

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031419\
 Data File : VX008084.D
 Acq On : 14 Mar 2019 22:00
 Operator : JC/SP
 Sample : K1829-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CPA-CPMW09S-M20W2-030519

Quant Time: Mar 15 04:29:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X031419W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 15 03:56:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	318452	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	493176	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	466718	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	234045	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	159263	49.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.16%	
35) Dibromofluoromethane	5.51	113	154385	49.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.72%	
50) Toluene-d8	8.71	98	588977	49.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.04%	
62) 4-Bromofluorobenzene	11.13	95	219839	51.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.18%	

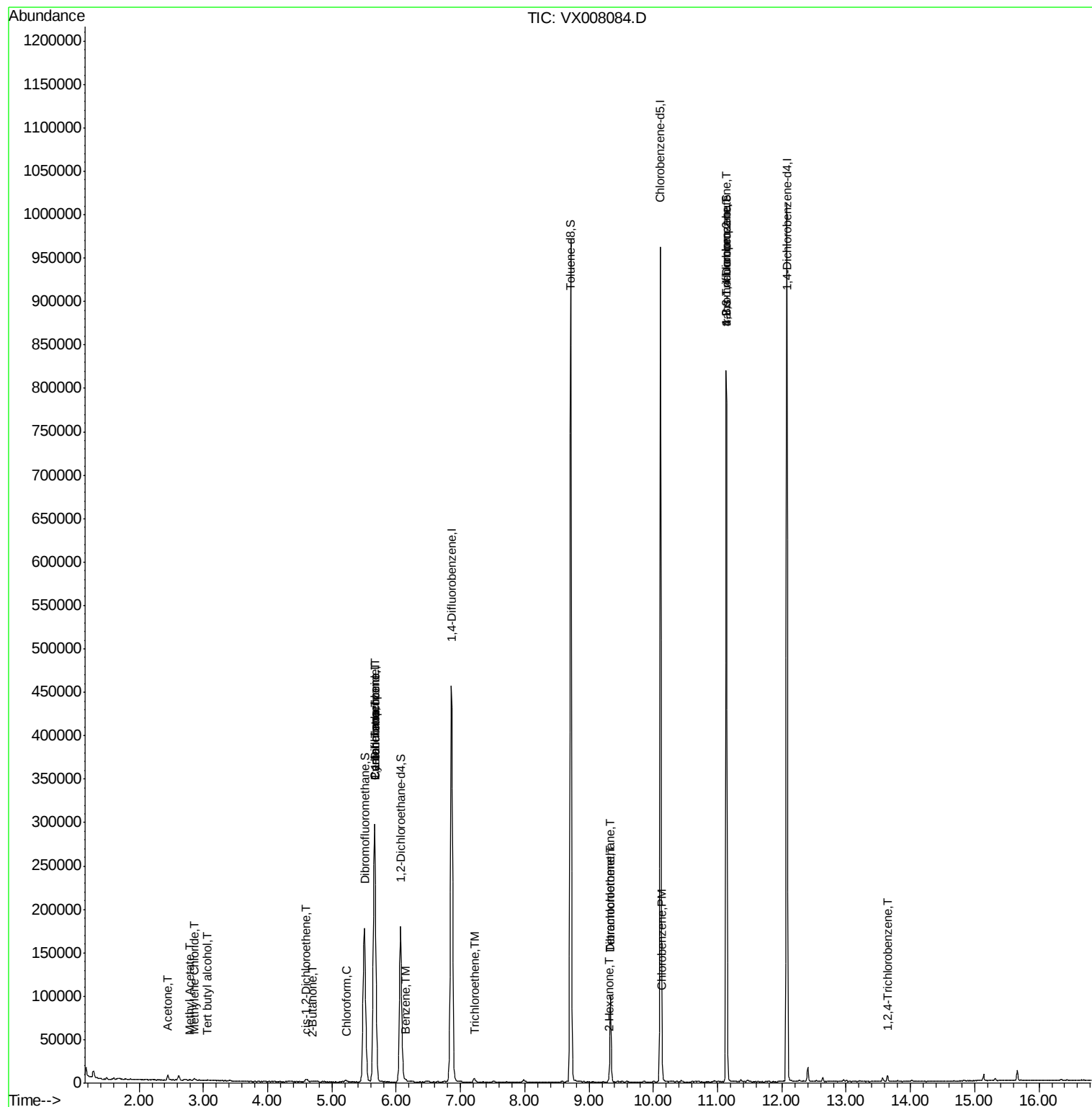
Target Compounds			Qvalue			
5) Bromomethane	1.66	94	354	Below Cal	#	78
6) Chloroethane	1.67	64	261	Below Cal		98
11) Tert butyl alcohol	3.07	59	1250	2.014	ug/l #	73
16) Acetone	2.45	43	6117	4.033	ug/l	97
18) Methyl Acetate	2.78	43	786	0.240	ug/l	99
20) Methylene Chloride	2.85	84	982	0.363	ug/l	87
25) 2-Butanone	4.70	43	1093	0.470	ug/l	98
27) cis-1,2-Dichloroethene	4.60	96	2382	0.766	ug/l	88
30) Chloroform	5.21	83	1982	0.406	ug/l	97
31) Cyclohexane	5.66	56	4402	0.958	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	18705	4.610	ug/l #	49
38) Carbon Tetrachloride	5.66	117	27007	6.916	ug/l #	16
40) Benzene	6.15	78	2740	0.220	ug/l	99
44) Trichloroethene	7.21	130	1693	0.472	ug/l	91
59) 2-Hexanone	9.30	43	1382	0.382	ug/l	71
60) Dibromochloromethane	9.34	129	18994	5.729	ug/l #	11
64) Tetrachloroethene	9.34	164	21092	5.578	ug/l	99
65) Chlorobenzene	10.14	112	4247	0.459	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	97571	24.005	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	97571	68.308	ug/l #	11
93) 1,2,4-Trichlorobenzene	13.65	180	1874	0.366	ug/l	94

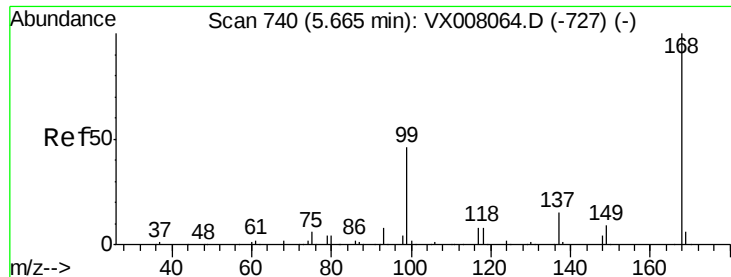
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX008084.D

Acq: 14 Mar 2019 22:00

Instrument :

MSVOA_X

ClientSampleId :

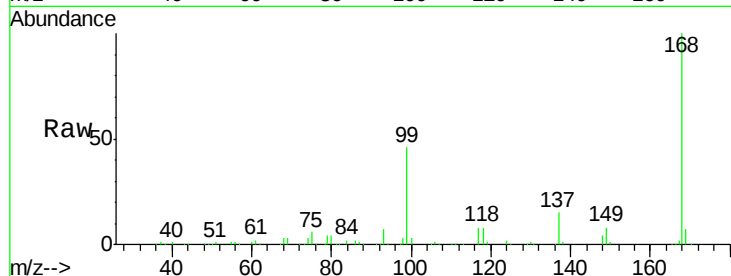
CPA-CPMW09S-M20W2-030519

Tot Ion:168 Resp: 318452

Ion Ratio Lower Upper

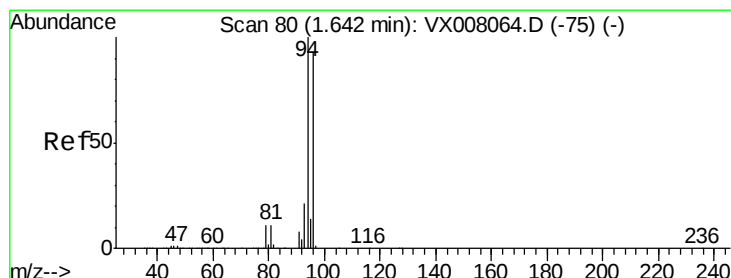
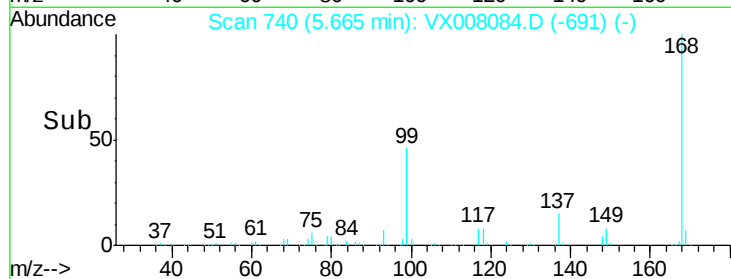
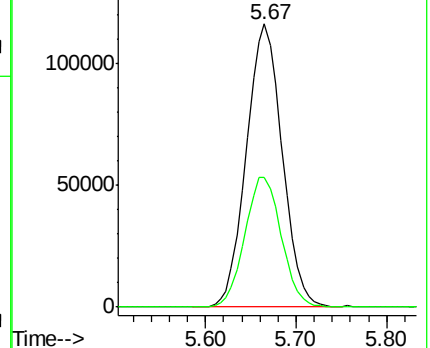
168 100

99 45.9 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX008084.D

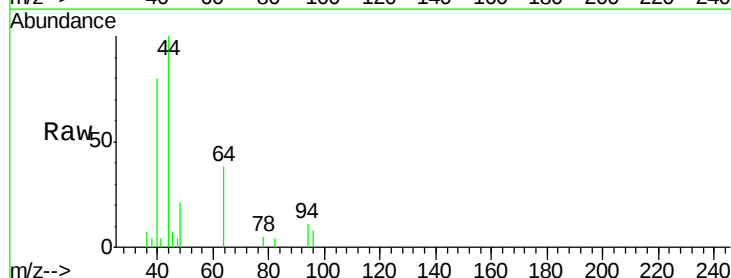
Acq: 14 Mar 2019 22:00

Tgt Ion: 94 Resp: 354

Ion Ratio Lower Upper

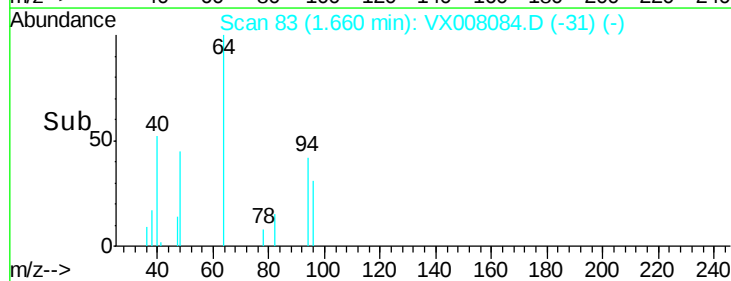
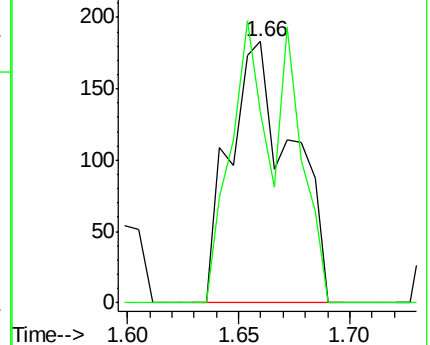
94 100

