

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051820\
 Data File : VX016308.D
 Acq On : 18 May 2020 19:12
 Operator : JC/SP
 Sample : L2672-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WP021MW348-200514

Quant Time: May 19 00:49:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	265041	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	434160	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	418099	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	218091	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	151798	43.52	ug/l	0.00
Spiked Amount			Recovery	=	87.04%	
35) Dibromofluoromethane	5.46	113	124756	45.36	ug/l	0.00
Spiked Amount			Recovery	=	90.72%	
50) Toluene-d8	8.70	98	529181	49.93	ug/l	0.00
Spiked Amount			Recovery	=	99.86%	
62) 4-Bromofluorobenzene	11.12	95	210943	52.33	ug/l	0.00
Spiked Amount			Recovery	=	104.66%	

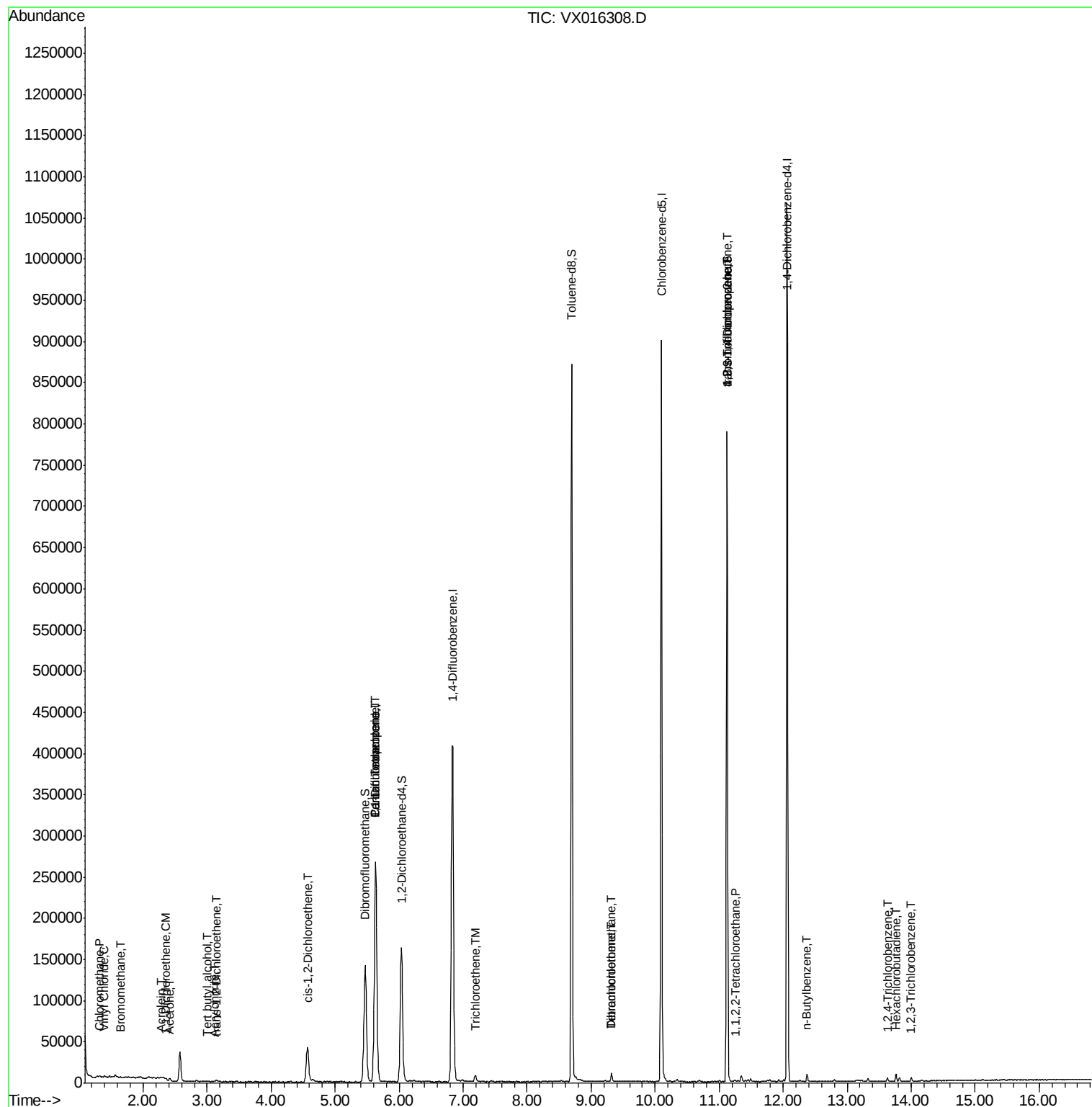
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1321	0.405	ug/l	98
4) Vinyl Chloride	1.39	62	897	0.258	ug/l	99
5) Bromomethane	1.64	94	597	0.341	ug/l #	64
11) Tert butyl alcohol	3.01	59	698	0.791	ug/l #	72
12) 1,1-Dichloroethene	2.36	96	1131	0.411	ug/l #	79
13) Acrolein	2.27	56	578	1.047	ug/l	96
15) Acrylonitrile	3.12	53	638	0.349	ug/l #	68
16) Acetone	2.42	43	2607	1.675	ug/l #	87
21) trans-1,2-Dichloroethene	3.14	96	831	0.271	ug/l #	71
27) cis-1,2-Dichloroethene	4.57	96	27566	8.213	ug/l	87
36) 1,1-Dichloropropene	5.64	75	18395	4.304	ug/l #	49
38) Carbon Tetrachloride	5.63	117	25041	5.765	ug/l #	13
44) Trichloroethene	7.19	130	2710	0.610	ug/l	84
60) Dibromochloromethane	9.32	129	1366	0.404	ug/l #	11
64) Tetrachloroethene	9.32	164	1442	0.281	ug/l	87
75) 1,1,2,2-Tetrachloroethane	11.26	83	73	2.074	ug/l #	26
76) 1,2,3-Trichloropropane	11.12	75	102979	20.808	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	102979	49.587	ug/l #	13
89) n-Butylbenzene	12.37	91	2659	0.201	ug/l	97
93) 1,2,4-Trichlorobenzene	13.63	180	1288	0.246	ug/l	97
94) Hexachlorobutadiene	13.77	225	1460	1.164	ug/l	91
96) 1,2,3-Trichlorobenzene	14.01	180	1238	0.242	ug/l	99

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

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QLast Update : Wed May 06 06:43:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX016308.D

Acq: 18 May 2020 19:12

Instrument :

MSVOA_X

ClientSampleId :

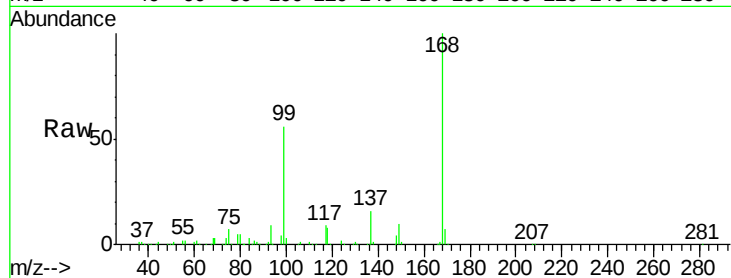
WP021MW348-200514

Tot Ion:168 Resp: 265041

Ion Ratio Lower Upper

168 100

99 55.5 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

100000

80000

60000

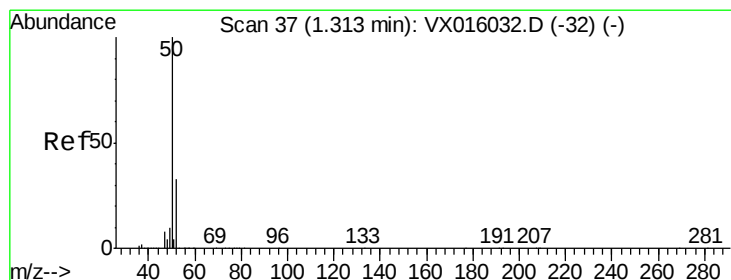
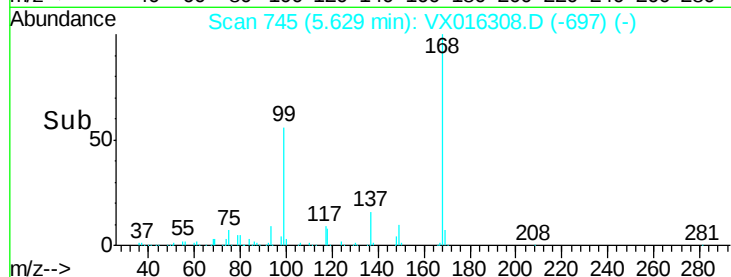
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.405 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX016308.D

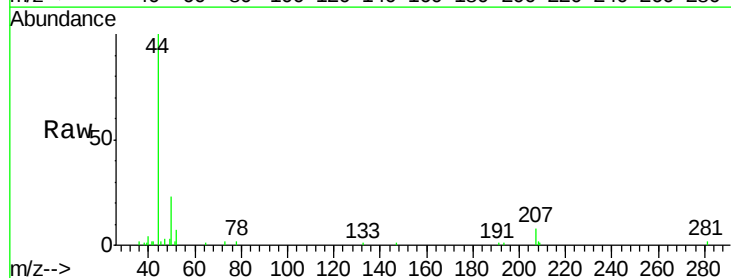
Acq: 18 May 2020 19:12

Tgt Ion: 50 Resp: 1321

Ion Ratio Lower Upper

50 100

52 31.7 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

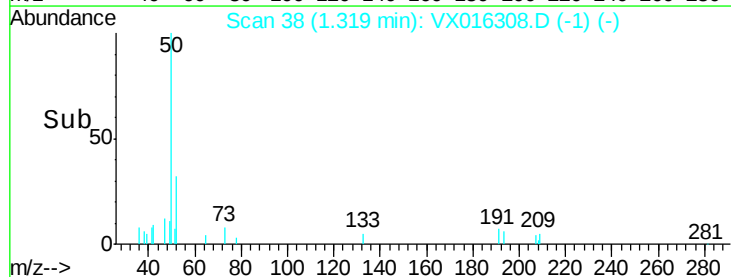
1000

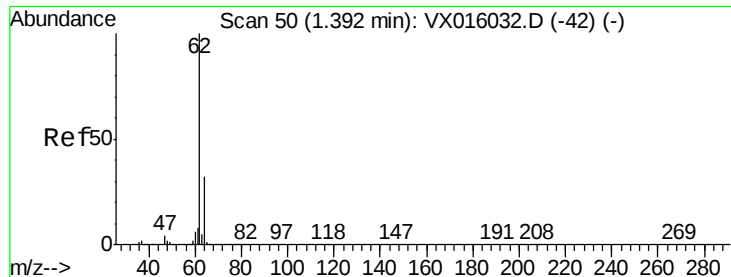
500

0

Time-->

1.30 1.35





#4

Vinyl Chloride

Concen: 0.258 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016308.D

Acq: 18 May 2020 19:12

Instrument :

