

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX070720\
 Data File : VX017209.D
 Acq On : 07 Jul 2020 17:23
 Operator : JC/SP
 Sample : L3159-16DL 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 46BR-20200629DL

Quant Time: Jul 08 01:54:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 29 17:10:38 2020
 Response via : Initial Calibration

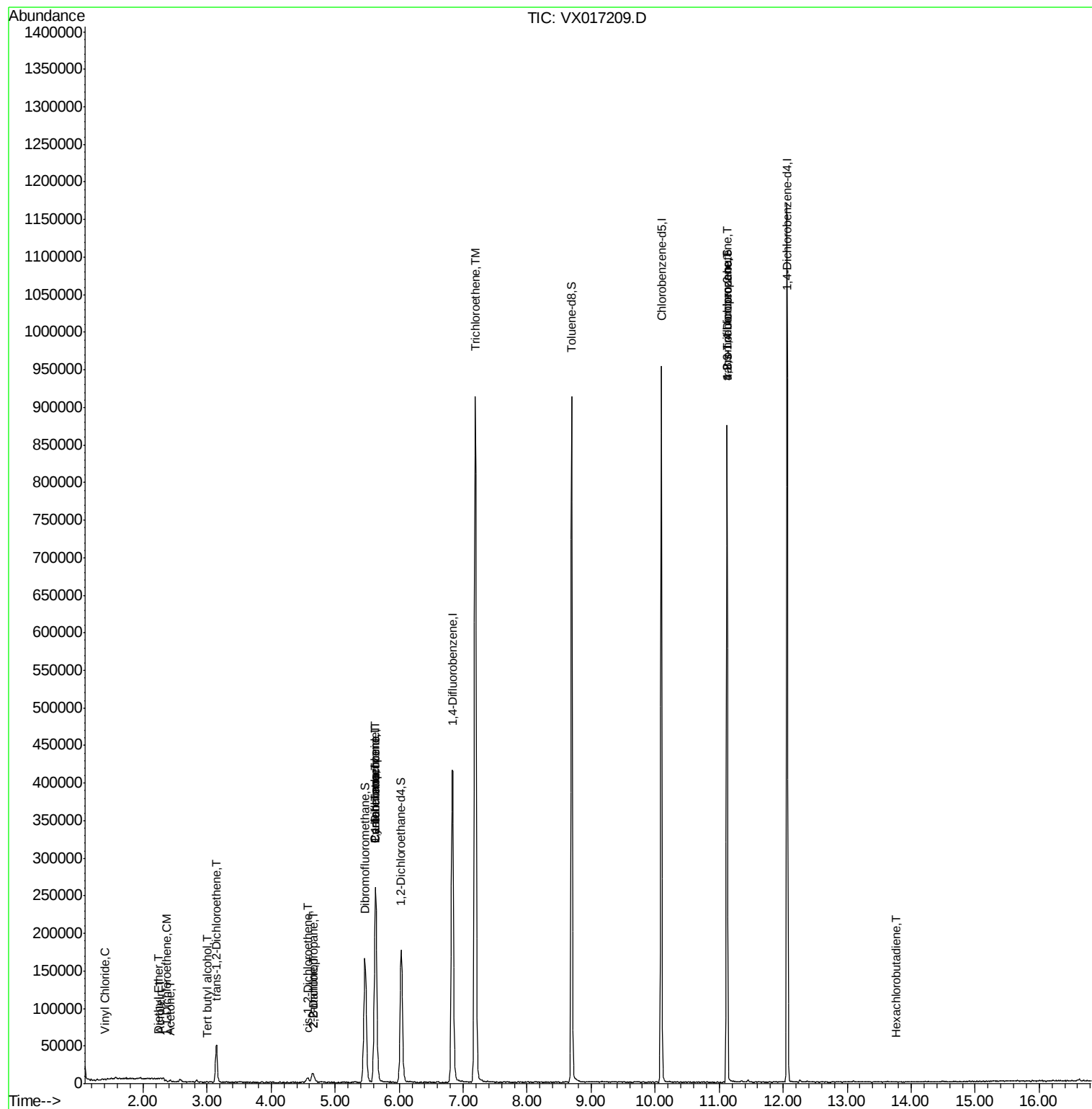
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	250394	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	427606	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	444996	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	237844	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	167542	54.28	ug/l	0.00
Spiked Amount 50.000			Recovery	=	108.56%	
35) Dibromofluoromethane	5.46	113	143450	53.03	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.06%	
50) Toluene-d8	8.70	98	523877	52.38	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.76%	
62) 4-Bromofluorobenzene	11.12	95	214709	54.91	ug/l	0.00
Spiked Amount 50.000			Recovery	=	109.82%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.39	62	925	0.340	ug/l #	82
8) Diethyl Ether	2.25	74	110	0.446	ug/l	52
11) Tert butyl alcohol	3.01	59	639	1.085	ug/l #	92
12) 1,1-Dichloroethene	2.37	96	500	0.202	ug/l #	27
13) Acrolein	2.27	56	259	0.736	ug/l #	72
16) Acetone	2.42	43	1395	1.208	ug/l #	84
20) Methylene Chloride	2.84	84	1131	Below Cal	#	84
21) trans-1,2-Dichloroethene	3.15	96	21237	7.725	ug/l	95
25) 2-Butanone	4.65	43	1223	0.636	ug/l #	49
26) 2,2-Dichloropropane	4.65	77	1159	0.271	ug/l #	53
27) cis-1,2-Dichloroethene	4.57	96	4001	1.284	ug/l	90
31) Cyclohexane	5.64	56	5020	1.205	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	18862	4.667	ug/l #	52
38) Carbon Tetrachloride	5.64	117	24966	5.609	ug/l #	18
44) Trichloroethene	7.19	130	359162	109.982	ug/l	96
76) 1,2,3-Trichloropropane	11.12	75	104796	22.406	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	104796	58.024	ug/l #	13
88) 1,4-Dichlorobenzene	12.09	146	400	Below Cal	#	25
94) Hexachlorobutadiene	13.76	225	19	0.854	ug/l #	17

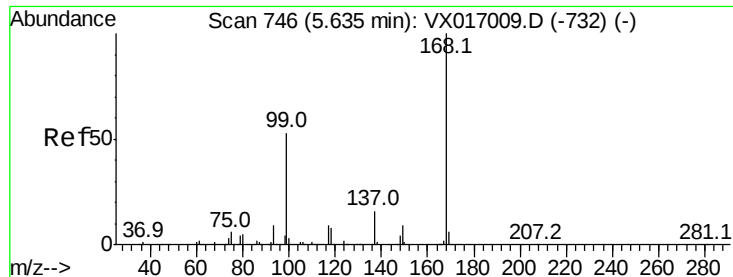
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017209.D

Acq: 07 Jul 2020 17:23

Instrument :

MSVOA_X

ClientSampleId :

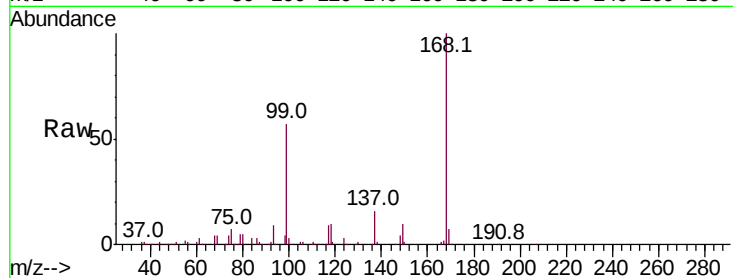
46BR-20200629DL

Tot Ion:168 Resp: 250394

Ion Ratio Lower Upper

168 100

99 57.1 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

80000

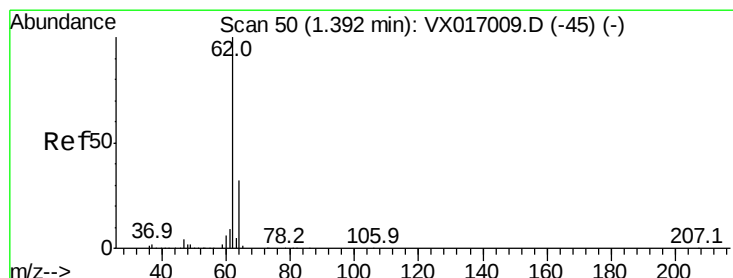
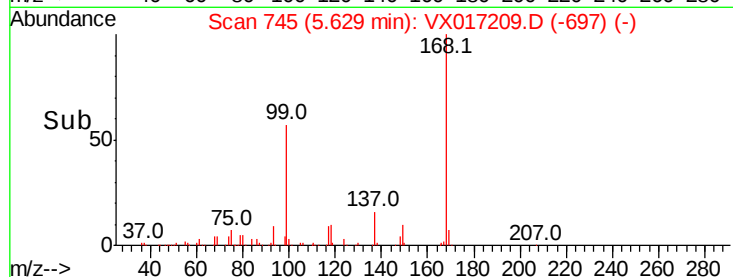
60000

