLast Update : Thu Mar 07 07:33:26 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: VX007999.D

Acq: 12 Mar 2019 07:08

Instrument :

MSVOA_X

ClientSampleId :

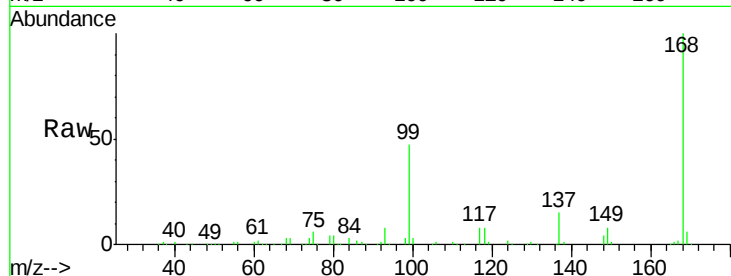
CPA-CPMW11D-M20W2-030519

Tot Ion:168 Resp: 242882

Ion Ratio Lower Upper

168 100

99 47.2 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

80000

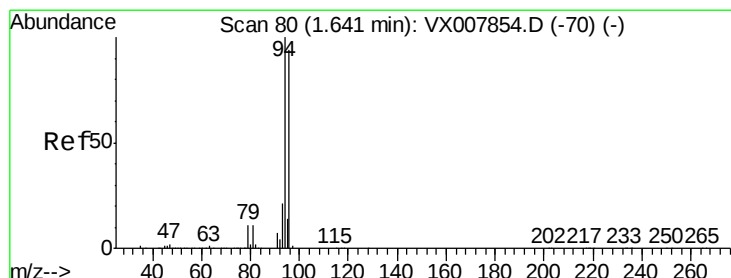
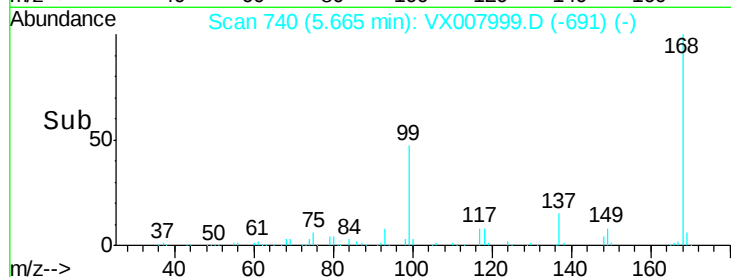
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX007999.D

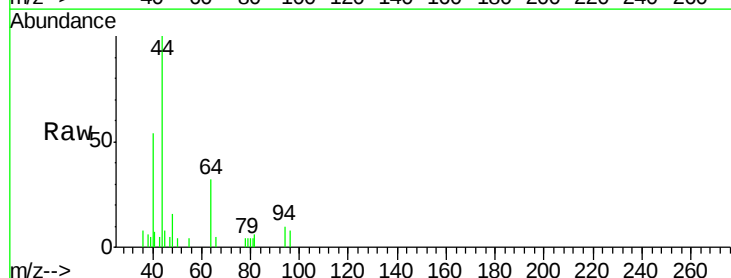
Acq: 12 Mar 2019 07:08

Tgt Ion: 94 Resp: 338

Ion Ratio Lower Upper

94 100

96 82.1 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

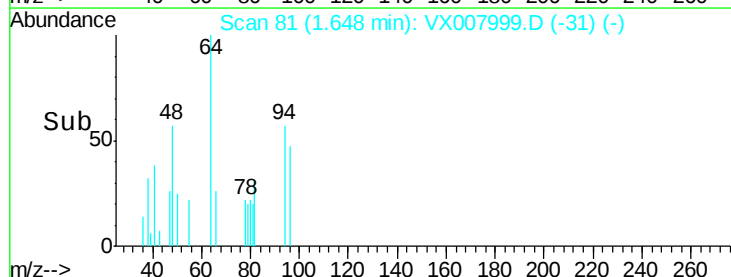
150

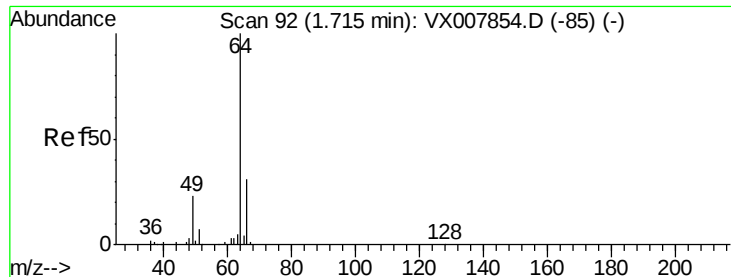
100

50

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 0.201 ug/l

RT: 1.70 min Scan# 90

Delta R.T. -0.01 min

Lab File: VX007999.D

Acq: 12 Mar 2019 07:08

Instrument :

MSVOA_X

ClientSampleId :

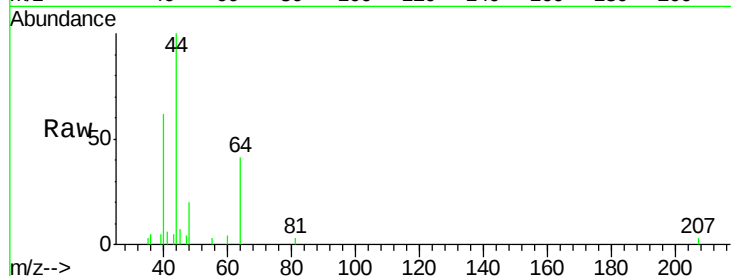
CPA-CPMW11D-M20W2-030519

Tot Ion: 64 Resp: 355

Ion Ratio Lower Upper

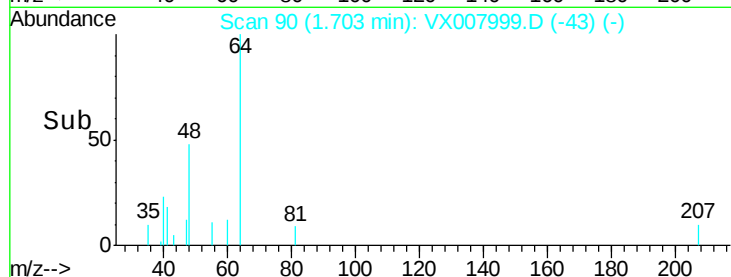
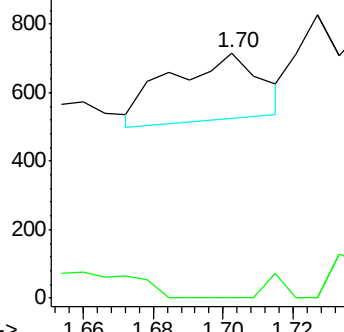
64 100

66 0.0 25.2 37.8#

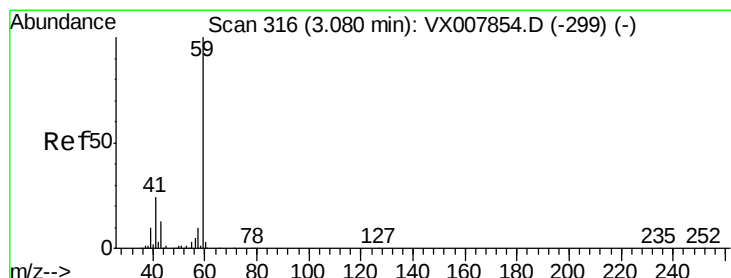


Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->



#11

Tert butyl alcohol

Concen: 3.449 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.05 min

Lab File: VX007999.D

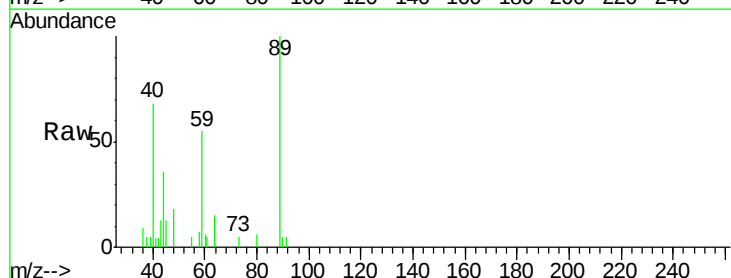
Acq: 12 Mar 2019 07:08

Tgt Ion: 59 Resp: 1976

Ion Ratio Lower Upper

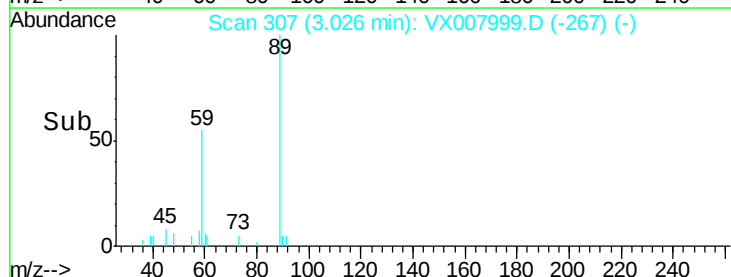
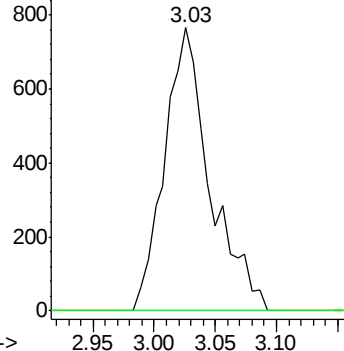
59 100