MSVOA_X

ClientSampleId :

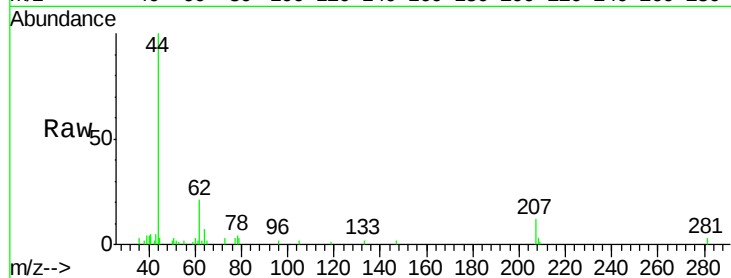
WP021MW348-200514

Tot Ion: 62 Resp: 897

Ion Ratio Lower Upper

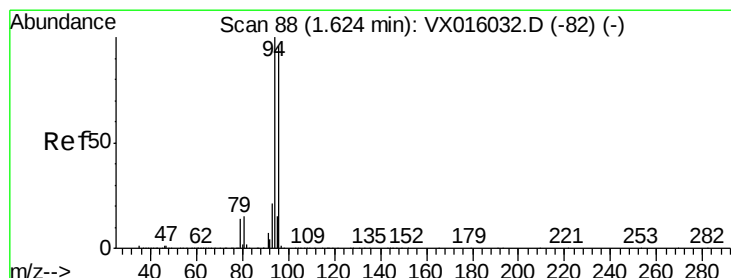
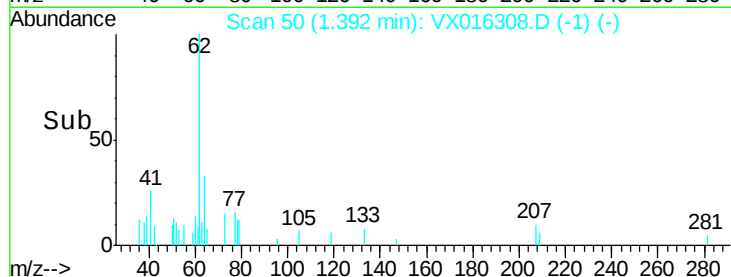
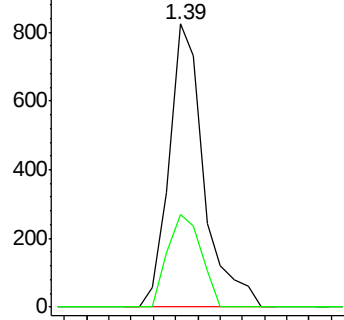
62 100

64 32.5 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.341 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX016308.D

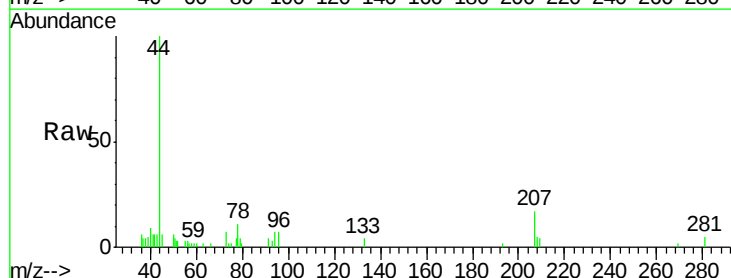
Acq: 18 May 2020 19:12

Tgt Ion: 94 Resp: 597

Ion Ratio Lower Upper

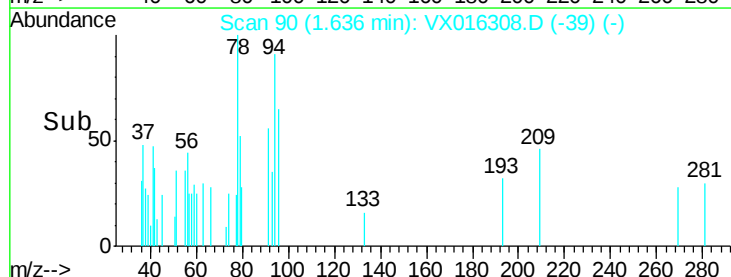
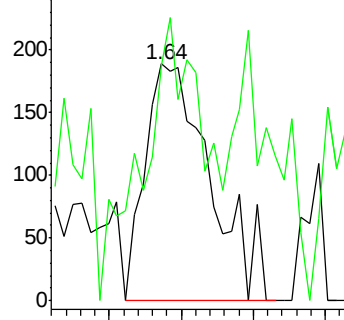
94 100

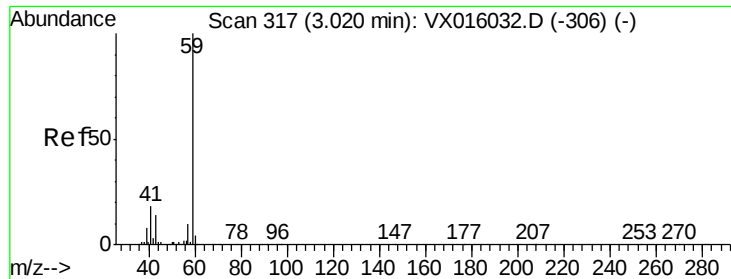
96 60.8 76.9 115.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



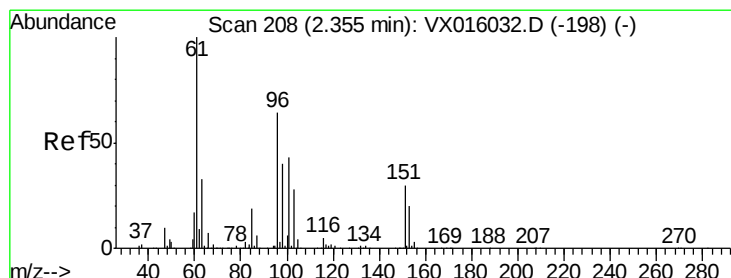
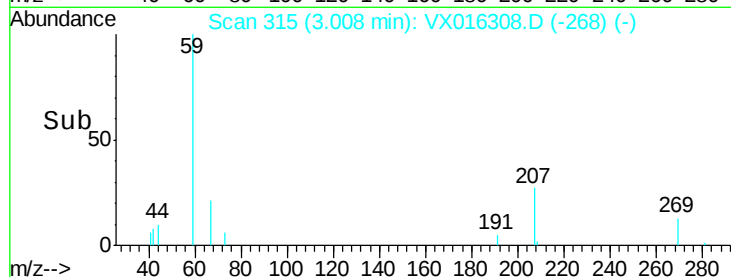
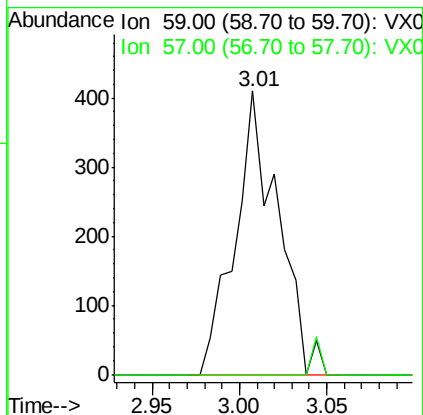
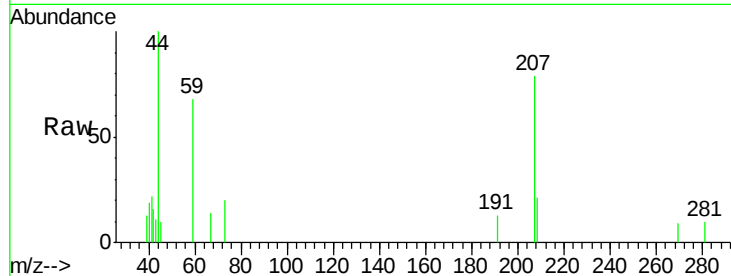


#11

Tert butyl alcohol
 Concen: 0.791 ug/l
 RT: 3.01 min Scan# 315
 Delta R.T. -0.01 min
 Lab File: VX016308.D
 Acq: 18 May 2020 19:12

Instrument :
 MSVOA_X
 ClientSampleId :
 WP021MW348-200514

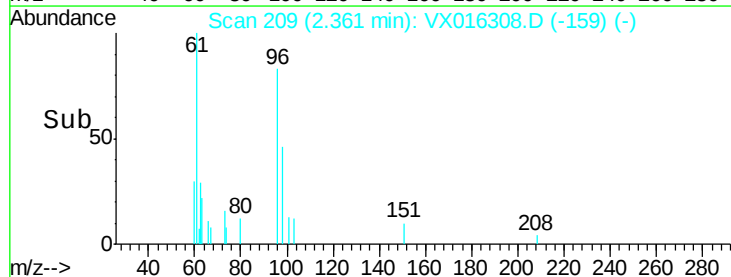
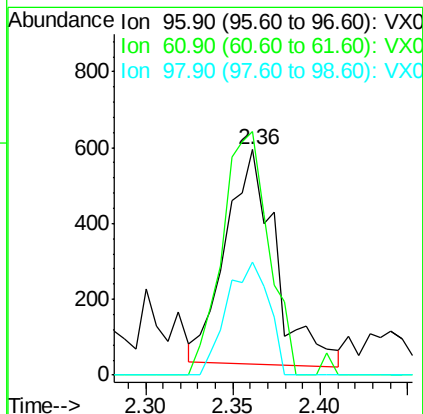
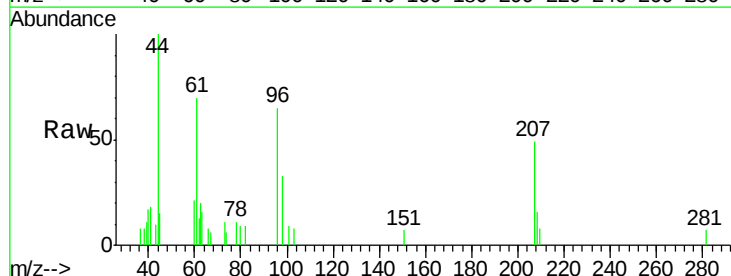
Tot Ion: 59 Resp: 698
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.4#

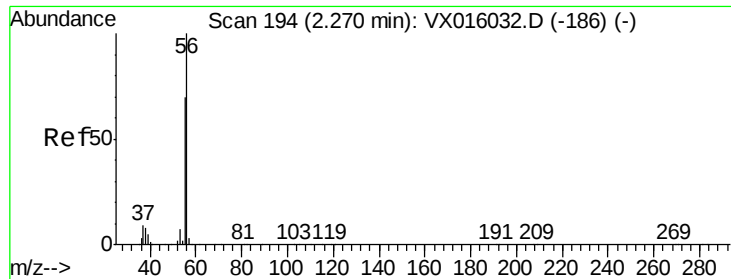


#12

1,1-Dichloroethene
 Concen: 0.411 ug/l
 RT: 2.36 min Scan# 209
 Delta R.T. 0.01 min
 Lab File: VX016308.D
 Acq: 18 May 2020 19:12