40000

20000

0

Time-->



#4

Vinyl Chloride

Concen: 0.340 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX017209.D

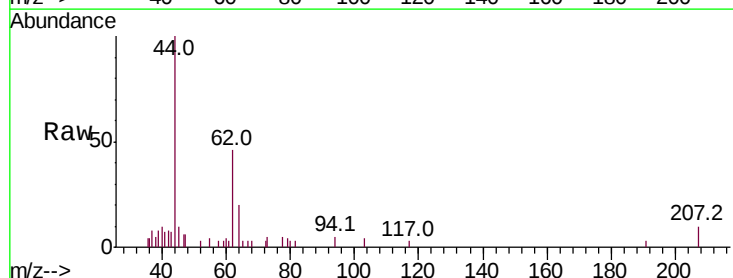
Acq: 07 Jul 2020 17:23

Tgt Ion: 62 Resp: 925

Ion Ratio Lower Upper

62 100

64 42.4 25.9 38.9#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.39

1000

800

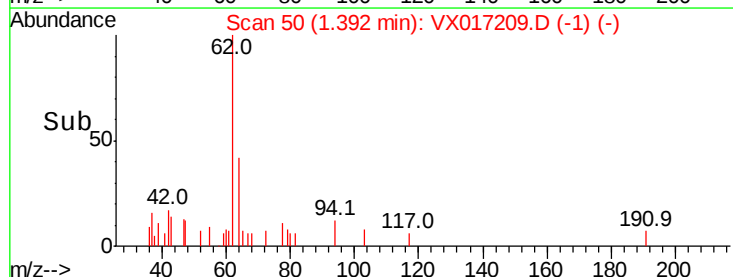
600

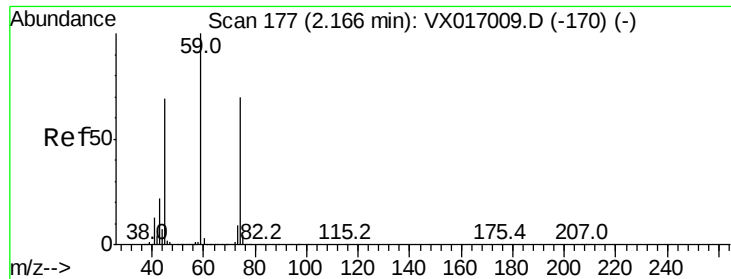
400

200

0

Time-->





#8

Diethyl Ether

Concen: 0.446 ug/l

RT: 2.25 min Scan# 190

Delta R.T. 0.08 min

Lab File: VX017209.D

Acq: 07 Jul 2020 17:23

Instrument :

MSVOA_X

ClientSampleId :

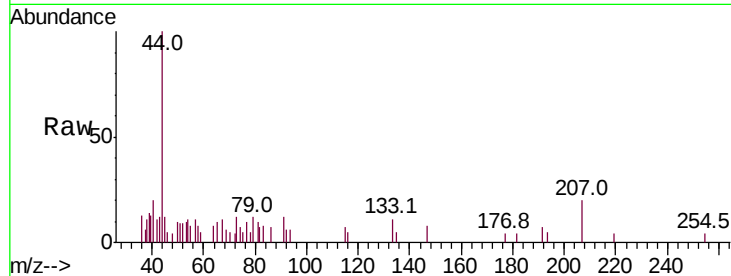
46BR-20200629DL

Tot Ion: 74 Resp: 110

Ion Ratio Lower Upper

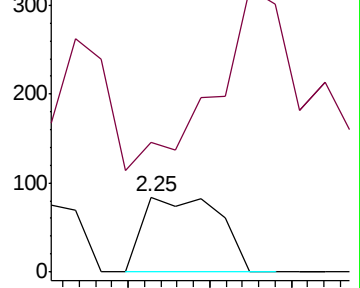
74 100

45 147.3 49.8 149.3

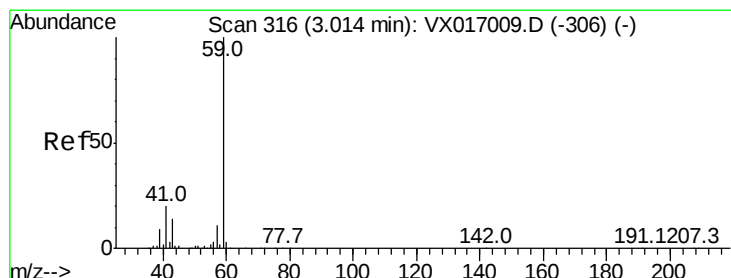
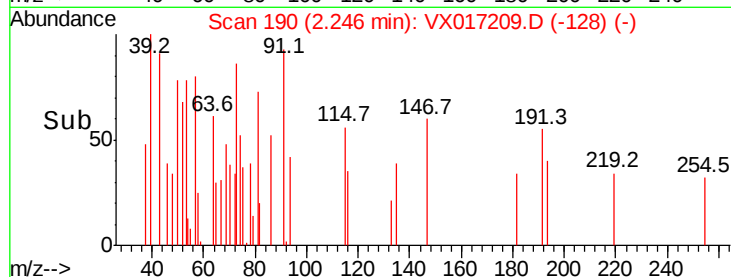


Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



Time-->



#11

Tert butyl alcohol

Concen: 1.085 ug/l

RT: 3.01 min Scan# 316

Delta R.T. -0.00 min

Lab File: VX017209.D

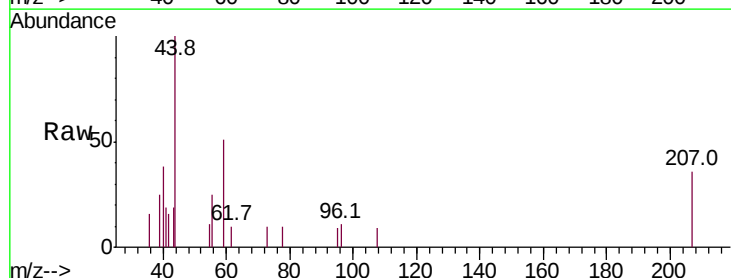
Acq: 07 Jul 2020 17:23

Tgt Ion: 59 Resp: 639

Ion Ratio Lower Upper

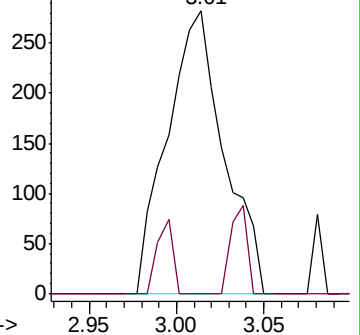
59 100

57 7.2 8.2 12.2#

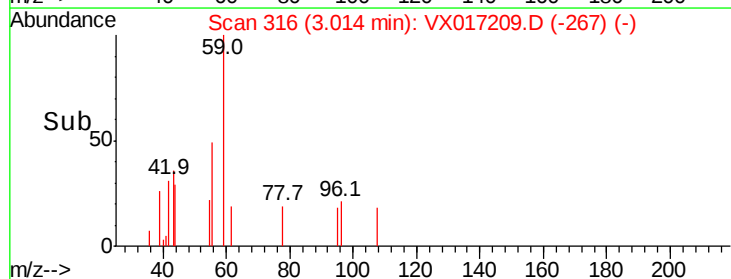


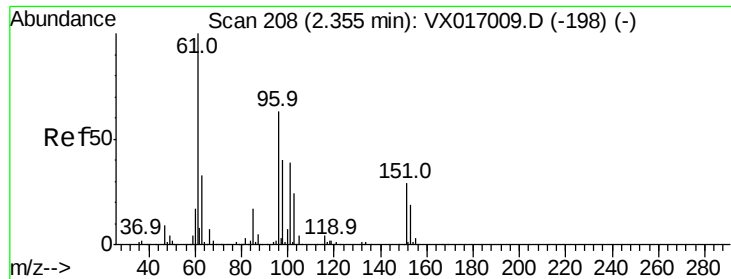
Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



Time-->





#12

1,1-Dichloroethene

Concen: 0.202 ug/l

RT: 2.37 min Scan# 210

Delta R.T. 0.01 min

Lab File: VX017209.D

Acq: 07 Jul 2020 17:23

Instrument :

MSVOA_X

ClientSampleId :

46BR-20200629DL

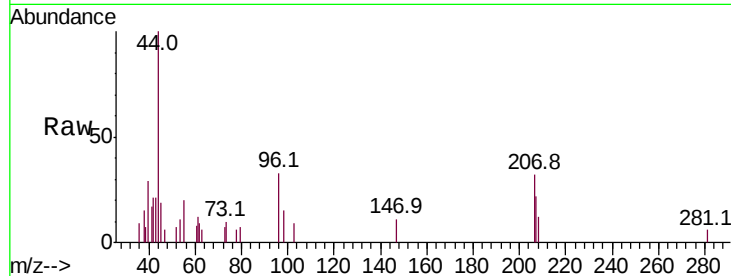
Tot Ion: 96 Resp: 500

Ion Ratio Lower Upper

96 100

61 37.3 126.3 189.5#

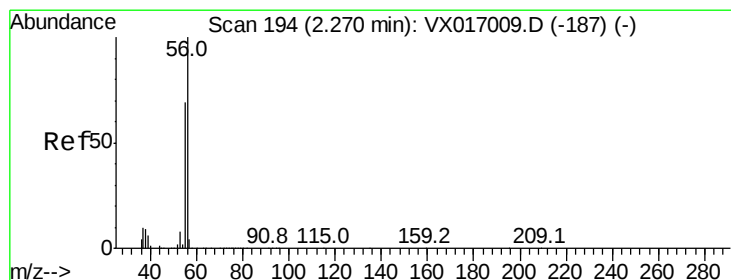
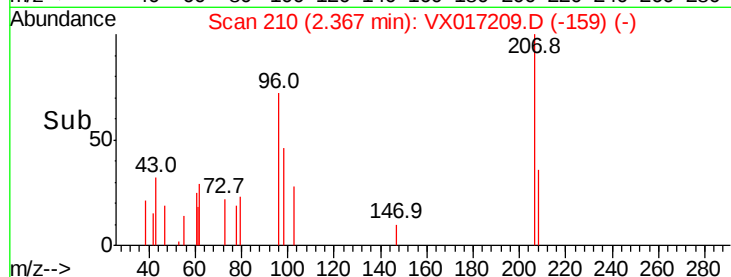
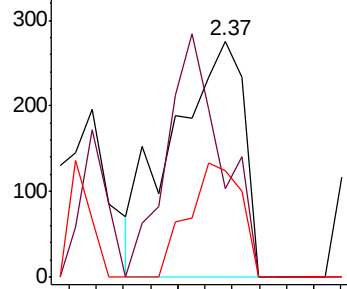
98 44.9 51.0 76.6#



