

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082918\
 Data File : VX004284.D
 Acq On : 29 Aug 2018 11:23
 Operator : JC/MD
 Sample : J4681-21
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CPA-TB1-M12W4-082218

Quant Time: Aug 30 02:06:51 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	5.67	168	289603	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	446480	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	399587	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	227559	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	196183	51.97	ug/l	0.00
Spiked Amount			Recovery	=	103.94%	
35) Dibromofluoromethane	5.50	113	170699	51.39	ug/l	0.00
Spiked Amount			Recovery	=	102.78%	
50) Toluene-d8	8.72	98	626752	49.99	ug/l	0.00
Spiked Amount			Recovery	=	99.98%	
62) 4-Bromofluorobenzene	11.14	95	220926	47.23	ug/l	0.00
Spiked Amount			Recovery	=	94.46%	

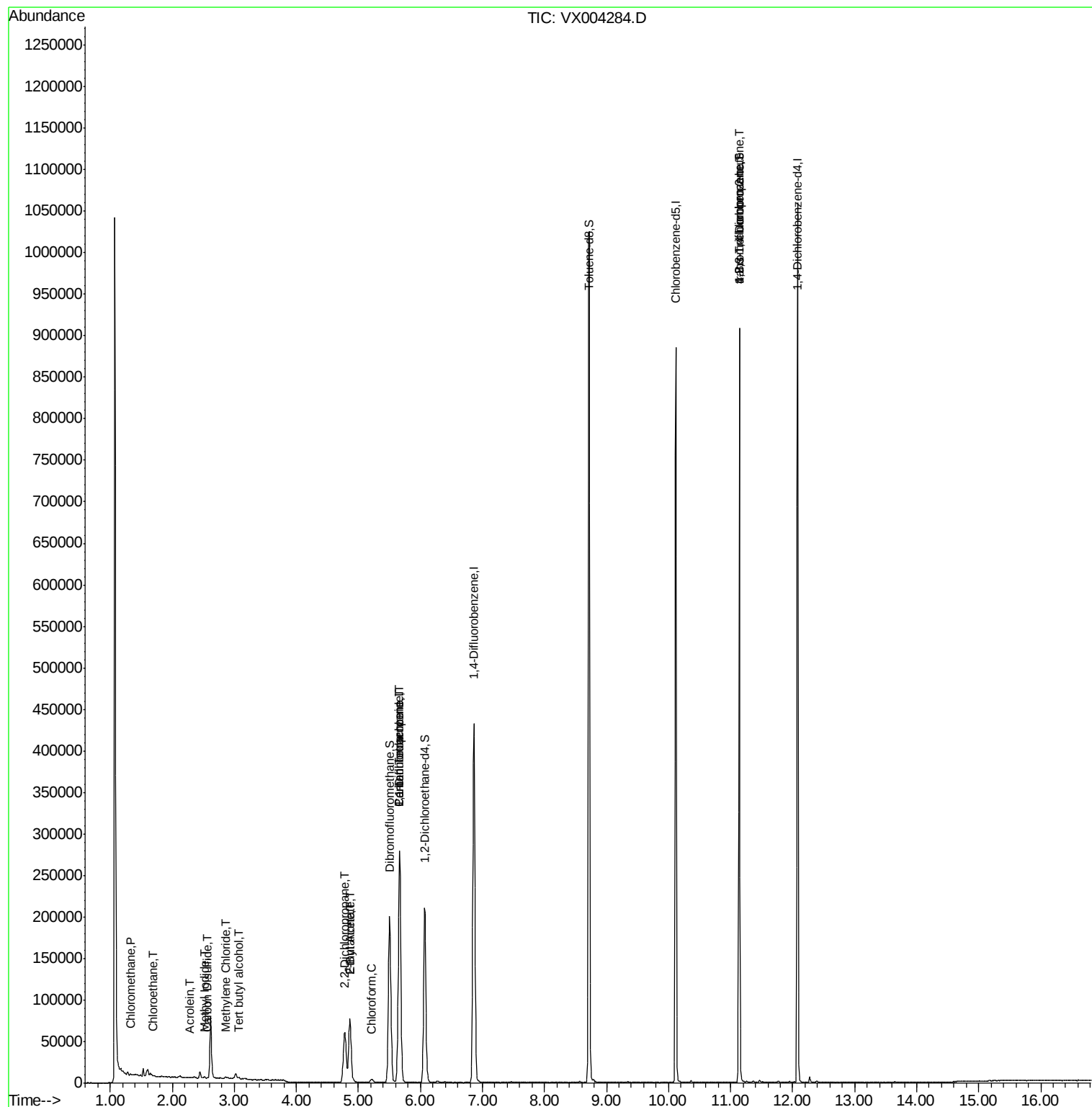
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1423	0.67	ug/l	98
5) Bromomethane	1.65	94	1585	Below Cal		83
6) Chloroethane	1.69	64	924	1.27	ug/l #	45
10) Methyl Iodide	2.52	142	1297	4.59	ug/l	91
11) Tert butyl alcohol	3.07	59	2203	2.74	ug/l	97
13) Acrolein	2.29	56	109	0.56	ug/l #	1
16) Acetone	2.44	43	7613	Below Cal		96
17) Carbon Disulfide	2.56	76	1072	0.92	ug/l	99
20) Methylene Chloride	2.86	84	859	0.24	ug/l	97
25) 2-Butanone	4.86	43	129417	48.88	ug/l #	47
26) 2,2-Dichloropropane	4.78	77	5039	1.05	ug/l #	52
30) Chloroform	5.20	83	4228	0.69	ug/l #	72
36) 1,1-Dichloropropene	5.66	75	18634	3.71	ug/l #	49
37) Ethyl Acetate	4.86	43	129417	26.22	ug/l	98
38) Carbon Tetrachloride	5.66	117	24812	5.25	ug/l #	15
76) 1,2,3-Trichloropropane	11.14	75	105408	22.78	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	105408	73.90	ug/l #	10
94) Hexachlorobutadiene	13.78	225	142	Below Cal	#	74

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.01 min

Lab File: VX004284.D

Acq: 29 Aug 2018 11:23

Instrument :

MSVOA_X

ClientSampleId :

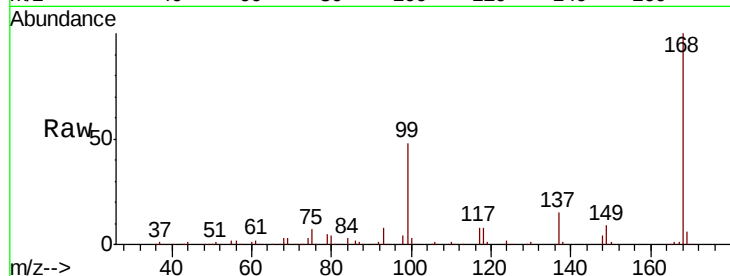
CPA-TB1-M12W4-082218

Tot Ion:168 Resp: 289603

Ion Ratio Lower Upper

168 100

99 47.8 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

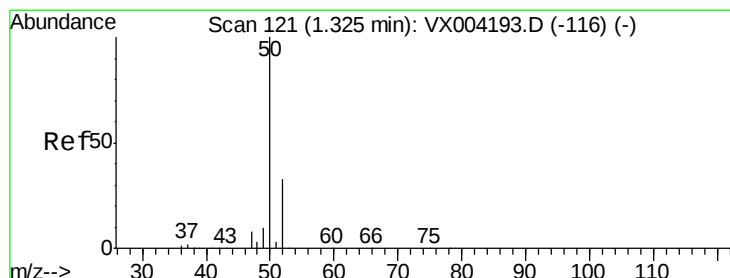
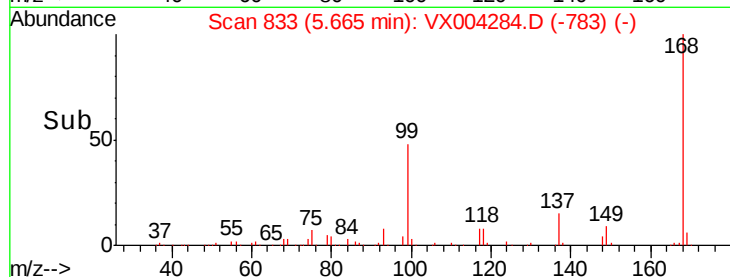
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.67 ug/l