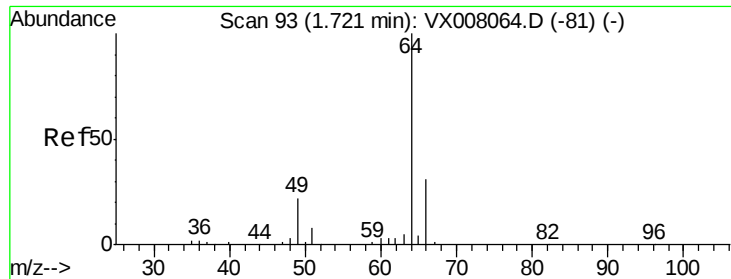
96 73.2 75.5 113.3#



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: 1.67 min Scan# 84

Delta R.T. -0.05 min

Lab File: VX008084.D

Acq: 14 Mar 2019 22:00

Instrument :

MSVOA_X

ClientSampleId :

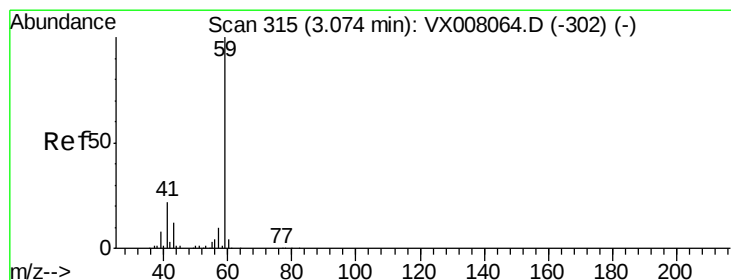
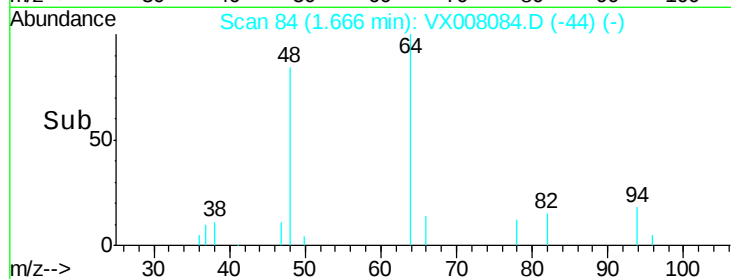
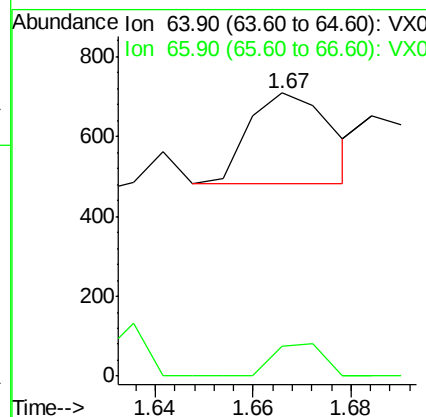
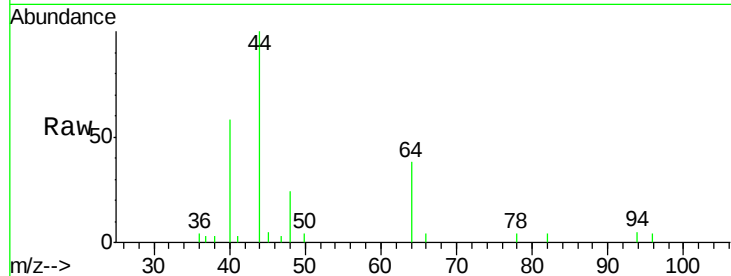
CPA-CPMW09S-M20W2-030519

Tot Ion: 64 Resp: 261

Ion Ratio Lower Upper

64 100

66 32.7 25.2 37.8



#11

Tert butyl alcohol

Concen: 2.014 ug/l

RT: 3.07 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX008084.D

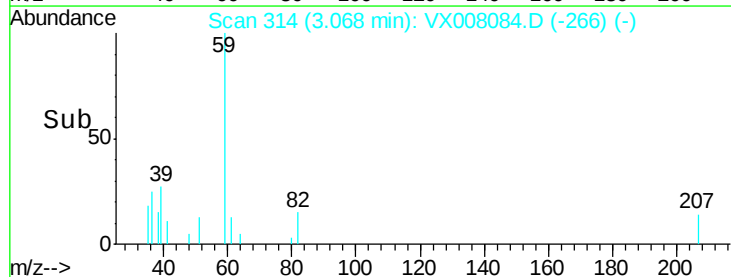
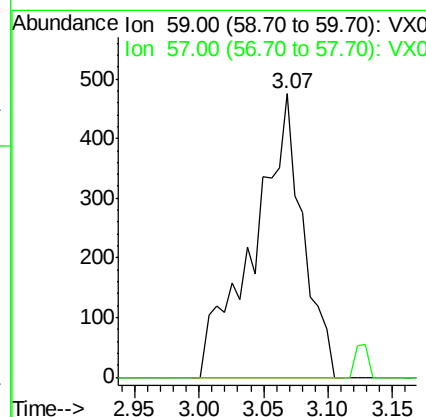
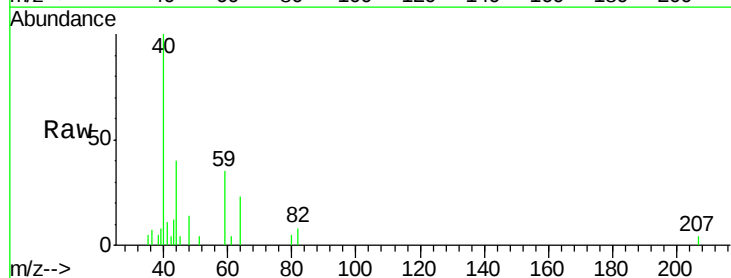
Acq: 14 Mar 2019 22:00

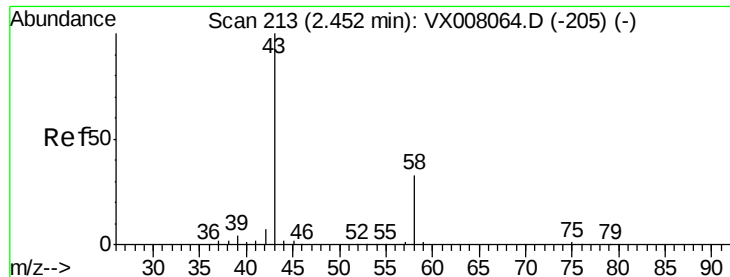
Tgt Ion: 59 Resp: 1250

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#





#16

Acetone

Concen: 4.033 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.01 min

Lab File: VX008084.D

Acq: 14 Mar 2019 22:00

Instrument :

MSVOA_X

ClientSampleId :

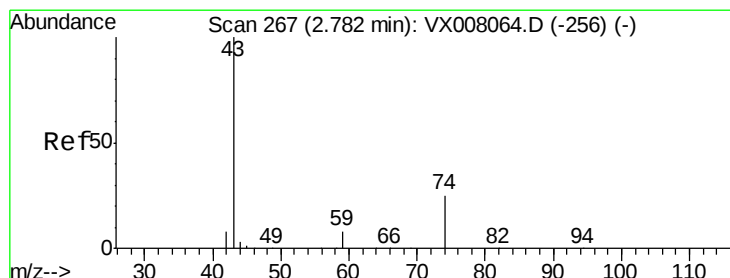
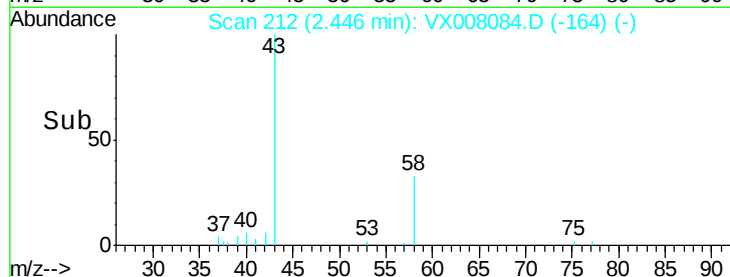
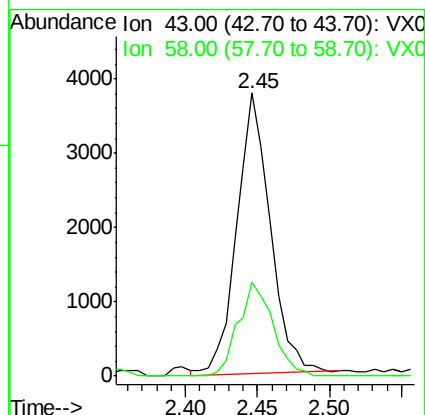
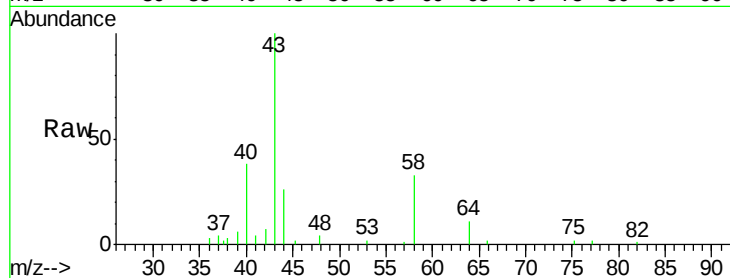
CPA-CPMW09S-M20W2-030519

Tot Ion: 43 Resp: 6117

Ion Ratio Lower Upper

43 100

58 33.6 25.5 38.3



#18

Methyl Acetate

Concen: 0.240 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX008084.D

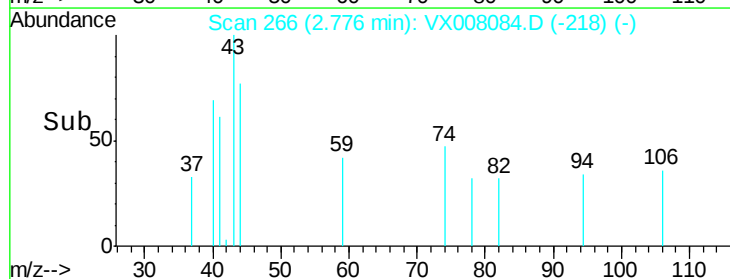
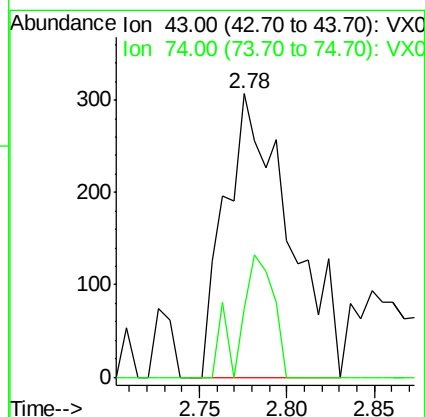
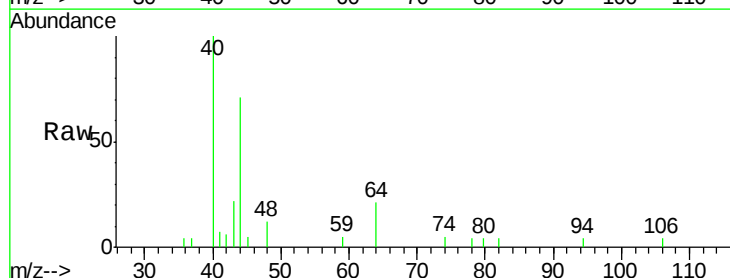
Acq: 14 Mar 2019 22:00