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



#13

Acrolein

Concen: 0.736 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VX017209.D

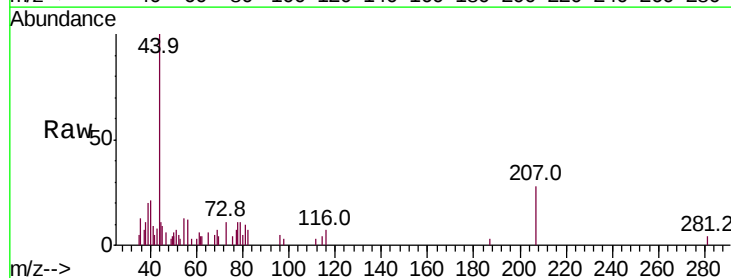
Acq: 07 Jul 2020 17:23

Tgt Ion: 56 Resp: 259

Ion Ratio Lower Upper

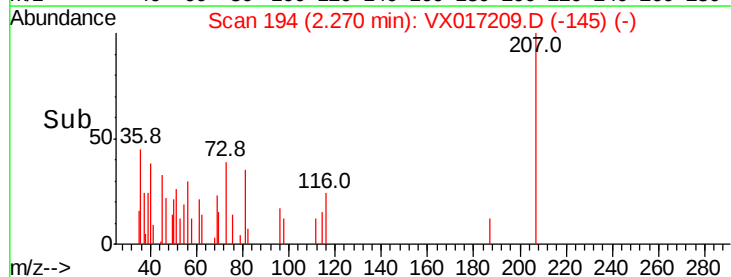
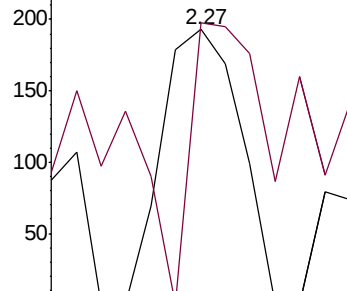
56 100

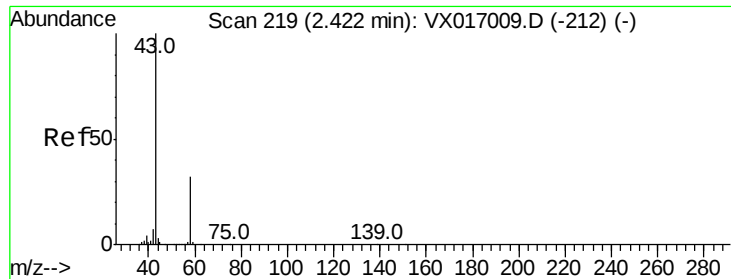
55 92.7 55.7 83.5#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 1.208 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX017209.D

Acq: 07 Jul 2020 17:23

Instrument :

MSVOA_X

ClientSampleId :

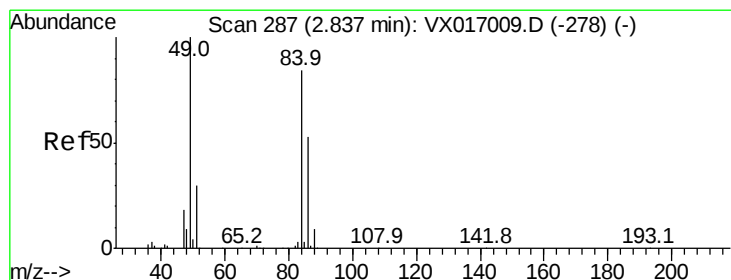
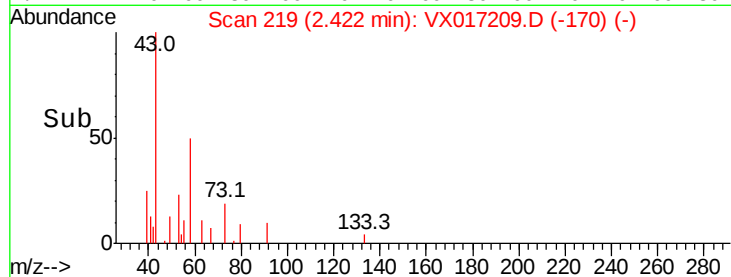
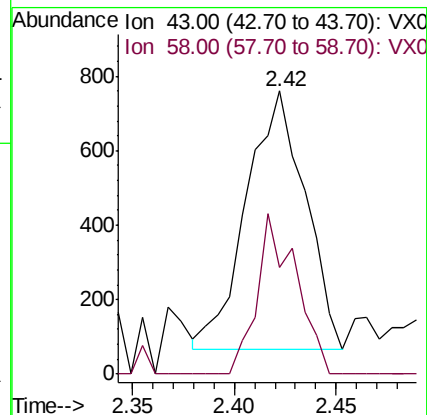
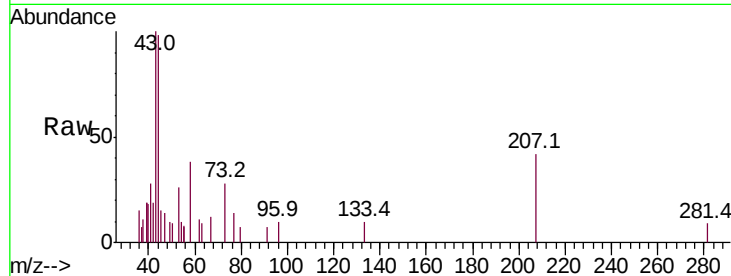
46BR-20200629DL

Tot Ion: 43 Resp: 1395

Ion Ratio Lower Upper

43 100

58 41.1 25.7 38.5#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.84 min Scan# 287

Delta R.T. 0.00 min

Lab File: VX017209.D

Acq: 07 Jul 2020 17:23

Tgt Ion: 84 Resp: 1131

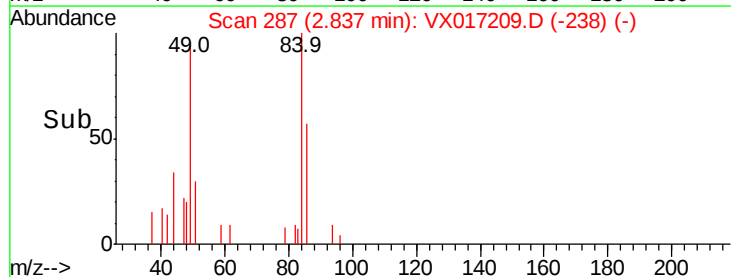
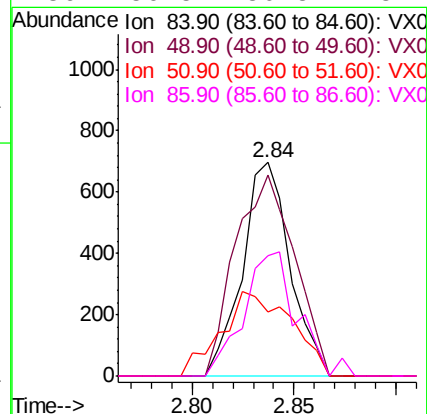
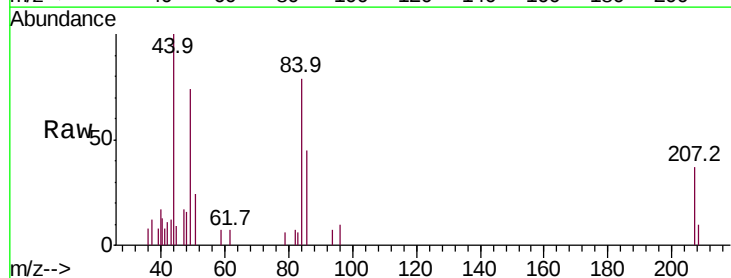
Ion Ratio Lower Upper

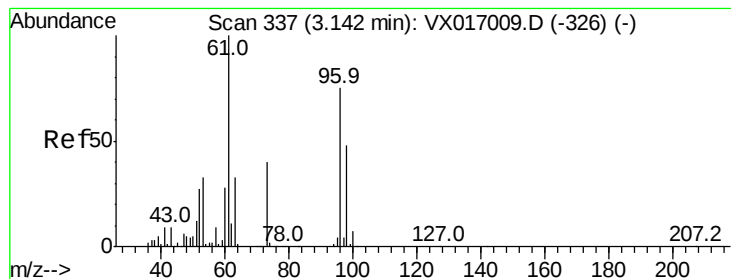
84 100

49 94.3 94.7 142.1#

51 30.1 28.6 42.8

86 56.5 50.5 75.7





#21

trans-1,2-Dichloroethene

Concen: 7.725 ug/l

RT: 3.15 min Scan# 338

Delta R.T. 0.01 min

Lab File: VX017209.D

Acq: 07 Jul 2020 17:23

Instrument :

MSVOA_X

ClientSampleId :