RT: 1.32 min Scan# 120

Delta R.T. -0.01 min

Lab File: VX004284.D

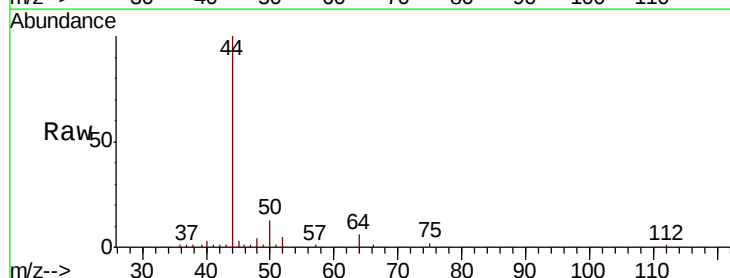
Acq: 29 Aug 2018 11:23

Tgt Ion: 50 Resp: 1423

Ion Ratio Lower Upper

50 100

52 33.9 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

1200

1000

800

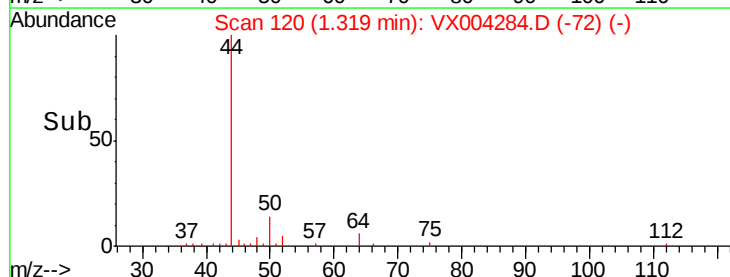
600

400

200

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX004284.D

Acq: 29 Aug 2018 11:23

Instrument :

MSVOA_X

ClientSampleId :

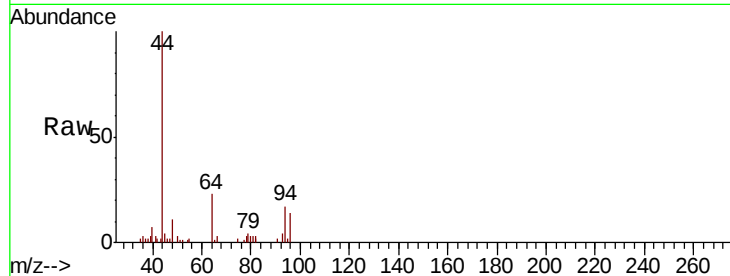
CPA-TB1-M12W4-082218

Tot Ion: 94 Resp: 1585

Ion Ratio Lower Upper

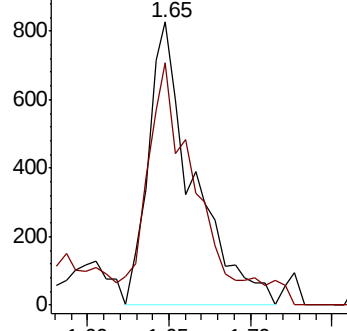
94 100

96 76.9 74.5 111.7

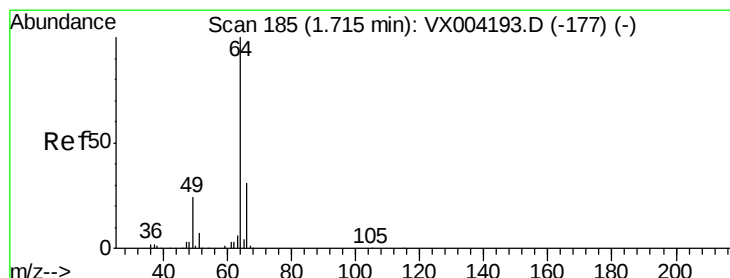
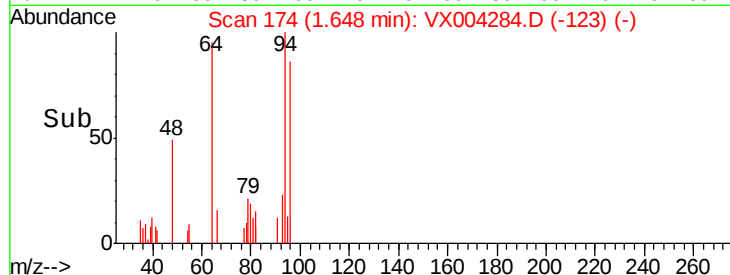


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: 1.27 ug/l

RT: 1.69 min Scan# 181

Delta R.T. -0.02 min

Lab File: VX004284.D

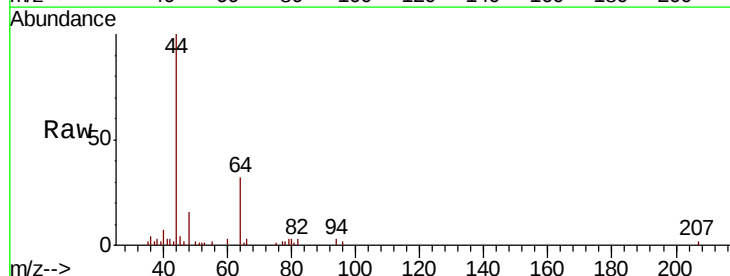
Acq: 29 Aug 2018 11:23

Tgt Ion: 64 Resp: 924

Ion Ratio Lower Upper

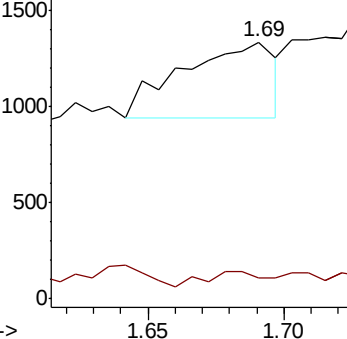
64 100

66 0.8 24.6 36.8#

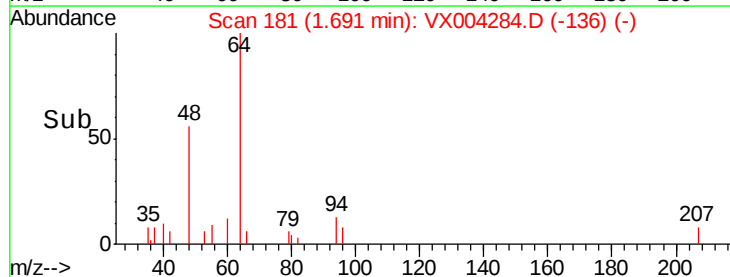


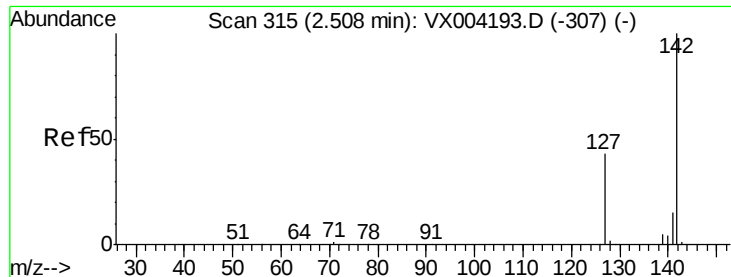
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->

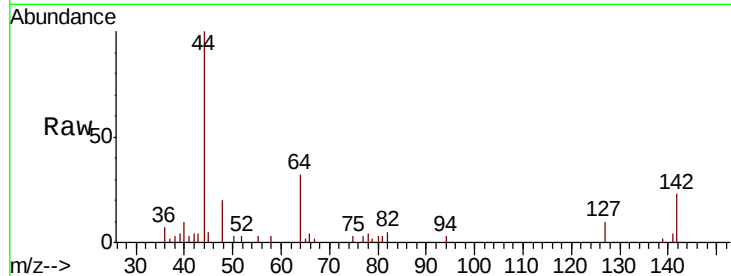




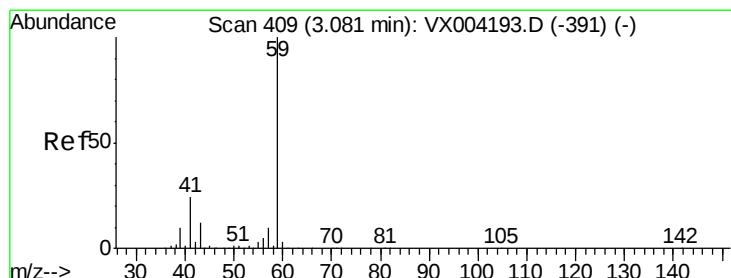
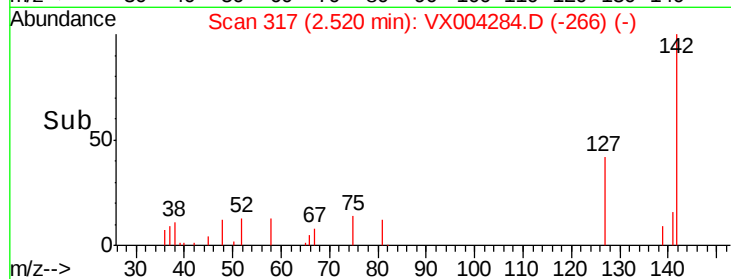
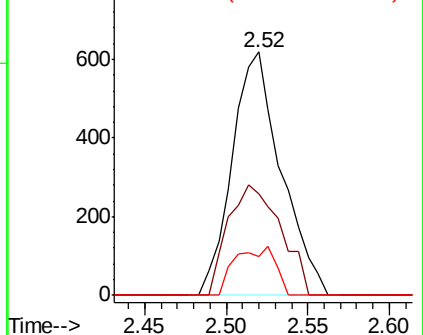
#10
Methyl Iodide
Concen: 4.59 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX004284.D
Acq: 29 Aug 2018 11:23

Instrument :
MSVOA_X
ClientSampleId :
CPA-TB1-M12W4-082218

Tot Ion:142 Resp: 1297
Ion Ratio Lower Upper
142 100
127 48.5 33.8 50.6
141 16.3 11.4 17.0