Tgt Ion: 96 Resp: 1131
 Ion Ratio Lower Upper
 96 100
 61 121.1 124.8 187.2#
 98 56.2 49.7 74.5





#13

Acrolein

Concen: 1.047 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VX016308.D

Acq: 18 May 2020 19:12

Instrument :

MSVOA_X

ClientSampleId :

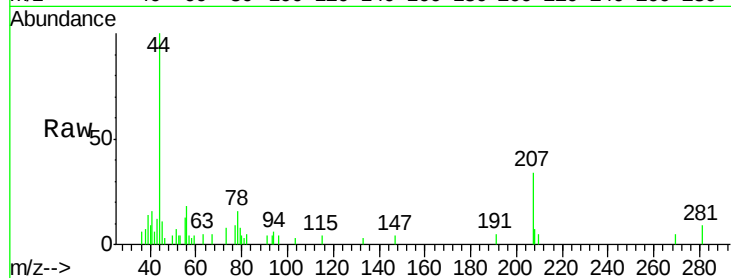
WP021MW348-200514

Tot Ion: 56 Resp: 578

Ion Ratio Lower Upper

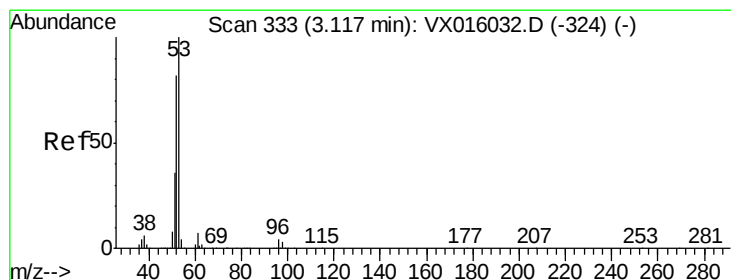
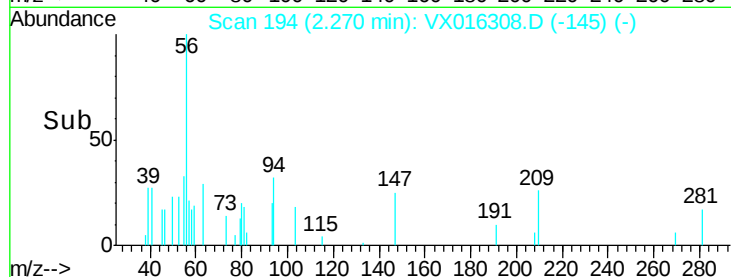
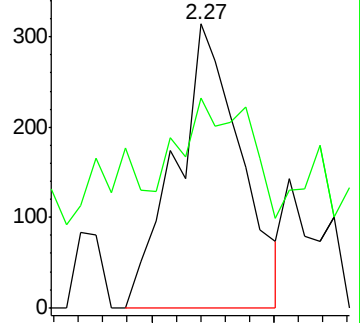
56 100

55 67.0 56.5 84.7



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.349 ug/l

RT: 3.12 min Scan# 333

Delta R.T. -0.00 min

Lab File: VX016308.D

Acq: 18 May 2020 19:12

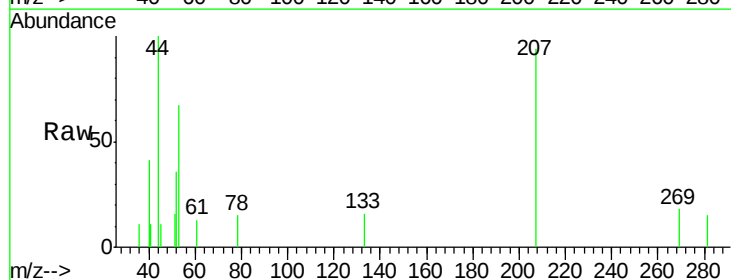
Tgt Ion: 53 Resp: 638

Ion Ratio Lower Upper

53 100

52 40.9 66.1 99.1#

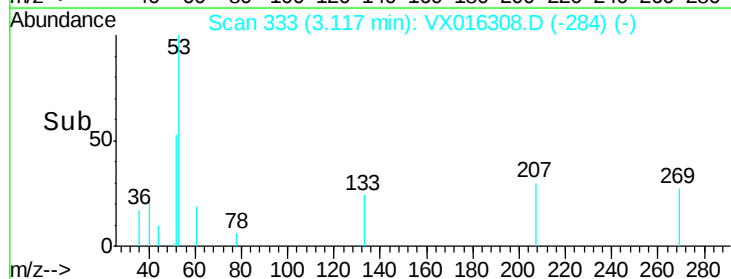
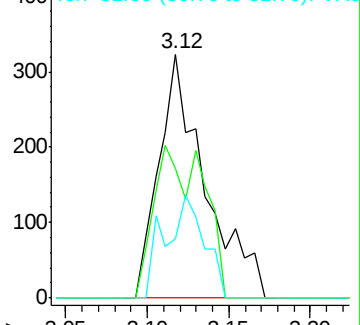
51 36.1 28.8 43.2

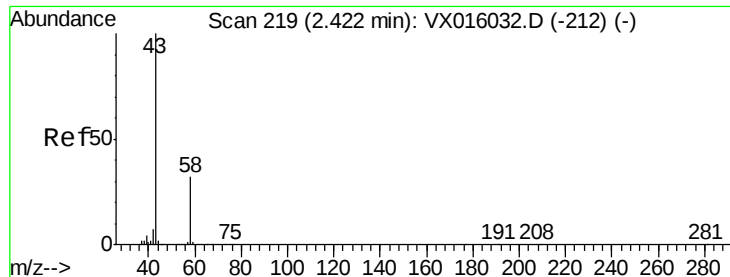


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 1.675 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016308.D

Acq: 18 May 2020 19:12

Instrument :

MSVOA_X

ClientSampleId :

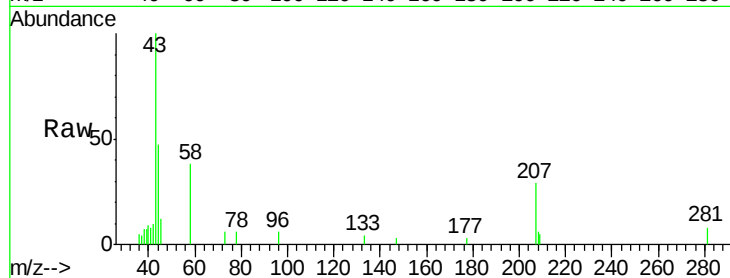
WP021MW348-200514

Tot Ion: 43 Resp: 2607

Ion Ratio Lower Upper

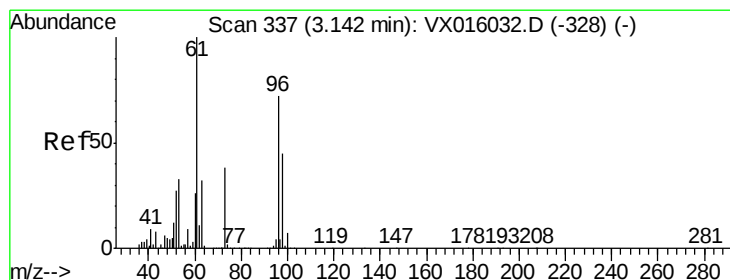
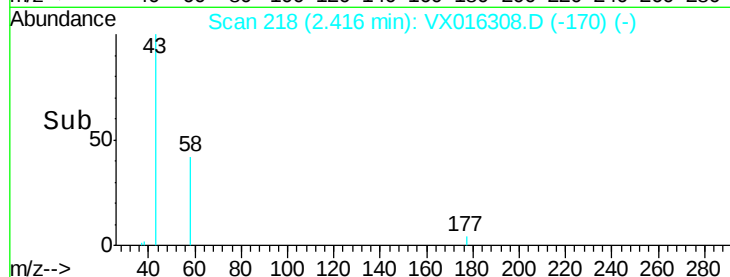
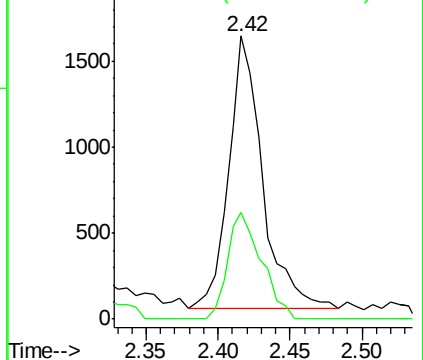
43 100

58 39.1 25.4 38.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#21

trans-1,2-Dichloroethene

Concen: 0.271 ug/l

RT: 3.14 min Scan# 337

Delta R.T. -0.00 min

Lab File: VX016308.D

Acq: 18 May 2020 19:12

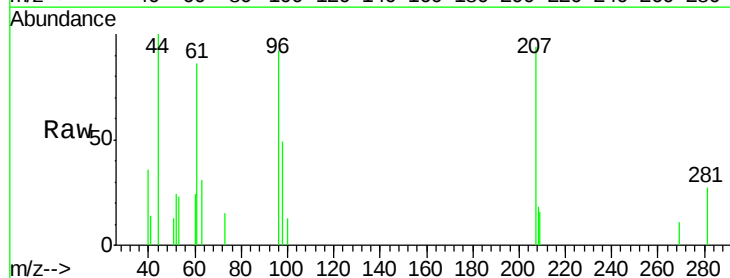
Tgt Ion: 96 Resp: 831

Ion Ratio Lower Upper

96 100

61 94.2 111.2 166.8#

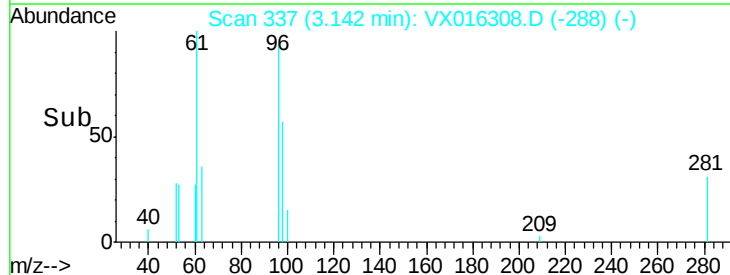
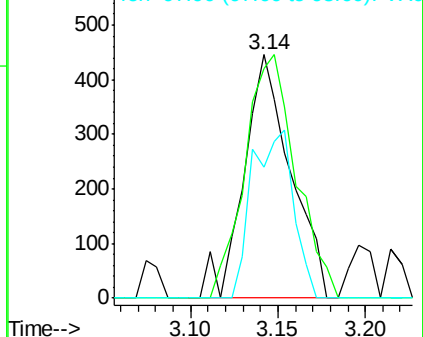
98 53.8 50.2 75.4