46BR-20200629DL

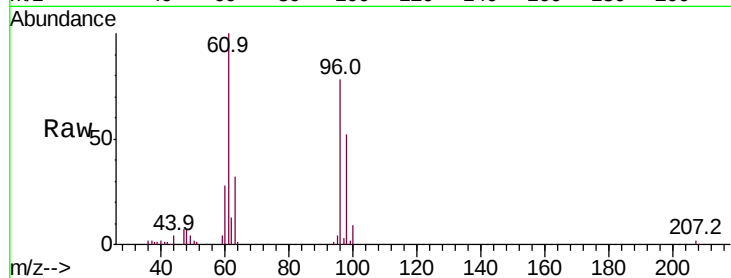
Tot Ion: 96 Resp: 21237

Ion Ratio Lower Upper

96 100

61 127.2 107.0 160.6

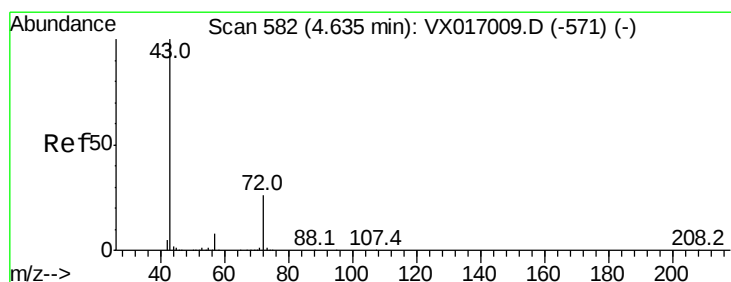
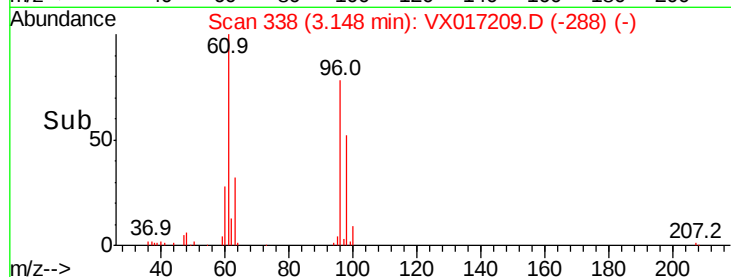
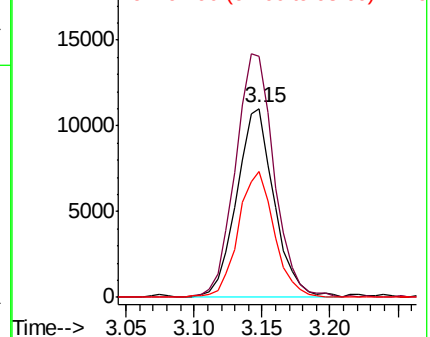
98 66.5 51.6 77.4



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



#25

2-Butanone

Concen: 0.636 ug/l

RT: 4.65 min Scan# 585

Delta R.T. 0.02 min

Lab File: VX017209.D

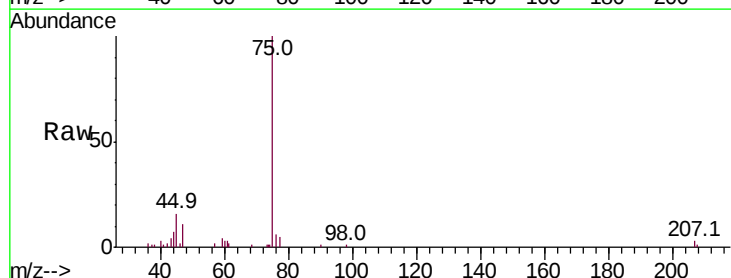
Acq: 07 Jul 2020 17:23

Tgt Ion: 43 Resp: 1223

Ion Ratio Lower Upper

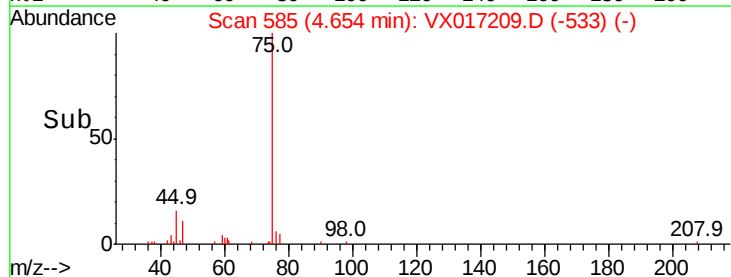
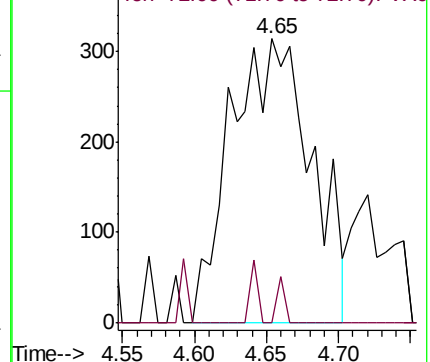
43 100

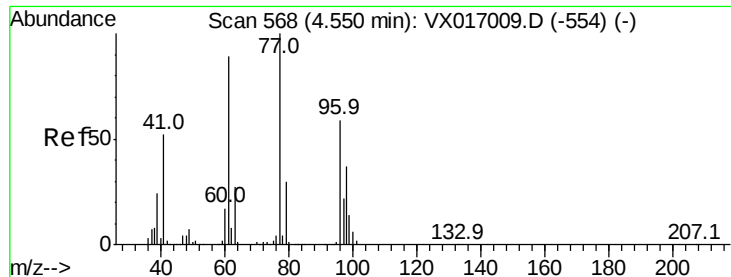
72 0.0 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

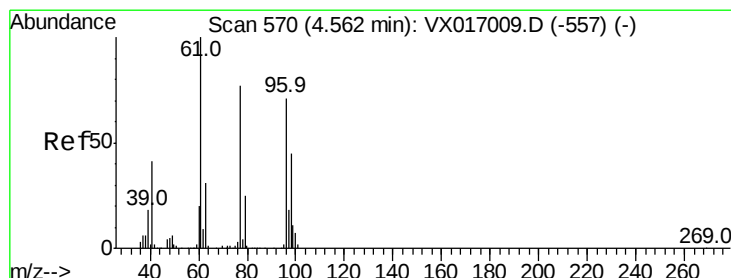
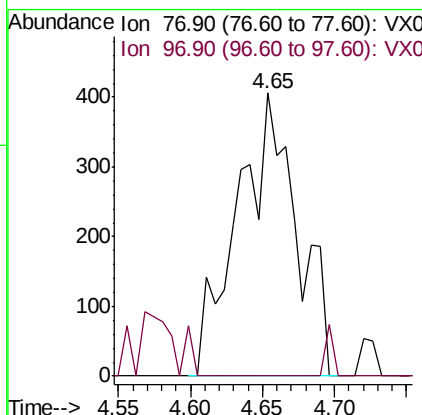
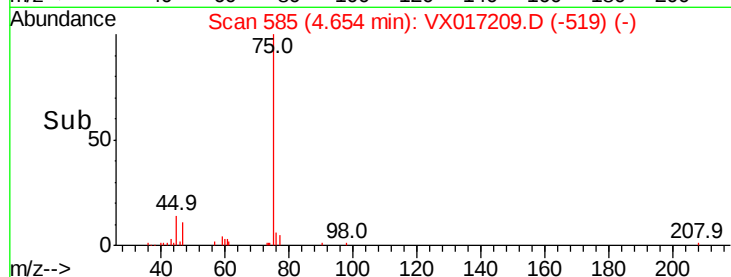
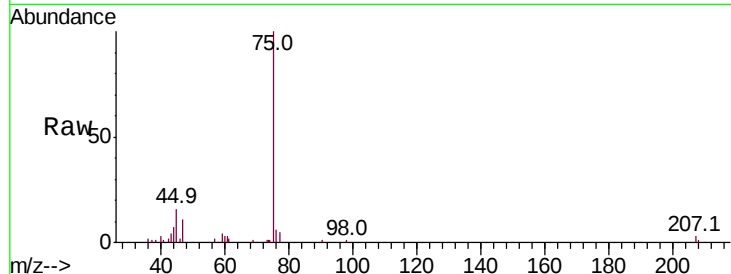




#26
 2,2-Dichloropropane
 Concen: 0.271 ug/l
 RT: 4.65 min Scan# 585
 Delta R.T. 0.10 min
 Lab File: VX017209.D
 Acq: 07 Jul 2020 17:23

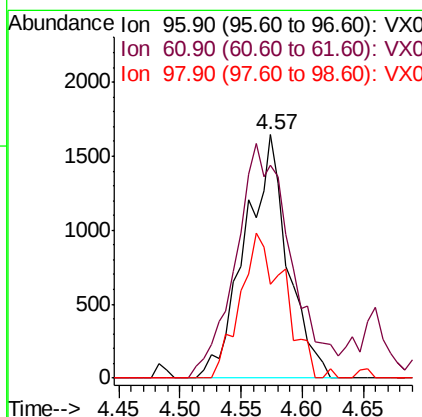
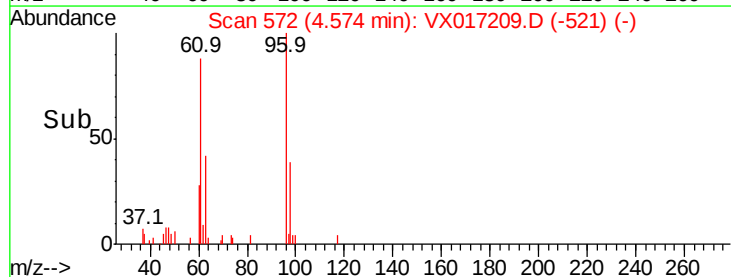
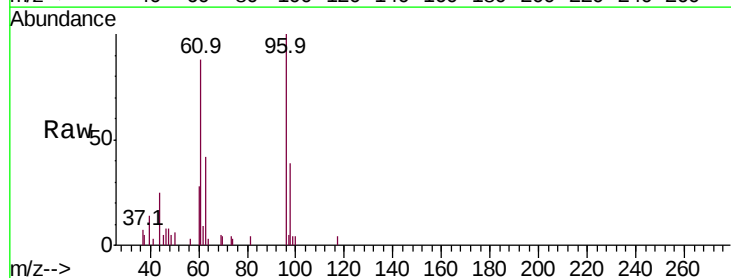
Instrument :
 MSVOA_X
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 46BR-20200629DL