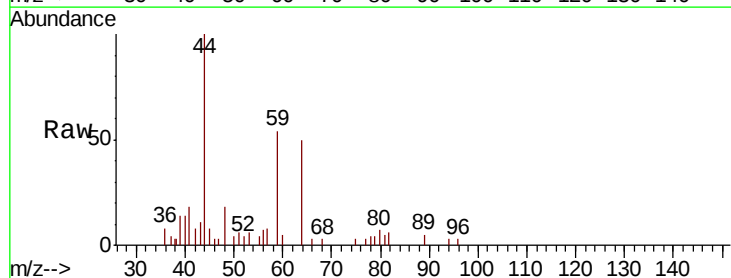


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

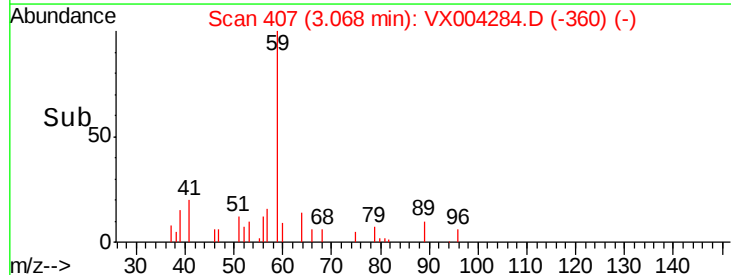
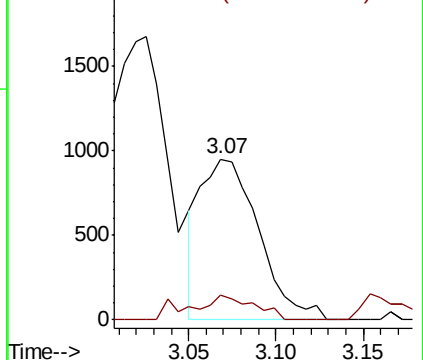


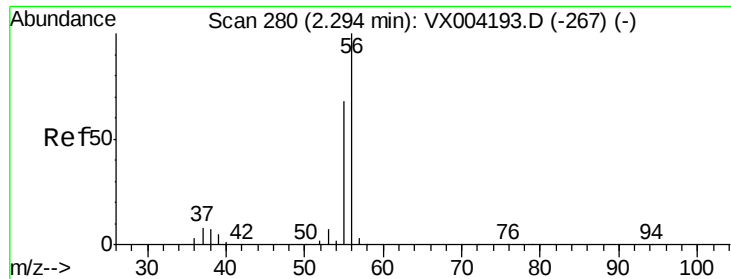
#11
Tert butyl alcohol
Concen: 2.74 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX004284.D
Acq: 29 Aug 2018 11:23

Tgt Ion: 59 Resp: 2203
Ion Ratio Lower Upper
59 100
57 11.4 8.2 12.4



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.56 ua/l

RT: 2.29 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX004284.D

Acq: 29 Aug 2018 11:23

Instrument :

MSVOA_X

ClientSampleId :

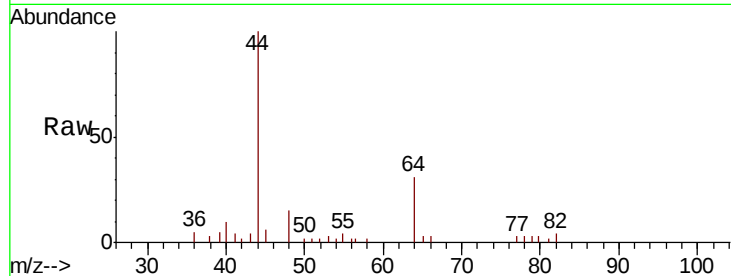
CPA-TB1-M12W4-082218

Tot Ion: 56 Resp: 109

Ion Ratio Lower Upper

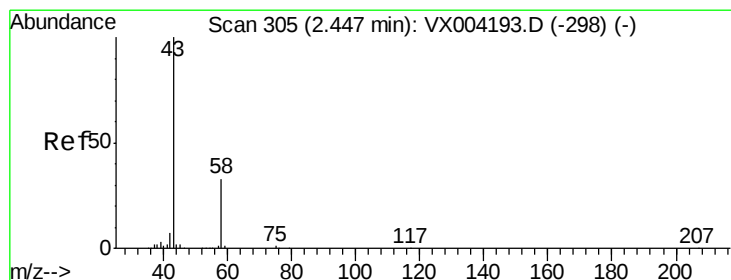
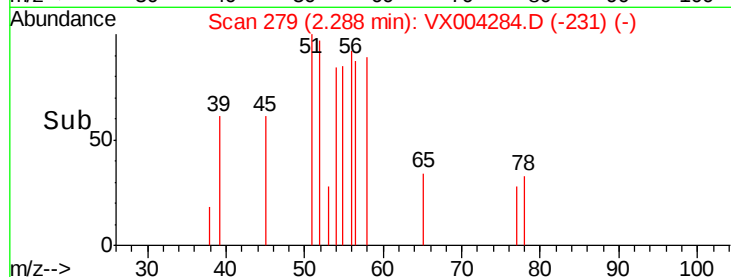
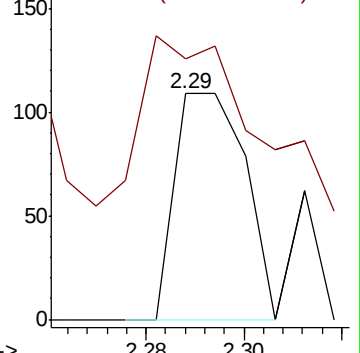
56 100

55 259.6 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: Below Cal

RT: 2.44 min Scan# 304

Delta R.T. -0.01 min

Lab File: VX004284.D

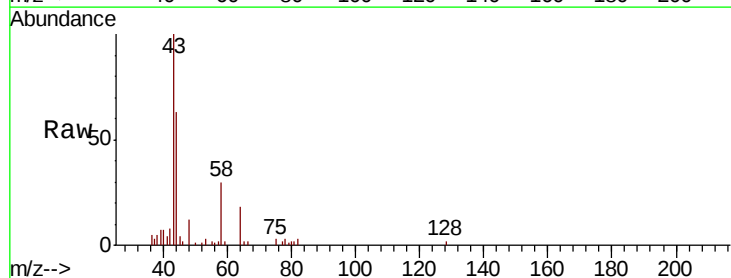
Acq: 29 Aug 2018 11:23

Tgt Ion: 43 Resp: 7613

Ion Ratio Lower Upper

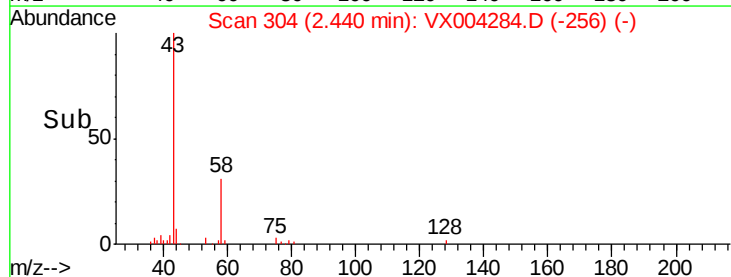
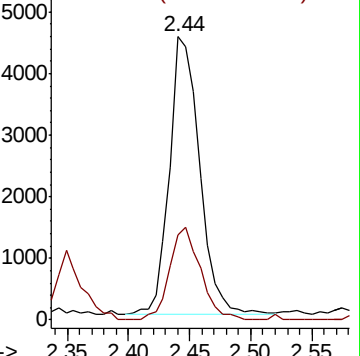
43 100

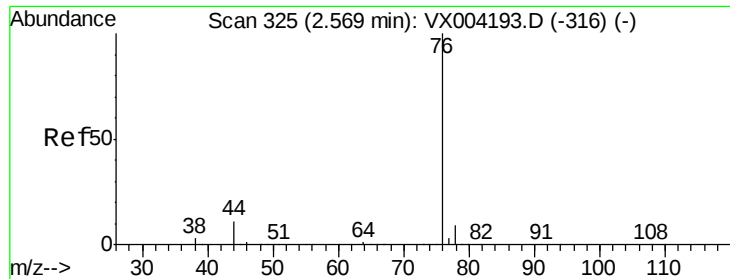
58 30.7 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.92 ug/l

RT: 2.56 min Scan# 324

Delta R.T. -0.01 min

Lab File: VX004284.D

Acq: 29 Aug 2018 11:23

Instrument :

MSVOA_X

ClientSampleId :