57 0.0 8.2 12.2#

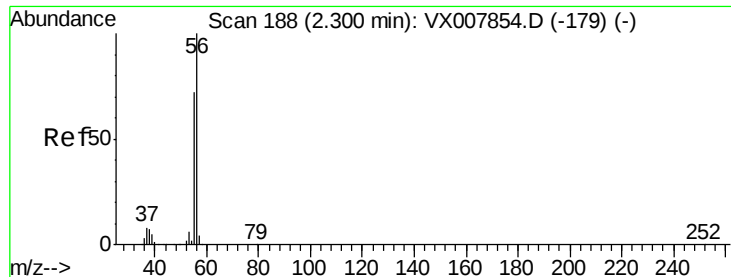


Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



Time-->



#13

Acrolein

Concen: 1.747 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX007999.D

Acq: 12 Mar 2019 07:08

Instrument :

MSVOA_X

ClientSampleId :

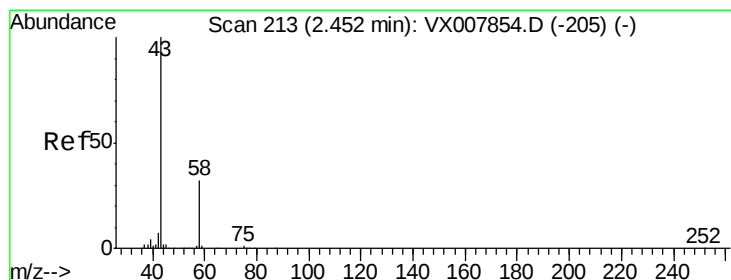
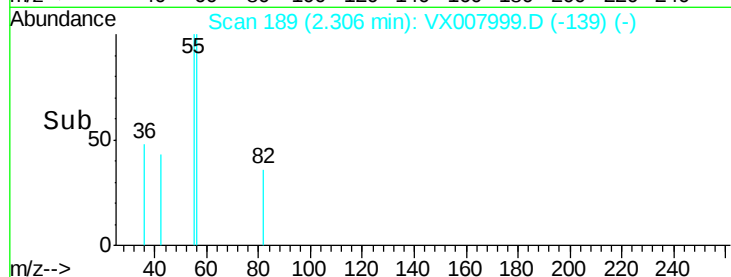
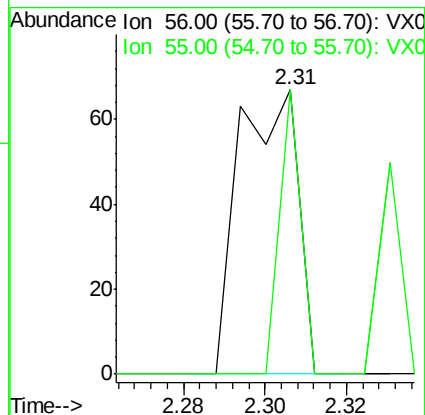
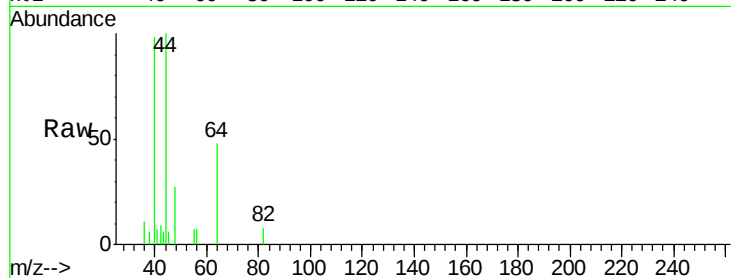
CPA-CPMW11D-M20W2-030519

Tot Ion: 56 Resp: 67

Ion Ratio Lower Upper

56 100

55 37.3 57.8 86.6#



#16

Acetone

Concen: 3.775 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.01 min

Lab File: VX007999.D

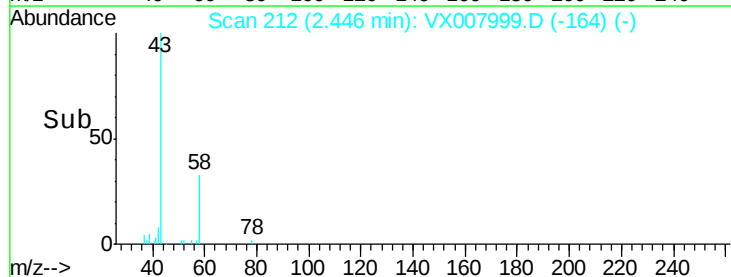
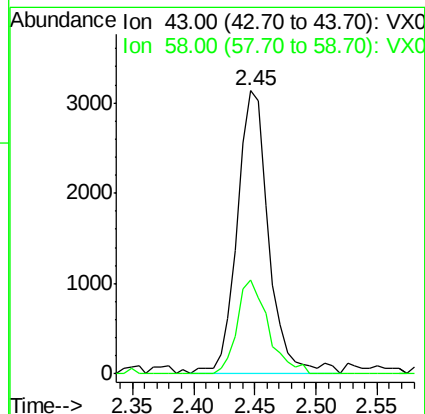
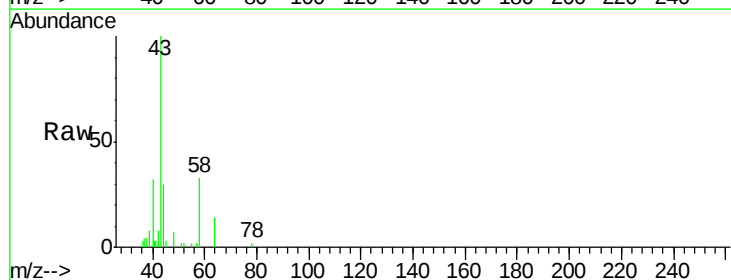
Acq: 12 Mar 2019 07:08

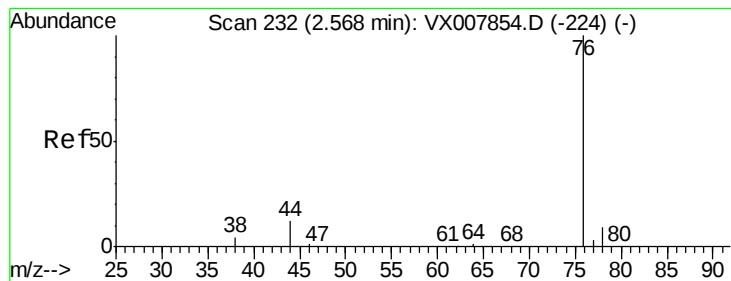
Tgt Ion: 43 Resp: 5599

Ion Ratio Lower Upper

43 100

58 33.3 25.5 38.3





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX007999.D

Acq: 12 Mar 2019 07:08

Instrument :

MSVOA_X

ClientSampleId :

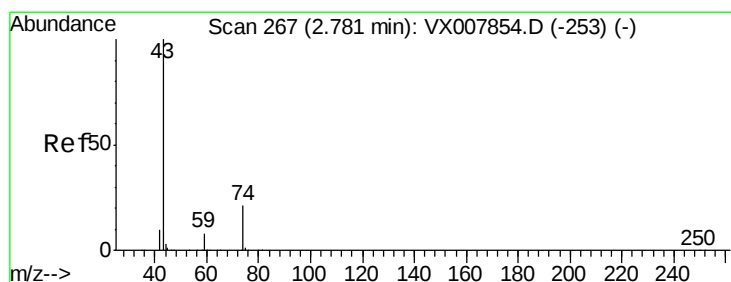
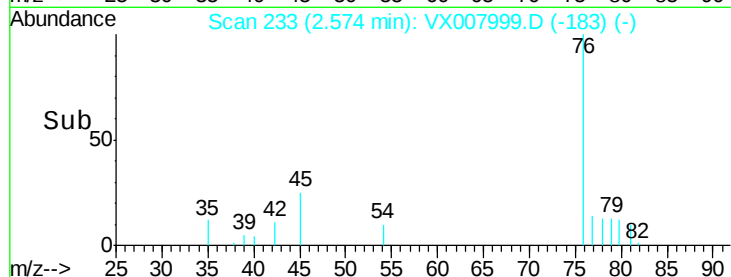
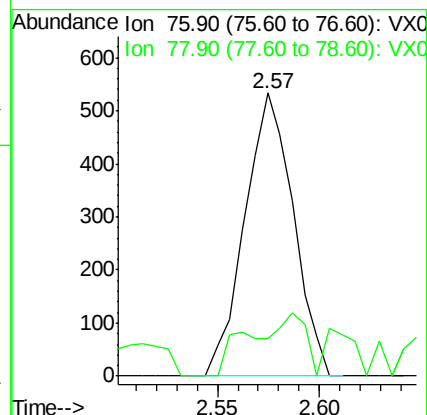
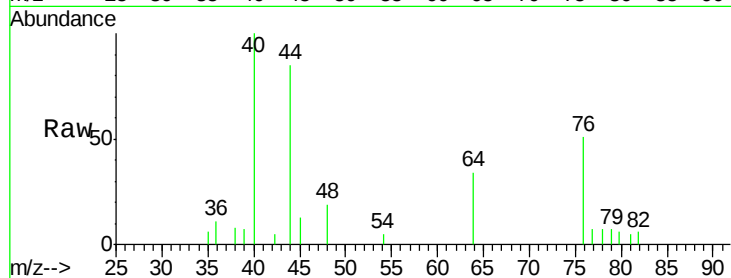
CPA-CPMW11D-M20W2-030519