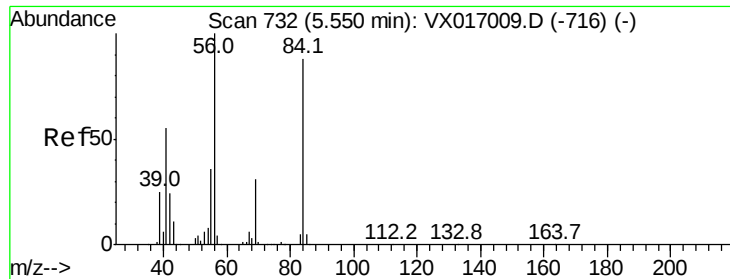
Tot Ion: 77 Resp: 1159
 Ion Ratio Lower Upper
 77 100
 97 0.0 11.4 34.2#



#27
 cis-1,2-Dichloroethene
 Concen: 1.284 ug/l
 RT: 4.57 min Scan# 572
 Delta R.T. 0.01 min
 Lab File: VX017209.D
 Acq: 07 Jul 2020 17:23

Tgt Ion: 96 Resp: 4001
 Ion Ratio Lower Upper
 96 100
 61 124.8 0.0 282.8
 98 61.2 0.0 127.6

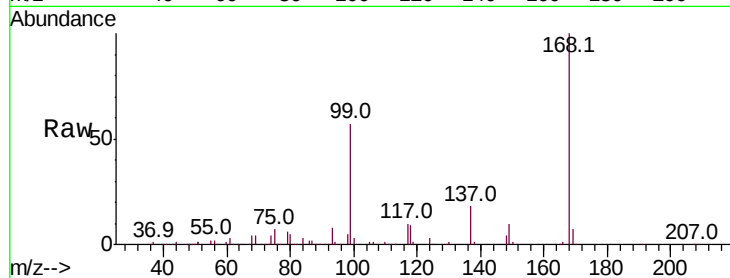




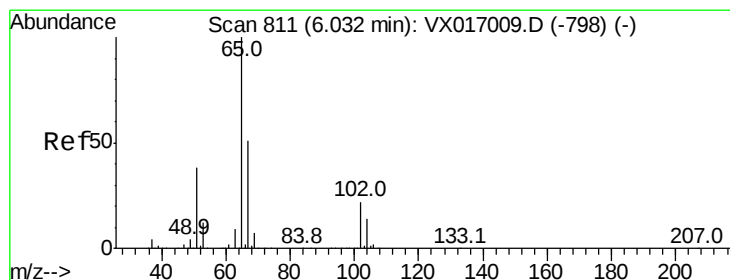
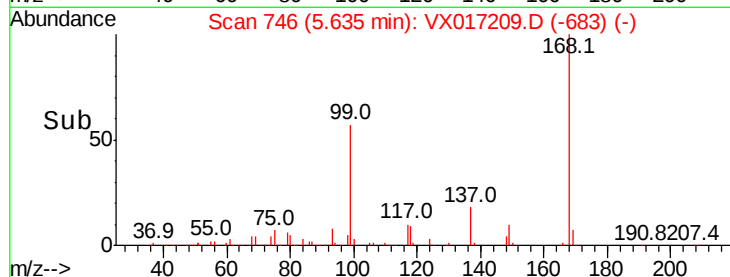
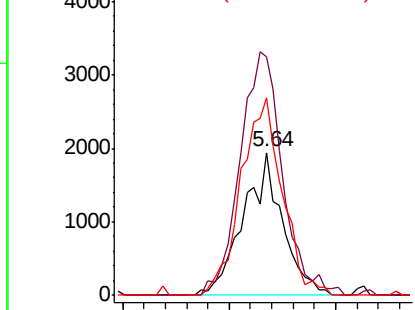
#31
Cyclohexane
Concen: 1.205 ug/l
RT: 5.64 min Scan# 746
Delta R.T. 0.09 min
Lab File: VX017209.D
Acq: 07 Jul 2020 17:23

Instrument :
MSVOA_X
ClientSampleId :
46BR-20200629DL

Tot Ion: 56 Resp: 5020
Ion Ratio Lower Upper
56 100
69 167.2 25.0 37.4#
84 138.1 69.1 103.7#

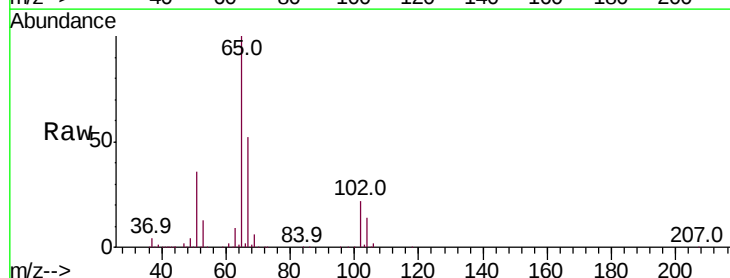


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

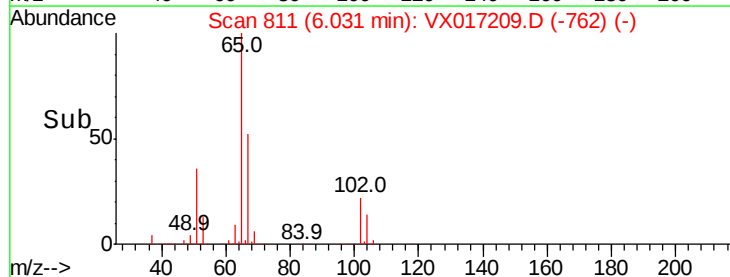
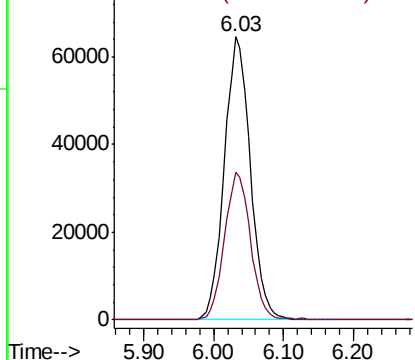


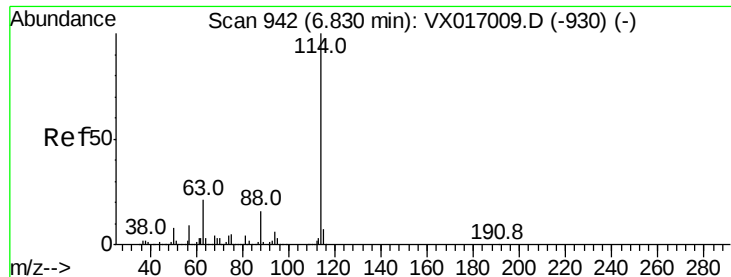
#33
1,2-Dichloroethane-d4
Concen: 54.276 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX017209.D
Acq: 07 Jul 2020 17:23

Tgt Ion: 65 Resp: 167542
Ion Ratio Lower Upper
65 100
67 51.8 0.0 103.8



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: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX017209.D

Acq: 07 Jul 2020 17:23

Instrument :

MSVOA_X

ClientSampleId :

46BR-20200629DL

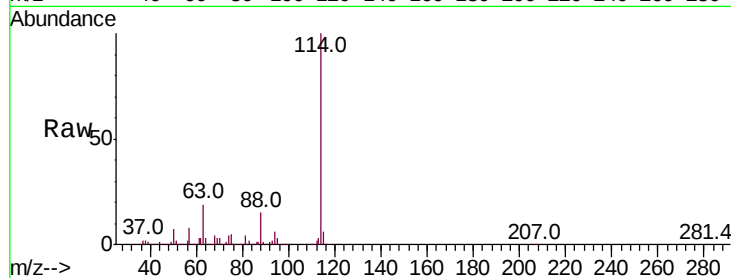
Tot Ion:114 Resp: 427606

Ion Ratio Lower Upper

114 100

63 19.4 0.0 41.4

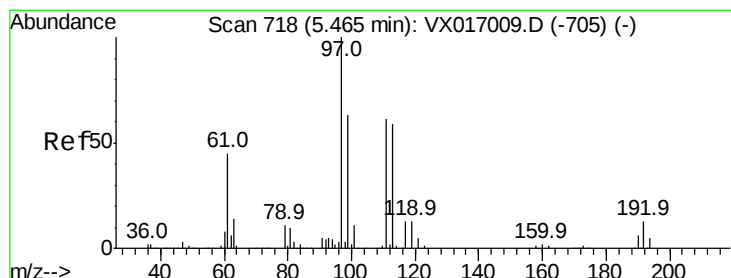
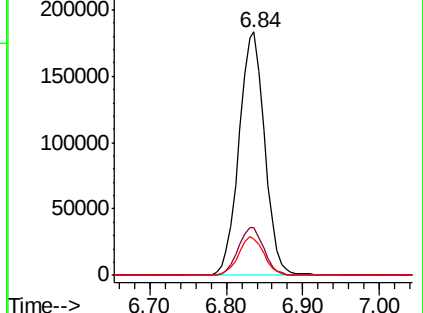
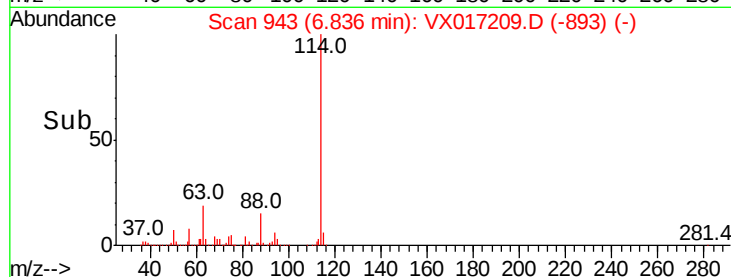
88 14.8 0.0 32.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 53.033 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX017209.D