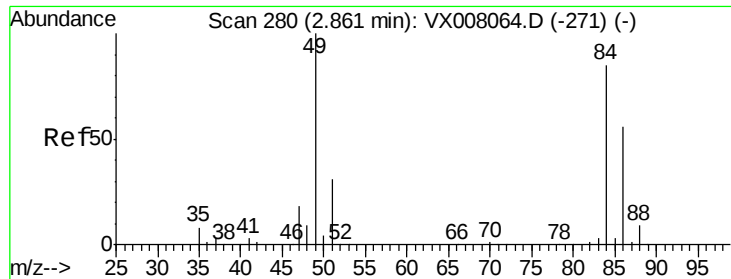
Tgt Ion: 43 Resp: 786

Ion Ratio Lower Upper

43 100

74 22.5 17.8 26.6

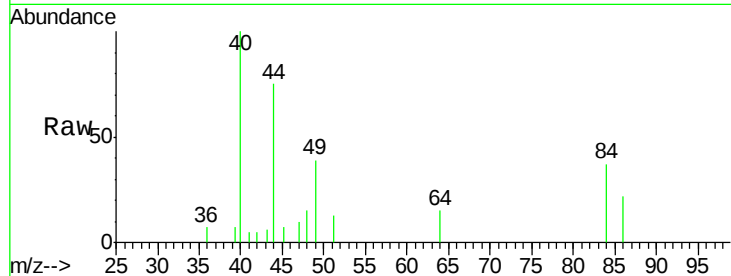




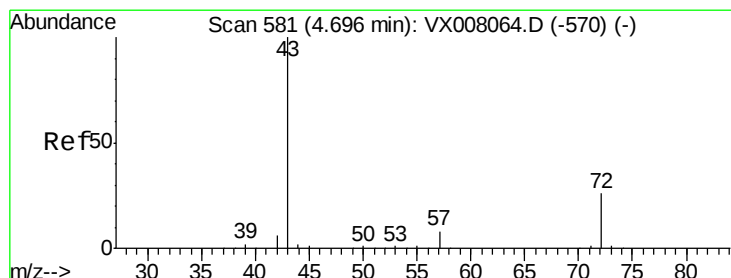
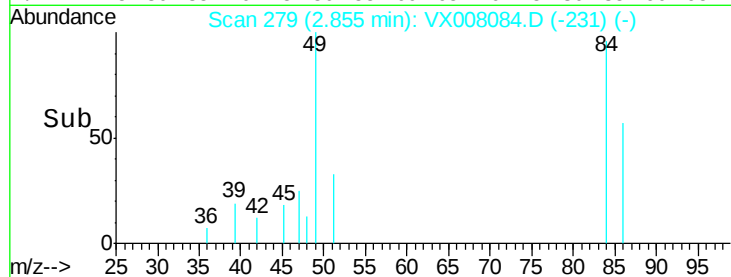
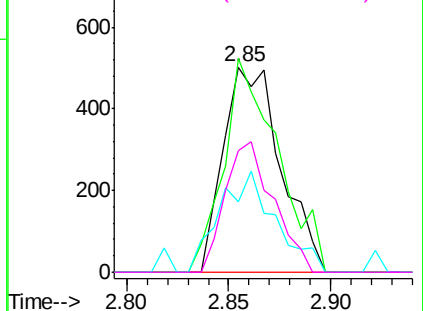
#20
Methvlene Chloride
Concen: 0.363 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX008084.D
Acq: 14 Mar 2019 22:00

Instrument :
MSVOA_X
ClientSampleId :
CPA-CPMW09S-M20W2-030519

Tot Ion:	84	Resp:	982
Ion	Ratio	Lower	Upper
84	100		
49	104.2	99.3	148.9
51	34.3	31.3	46.9
86	59.2	52.6	79.0

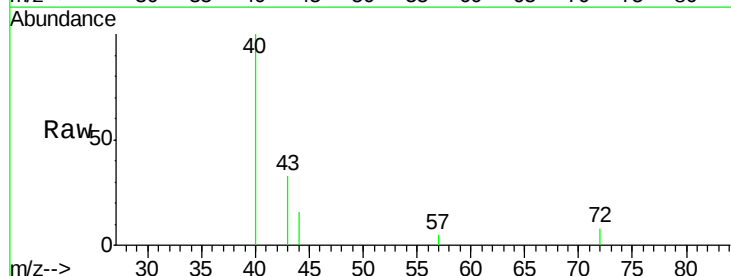


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

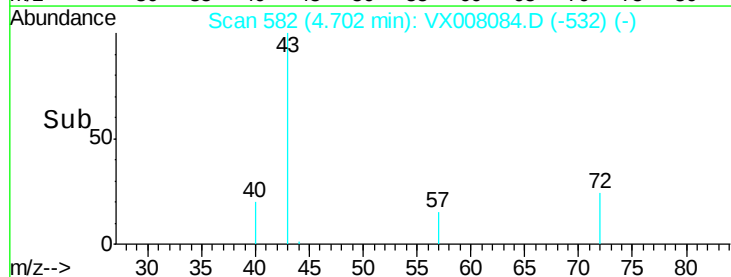
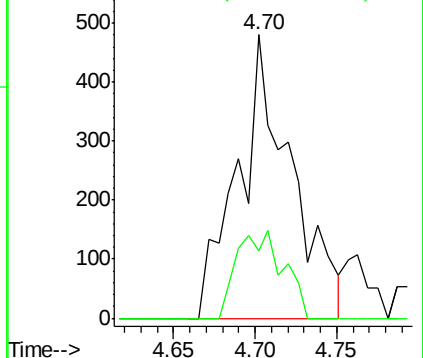


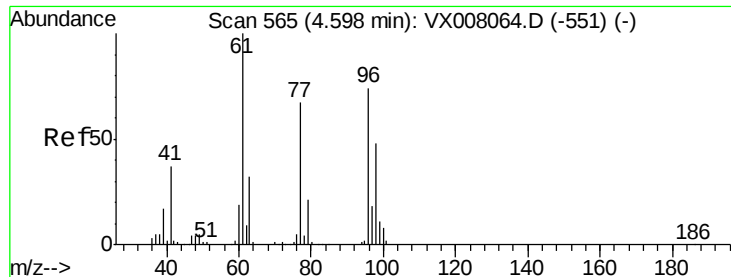
#25
2-Butanone
Concen: 0.470 ug/l
RT: 4.70 min Scan# 582
Delta R.T. 0.01 min
Lab File: VX008084.D
Acq: 14 Mar 2019 22:00

Tgt Ion:	43	Resp:	1093
Ion	Ratio	Lower	Upper
43	100		
72	24.0	19.9	29.9



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0





#27

cis-1,2-Dichloroethene

Concen: 0.766 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.00 min

Lab File: VX008084.D

Acq: 14 Mar 2019 22:00

Instrument :

MSVOA_X

ClientSampleId :

CPA-CPMW09S-M20W2-030519

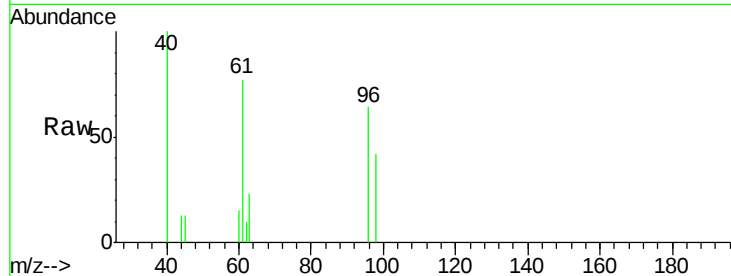
Tot Ion: 96 Resp: 2382

Ion Ratio Lower Upper

96 100

61 122.8 0.0 288.0

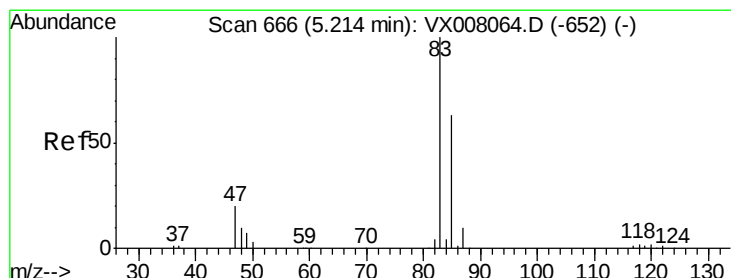
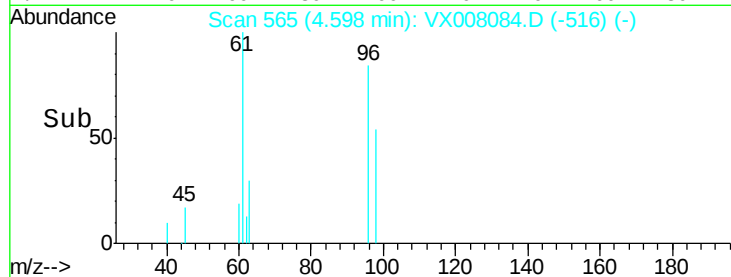
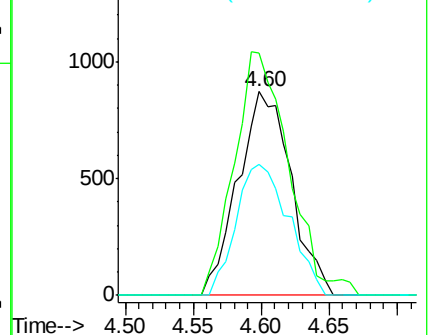
98 63.7 0.0 129.0