Tot Ion: 76 Resp: 882

Ion Ratio Lower Upper

76 100

78 13.1 7.2 10.8#



#18

Methyl Acetate

Concen: 0.308 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX007999.D

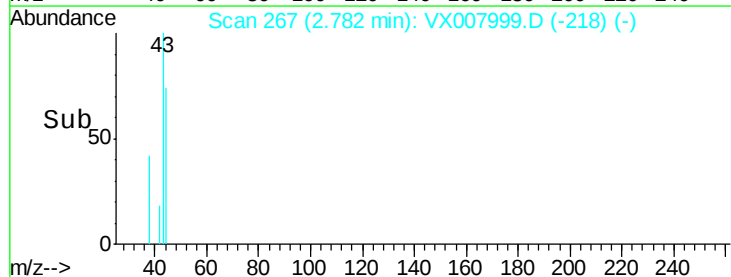
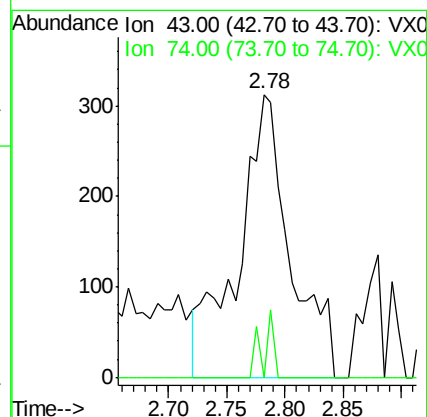
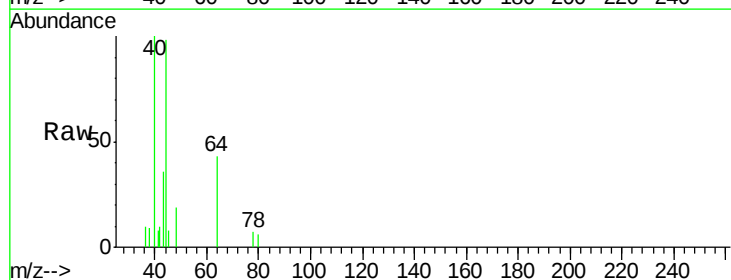
Acq: 12 Mar 2019 07:08

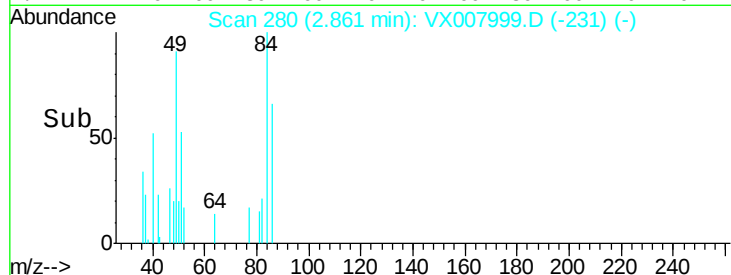
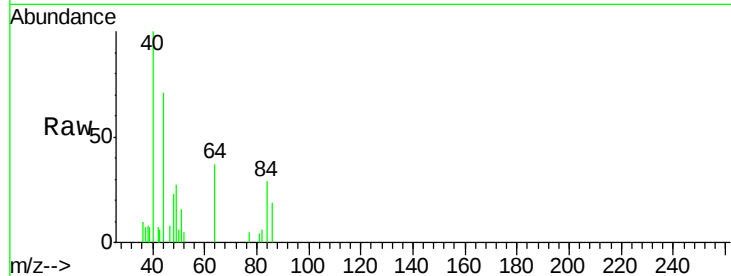
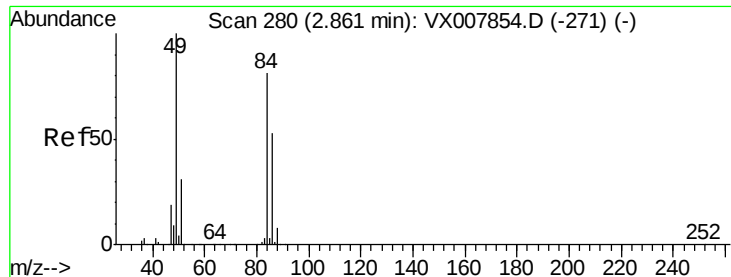
Tgt Ion: 43 Resp: 970

Ion Ratio Lower Upper

43 100

74 2.1 17.8 26.6#

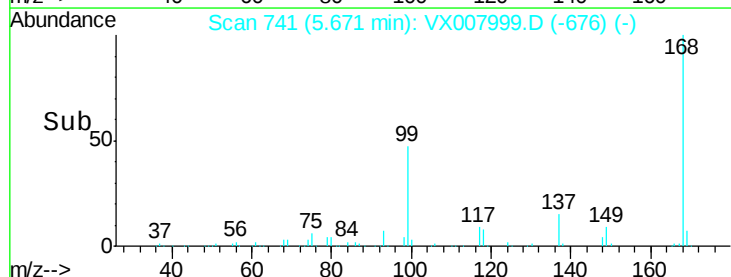
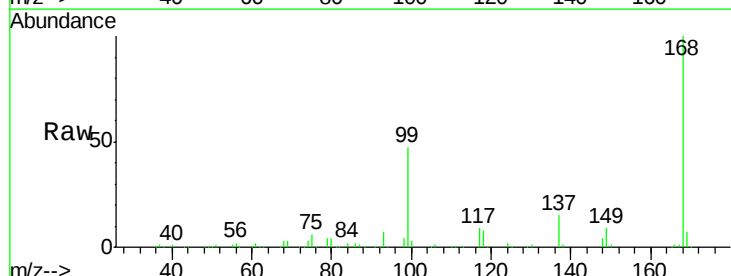
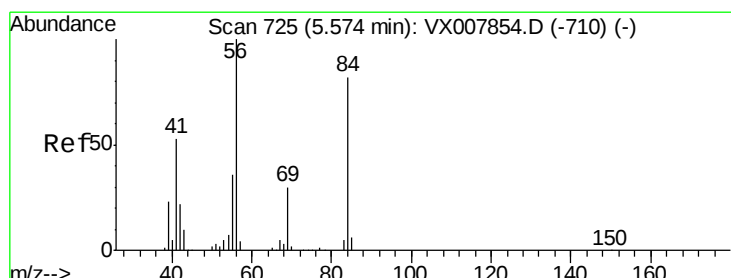
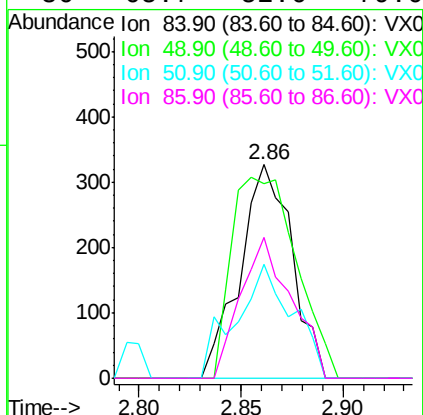




#20
Methylene Chloride
Concen: 0.245 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007999.D
Acq: 12 Mar 2019 07:08

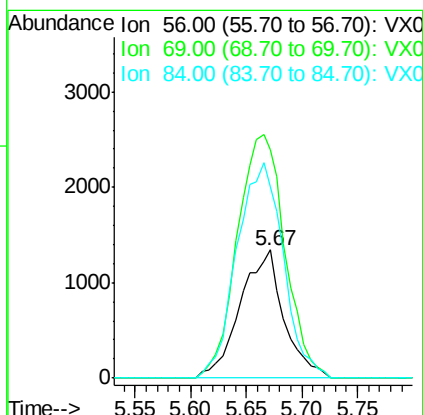
Instrument :
MSVOA_X
ClientSampleId :
CPA-CPMW11D-M20W2-030519

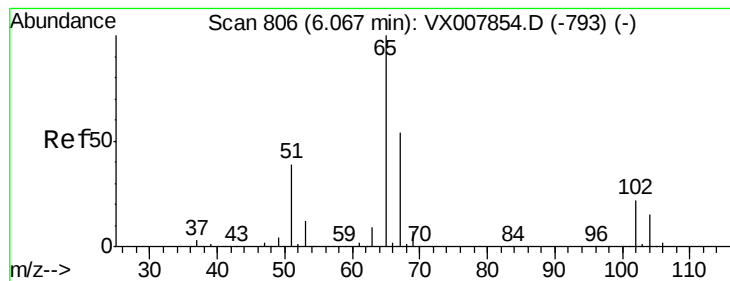
Tot Ion: 84 Resp: 578
Ion Ratio Lower Upper
84 100
49 91.1 99.3 148.9#
51 53.2 31.3 46.9#
86 65.7 52.6 79.0