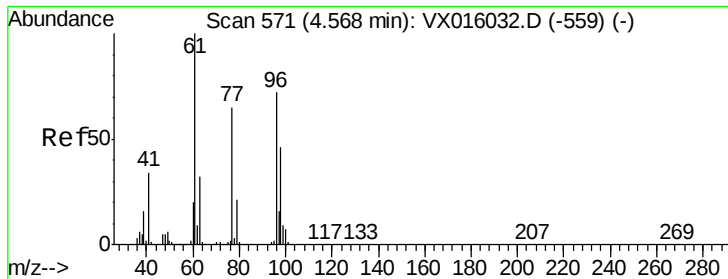


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



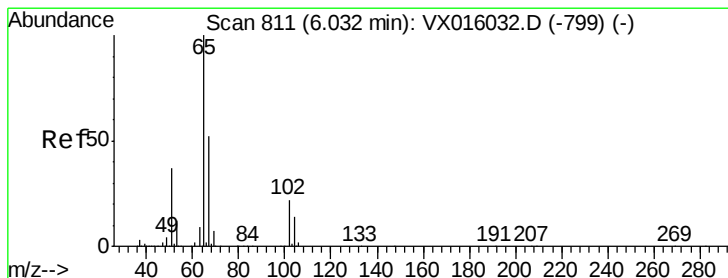
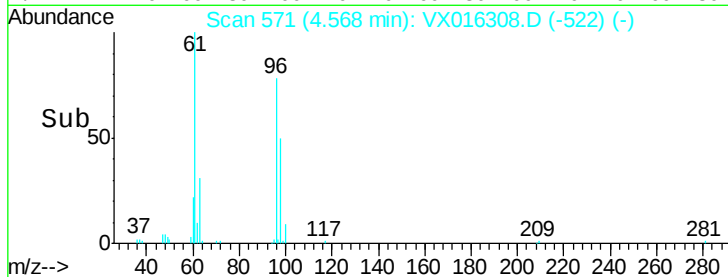
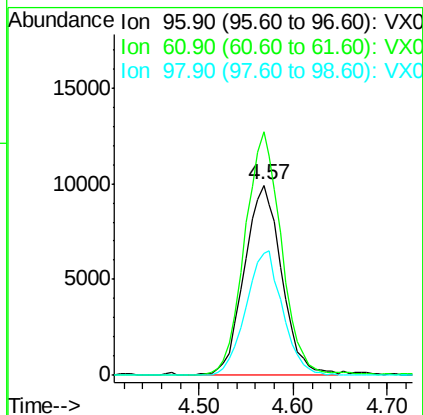
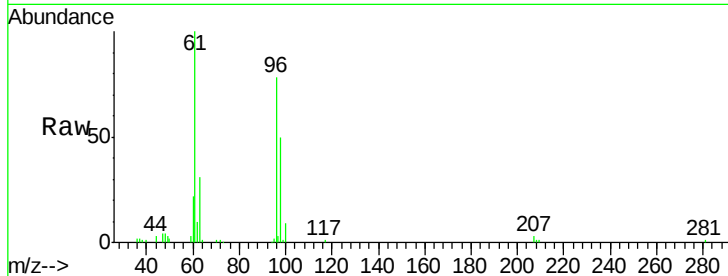


#27

cis-1,2-Dichloroethene
 Concen: 8.213 ug/l
 RT: 4.57 min Scan# 571
 Delta R.T. -0.00 min
 Lab File: VX016308.D
 Acq: 18 May 2020 19:12

Instrument :
 MSVOA_X
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 WP021MW348-200514

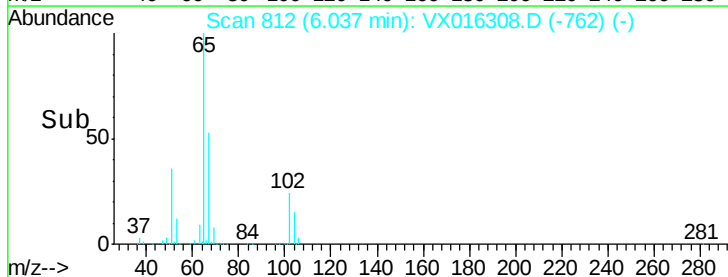
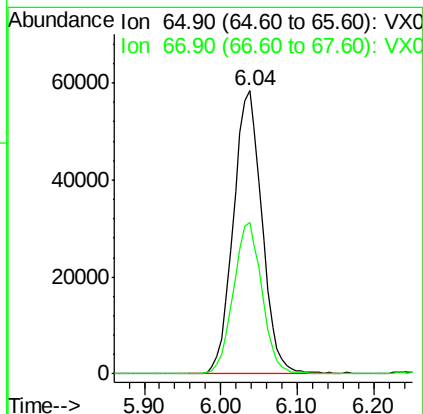
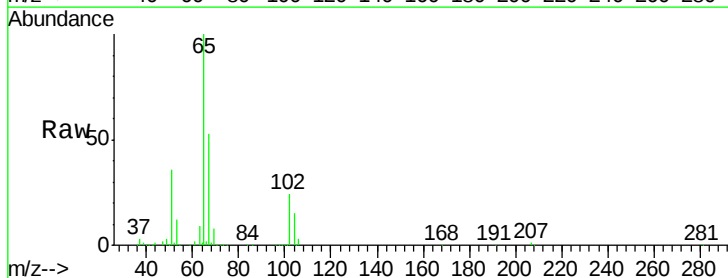
Tot Ion	Ratio	Lower	Upper
96	100		
61	125.8	0.0	296.2
98	64.3	0.0	129.4

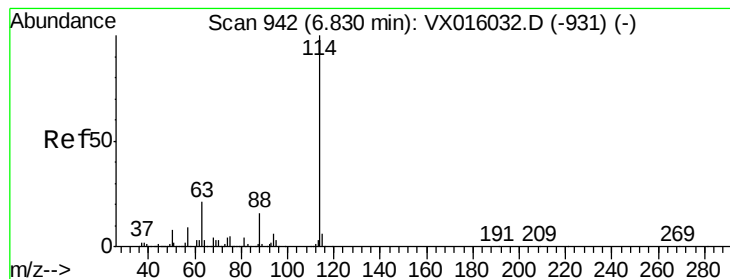


#33

1,2-Dichloroethane-d4
 Concen: 43.524 ug/l
 RT: 6.04 min Scan# 812
 Delta R.T. 0.01 min
 Lab File: VX016308.D
 Acq: 18 May 2020 19:12

Tgt Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016308.D

Acq: 18 May 2020 19:12

Instrument :

MSVOA_X

ClientSampleId :

WP021MW348-200514

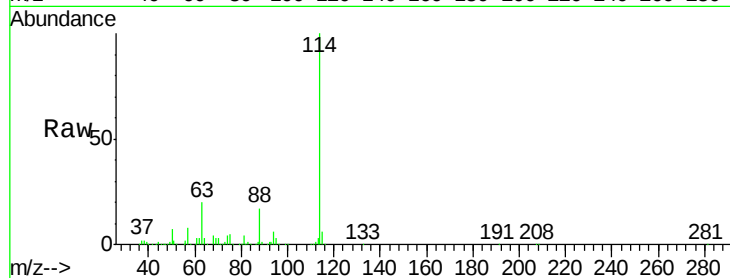
Tot Ion:114 Resp: 434160

Ion Ratio Lower Upper

114 100

63 20.2 0.0 42.8

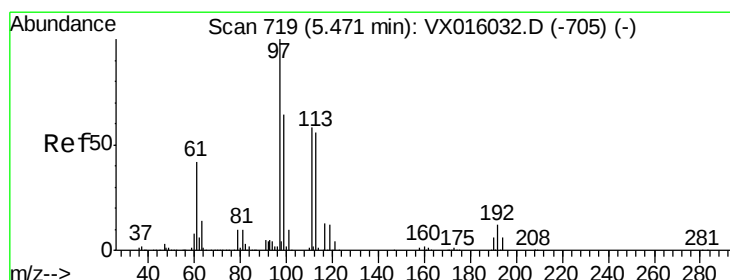
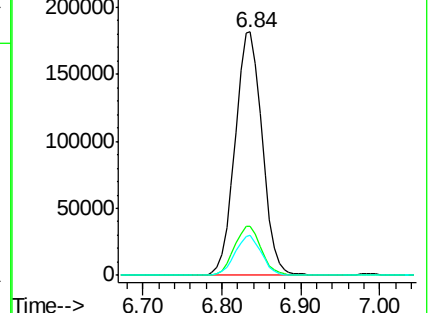
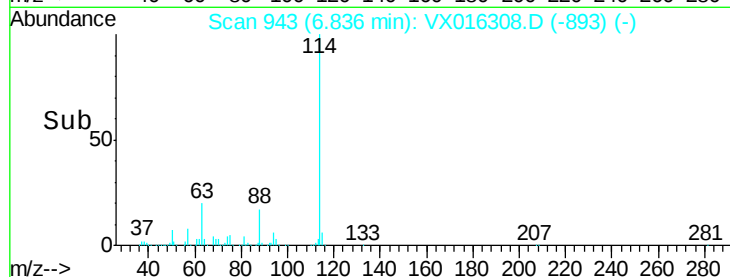
88 16.5 0.0 31.4



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: 45.356 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX016308.D

Acq: 18 May 2020 19:12

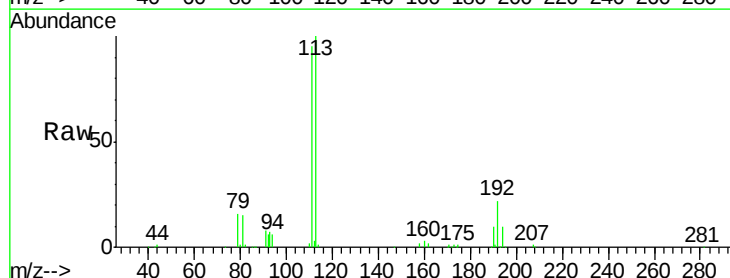
Tgt Ion:113 Resp: 124756

Ion Ratio Lower Upper

113 100

111 101.0 81.6 122.4

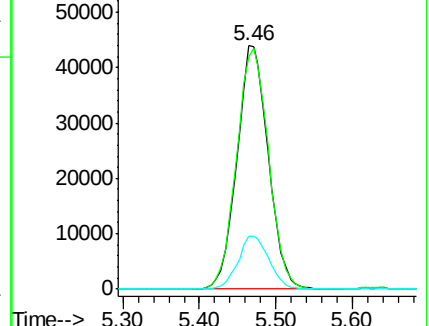
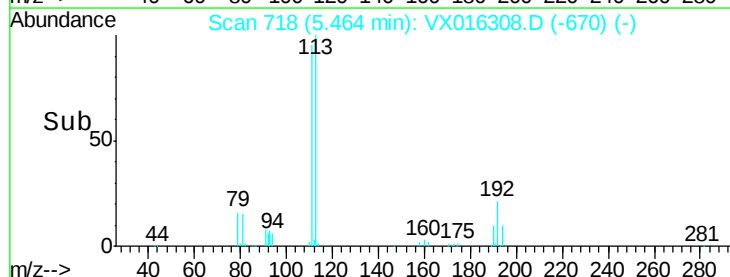
192 21.7 17.0 25.4