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



#30

Chloroform

Concen: 0.406 ug/l

RT: 5.21 min Scan# 666

Delta R.T. 0.00 min

Lab File: VX008084.D

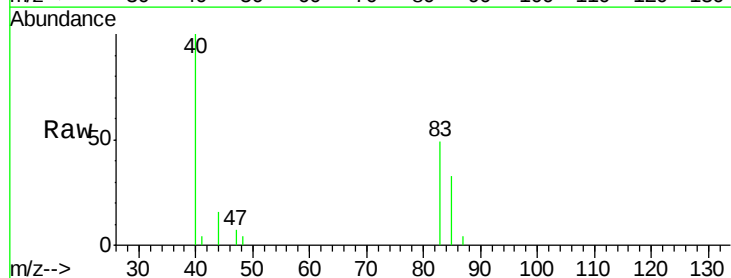
Acq: 14 Mar 2019 22:00

Tgt Ion: 83 Resp: 1982

Ion Ratio Lower Upper

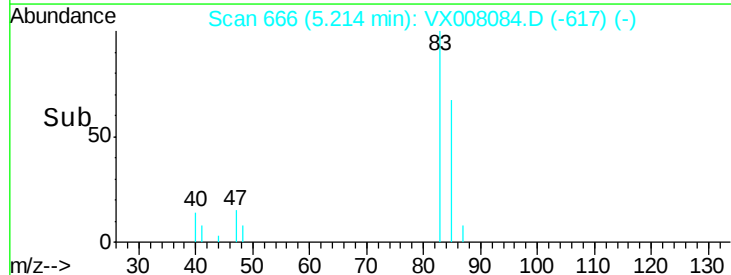
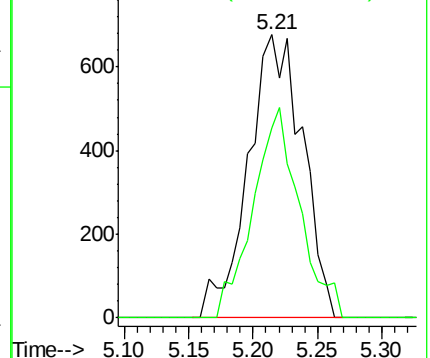
83 100

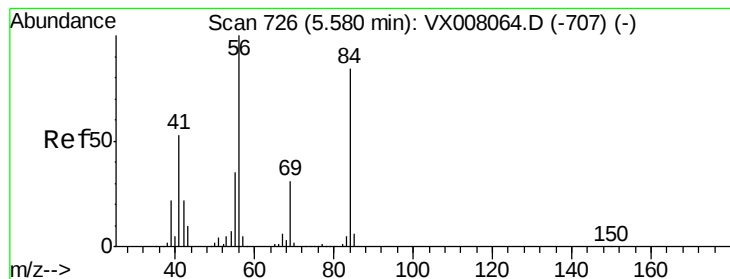
85 67.1 51.8 77.6



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0





#31

Cyclohexane

Concen: 0.958 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX008084.D

Acq: 14 Mar 2019 22:00

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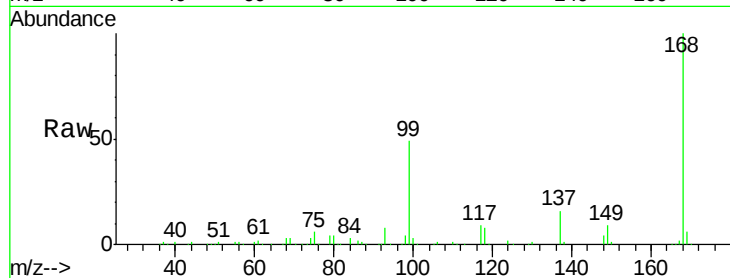
Tot Ion: 56 Resp: 4402

Ion Ratio Lower Upper

56 100

69 199.4 24.0 36.0#

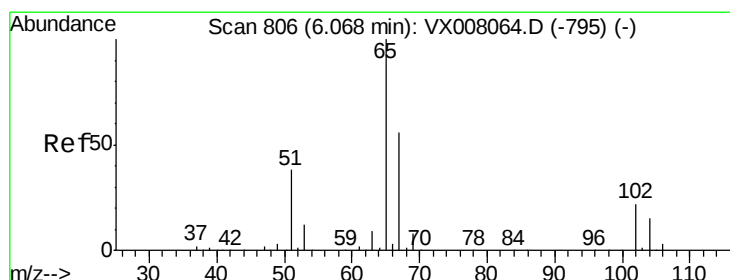
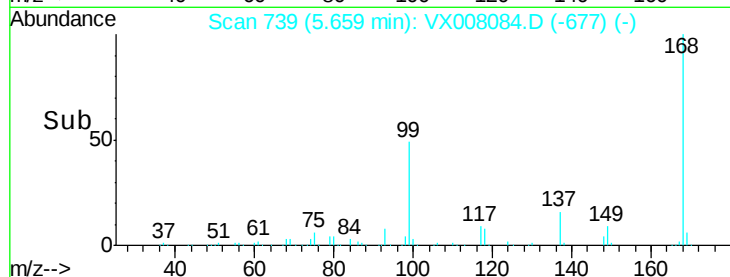
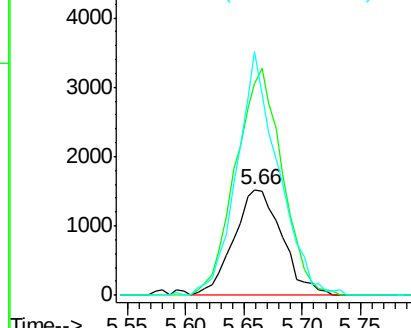
84 229.9 65.3 97.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 49.578 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX008084.D

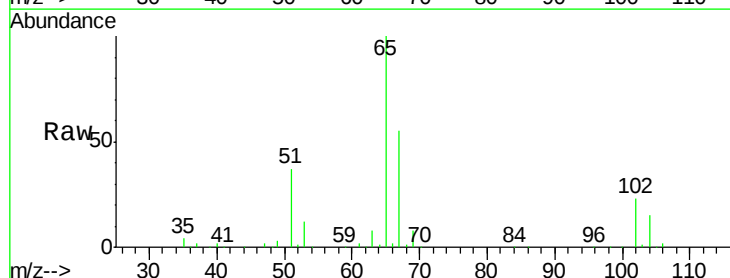
Acq: 14 Mar 2019 22:00

Tgt Ion: 65 Resp: 159263

Ion Ratio Lower Upper

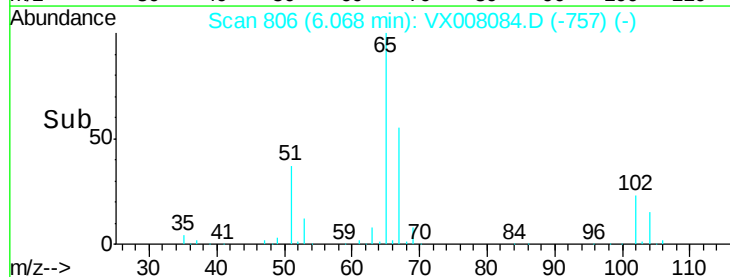
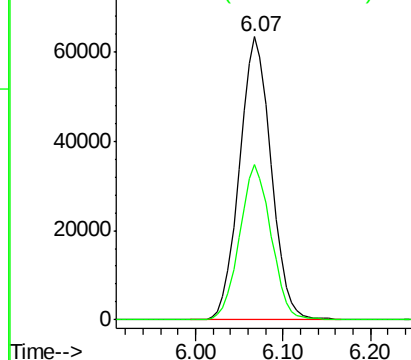
65 100

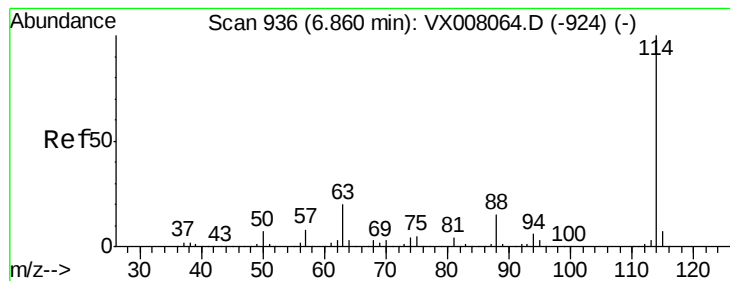
67 54.6 0.0 110.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX008084.D

Acq: 14 Mar 2019 22:00

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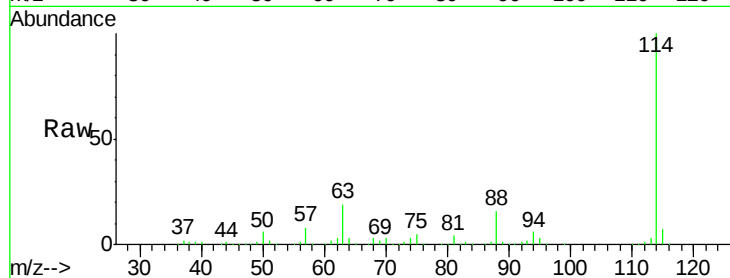
Tot Ion:114 Resp: 493176

Ion Ratio Lower Upper

114 100

63 18.5 0.0 39.8

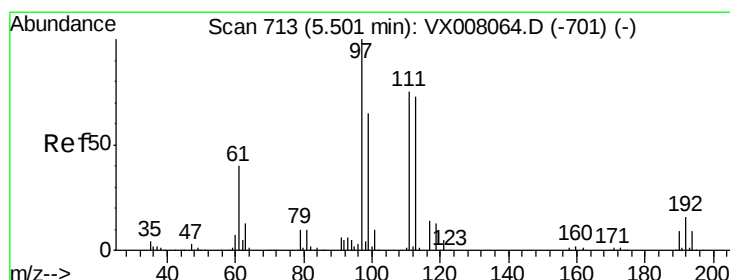
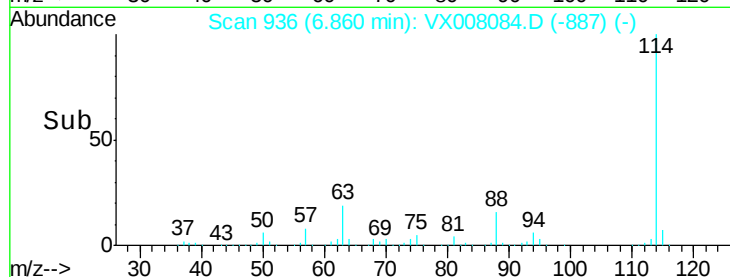
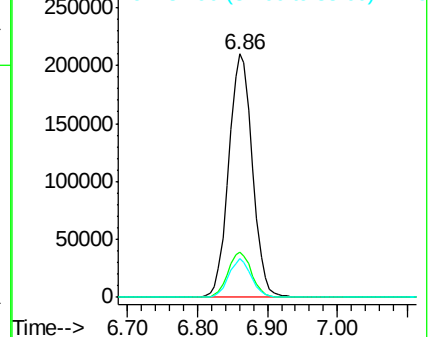
88 15.7 0.0 31.4



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: 49.364 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX008084.D