#31
Cyclohexane
Concen: 0.931 ug/l
RT: 5.67 min Scan# 741
Delta R.T. 0.10 min
Lab File: VX007999.D
Acq: 12 Mar 2019 07:08

Tgt Ion: 56 Resp: 3667
Ion Ratio Lower Upper
56 100
69 178.0 24.0 36.0#
84 148.6 65.3 97.9#





#33

1,2-Dichloroethane-d4

Concen: 51.377 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007999.D

Acq: 12 Mar 2019 07:08

Instrument :

MSVOA_X

ClientSampleId :

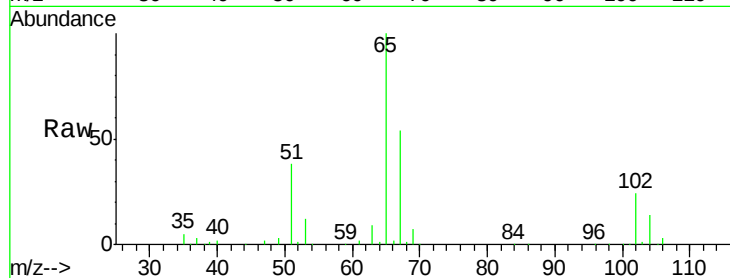
CPA-CPMW11D-M20W2-030519

Tot Ion: 65 Resp: 131637

Ion Ratio Lower Upper

65 100

67 55.4 0.0 110.0



Abundance Ion 64.90 (64.60 to 65.60): VX007854.D (-793) (-)

Ion 66.90 (66.60 to 67.60): VX007854.D (-793) (-)

6.07

50000

40000

30000

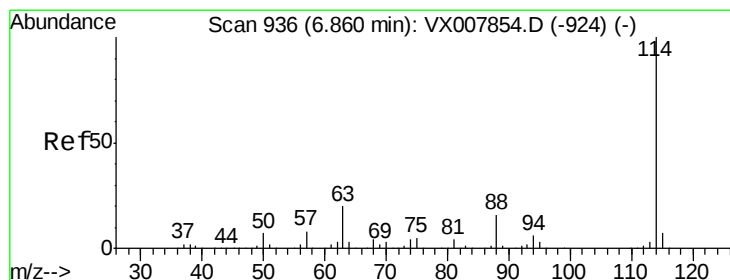
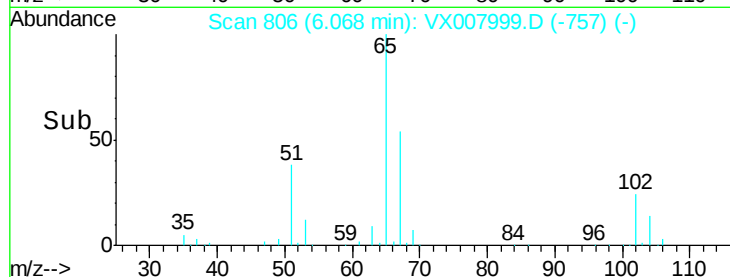
20000

10000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007999.D

Acq: 12 Mar 2019 07:08

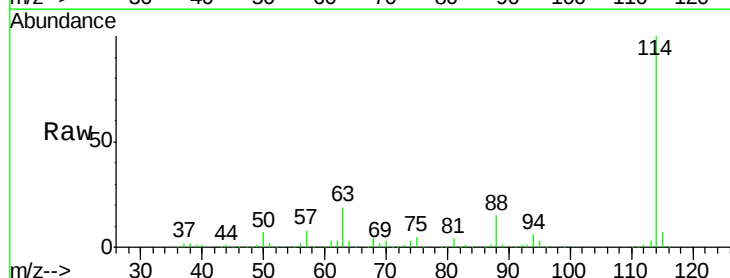
Tgt Ion: 114 Resp: 379934

Ion Ratio Lower Upper

114 100

63 19.3 0.0 39.8

88 15.0 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): VX007854.D (-924) (-)

Ion 63.00 (62.70 to 63.70): VX007854.D (-924) (-)

Ion 87.90 (87.60 to 88.60): VX007854.D (-924) (-)

6.86

200000

150000

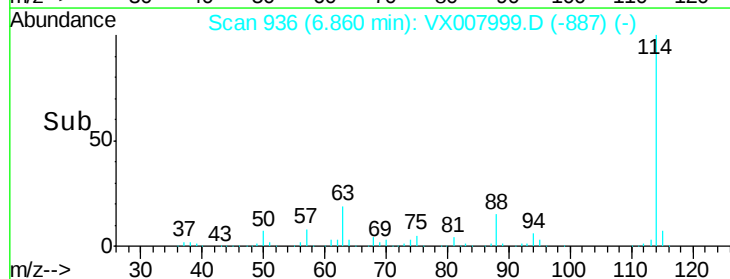
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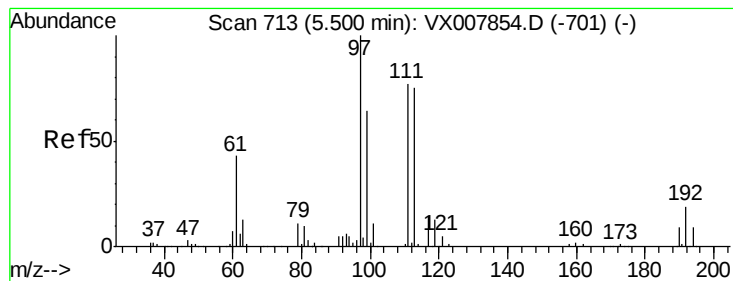
50000

0

Time-->

6.80 7.00





#35

Dibromofluoromethane

Concen: 50.740 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX007999.D

Acq: 12 Mar 2019 07:08

Instrument :

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ClientSampleId :

CPA-CPMW11D-M20W2-030519

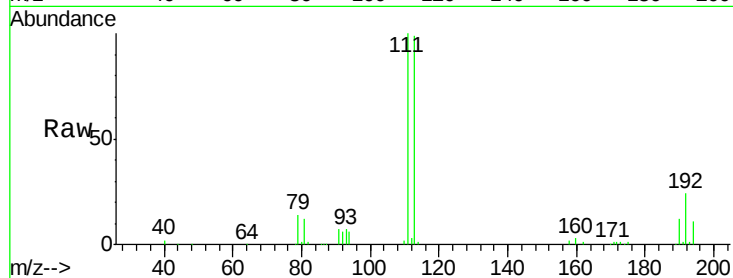
Tot Ion:113 Resp: 123313

Ion Ratio Lower Upper

113 100

111 102.1 81.4 122.0

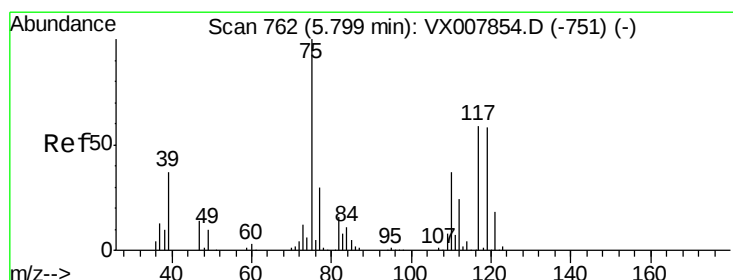
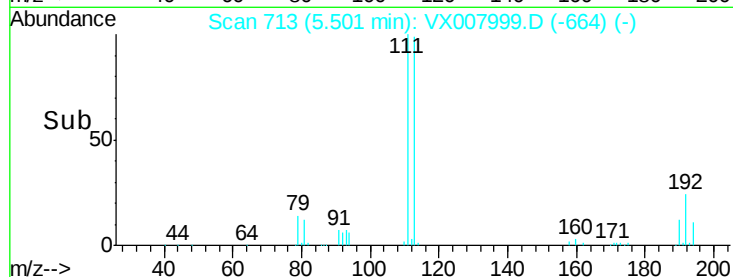
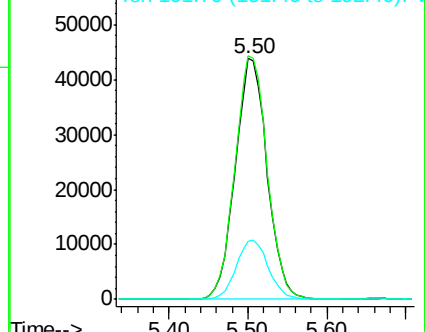
192 24.7 19.4 29.0



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: 4.360 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007999.D