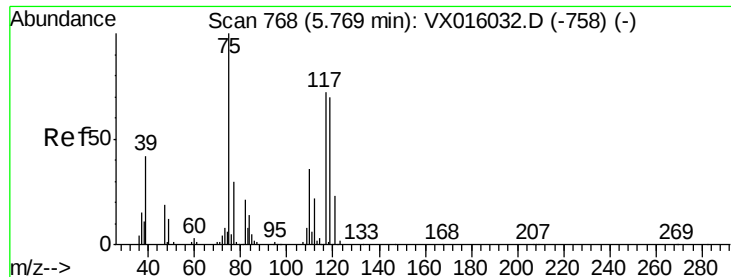


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.304 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX016308.D

Acq: 18 May 2020 19:12

Instrument :

MSVOA_X

ClientSampleId :

WP021MW348-200514

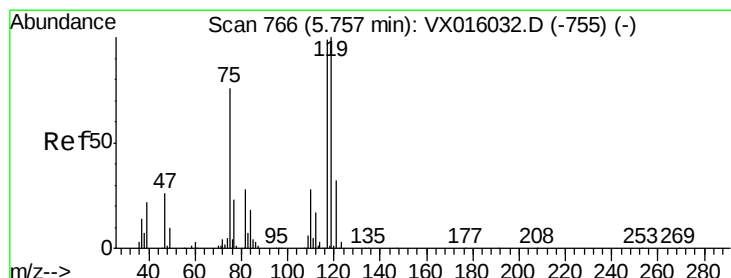
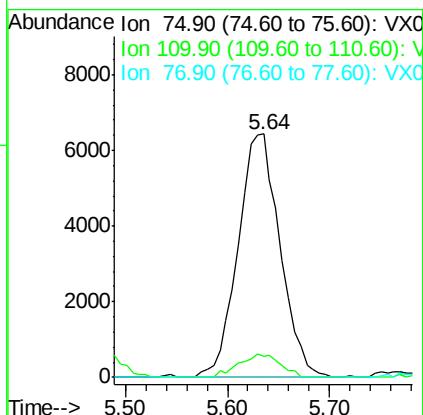
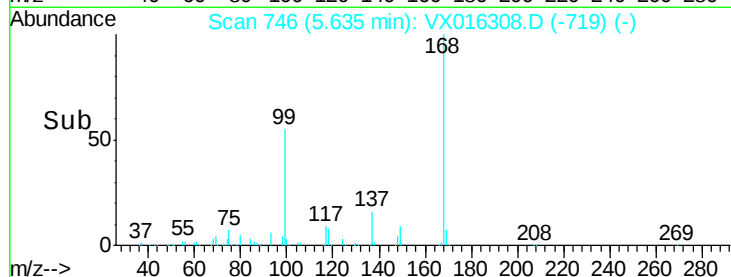
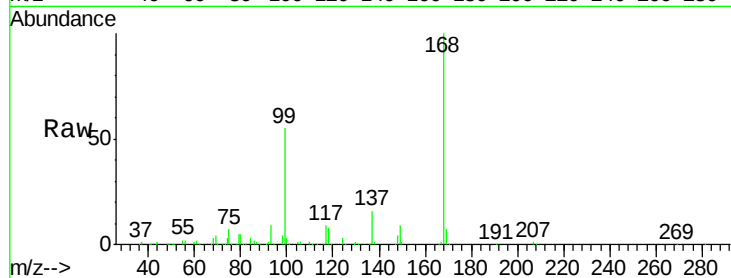
Tot Ion: 75 Resp: 18395

Ion Ratio Lower Upper

75 100

110 9.3 18.1 54.1#

77 0.0 25.0 37.6#



#38

Carbon Tetrachloride

Concen: 5.765 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016308.D

Acq: 18 May 2020 19:12

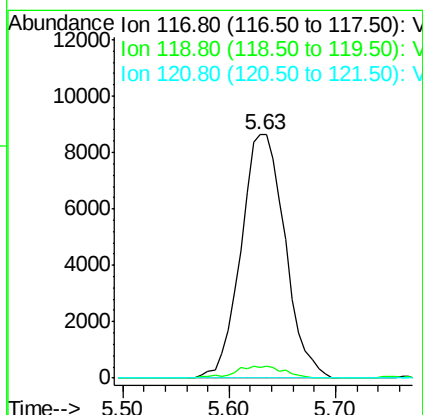
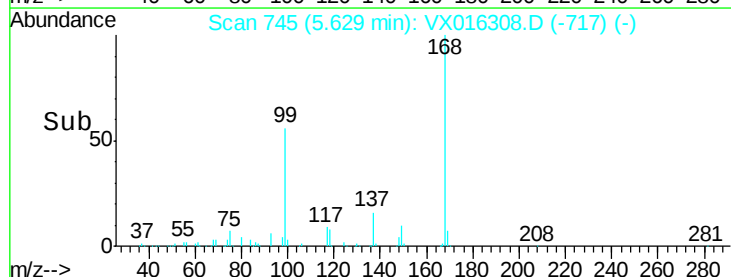
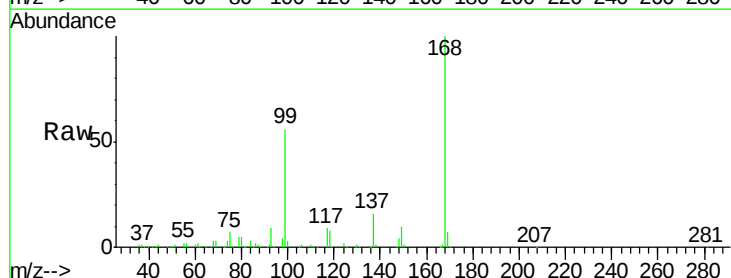
Tgt Ion: 117 Resp: 25041

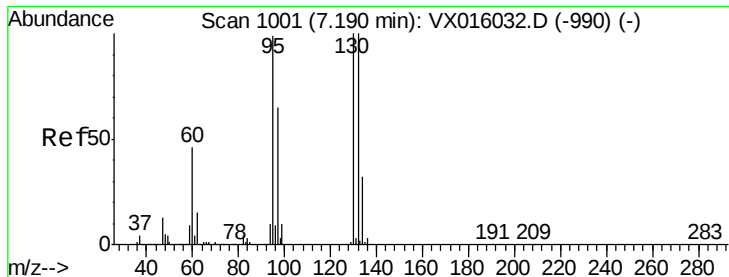
Ion Ratio Lower Upper

117 100

119 4.3 80.3 120.5#

121 0.0 25.7 38.5#





#44

Trichloroethene

Concen: 0.610 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX016308.D

Acq: 18 May 2020 19:12

Instrument :

MSVOA_X

ClientSampleId :

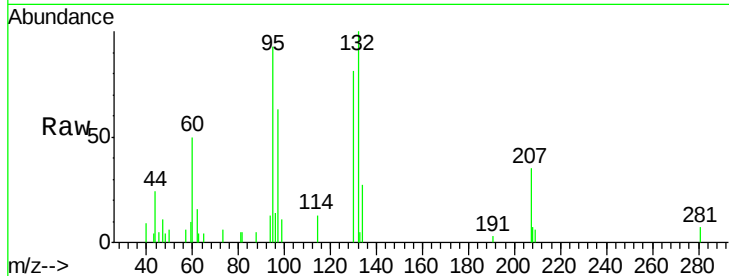
WP021MW348-200514

Tot Ion:130 Resp: 2710

Ion Ratio Lower Upper

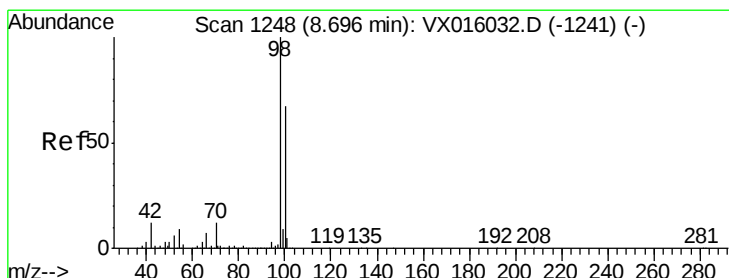
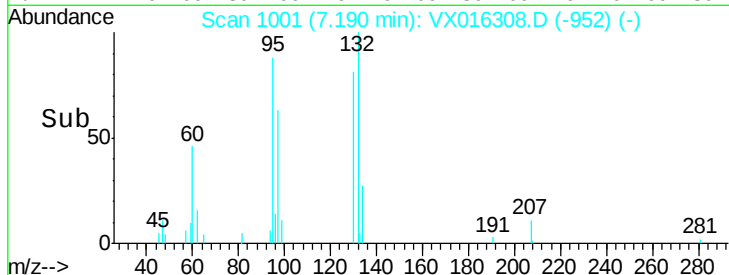
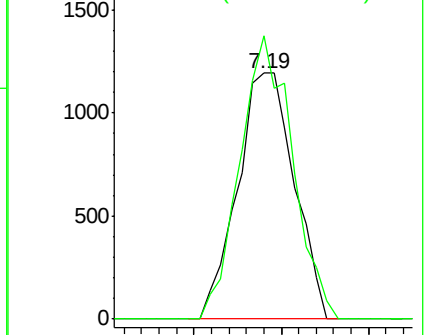
130 100

95 115.0 0.0 197.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 49.931 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016308.D

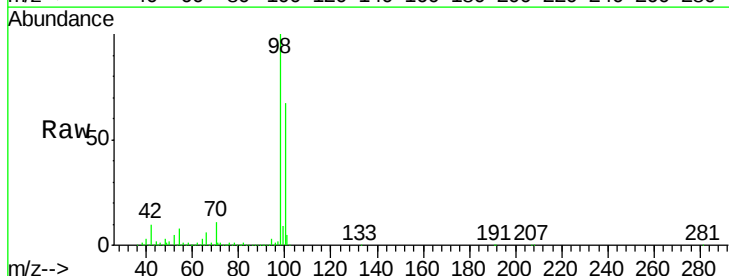
Acq: 18 May 2020 19:12

Tgt Ion: 98 Resp: 529181

Ion Ratio Lower Upper

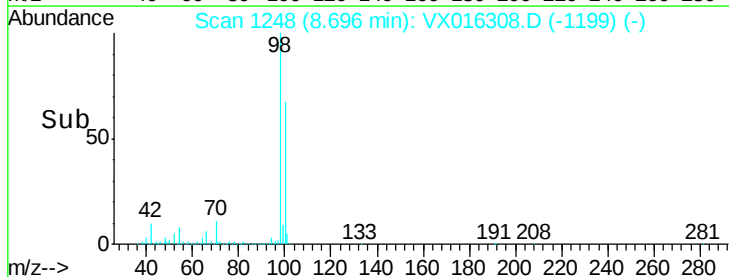
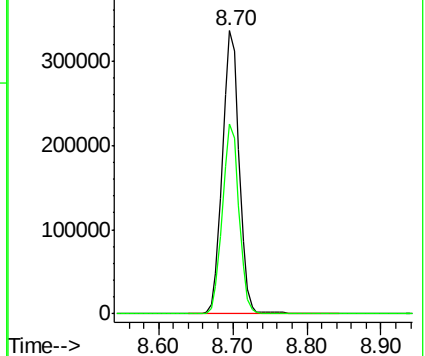
98 100