Acq: 14 Mar 2019 22:00

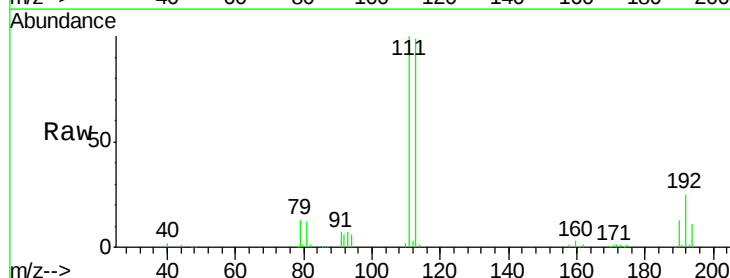
Tgt Ion:113 Resp: 154385

Ion Ratio Lower Upper

113 100

111 102.2 81.4 122.0

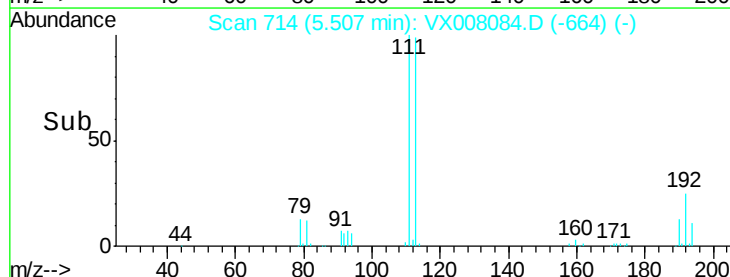
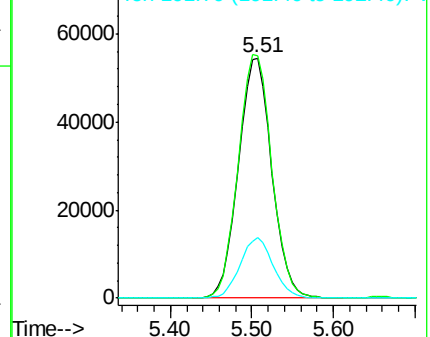
192 24.9 19.4 29.0

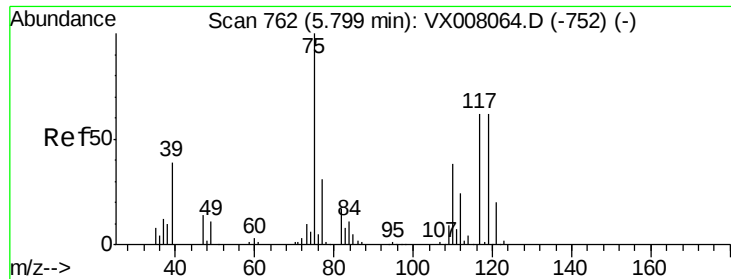


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.610 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX008084.D

Acq: 14 Mar 2019 22:00

Instrument :

MSVOA_X

ClientSampleId :

CPA-CPMW09S-M20W2-030519

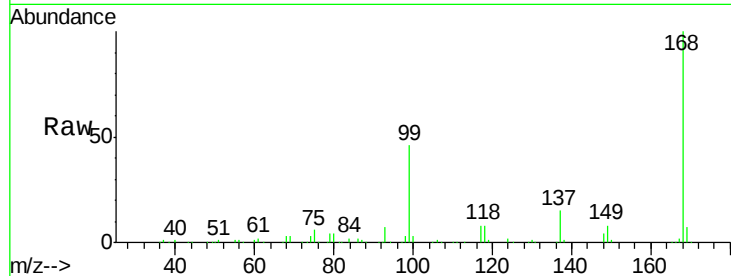
Tot Ion: 75 Resp: 18705

Ion Ratio Lower Upper

75 100

110 9.5 18.4 55.0#

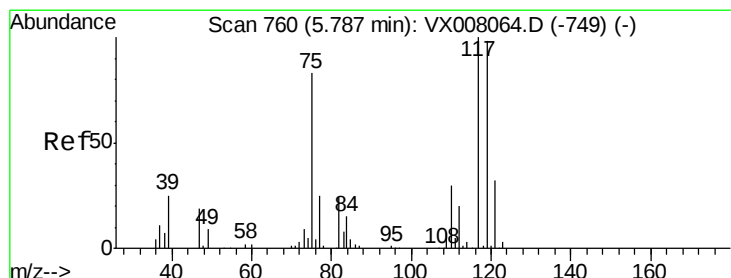
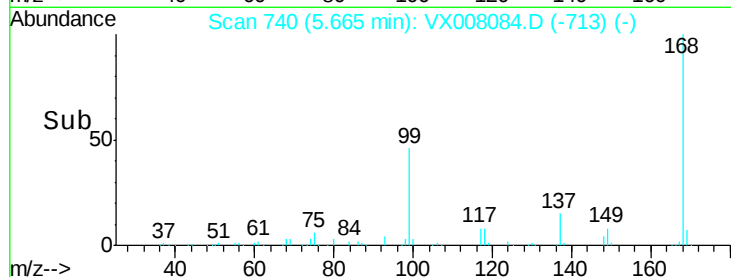
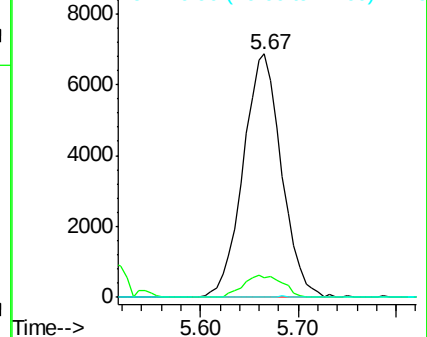
77 0.0 25.0 37.4#



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



#38

Carbon Tetrachloride

Concen: 6.916 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008084.D

Acq: 14 Mar 2019 22:00

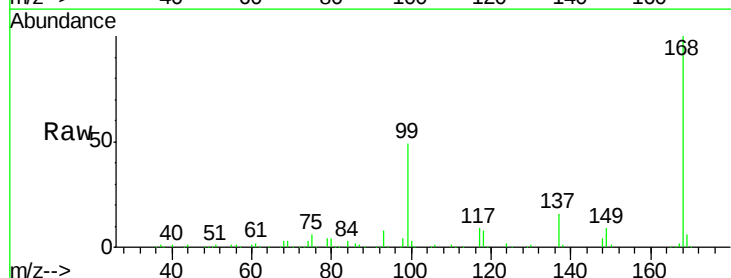
Tgt Ion: 117 Resp: 27007

Ion Ratio Lower Upper

117 100

119 4.8 76.2 114.2#

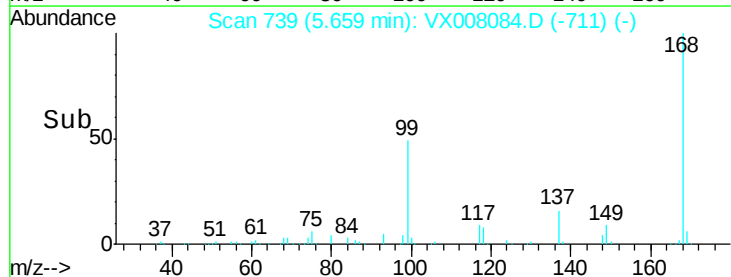
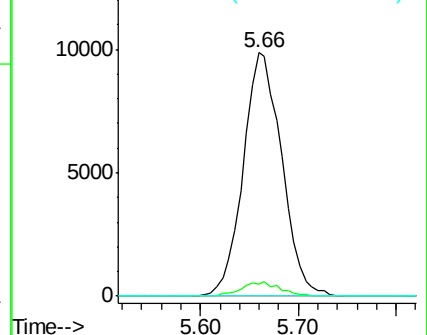
121 0.0 24.6 36.8#

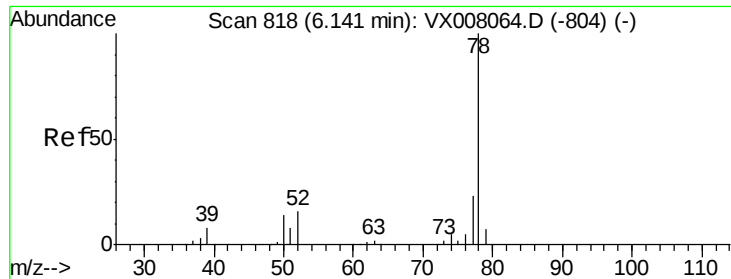


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#40

Benzene

Concen: 0.220 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX008084.D

Acq: 14 Mar 2019 22:00

Instrument :

MSVOA_X

ClientSampleId :

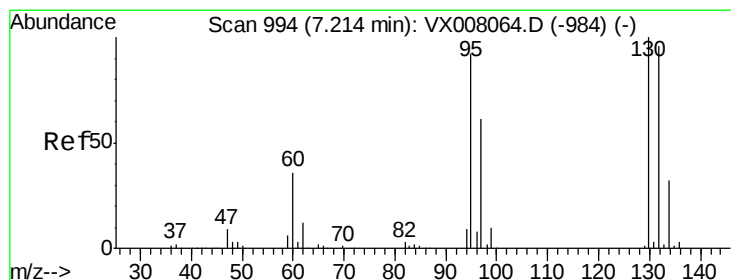
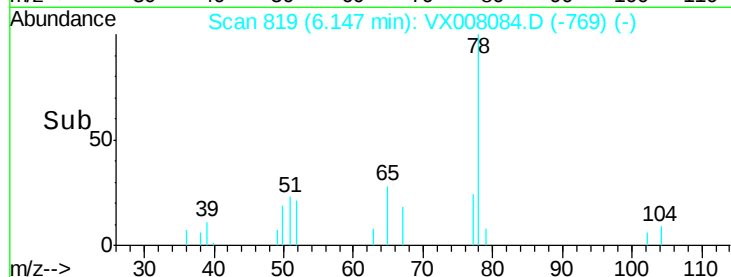
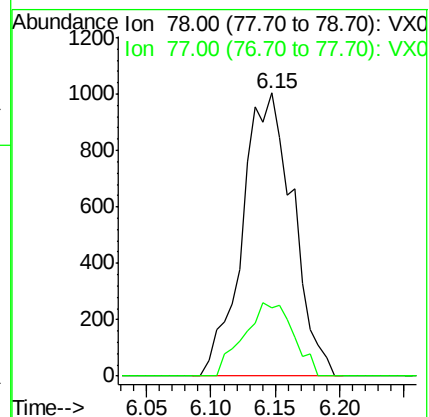
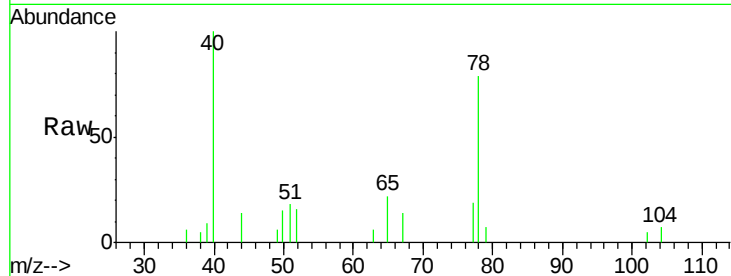
CPA-CPMW09S-M20W2-030519