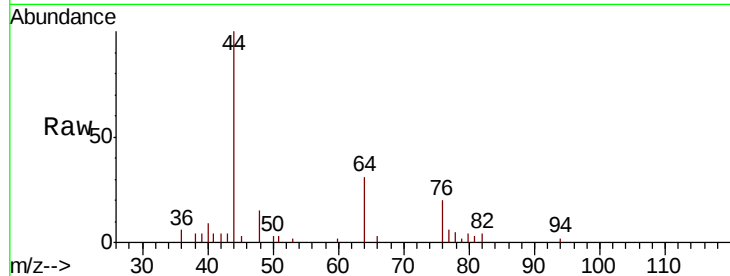
CPA-TB1-M12W4-082218

Tot Ion: 76 Resp: 1072

Ion Ratio Lower Upper

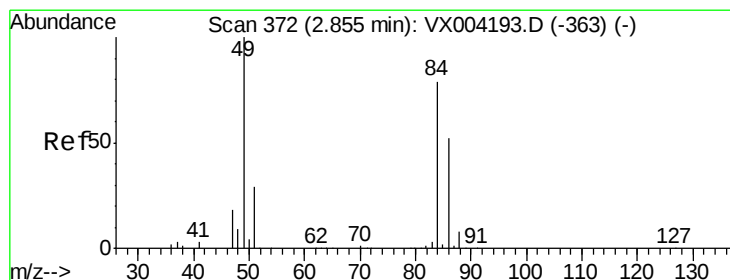
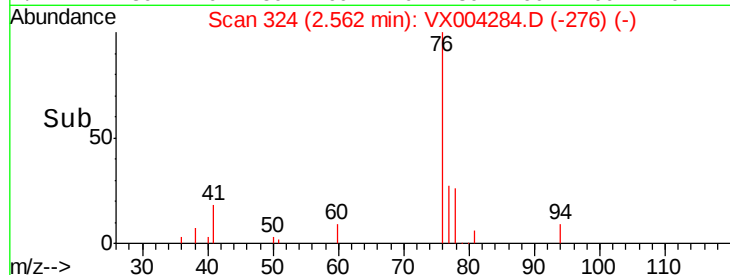
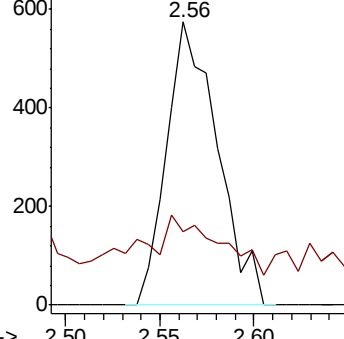
76 100

78 8.4 7.0 10.6



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.24 ug/l

RT: 2.86 min Scan# 372

Delta R.T. -0.00 min

Lab File: VX004284.D

Acq: 29 Aug 2018 11:23

Tgt Ion: 84 Resp: 859

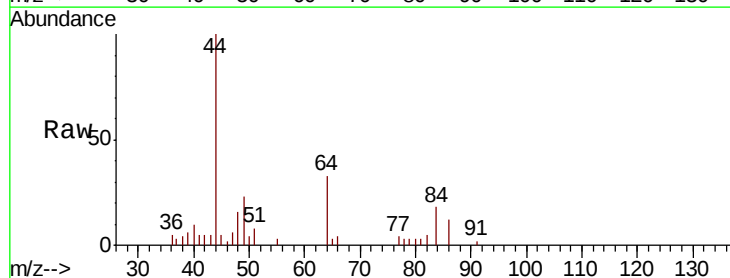
Ion Ratio Lower Upper

84 100

49 128.7 101.2 151.8

51 32.9 29.5 44.3

86 68.8 52.3 78.5

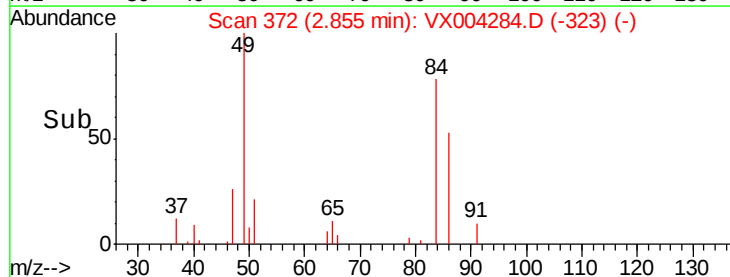
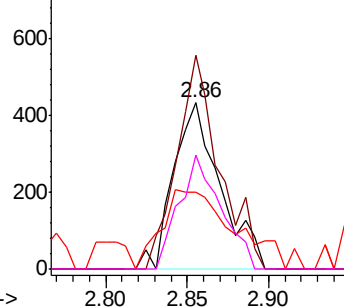


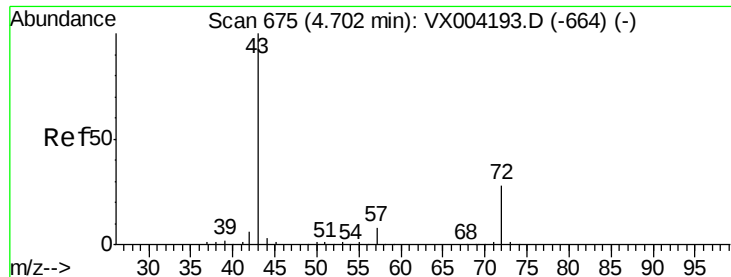
Abundance Ion 83.90 (83.60 to 84.60): VX0

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

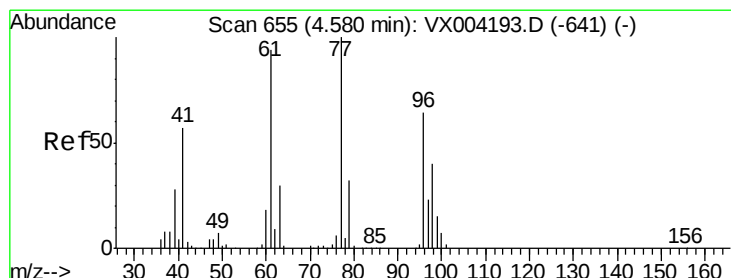
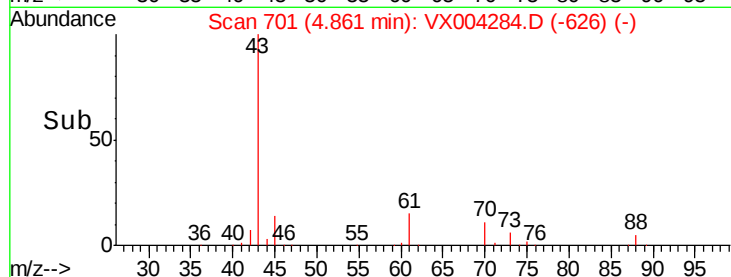
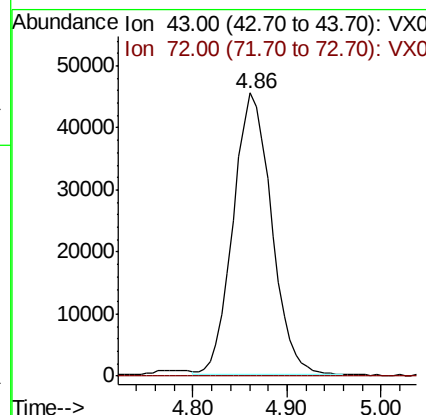
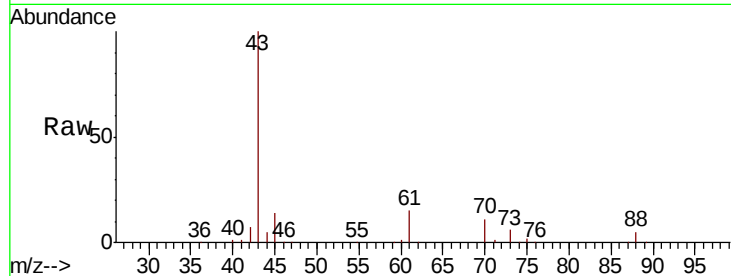




#25
 2-Butanone
 Concen: 48.88 ug/l
 RT: 4.86 min Scan# 701
 Delta R.T. 0.16 min
 Lab File: VX004284.D
 Acq: 29 Aug 2018 11:23

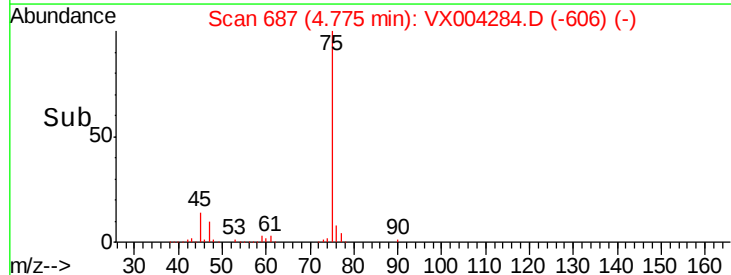
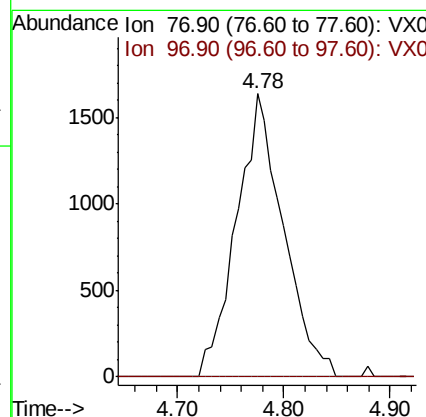
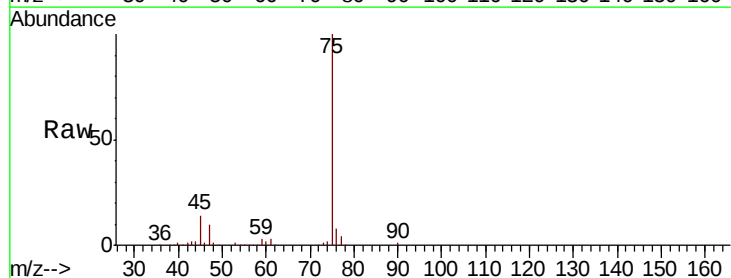
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 CPA-TB1-M12W4-082218