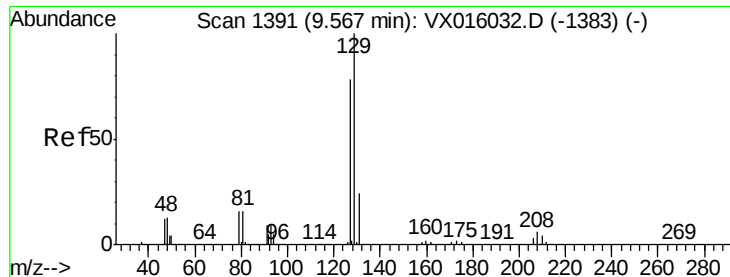
100 66.8 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#60

Dibromochloromethane

Concen: 0.404 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.25 min

Lab File: VX016308.D

Acq: 18 May 2020 19:12

Instrument :

MSVOA_X

ClientSampleId :

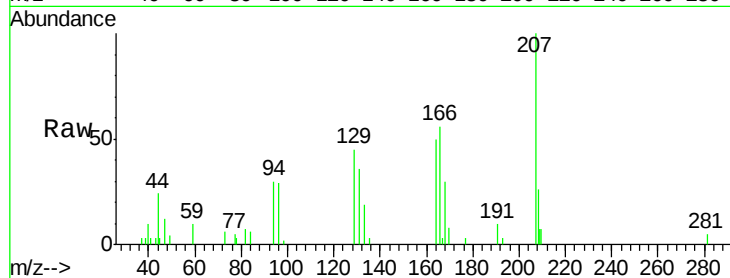
WP021MW348-200514

Tot Ion:129 Resp: 1366

Ion Ratio Lower Upper

129 100

127 0.0 38.4 115.2#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.32

1000

800

600

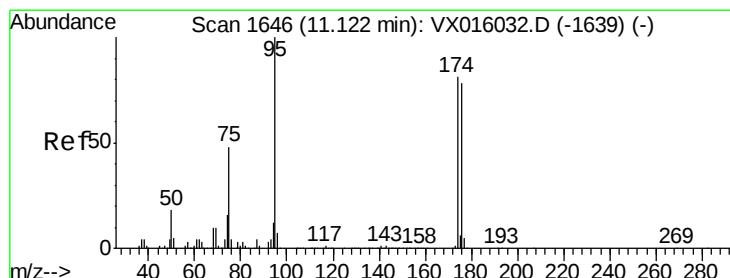
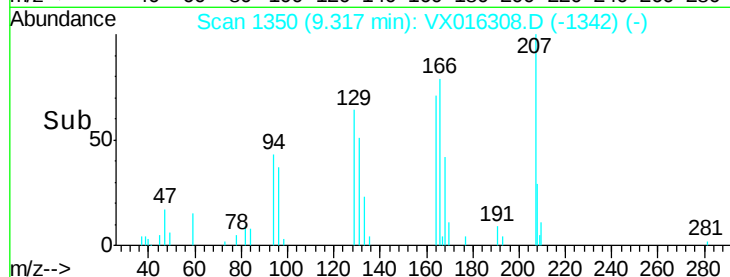
400

200

0

9.30 9.35

Time-->



#62

4-Bromofluorobenzene

Concen: 52.329 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016308.D

Acq: 18 May 2020 19:12

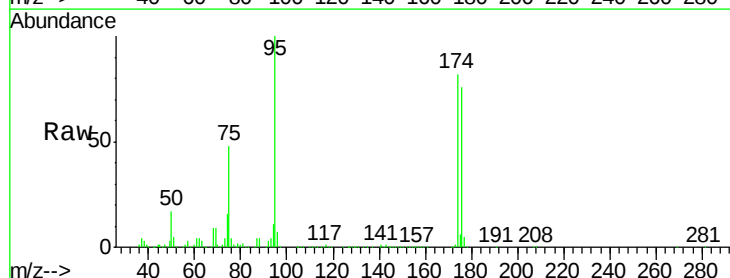
Tgt Ion: 95 Resp: 210943

Ion Ratio Lower Upper

95 100

174 82.2 0.0 159.4

176 79.0 0.0 157.6



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

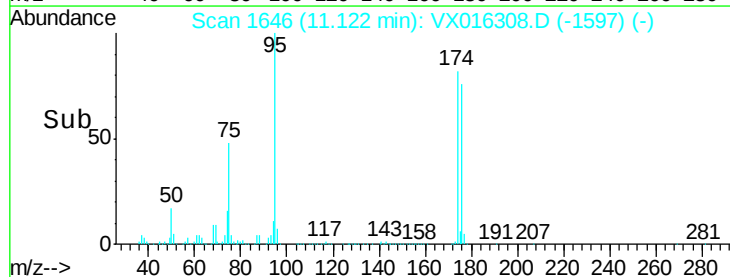
100000

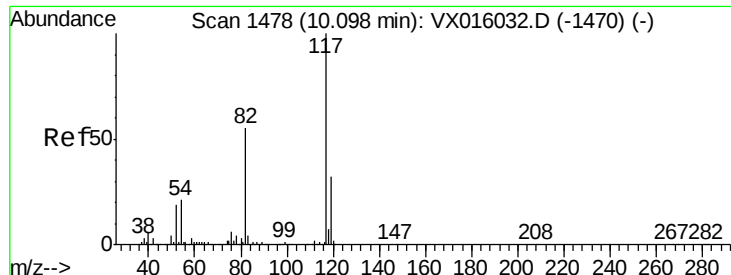
50000

0

11.10 11.20

Time-->

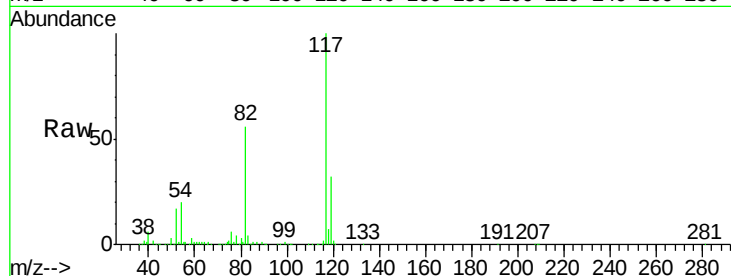




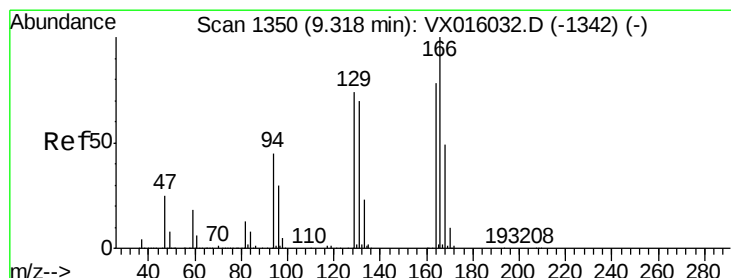
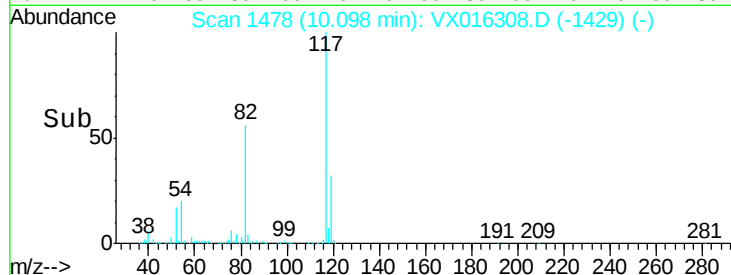
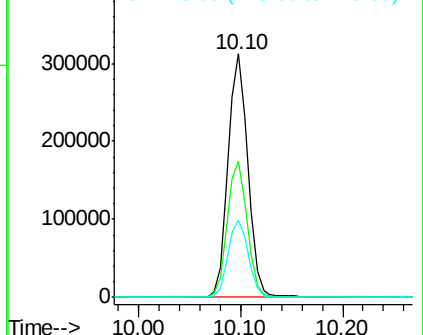
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016308.D
Acq: 18 May 2020 19:12

Instrument :
MSVOA_X
ClientSampleId :
WP021MW348-200514

Tot Ion:117 Resp: 418099
Ion Ratio Lower Upper
117 100
82 55.6 44.4 66.6
119 31.6 25.5 38.3

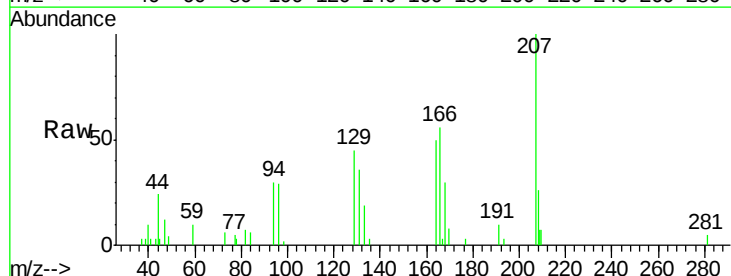


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

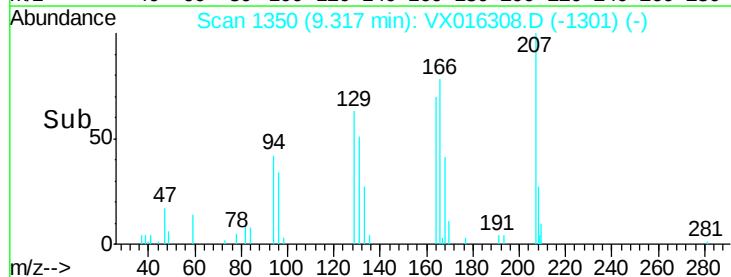
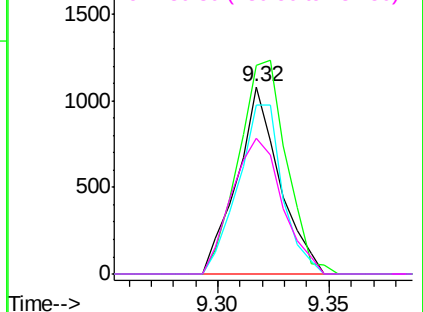