Acq: 07 Jul 2020 17:23

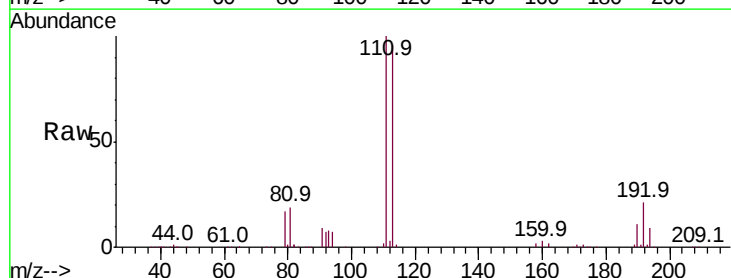
Tgt Ion:113 Resp: 143450

Ion Ratio Lower Upper

113 100

111 104.0 81.9 122.9

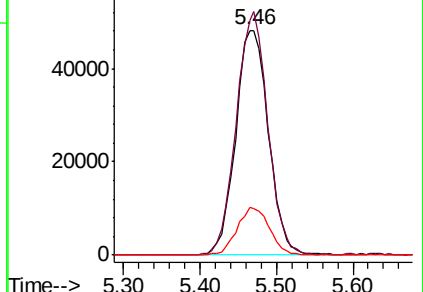
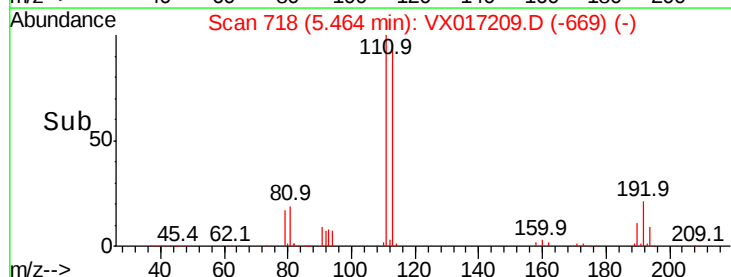
192 21.0 16.7 25.1

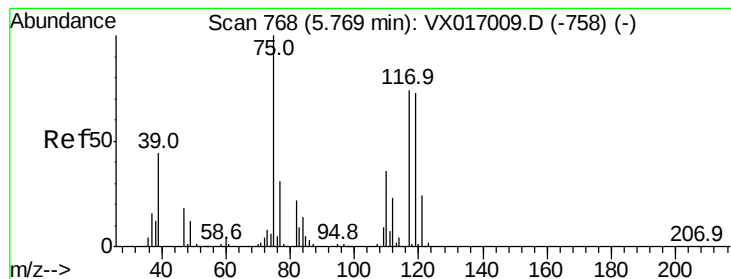


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.667 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.15 min

Lab File: VX017209.D

Acq: 07 Jul 2020 17:23

Instrument :

MSVOA_X

ClientSampleId :

46BR-20200629DL

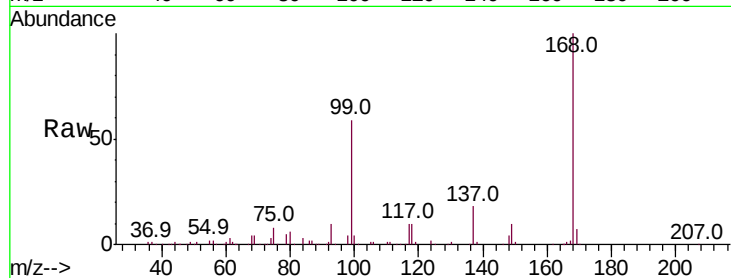
Tot Ion: 75 Resp: 18862

Ion Ratio Lower Upper

75 100

110 11.1 18.1 54.1#

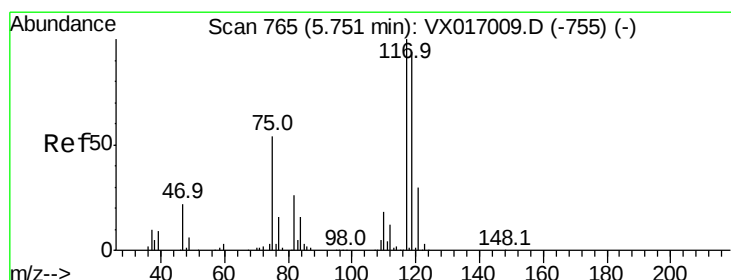
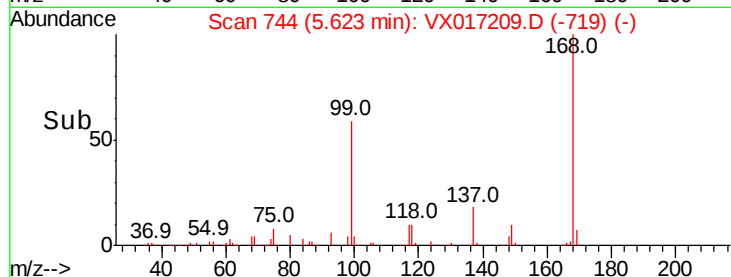
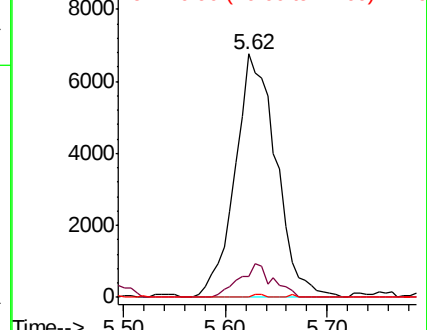
77 0.3 24.6 37.0#



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: 5.609 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017209.D

Acq: 07 Jul 2020 17:23

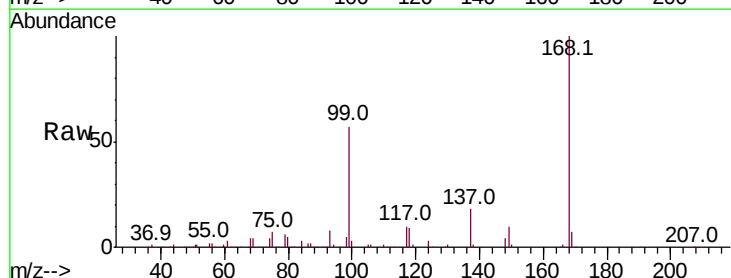
Tgt Ion:117 Resp: 24966

Ion Ratio Lower Upper

117 100

119 6.3 75.4 113.0#

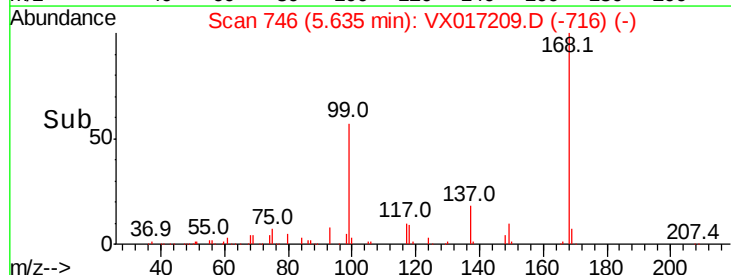
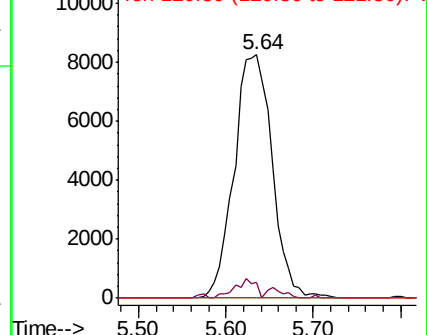
121 0.0 23.8 35.6#

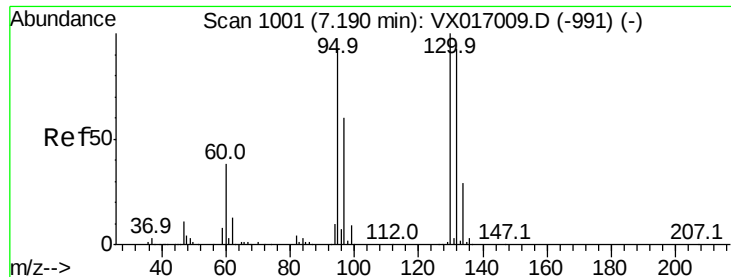


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

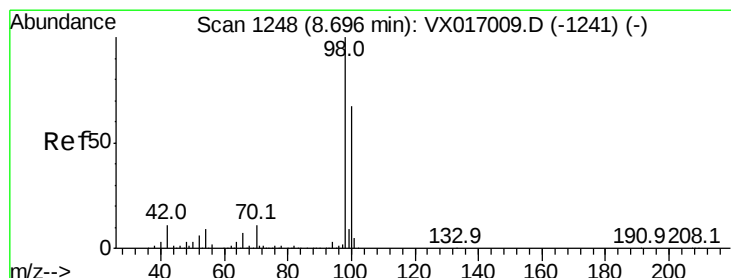
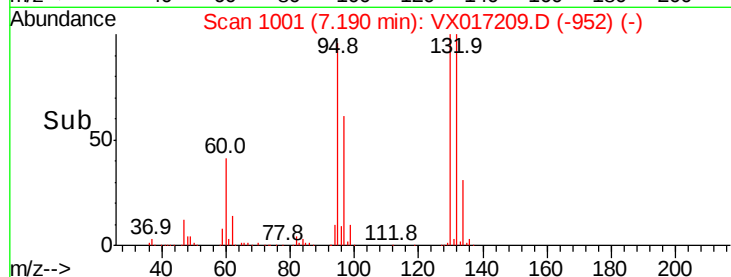
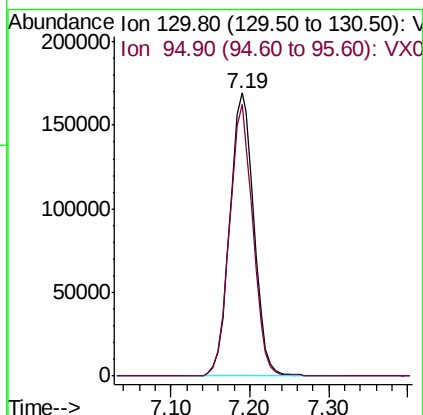
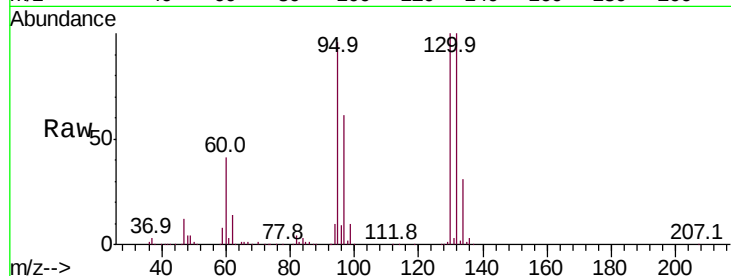