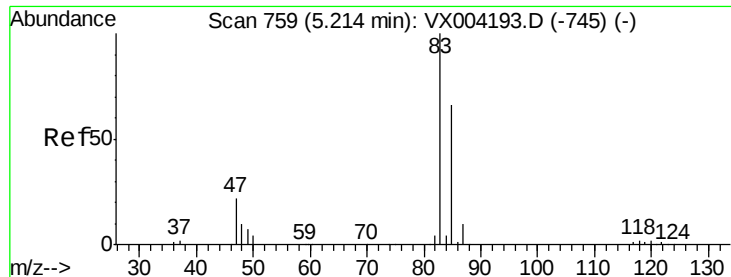
Tot Ion: 43 Resp: 129417
 Ion Ratio Lower Upper
 43 100
 72 0.0 22.0 33.0#



#26
 2,2-Dichloropropane
 Concen: 1.05 ug/l
 RT: 4.78 min Scan# 687
 Delta R.T. 0.19 min
 Lab File: VX004284.D
 Acq: 29 Aug 2018 11:23

Tgt Ion: 77 Resp: 5039
 Ion Ratio Lower Upper
 77 100
 97 0.0 11.7 35.0#

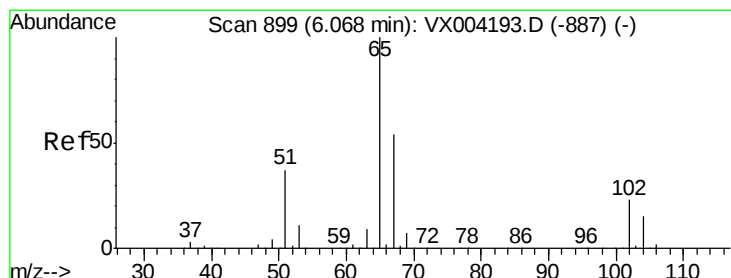
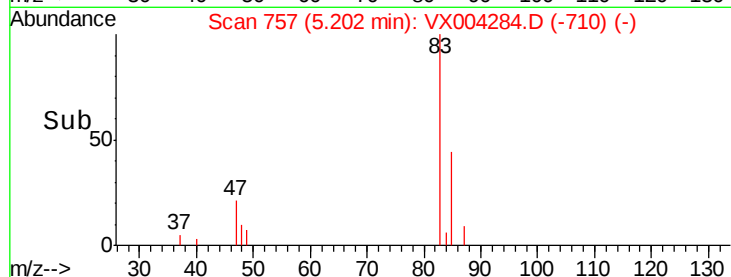
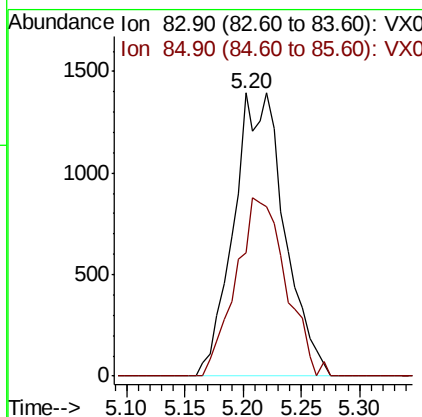
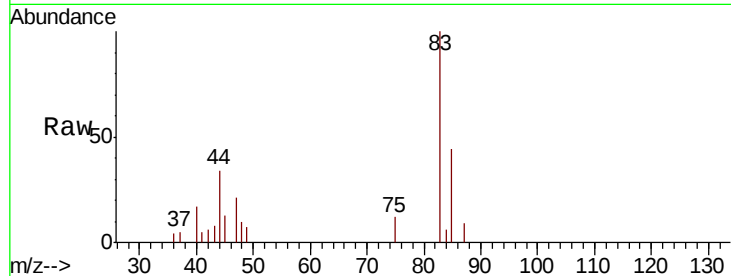




#30
Chloroform
Concen: 0.69 ug/l
RT: 5.20 min Scan# 757
Delta R.T. -0.01 min
Lab File: VX004284.D
Acq: 29 Aug 2018 11:23

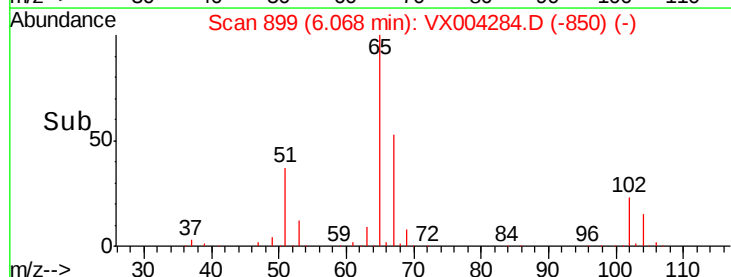
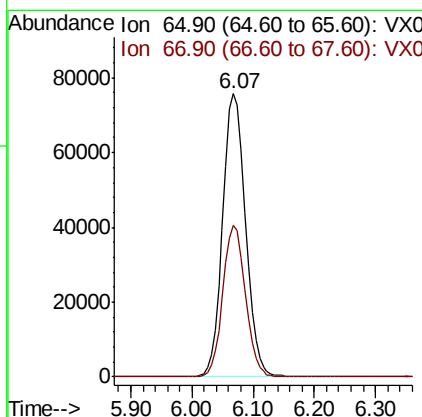
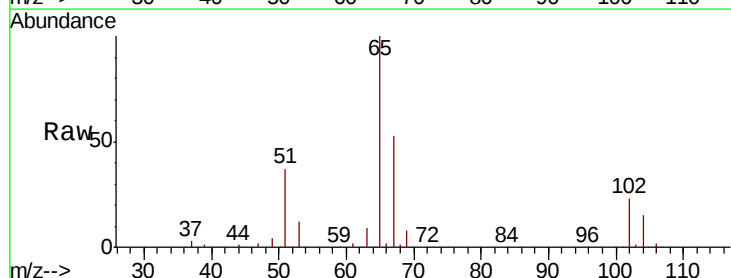
Instrument :
MSVOA_X
ClientSampleId :
CPA-TB1-M12W4-082218

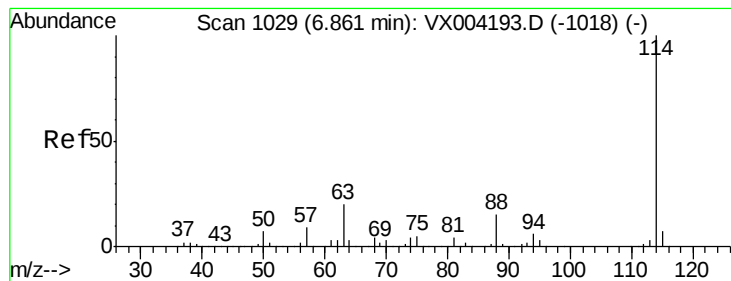
Tot Ion: 83 Resp: 4228
Ion Ratio Lower Upper
83 100
85 43.8 52.6 79.0#



#33
1,2-Dichloroethane-d4
Concen: 51.97 ug/l
RT: 6.07 min Scan# 899
Delta R.T. -0.00 min
Lab File: VX004284.D
Acq: 29 Aug 2018 11:23

Tgt Ion: 65 Resp: 196183
Ion Ratio Lower Upper
65 100
67 52.8 0.0 106.8





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.86 min Scan# 1029

Delta R.T. -0.00 min

Lab File: VX004284.D

Acq: 29 Aug 2018 11:23

Instrument :

MSVOA_X

ClientSampleId :