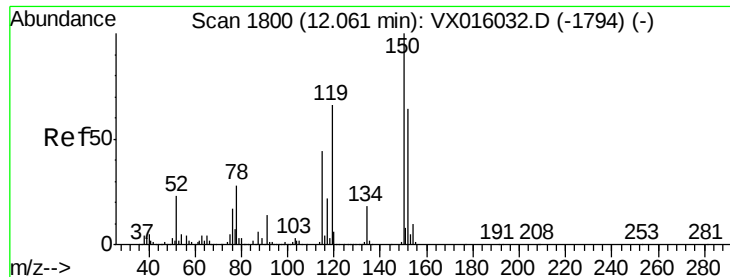
#64
Tetrachloroethene
Concen: 0.281 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. -0.00 min
Lab File: VX016308.D
Acq: 18 May 2020 19:12

Tgt Ion:164 Resp: 1442
Ion Ratio Lower Upper
164 100
166 111.6 102.9 154.3
129 90.4 76.1 114.1
131 72.3 71.9 107.9



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: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016308.D

Acq: 18 May 2020 19:12

Instrument :

MSVOA_X

ClientSampleId :

WP021MW348-200514

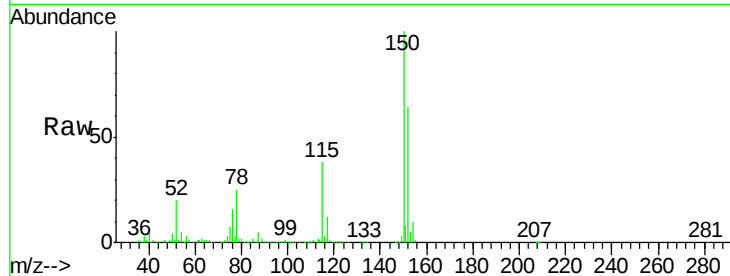
Tot Ion:152 Resp: 218091

Ion Ratio Lower Upper

152 100

115 58.6 41.3 124.1

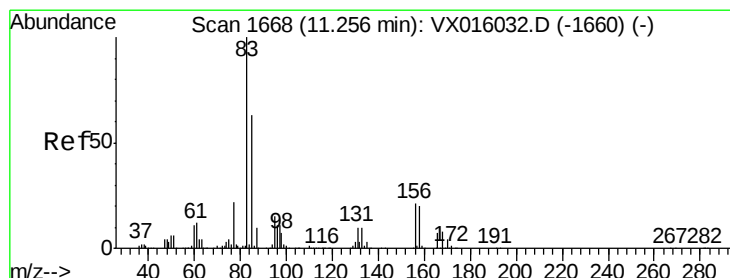
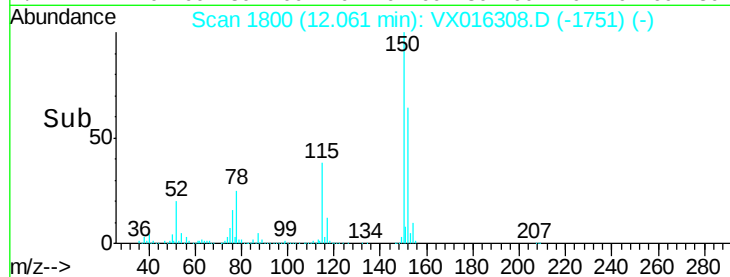
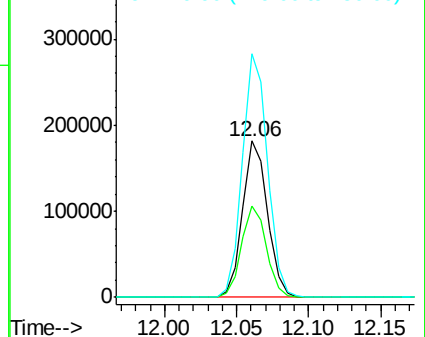
150 156.9 0.0 352.2



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



#75

1,1,2,2-Tetrachloroethane

Concen: 2.074 ug/l

RT: 11.26 min Scan# 1668

Delta R.T. 0.00 min

Lab File: VX016308.D

Acq: 18 May 2020 19:12

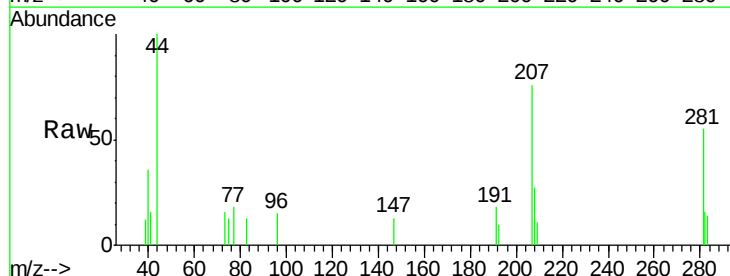
Tgt Ion: 83 Resp: 73

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

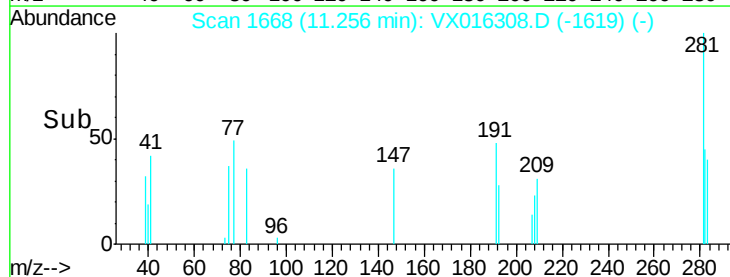
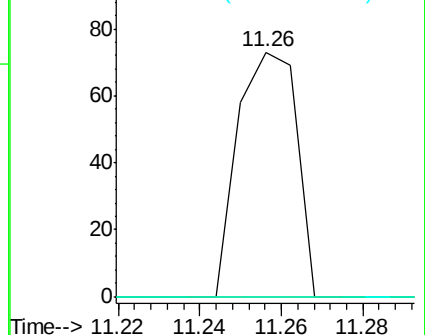
85 0.0 32.0 96.0#

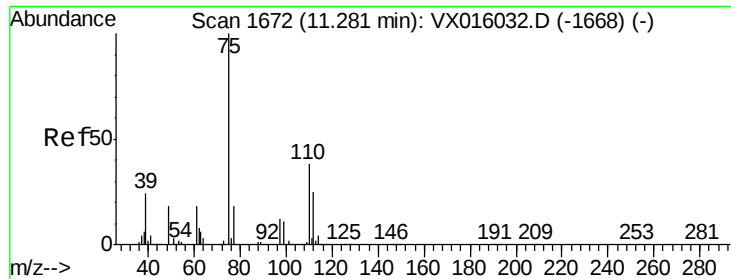


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0





#76

1,2,3-Trichloropropane

Concen: 20.808 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016308.D

Acq: 18 May 2020 19:12

Instrument :

MSVOA_X

ClientSampleId :

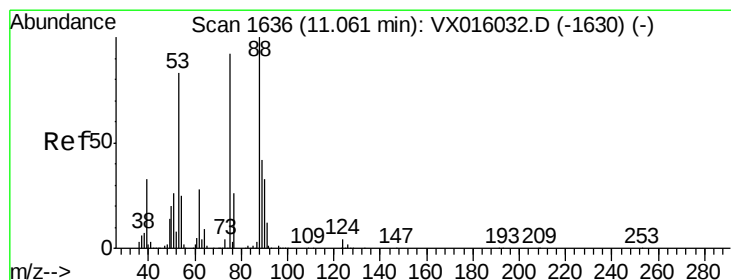
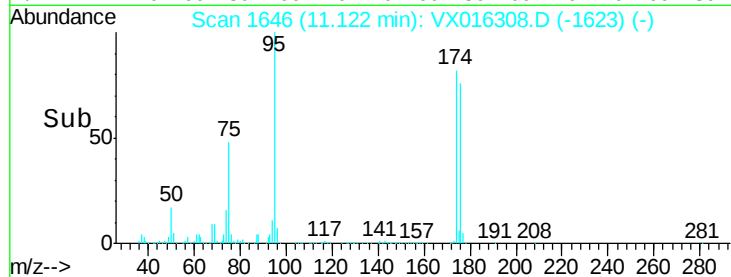
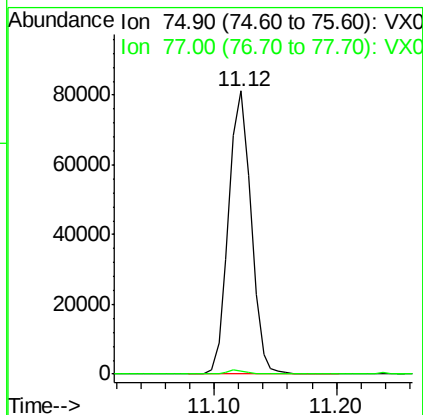
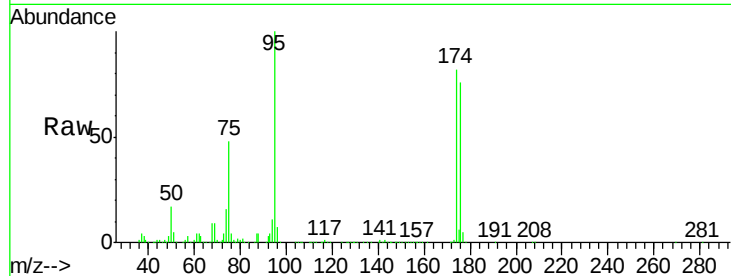
WP021MW348-200514

Tot Ion: 75 Resp: 102979

Ion Ratio Lower Upper

75 100

77 1.3 21.2 63.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 49.587 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016308.D

Acq: 18 May 2020 19:12

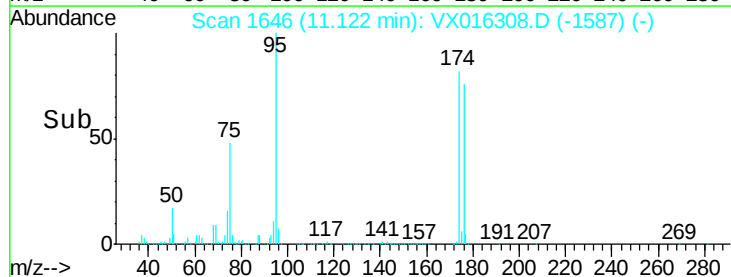
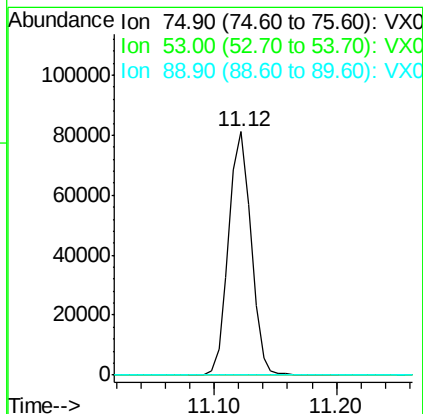
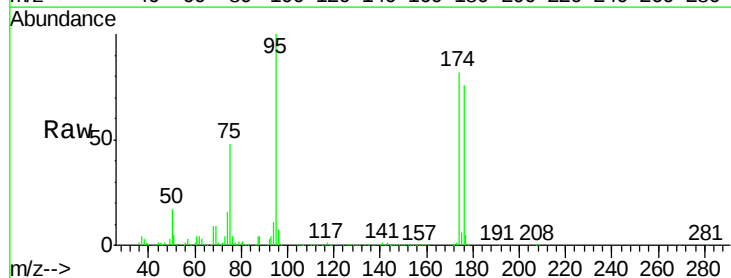
Tgt Ion: 75 Resp: 102979