Tot Ion: 78 Resp: 2740

Ion Ratio Lower Upper

78 100

77 24.3 19.0 28.4



#44

Trichloroethene

Concen: 0.472 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX008084.D

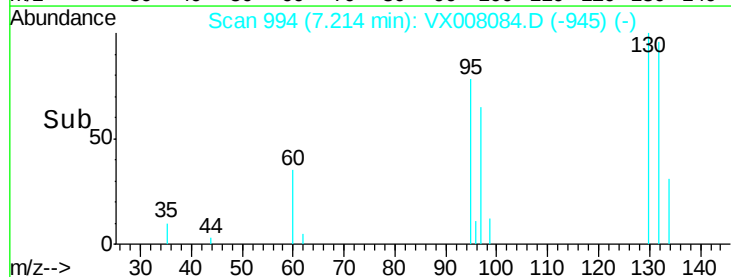
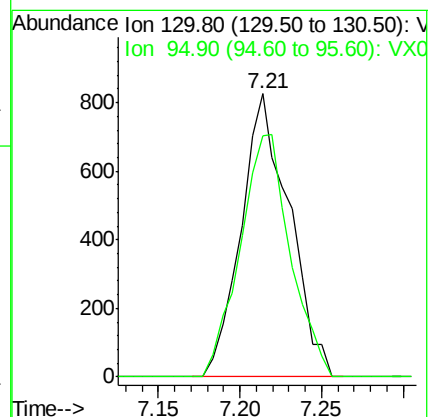
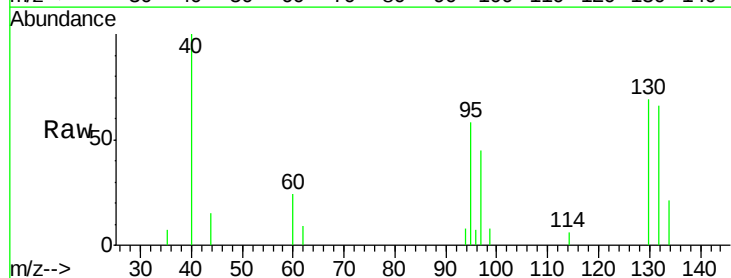
Acq: 14 Mar 2019 22:00

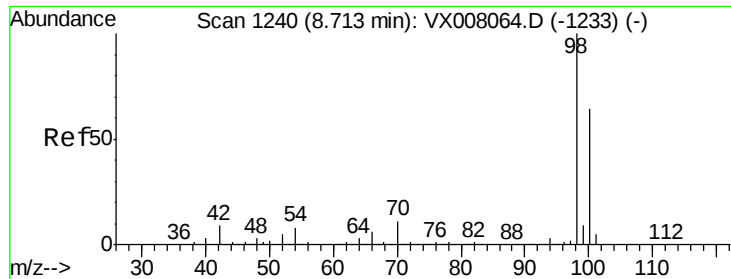
Tgt Ion:130 Resp: 1693

Ion Ratio Lower Upper

130 100

95 85.1 0.0 188.0

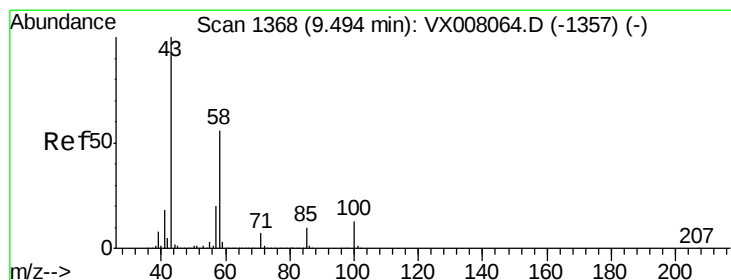
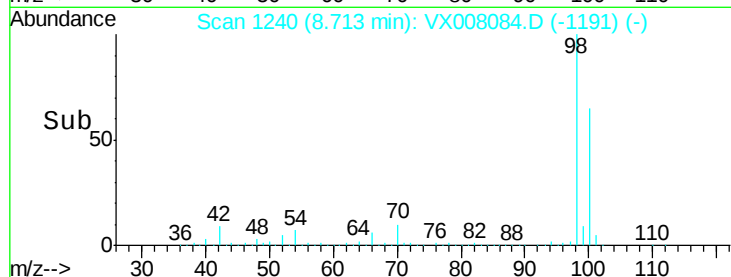
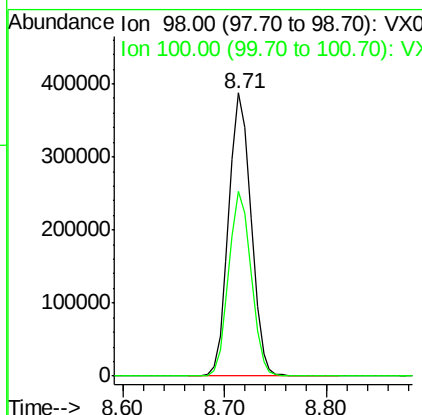
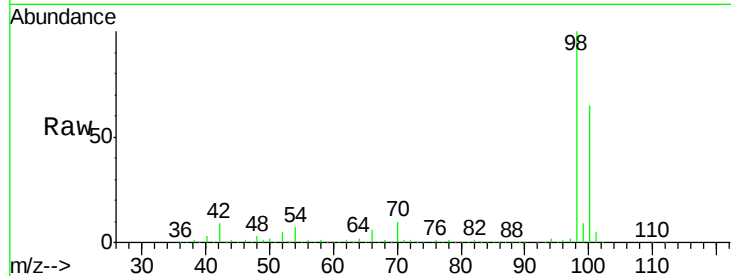




#50
Toluene-d8
Concen: 49.516 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX008084.D
Acq: 14 Mar 2019 22:00

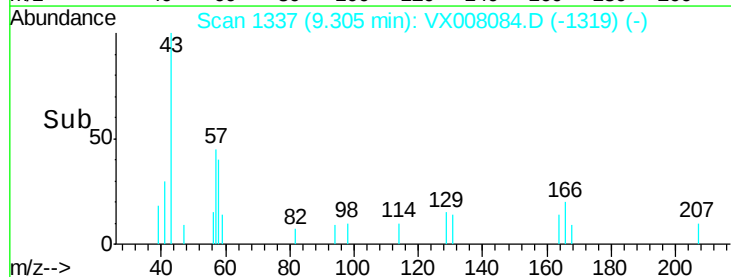
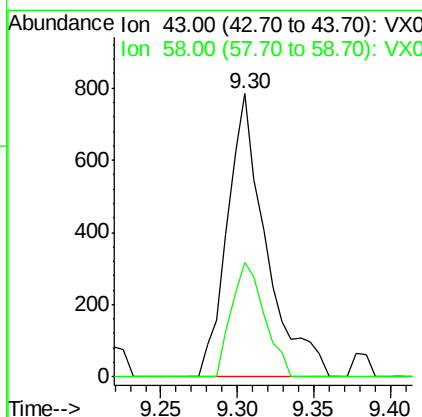
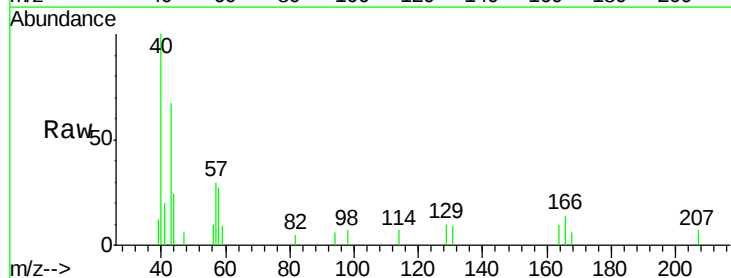
Instrument :
MSVOA_X
ClientSampleId :
CPA-CPMW09S-M20W2-030519

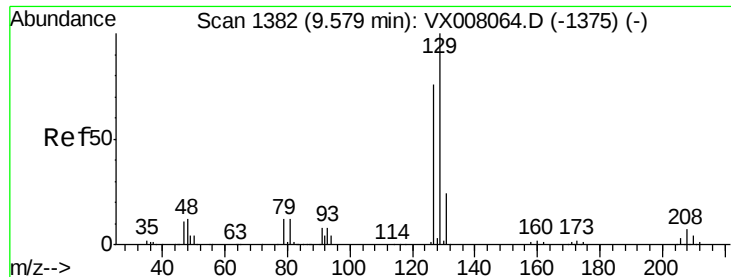
Tot Ion: 98 Resp: 588977
Ion Ratio Lower Upper
98 100
100 65.2 51.7 77.5



#59
2-Hexanone
Concen: 0.382 ug/l
RT: 9.30 min Scan# 1337
Delta R.T. -0.19 min
Lab File: VX008084.D
Acq: 14 Mar 2019 22:00

Tgt Ion: 43 Resp: 1382
Ion Ratio Lower Upper
43 100
58 34.2 27.6 82.7





#60

Dibromochloromethane

Concen: 5.729 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX008084.D

Acq: 14 Mar 2019 22:00

Instrument :

MSVOA_X

ClientSampleId :

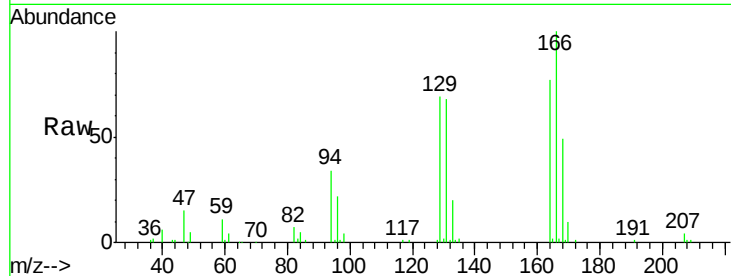
CPA-CPMW09S-M20W2-030519

Tot Ion:129 Resp: 18994

Ion Ratio Lower Upper

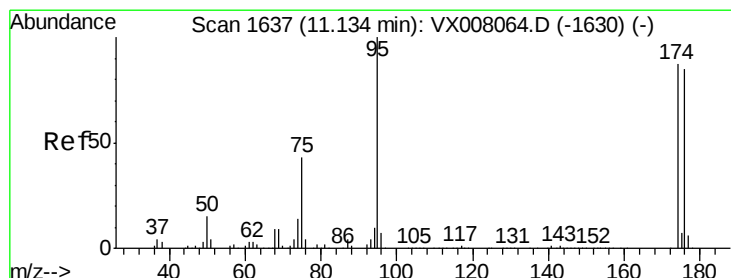
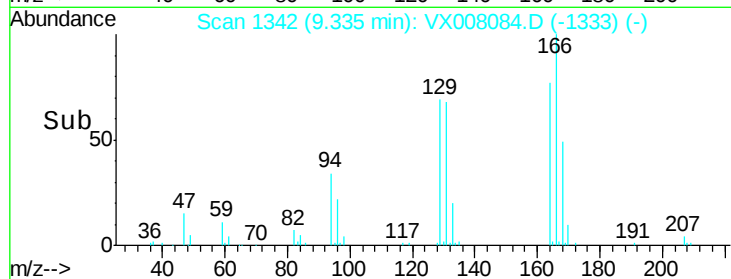
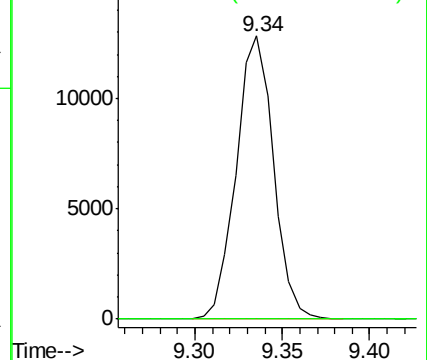
129 100