CPA-TB1-M12W4-082218

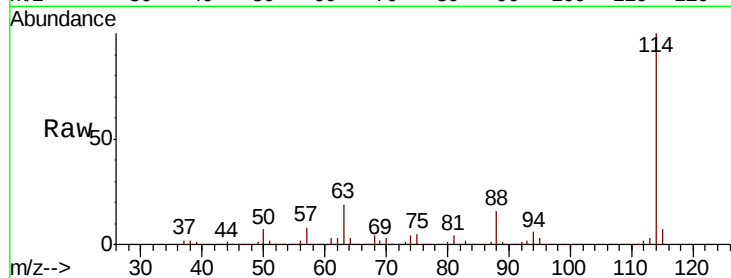
Tot Ion:114 Resp: 446480

Ion Ratio Lower Upper

114 100

63 19.0 0.0 39.0

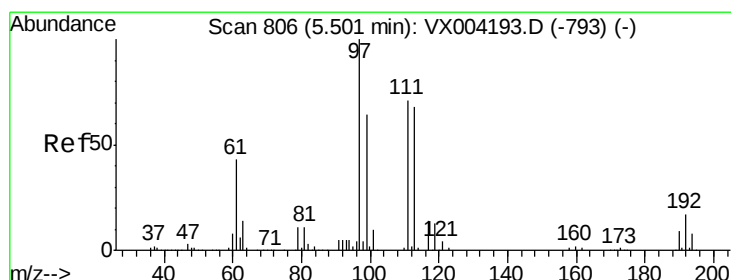
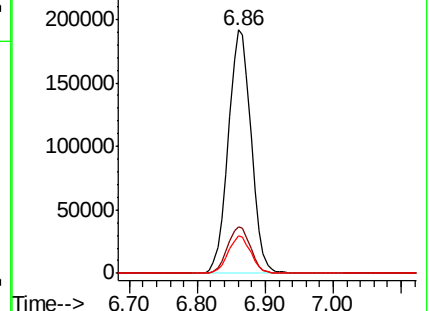
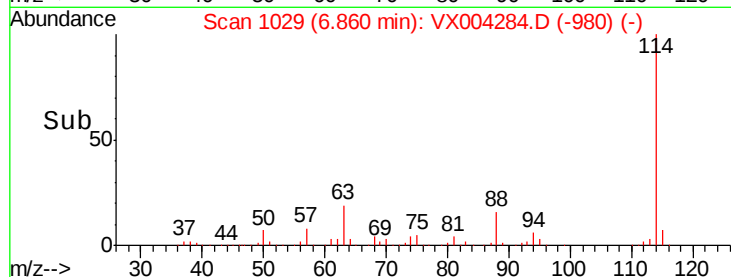
88 15.7 0.0 30.4



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: 51.39 ug/l

RT: 5.50 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004284.D

Acq: 29 Aug 2018 11:23

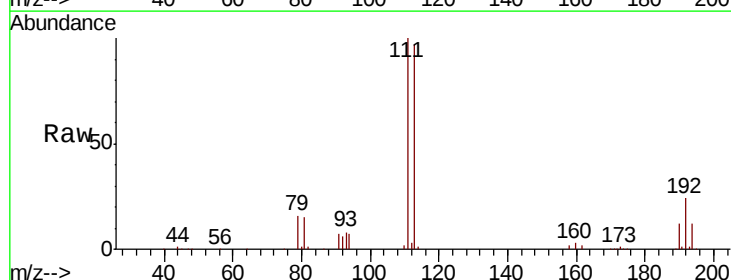
Tgt Ion:113 Resp: 170699

Ion Ratio Lower Upper

113 100

111 102.3 82.4 123.6

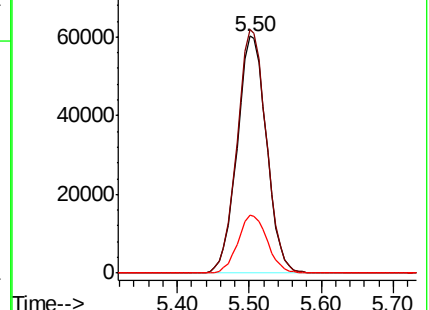
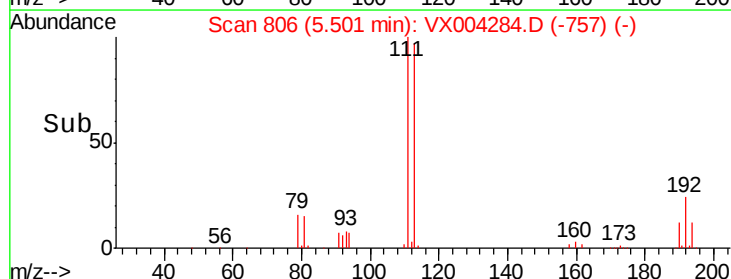
192 24.3 19.4 29.2

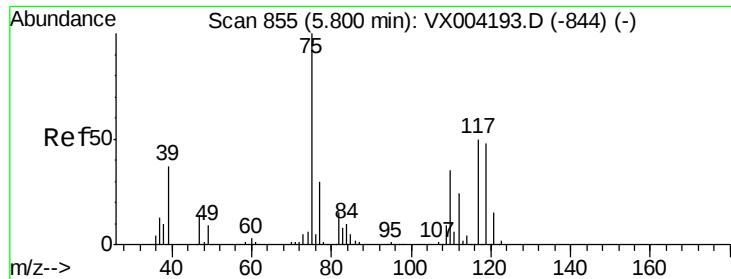


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.71 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.14 min

Lab File: VX004284.D

Acq: 29 Aug 2018 11:23

Instrument :

MSVOA_X

ClientSampleId :

CPA-TB1-M12W4-082218

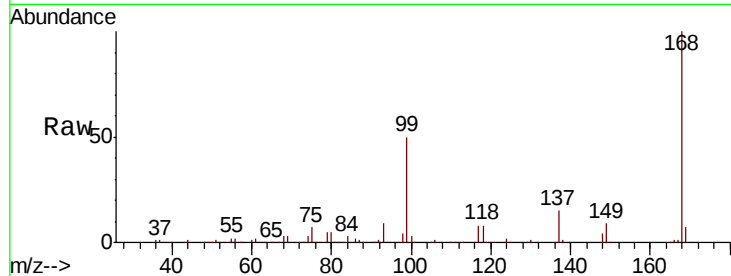
Tot Ion: 75 Resp: 18634

Ion Ratio Lower Upper

75 100

110 8.9 18.0 54.0#

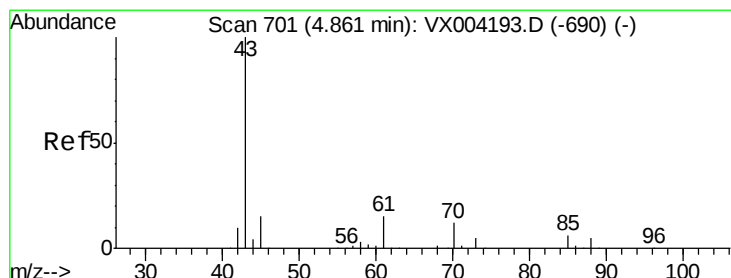
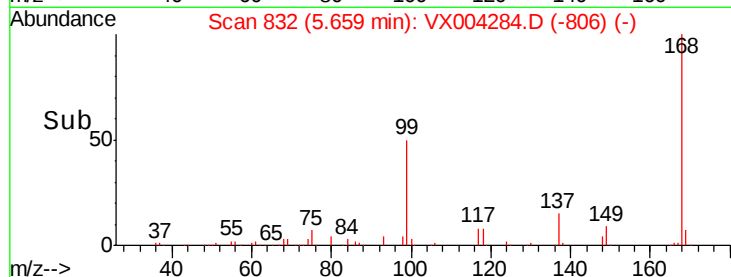
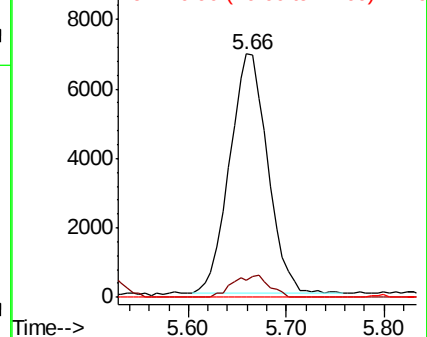
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 26.22 ug/l

RT: 4.86 min Scan# 701

Delta R.T. -0.00 min

Lab File: VX004284.D

Acq: 29 Aug 2018 11:23

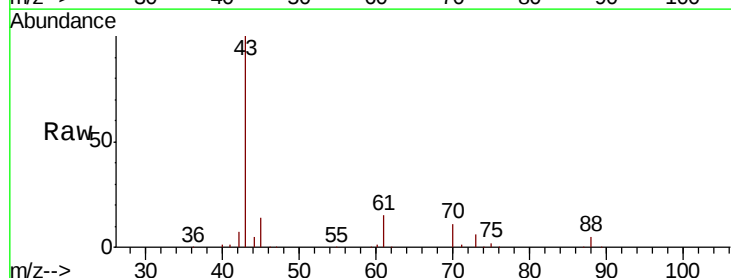
Tgt Ion: 43 Resp: 129417

Ion Ratio Lower Upper

43 100

61 15.8 11.5 17.3

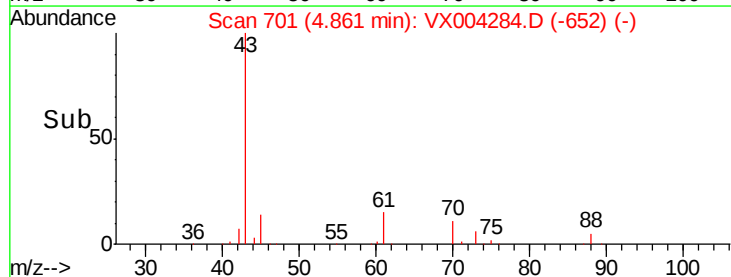
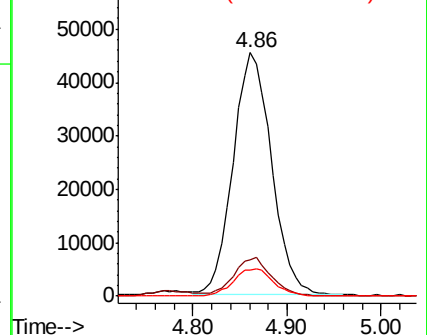
70 11.8 9.0 13.6