Acq: 12 Mar 2019 07:08

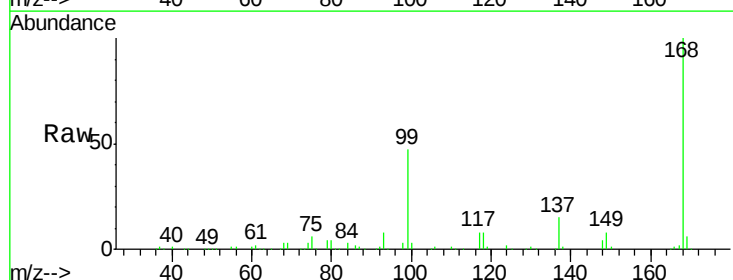
Tgt Ion: 75 Resp: 14999

Ion Ratio Lower Upper

75 100

110 9.4 18.4 55.0#

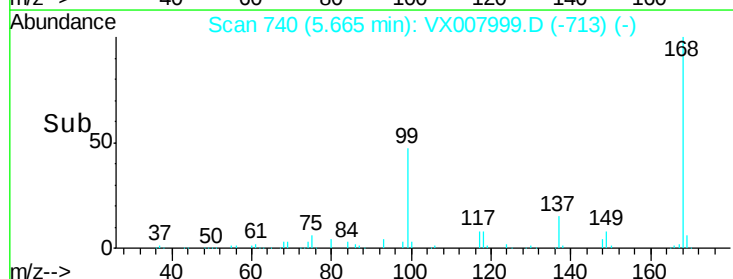
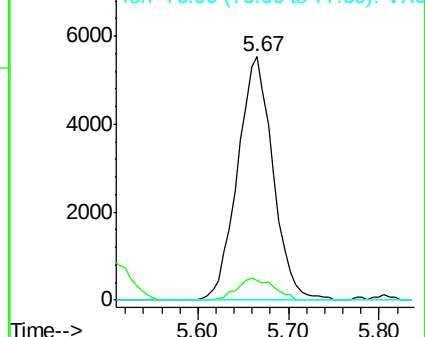
77 0.0 25.0 37.4#

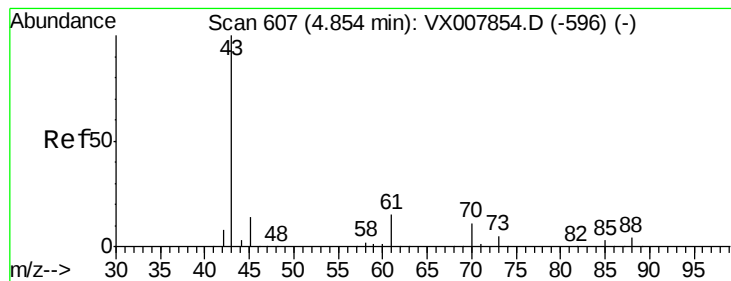


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#37

Ethyl Acetate

Concen: 0.745 ug/l

RT: 4.86 min Scan# 608

Delta R.T. 0.01 min

Lab File: VX007999.D

Acq: 12 Mar 2019 07:08

Instrument :

MSVOA_X

ClientSampleID :

CPA-CPMW11D-M20W2-030519

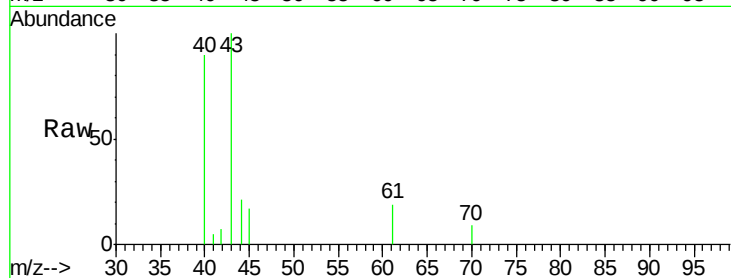
Tot Ion: 43 Resp: 3042

Ion Ratio Lower Upper

43 100

61 14.4 11.3 16.9

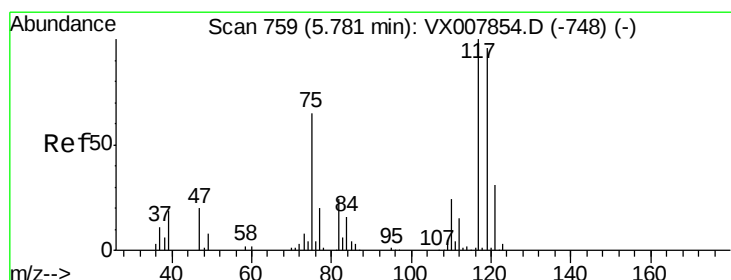
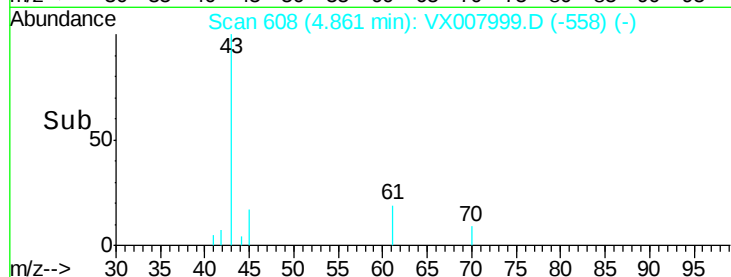
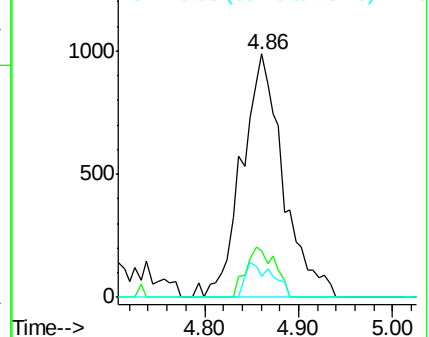
70 9.3 8.5 12.7



Abundance Ion 43.00 (42.70 to 43.70): VX007854.D (-596) (-)

Ion 60.90 (60.60 to 61.60): VX007854.D (-596) (-)

Ion 70.00 (69.70 to 70.70): VX007854.D (-596) (-)



#38

Carbon Tetrachloride

Concen: 6.311 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007999.D

Acq: 12 Mar 2019 07:08

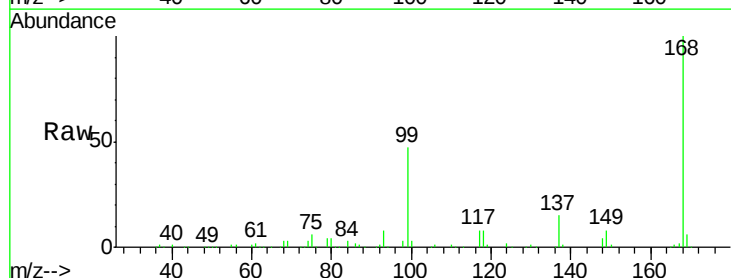
Tgt Ion: 117 Resp: 20612

Ion Ratio Lower Upper

117 100

119 6.7 76.2 114.2#

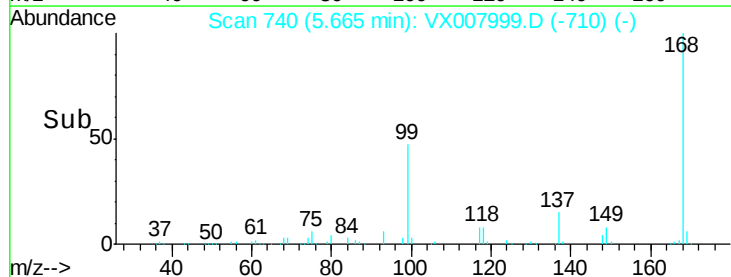
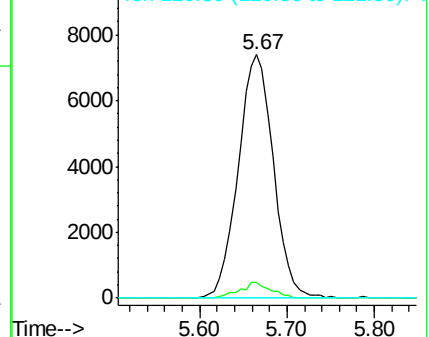
121 0.0 24.6 36.8#

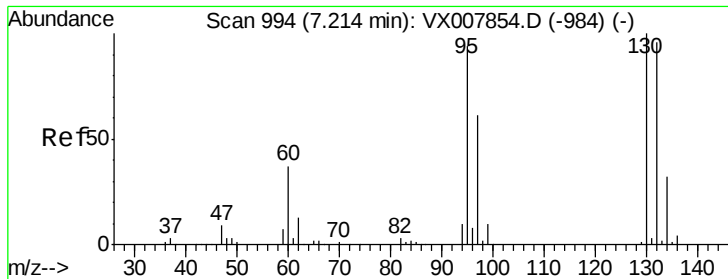


Abundance Ion 116.80 (116.50 to 117.50): VX007854.D (-748) (-)

Ion 118.80 (118.50 to 119.50): VX007854.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX007854.D (-748) (-)