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: 51.592 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008084.D

Acq: 14 Mar 2019 22:00

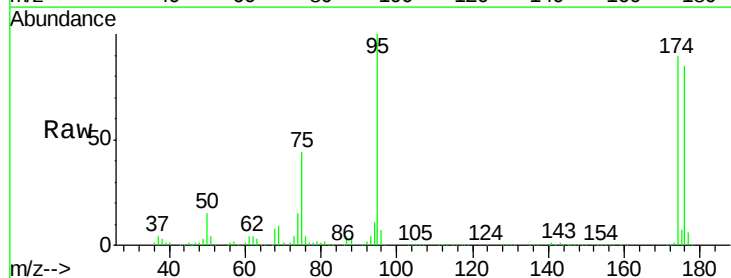
Tgt Ion: 95 Resp: 219839

Ion Ratio Lower Upper

95 100

174 96.8 0.0 182.8

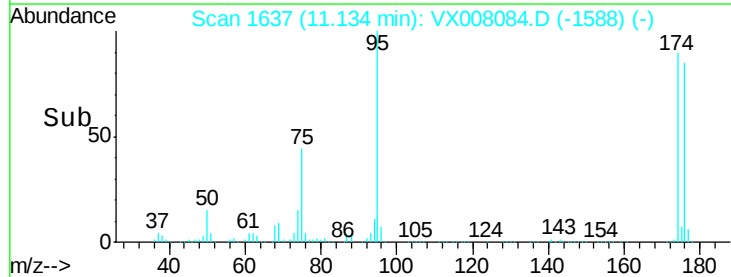
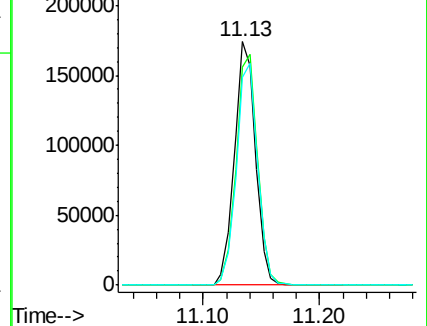
176 92.6 0.0 178.0

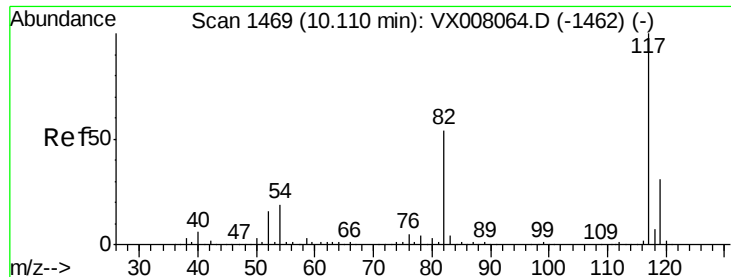


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

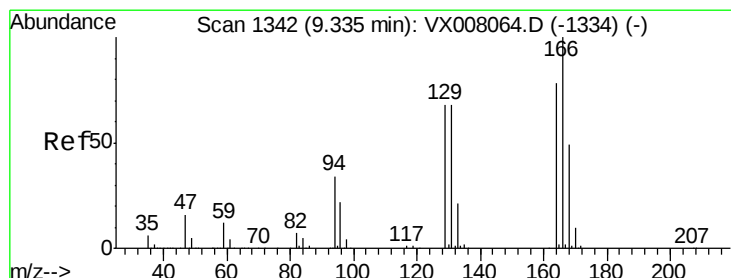
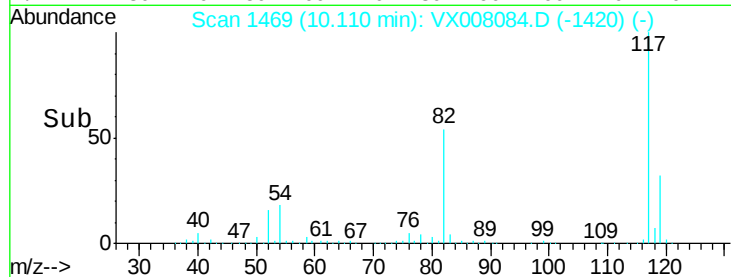
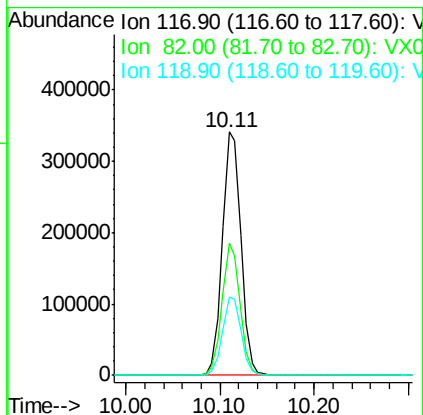
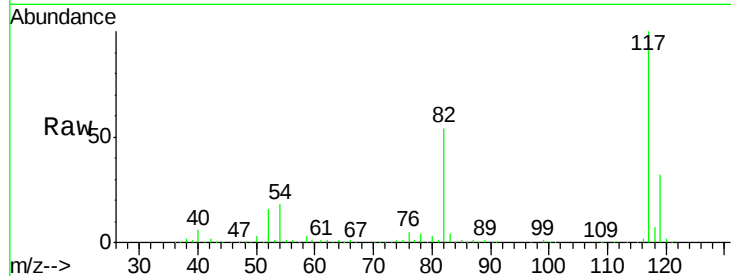




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008084.D
Acq: 14 Mar 2019 22:00

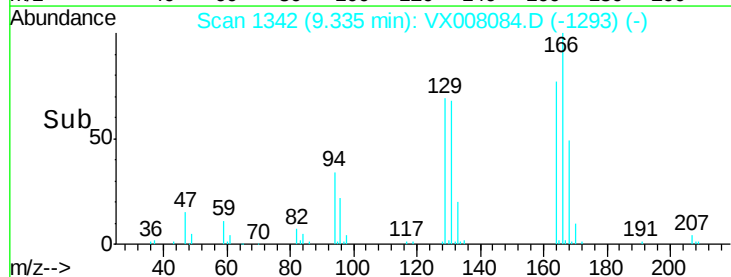
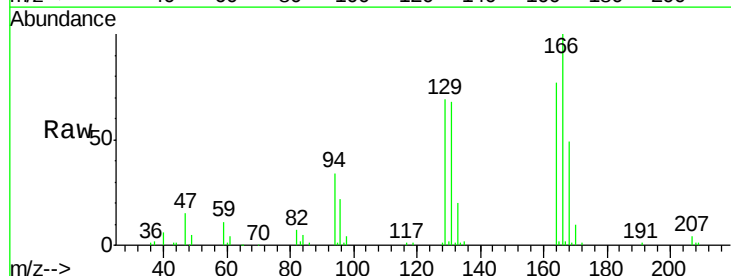
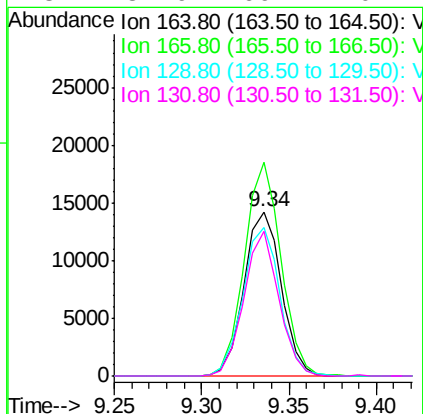
Instrument :
MSVOA_X
ClientSampleId :
CPA-CPMW09S-M20W2-030519

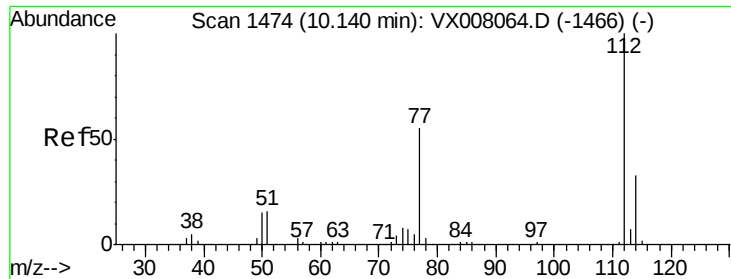
Tot Ion:117 Resp: 466718
Ion Ratio Lower Upper
117 100
82 54.1 44.3 66.5
119 32.3 25.3 37.9



#64
Tetrachloroethene
Concen: 5.578 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX008084.D
Acq: 14 Mar 2019 22:00

Tgt Ion:164 Resp: 21092
Ion Ratio Lower Upper
164 100
166 130.1 103.4 155.0
129 90.2 72.2 108.4
131 87.9 69.4 104.2





#65

Chlorobenzene

Concen: 0.459 ug/l

RT: 10.14 min Scan# 1474

Delta R.T. 0.00 min

Lab File: VX008084.D

Acq: 14 Mar 2019 22:00

Instrument :

MSVOA_X

ClientSampleId :

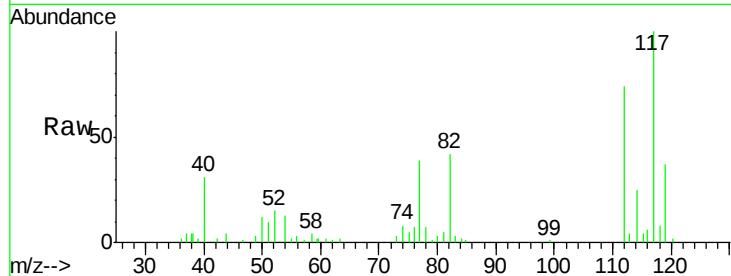
CPA-CPMW09S-M20W2-030519

Tot Ion:112 Resp: 4247

Ion Ratio Lower Upper

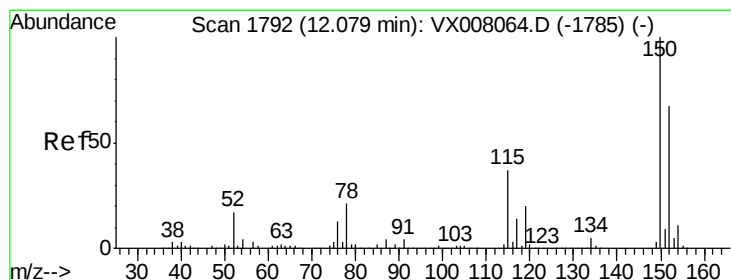
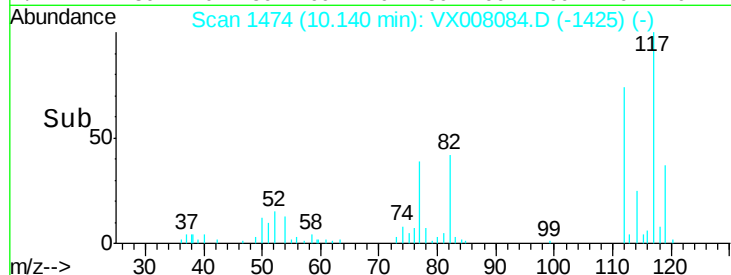
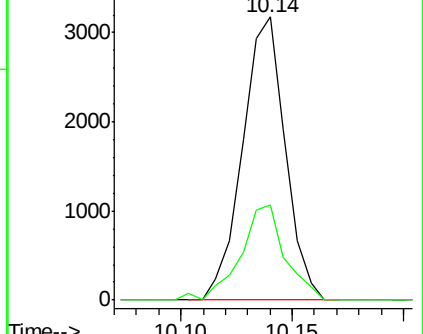
112 100