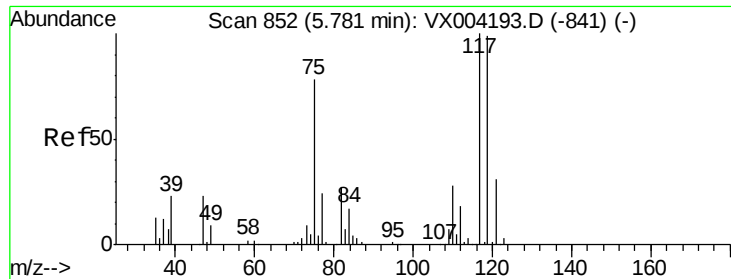


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 5.25 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.12 min

Lab File: VX004284.D

Acq: 29 Aug 2018 11:23

Instrument :

MSVOA_X

ClientSampleId :

CPA-TB1-M12W4-082218

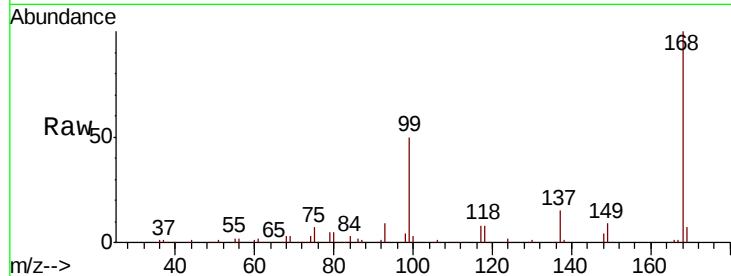
Tot Ion:117 Resp: 24812

Ion Ratio Lower Upper

117 100

119 5.3 78.8 118.2#

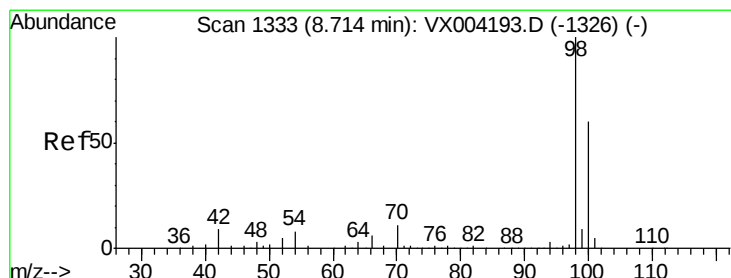
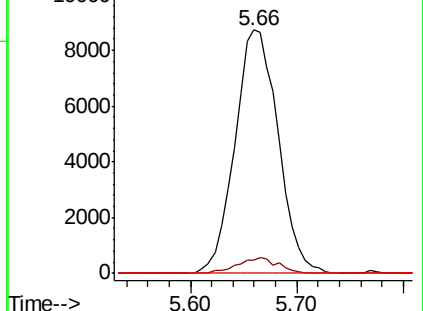
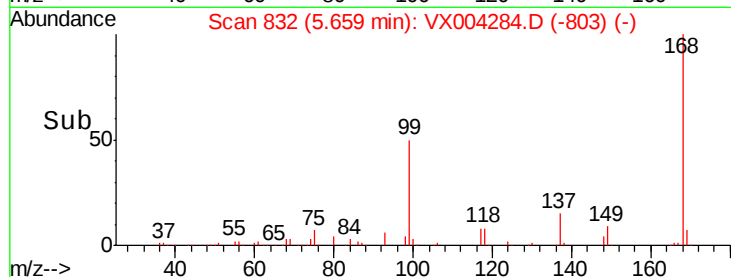
121 0.0 24.9 37.3#



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: 49.99 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.01 min

Lab File: VX004284.D

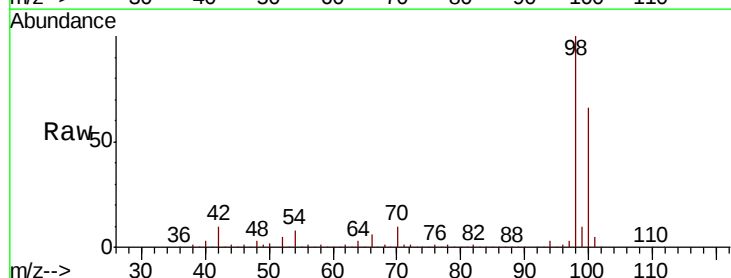
Acq: 29 Aug 2018 11:23

Tgt Ion: 98 Resp: 626752

Ion Ratio Lower Upper

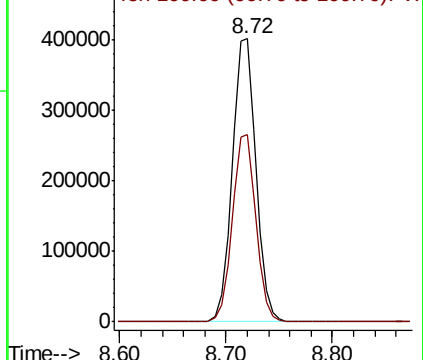
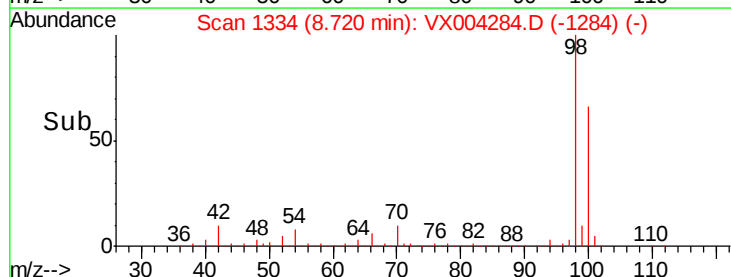
98 100

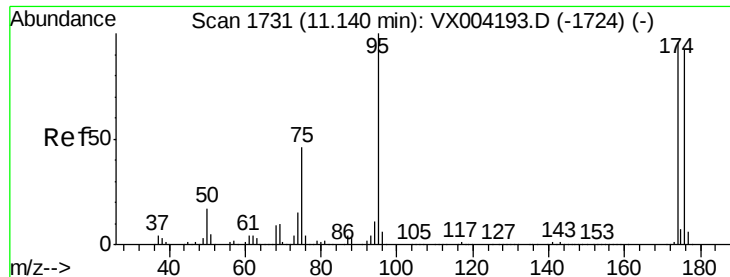
100 65.8 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 47.23 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX004284.D

Acq: 29 Aug 2018 11:23

Instrument :

MSVOA_X

ClientSampleId :

CPA-TB1-M12W4-082218

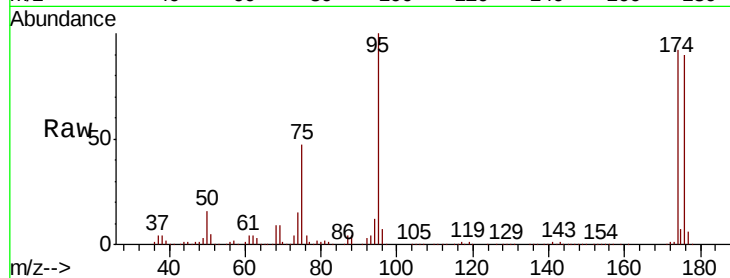
Tot Ion: 95 Resp: 220926

Ion Ratio Lower Upper

95 100

174 92.6 0.0 185.2

176 90.3 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

250000

200000

150000

100000

50000

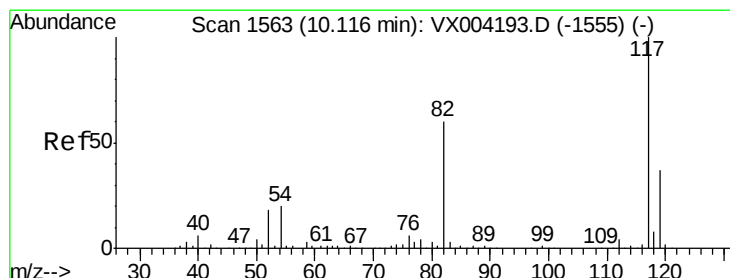
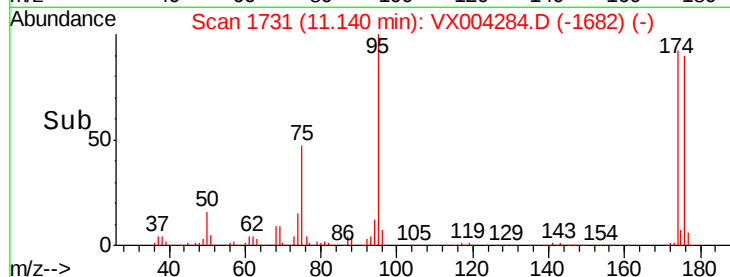
0