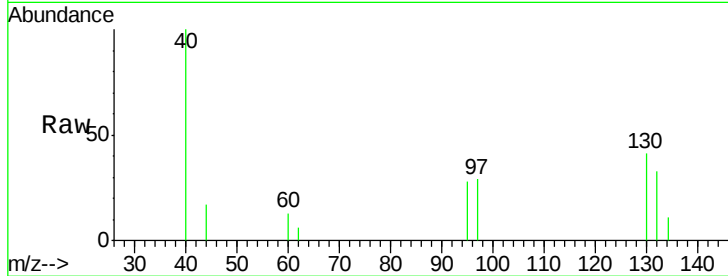




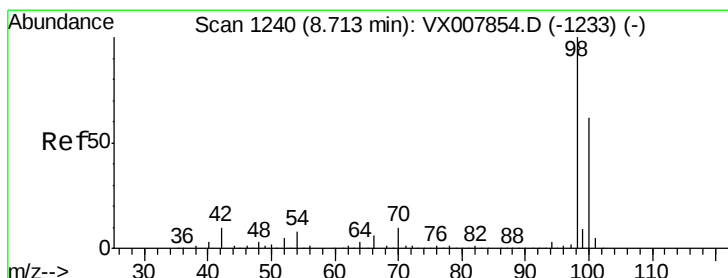
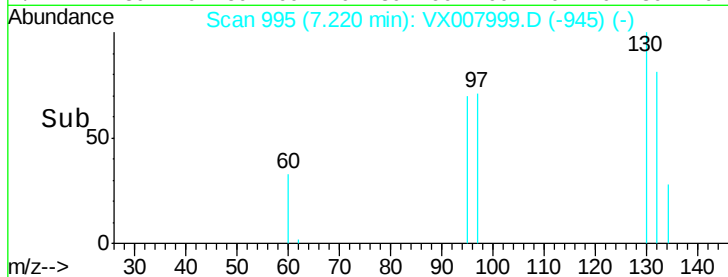
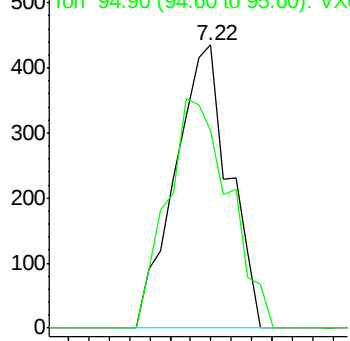
#44
 Trichloroethene
 Concen: 0.285 ug/l
 RT: 7.22 min Scan# 995
 Delta R.T. 0.01 min
 Lab File: VX007999.D
 Acq: 12 Mar 2019 07:08

Instrument :
 MSVOA_X
 ClientSampleId :
 CPA-CPMW11D-M20W2-030519

Tot Ion:130 Resp: 803
 Ion Ratio Lower Upper
 130 100
 95 69.7 0.0 188.0

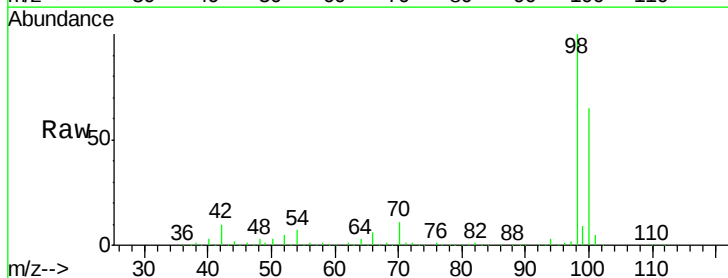


Abundance Ion 129.80 (129.50 to 130.50): V

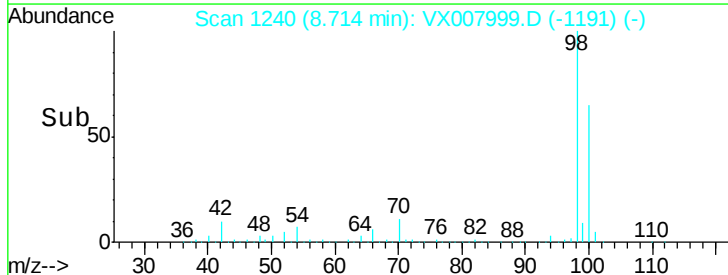
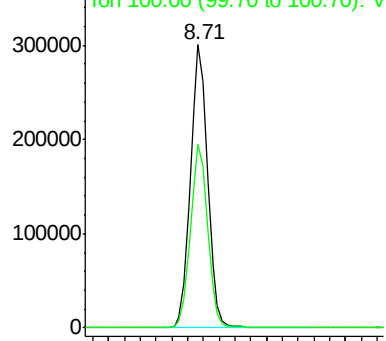


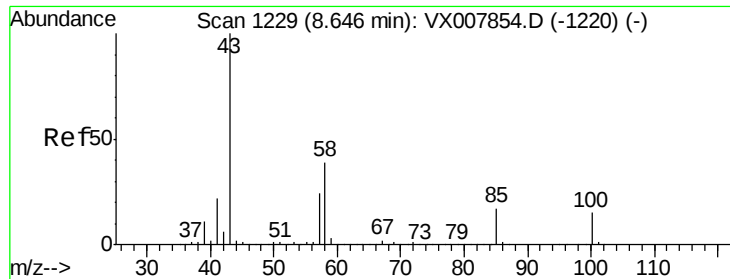
#50
 Toluene-d8
 Concen: 51.482 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. 0.00 min
 Lab File: VX007999.D
 Acq: 12 Mar 2019 07:08

Tgt Ion: 98 Resp: 459500
 Ion Ratio Lower Upper
 98 100
 100 65.0 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

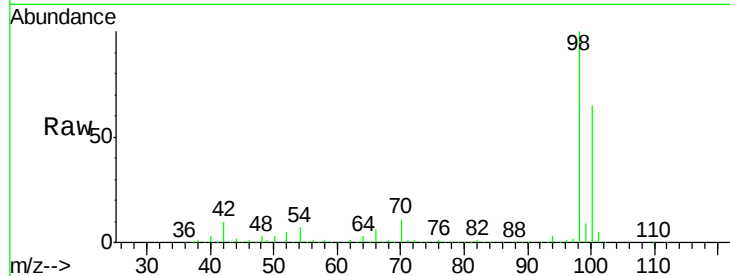




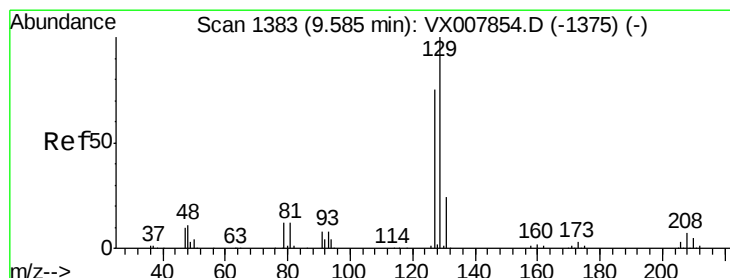
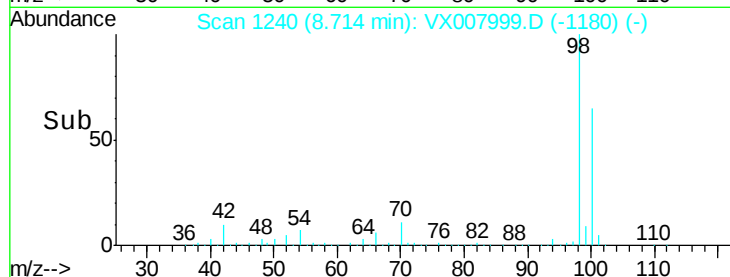
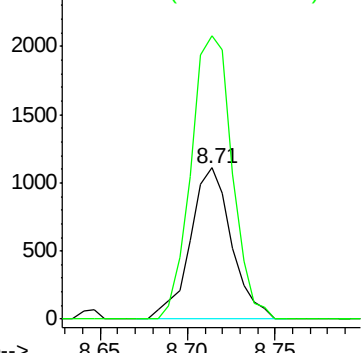
#51
4-Methyl-2-Pentanone
Concen: 0.469 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.07 min
Lab File: VX007999.D
Acq: 12 Mar 2019 07:08

Instrument :
MSVOA_X
ClientSampleId :
CPA-CPMW11D-M20W2-030519

Tot Ion: 43 Resp: 1822
Ion Ratio Lower Upper
43 100
58 186.3 31.3 46.9#

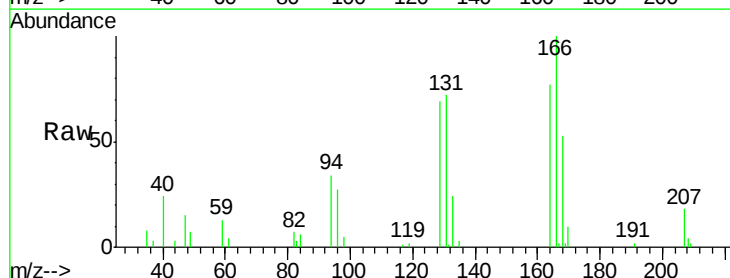


Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

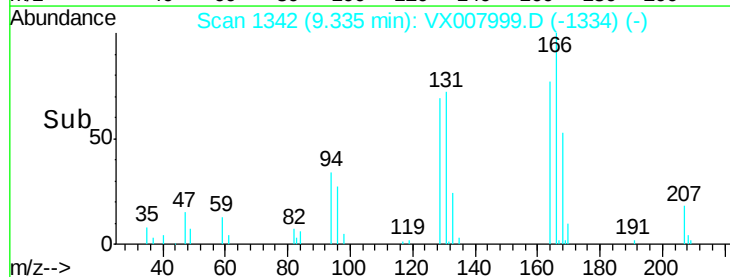
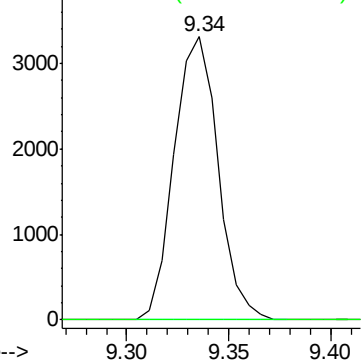