114 33.6 26.0 39.0



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX008084.D

Acq: 14 Mar 2019 22:00

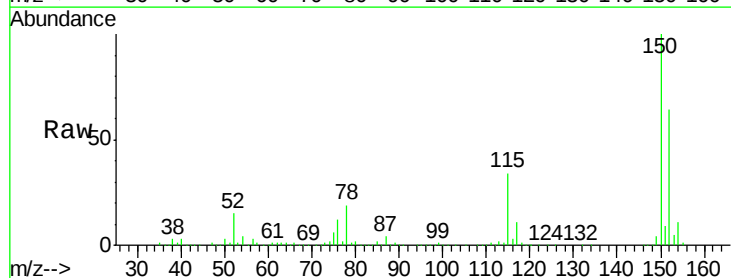
Tgt Ion:152 Resp: 234045

Ion Ratio Lower Upper

152 100

115 53.4 38.6 115.7

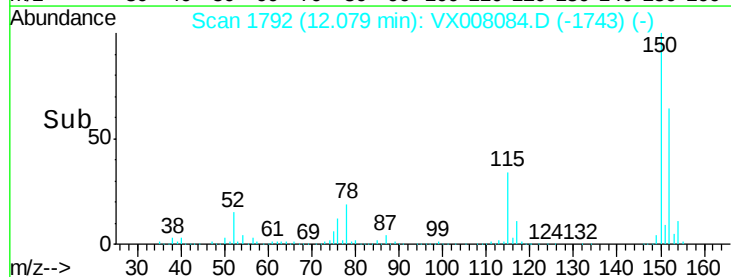
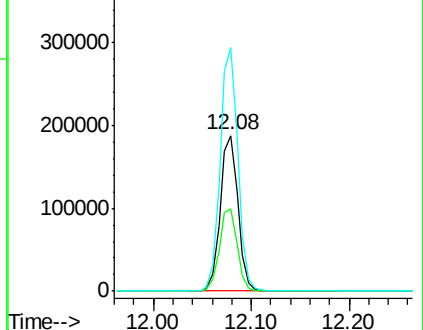
150 156.3 0.0 348.4

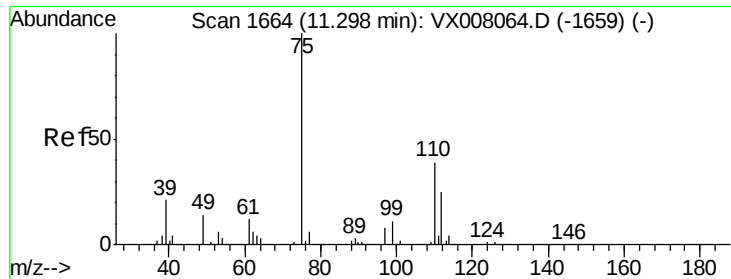


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.005 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008084.D

Acq: 14 Mar 2019 22:00

Instrument :

MSVOA_X

ClientSampleId :

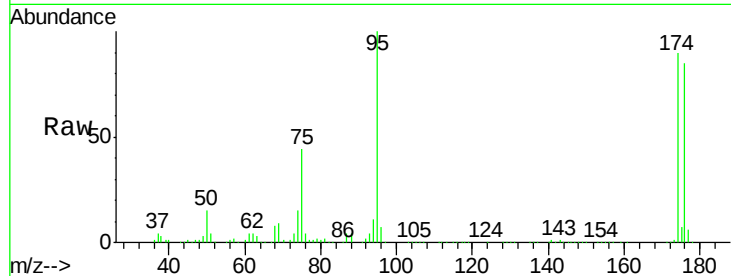
CPA-CPMW09S-M20W2-030519

Tot Ion: 75 Resp: 97571

Ion Ratio Lower Upper

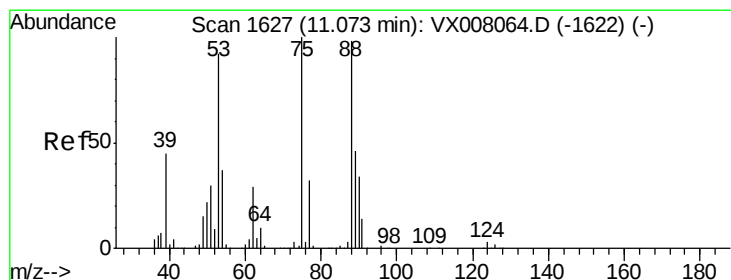
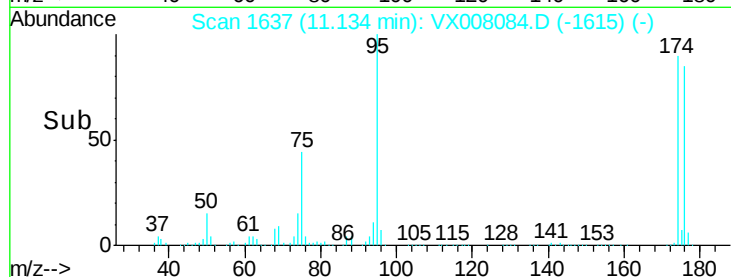
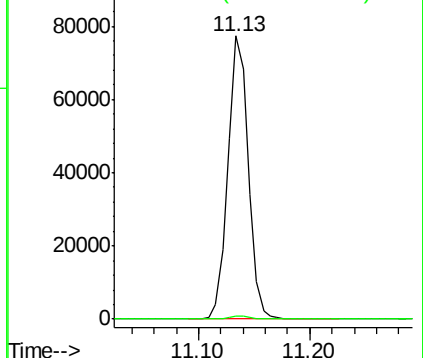
75 100

77 1.2 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: 68.308 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008084.D

Acq: 14 Mar 2019 22:00

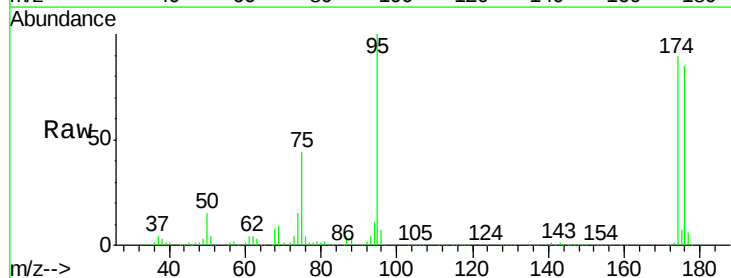
Tgt Ion: 75 Resp: 97571

Ion Ratio Lower Upper

75 100

53 0.0 76.1 114.1#

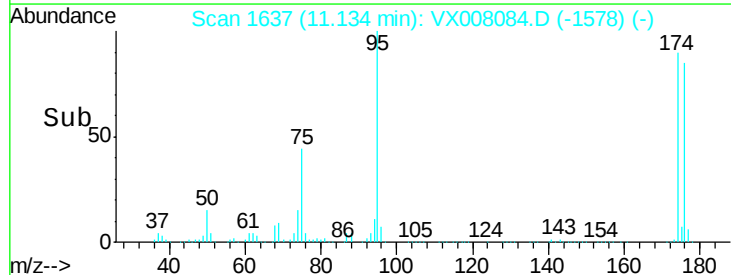
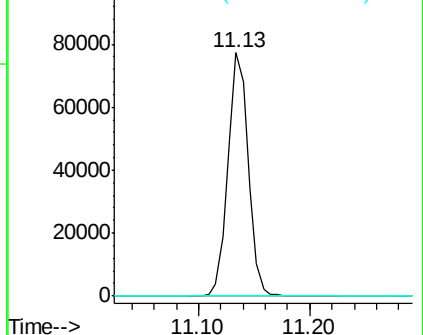
89 0.0 36.3 54.5#

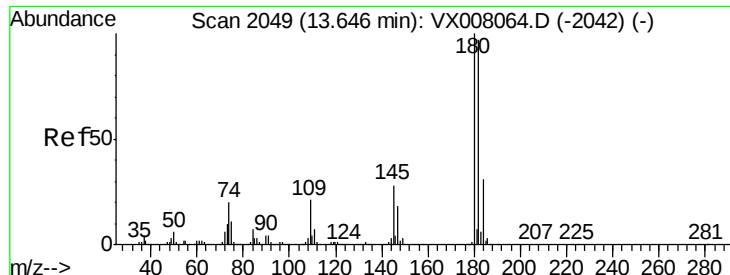


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#93

1,2,4-Trichlorobenzene

Concen: 0.366 ug/l

RT: 13.65 min Scan# 2049

Delta R.T. 0.00 min

Lab File: VX008084.D

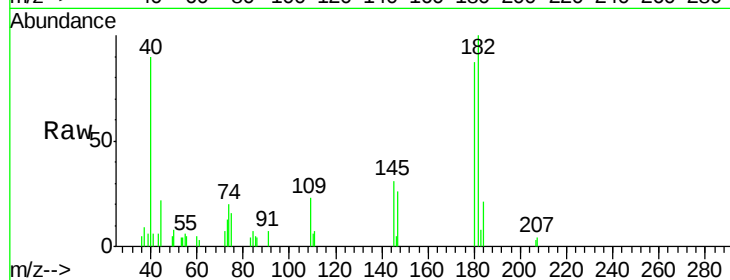
Acq: 14 Mar 2019 22:00

Instrument :

MSVOA_X

ClientSampleId :

CPA-CPMW09S-M20W2-030519



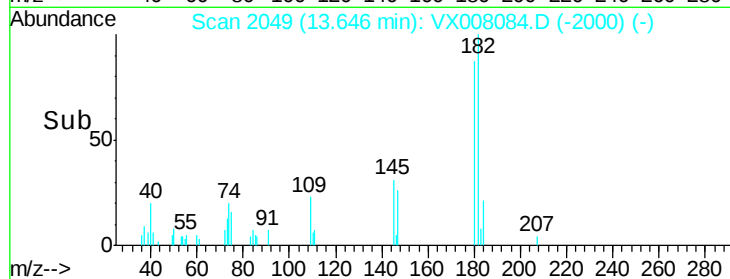
Tot Ion:180 Resp: 1874

Ion Ratio Lower Upper

180 100

182 102.6 47.9 143.7

145 30.1 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