11.14

11.10

11.20

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX004284.D

Acq: 29 Aug 2018 11:23

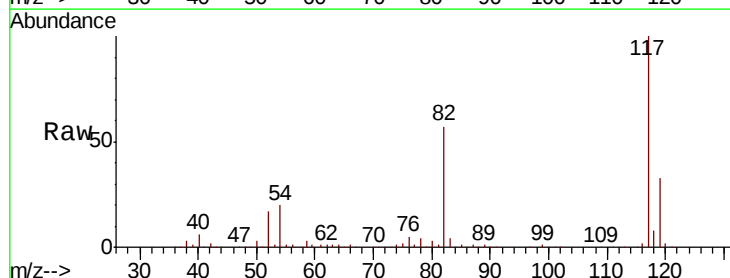
Tgt Ion: 117 Resp: 399587

Ion Ratio Lower Upper

117 100

82 57.3 47.8 71.6

119 33.1 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

400000

300000

200000

100000

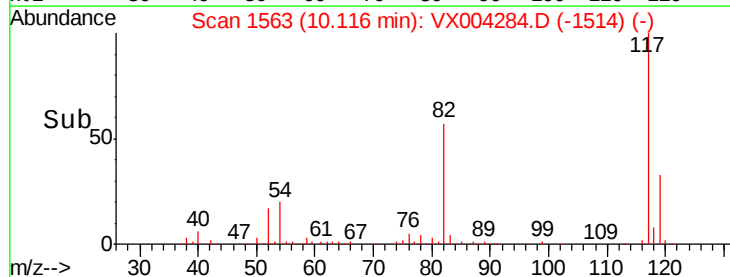
0

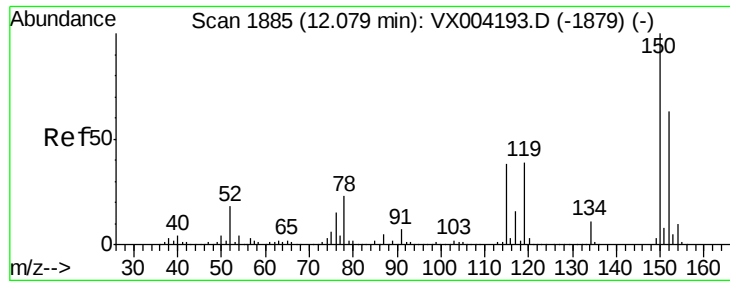
10.12

10.10

10.20

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX004284.D

Acq: 29 Aug 2018 11:23

Instrument :

MSVOA_X

ClientSampleId :

CPA-TB1-M12W4-082218

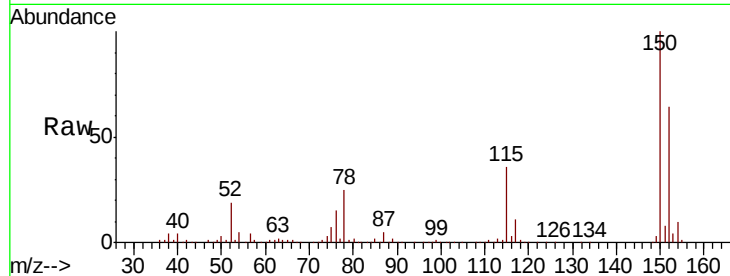
Tot Ion:152 Resp: 227559

Ion Ratio Lower Upper

152 100

115 52.9 39.0 117.0

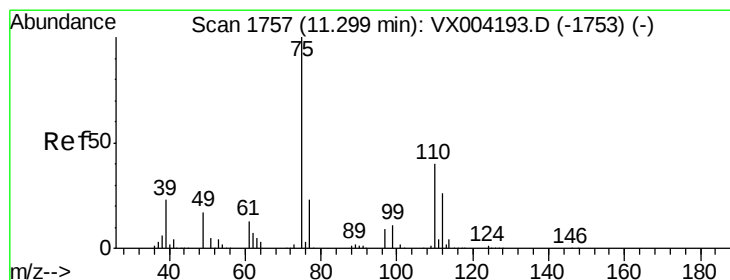
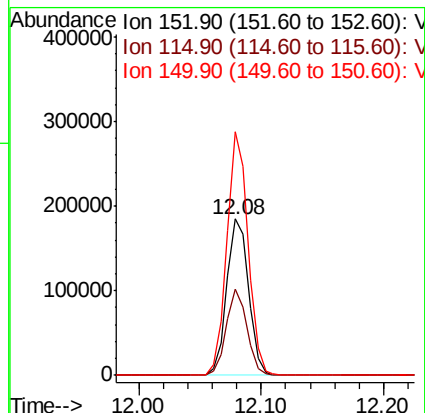
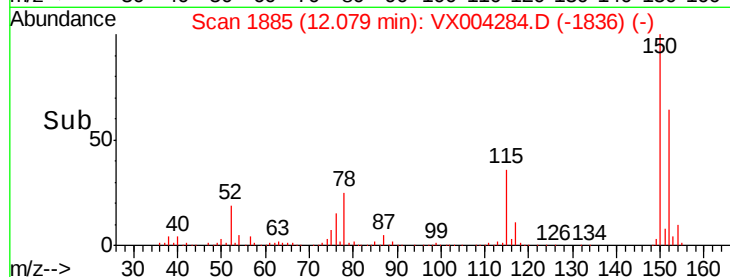
150 150.9 0.0 351.0



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: 22.78 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004284.D

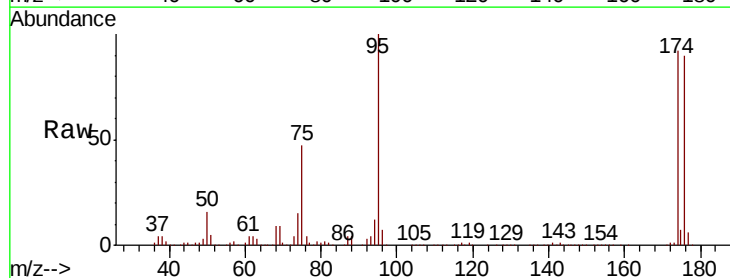
Acq: 29 Aug 2018 11:23

Tgt Ion: 75 Resp: 105408

Ion Ratio Lower Upper

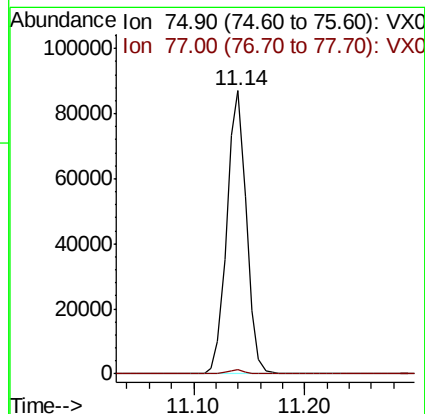
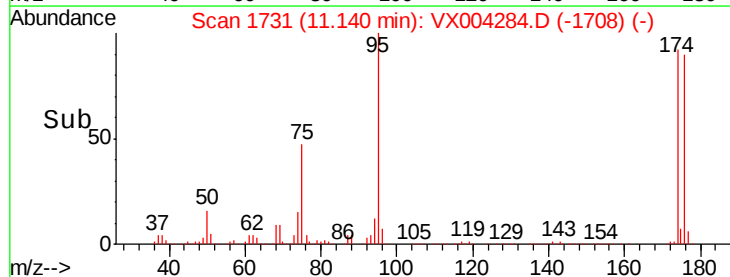
75 100

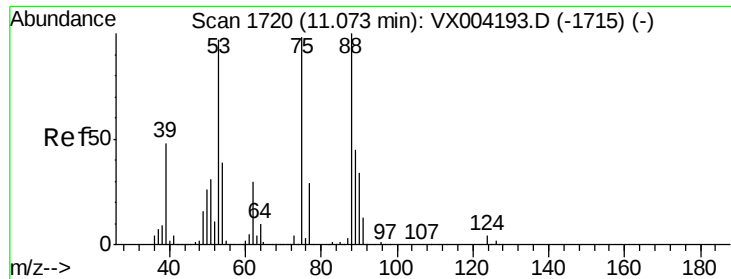
77 1.3 20.2 60.6#



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: 73.90 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.07 min

Lab File: VX004284.D

Acq: 29 Aug 2018 11:23

Instrument :

MSVOA_X

ClientSampleId :

CPA-TB1-M12W4-082218

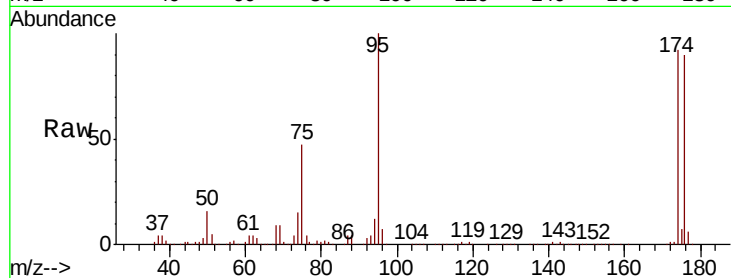
Tot Ion: 75 Resp: 105408

Ion Ratio Lower Upper

75 100

53 0.2 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