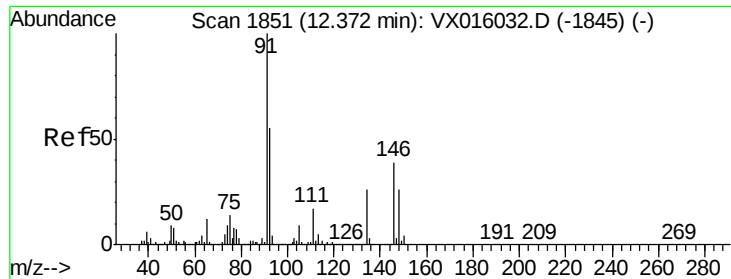
Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

89 0.0 36.7 55.1#

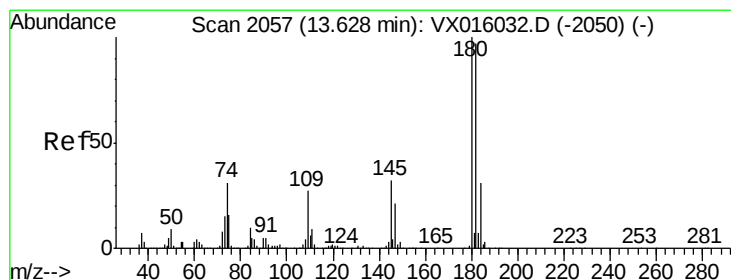
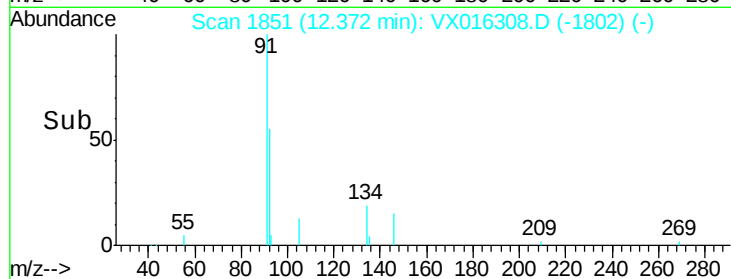
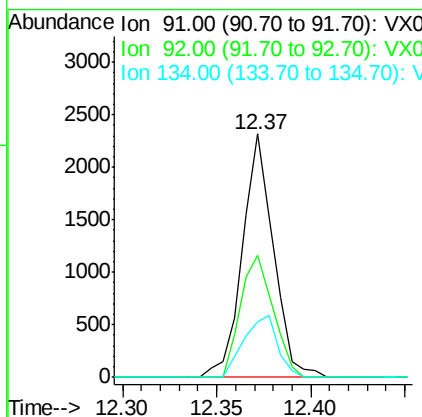
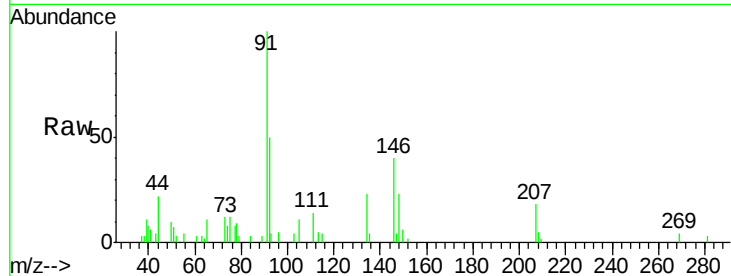




#89
n-Butylbenzene
Concen: 0.201 ug/l
RT: 12.37 min Scan# 1851
Delta R.T. -0.00 min
Lab File: VX016308.D
Acq: 18 May 2020 19:12

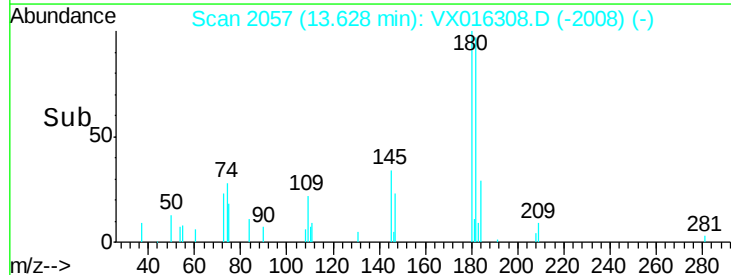
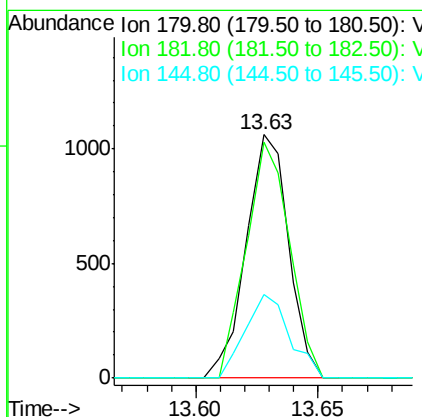
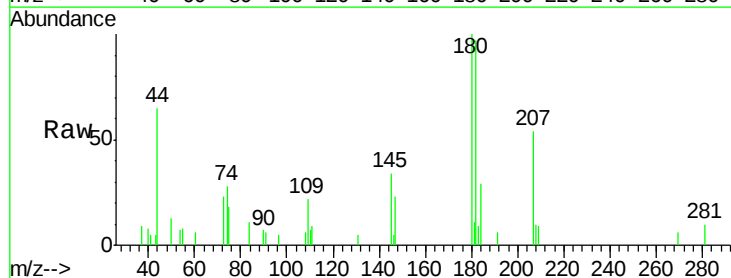
Instrument :
MSVOA_X
ClientSampleId :
WP021MW348-200514

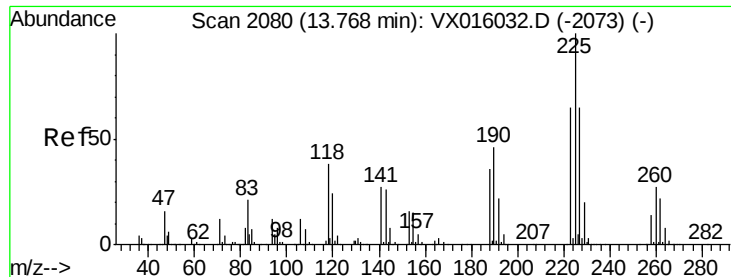
Tot Ion: 91 Resp: 2659
Ion Ratio Lower Upper
91 100
92 52.5 27.6 82.7
134 27.6 13.4 40.1



#93
1,2,4-Trichlorobenzene
Concen: 0.246 ug/l
RT: 13.63 min Scan# 2057
Delta R.T. -0.00 min
Lab File: VX016308.D
Acq: 18 May 2020 19:12

Tgt Ion: 180 Resp: 1288
Ion Ratio Lower Upper
180 100
182 99.1 48.7 146.1
145 35.6 15.7 47.1





#94

Hexachlorobutadiene

Concen: 1.164 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX016308.D

Acq: 18 May 2020 19:12

Instrument :

MSVOA_X

ClientSampleId :

WP021MW348-200514

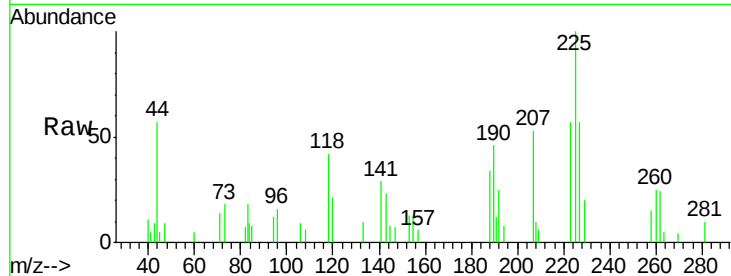
Tot Ion:225 Resp: 1460

Ion Ratio Lower Upper

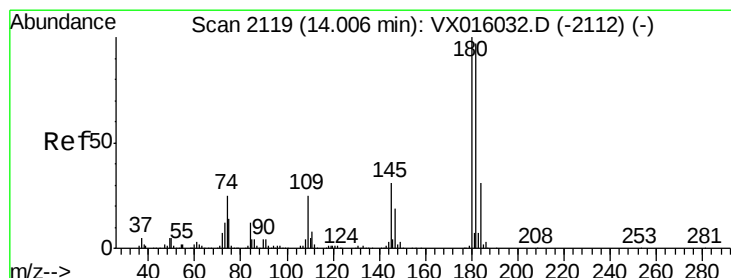
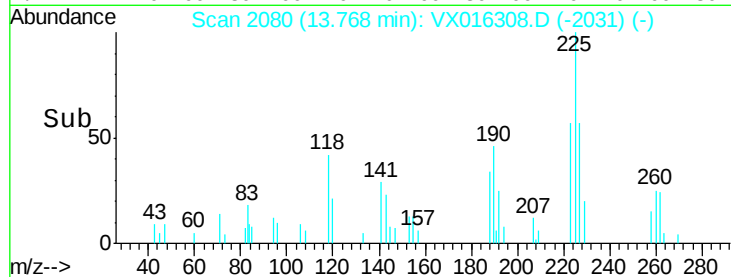
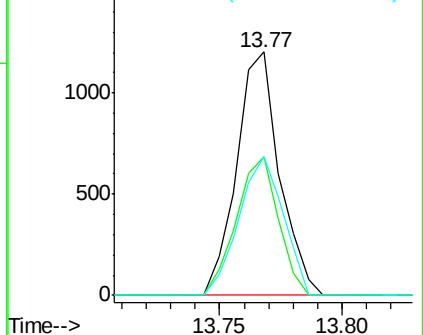
225 100

223 55.7 32.3 96.9

227 58.8 31.8 95.4



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#96

1,2,3-Trichlorobenzene

Concen: 0.242 ug/l

RT: 14.01 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VX016308.D

Acq: 18 May 2020 19:12

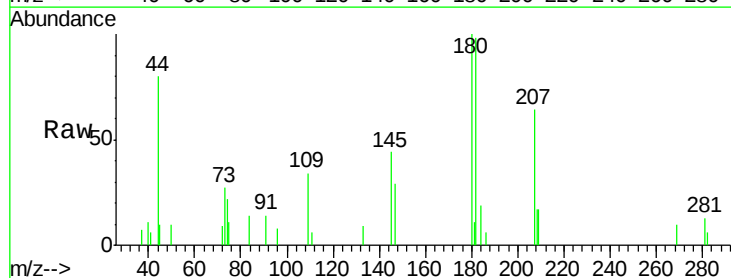
Tgt Ion:180 Resp: 1238

Ion Ratio Lower Upper

180 100

182 96.8 48.4 145.0

145 34.7 16.4 49.1



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