#44
 Trichloroethene
 Concen: 109.982 ug/l
 RT: 7.19 min Scan# 1001
 Delta R.T. 0.00 min
 Lab File: VX017209.D
 Acq: 07 Jul 2020 17:23

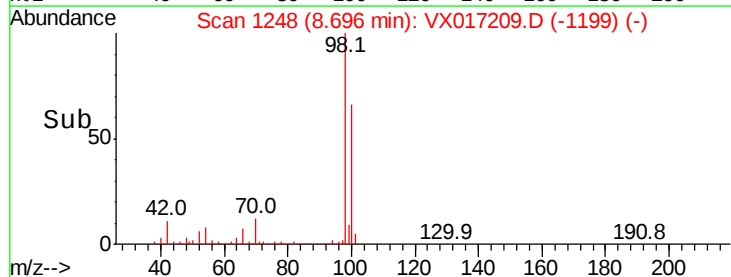
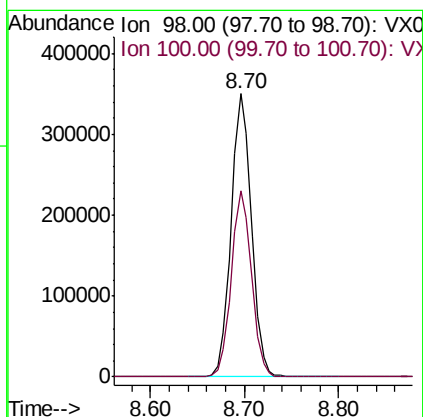
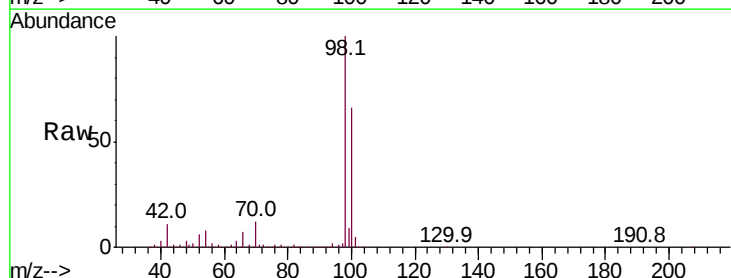
Instrument :
 MSVOA_X
 ClientSampleId :
 46BR-20200629DL

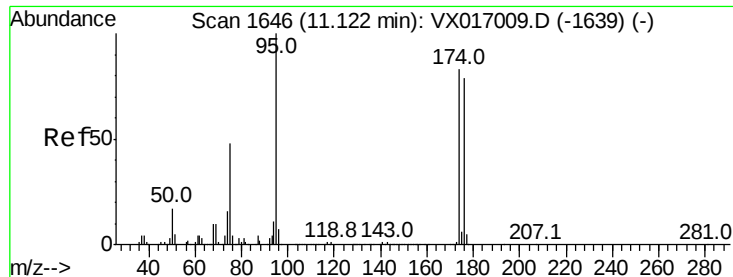
Tot Ion:130 Resp: 359162
 Ion Ratio Lower Upper
 130 100
 95 96.1 0.0 185.0



#50
 Toluene-d8
 Concen: 52.376 ug/l
 RT: 8.70 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VX017209.D
 Acq: 07 Jul 2020 17:23

Tgt Ion: 98 Resp: 523877
 Ion Ratio Lower Upper
 98 100
 100 65.2 53.8 80.6





#62

4-Bromofluorobenzene

Concen: 54.913 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017209.D

Acq: 07 Jul 2020 17:23

Instrument :

MSVOA_X

ClientSampleId :

46BR-20200629DL

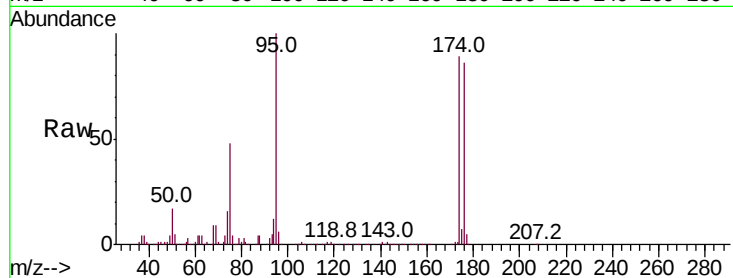
Tot Ion: 95 Resp: 214709

Ion Ratio Lower Upper

95 100

174 85.8 0.0 164.0

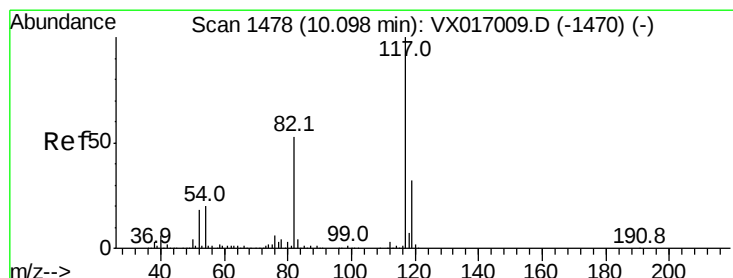
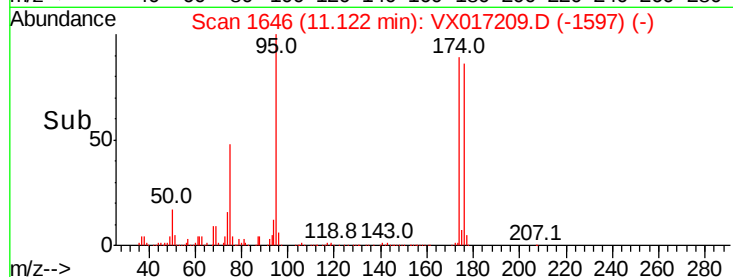
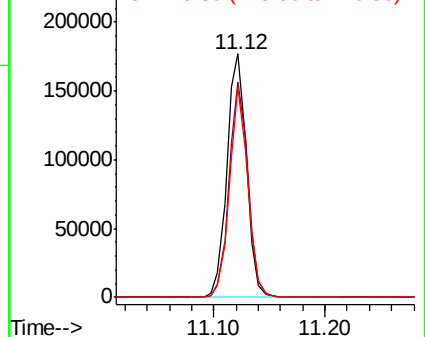
176 80.3 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX017209.D

Acq: 07 Jul 2020 17:23

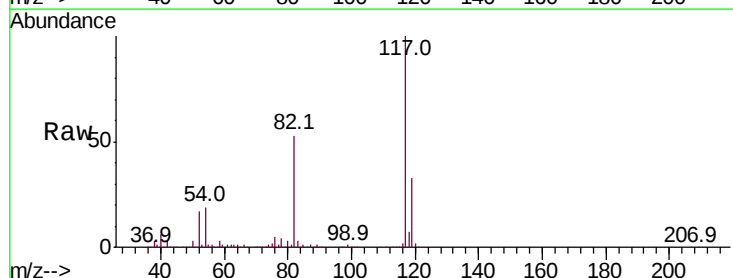
Tgt Ion: 117 Resp: 444996

Ion Ratio Lower Upper

117 100

82 52.5 42.6 63.8

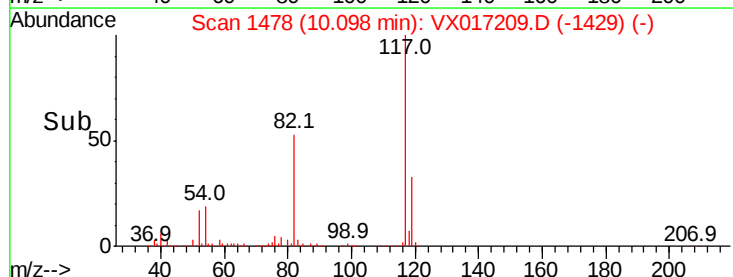
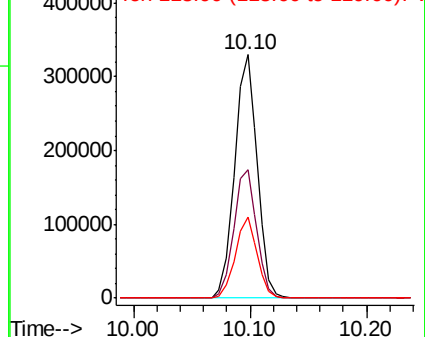
119 33.2 25.4 38.2