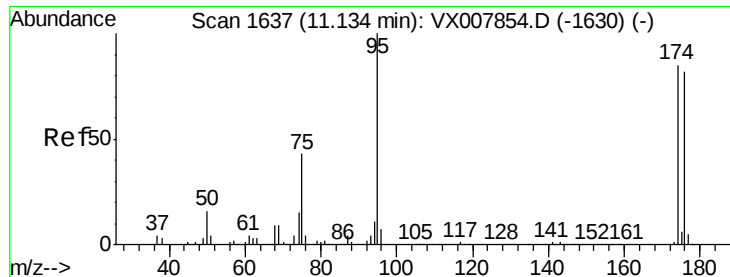
#60
Dibromochloromethane
Concen: 1.867 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.25 min
Lab File: VX007999.D
Acq: 12 Mar 2019 07:08

Tgt Ion: 129 Resp: 4940
Ion Ratio Lower Upper
129 100
127 0.0 38.3 114.8#



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 53.137 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007999.D

Acq: 12 Mar 2019 07:08

Instrument :

MSVOA_X

ClientSampleId :

CPA-CPMW11D-M20W2-030519

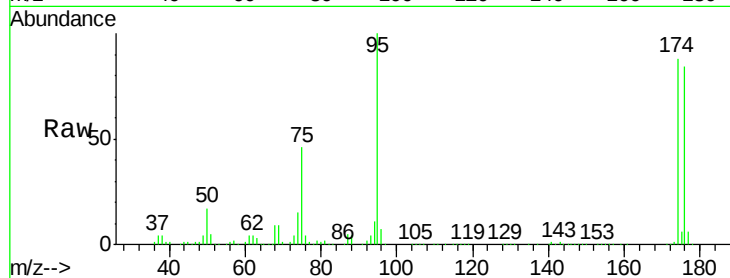
Tot Ion: 95 Resp: 166281

Ion Ratio Lower Upper

95 100

174 93.4 0.0 182.8

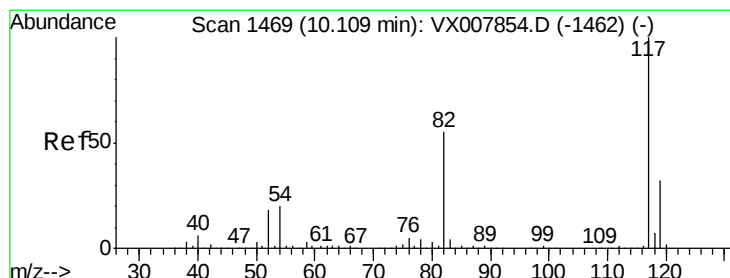
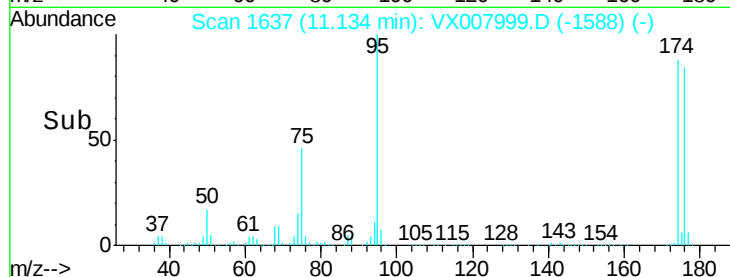
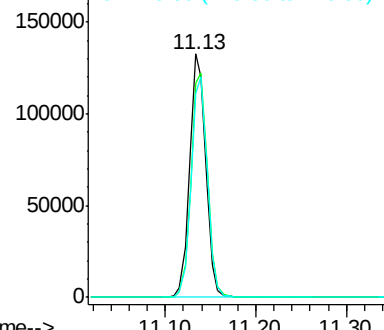
176 90.7 0.0 178.0



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: VX007999.D

Acq: 12 Mar 2019 07:08

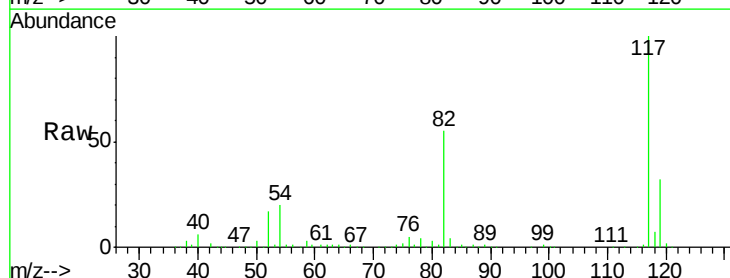
Tgt Ion: 117 Resp: 358513

Ion Ratio Lower Upper

117 100

82 54.7 44.3 66.5

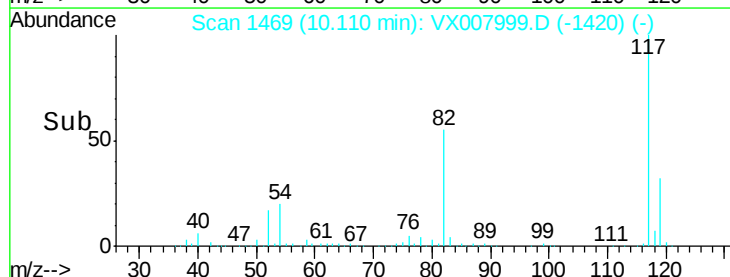
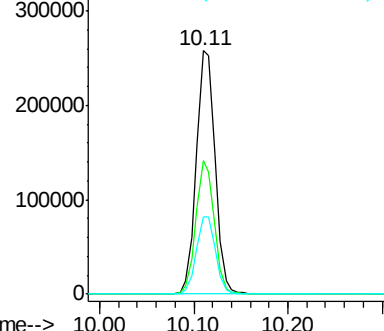
119 31.6 25.3 37.9

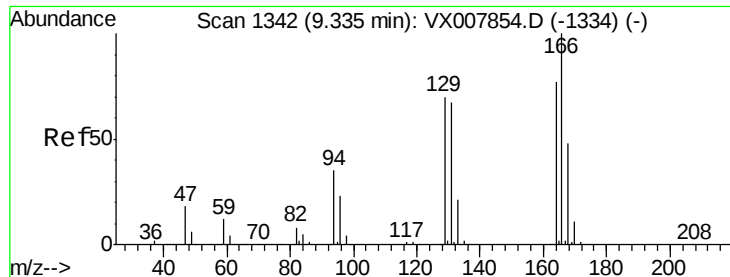


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 1.858 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX007999.D

Acq: 12 Mar 2019 07:08

Instrument :

MSVOA_X

ClientSampleId :

CPA-CPMW11D-M20W2-030519

Tot Ion:164 Resp: 5521

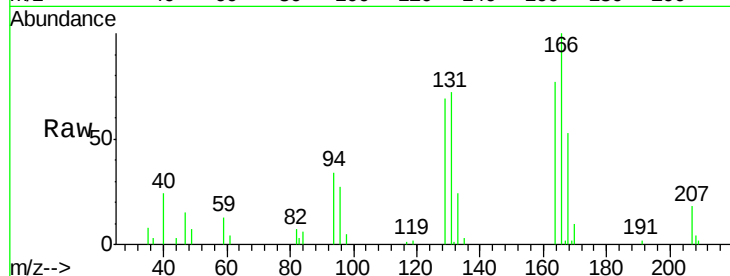
Ion Ratio Lower Upper

164 100

166 130.3 103.4 155.0

129 90.0 72.2 108.4

131 93.4 69.4 104.2

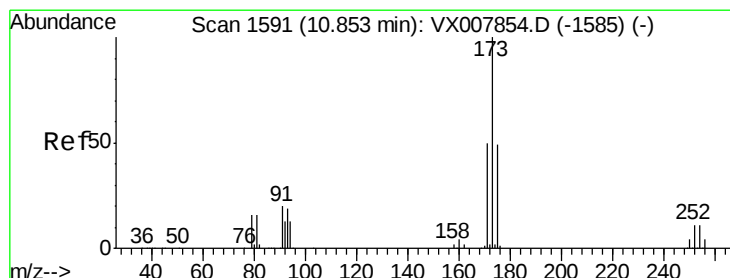
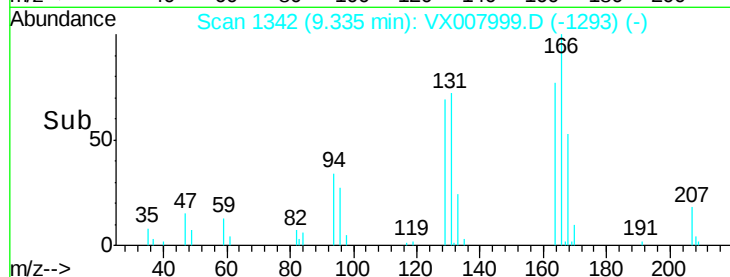
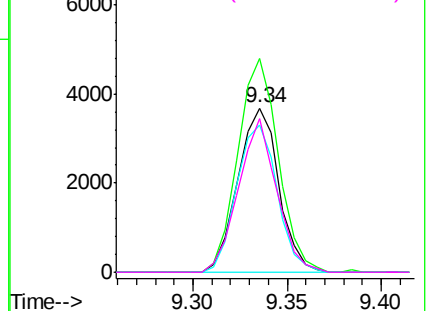