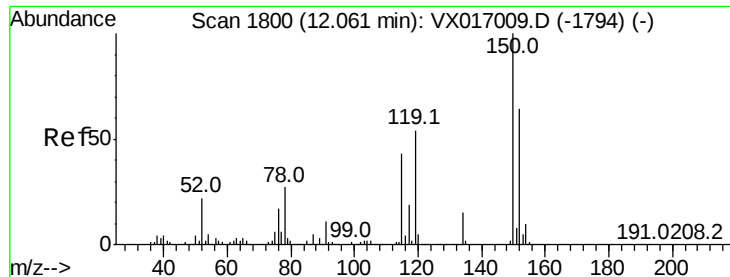


Abundance Ion 116.90 (116.60 to 117.60): VX0

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017209.D

Acq: 07 Jul 2020 17:23

Instrument :

MSVOA_X

ClientSampleId :

46BR-20200629DL

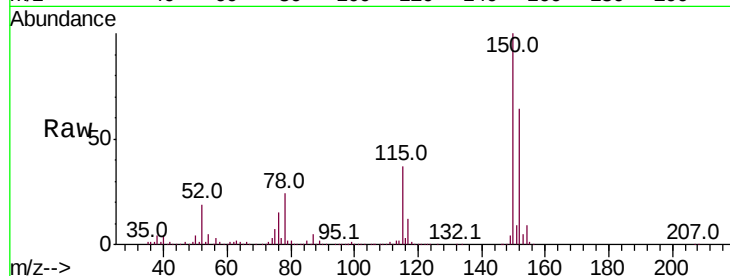
Tot Ion:152 Resp: 237844

Ion Ratio Lower Upper

152 100

115 55.7 40.9 122.7

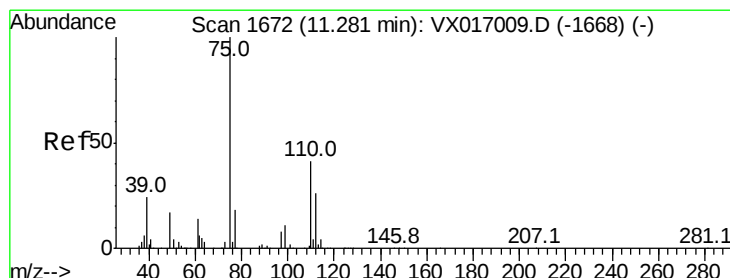
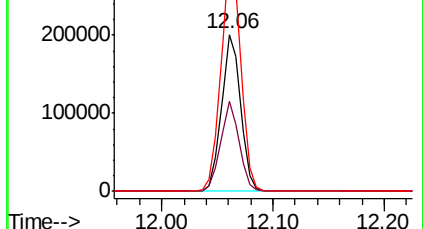
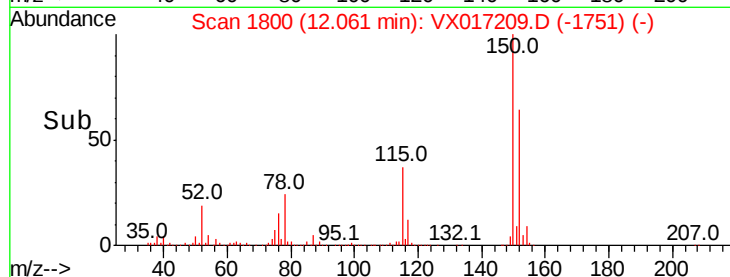
150 154.4 0.0 351.6



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: 22.406 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017209.D

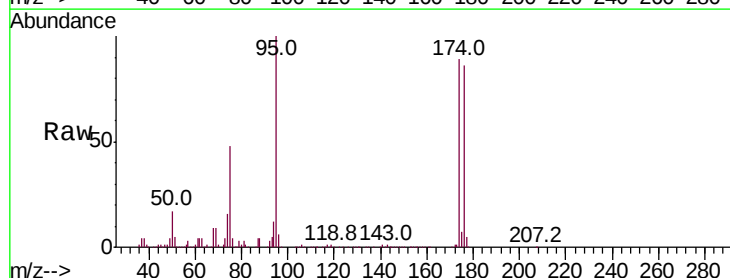
Acq: 07 Jul 2020 17:23

Tgt Ion: 75 Resp: 104796

Ion Ratio Lower Upper

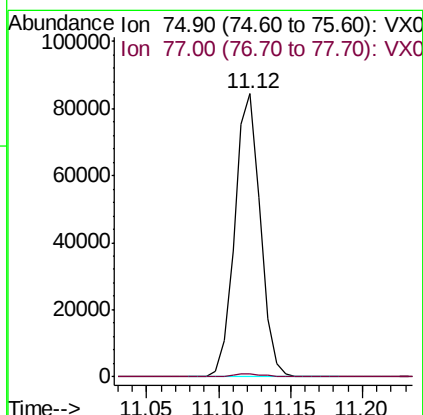
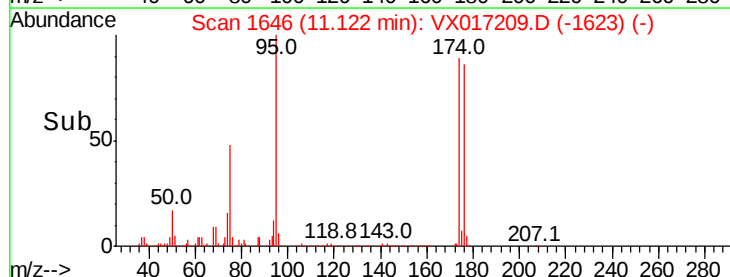
75 100

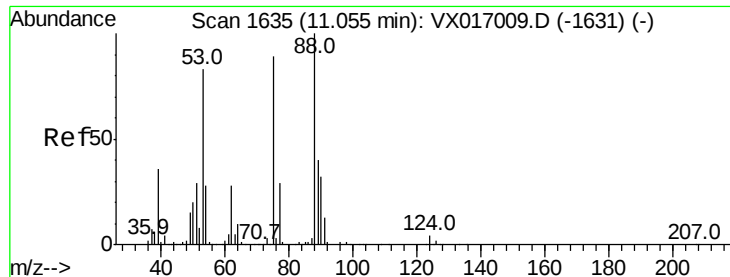
77 1.2 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 58.024 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017209.D

Acq: 07 Jul 2020 17:23

Instrument :

MSVOA_X

ClientSampleId :

46BR-20200629DL

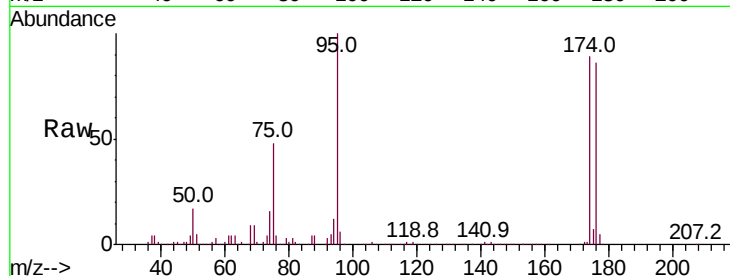
Tot Ion: 75 Resp: 104796

Ion Ratio Lower Upper

75 100

53 0.4 72.4 108.6#

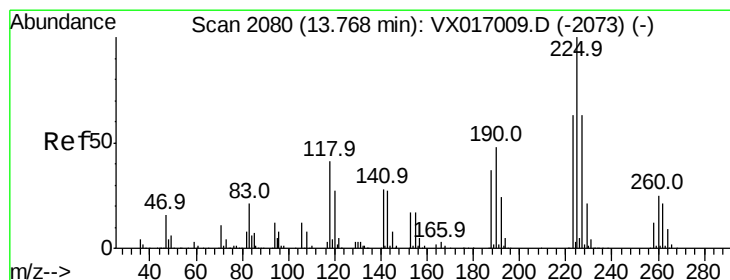
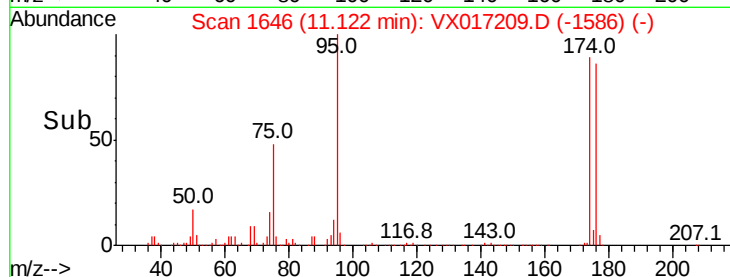
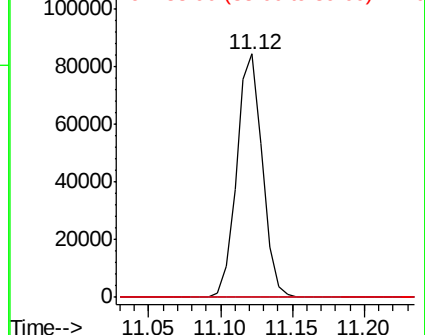
89 0.1 37.0 55.4#



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



#94

Hexachlorobutadiene

Concen: 0.854 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX017209.D

Acq: 07 Jul 2020 17:23

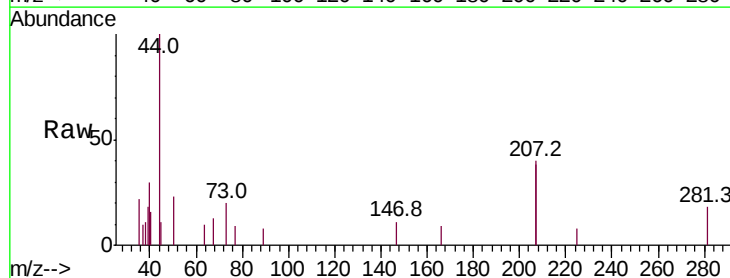
Tgt Ion: 225 Resp: 19

Ion Ratio Lower Upper

225 100

223 0.0 32.5 97.5#

227 0.0 33.1 99.2#



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