Abundance Ion 163.80 (163.50 to 164.50): V

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



#71

Bromoform

Concen: 0.201 ug/l

RT: 10.86 min Scan# 1592

Delta R.T. 0.01 min

Lab File: VX007999.D

Acq: 12 Mar 2019 07:08

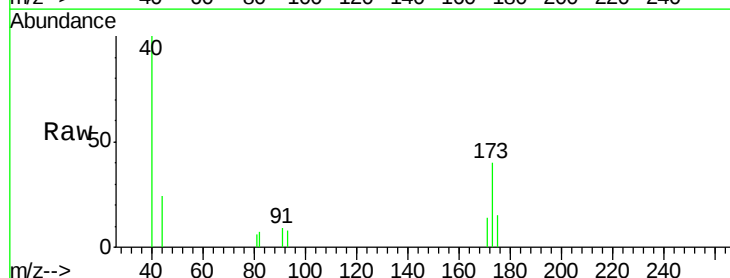
Tgt Ion:173 Resp: 465

Ion Ratio Lower Upper

173 100

175 0.0 24.3 72.9#

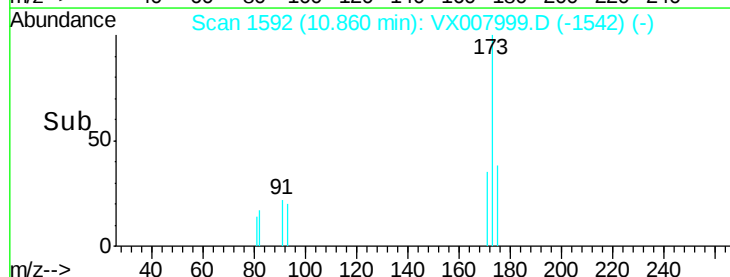
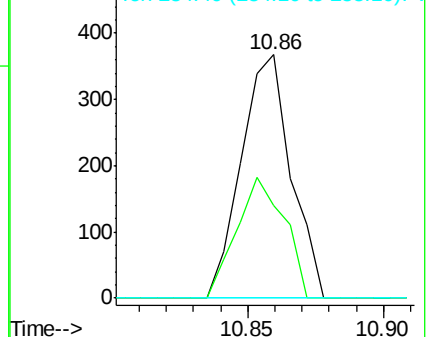
254 0.0 0.1 0.1#

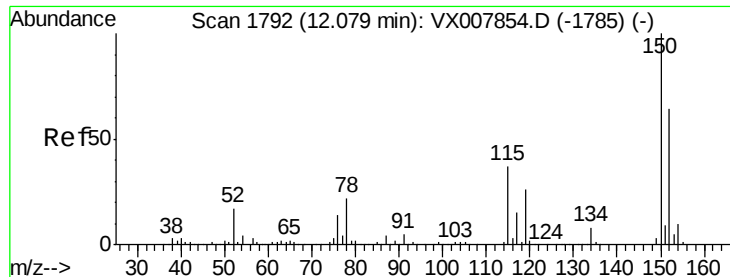


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VX007999.D

Acq: 12 Mar 2019 07:08

Instrument :

MSVOA_X

ClientSampleId :

CPA-CPMW11D-M20W2-030519

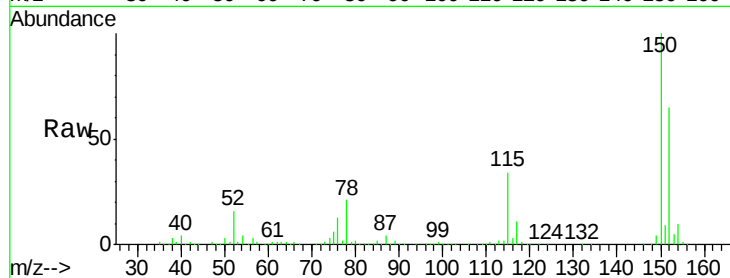
Tot Ion:152 Resp: 172095

Ion Ratio Lower Upper

152 100

115 55.0 38.6 115.7

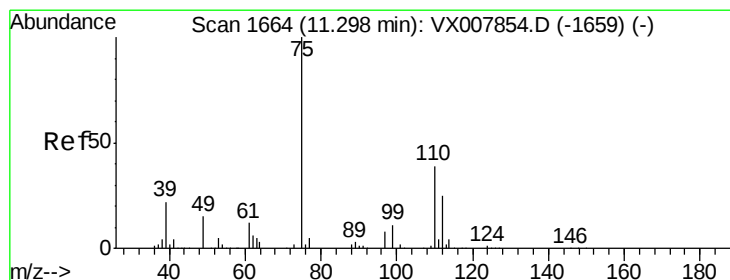
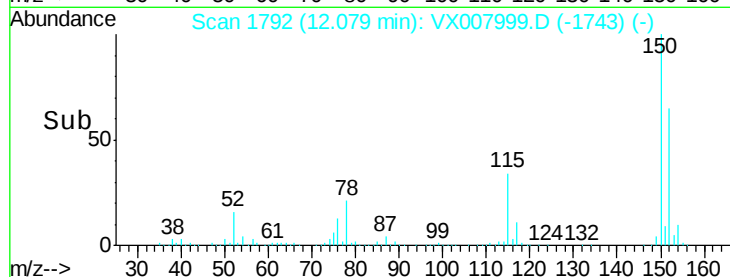
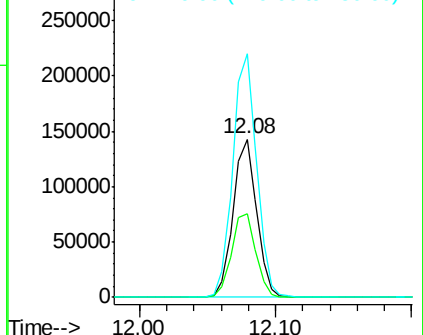
150 156.3 0.0 348.4



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: 20.959 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007999.D

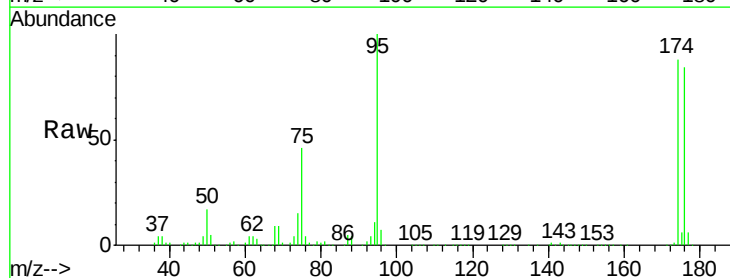
Acq: 12 Mar 2019 07:08

Tgt Ion: 75 Resp: 75690

Ion Ratio Lower Upper

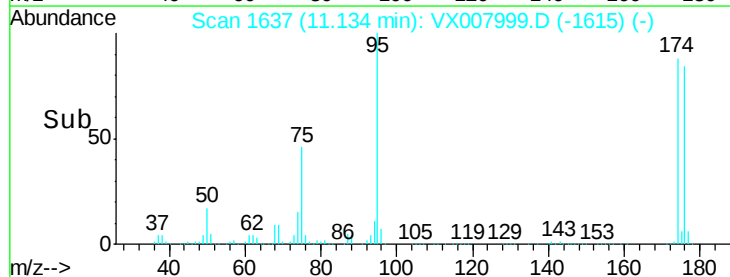
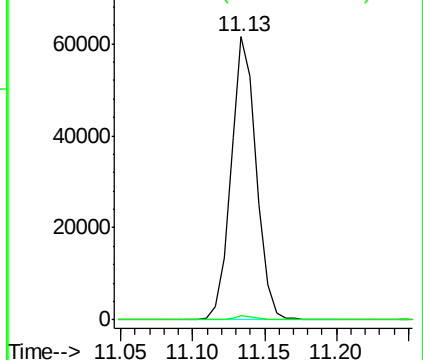
75 100

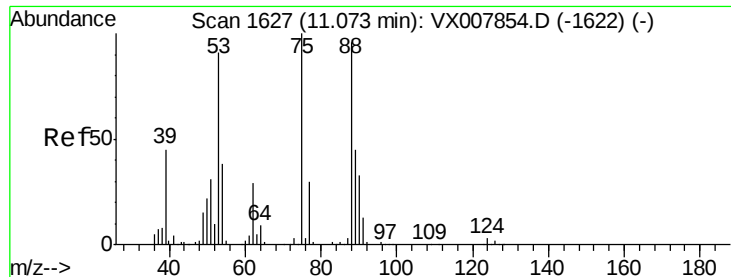
77 1.3 18.9 56.7#



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: 66.997 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007999.D

Acq: 12 Mar 2019 07:08

Instrument :

MSVOA_X

ClientSampleId :

CPA-CPMW11D-M20W2-030519

Tot Ion: 75 Resp: 75690

Ion Ratio Lower Upper

75 100

53 0.1 76.1 114.1#

89 0.0 36.3 54.5#

