

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX070120\
 Data File : VX017118.D
 Acq On : 01 Jul 2020 23:35
 Operator : JC/SP
 Sample : L3159-05 100X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 07BR-20200629DL

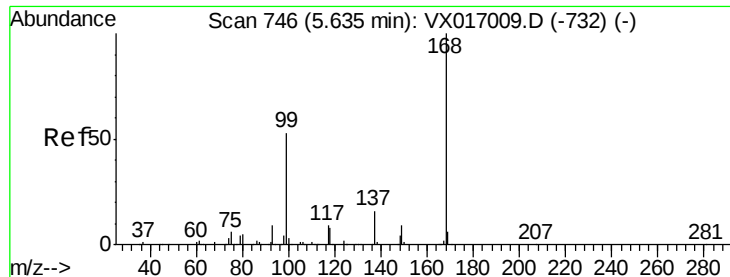
Quant Time: Jul 02 01:43:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 29 17:10:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	226578	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	370659	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	383083	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	199301	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	144425	51.70	ug/l	0.00
Spiked Amount			Recovery	=	103.40%	
35) Dibromofluoromethane	5.47	113	121603	51.86	ug/l	0.00
Spiked Amount			Recovery	=	103.72%	
50) Toluene-d8	8.70	98	449065	51.79	ug/l	0.00
Spiked Amount			Recovery	=	103.58%	
62) 4-Bromofluorobenzene	11.12	95	189769	55.99	ug/l	0.00
Spiked Amount			Recovery	=	111.98%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	1246	0.568	ug/l	91
4) Vinyl Chloride	1.39	62	16512	6.707	ug/l	99
5) Bromomethane	1.65	94	473	0.364	ug/l #	78
8) Diethyl Ether	2.17	74	300	0.609	ug/l #	48
12) 1,1-Dichloroethene	2.36	96	1382	0.617	ug/l #	91
13) Acrolein	2.27	56	379	1.190	ug/l #	67
15) Acrylonitrile	3.12	53	627	0.489	ug/l #	78
16) Acetone	2.42	43	1240	1.187	ug/l	98
17) Carbon Disulfide	2.54	76	2776	0.466	ug/l #	89
18) Methyl Acetate	2.75	43	587	0.215	ug/l #	79
21) trans-1,2-Dichloroethene	3.15	96	4061	1.632	ug/l	81
25) 2-Butanone	4.65	43	945	0.543	ug/l #	49
27) cis-1,2-Dichloroethene	4.57	96	292336	103.713	ug/l	91
29) Tetrahydrofuran	5.12	42	331	0.288	ug/l #	44
36) 1,1-Dichloropropene	5.63	75	16778	4.789	ug/l #	51
38) Carbon Tetrachloride	5.64	117	22519	5.836	ug/l #	17
44) Trichloroethene	7.19	130	48465	16.858	ug/l	95
49) 1,4-Dioxane	7.84	88	48	0.755	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	94305	24.063	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	94305	62.314	ug/l #	13
88) 1,4-Dichlorobenzene	12.01	146	1108	Below Cal		96
93) 1,2,4-Trichlorobenzene	13.63	180	1242	0.299	ug/l	96
94) Hexachlorobutadiene	13.77	225	830	1.361	ug/l	87
96) 1,2,3-Trichlorobenzene	14.01	180	1085	0.270	ug/l	91

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017118.D

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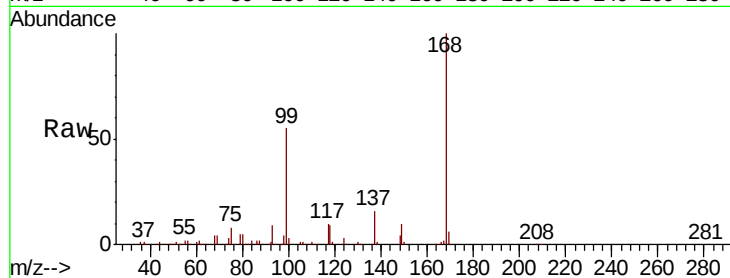
07BR-20200629DL

Tot Ion:168 Resp: 226578

Ion Ratio Lower Upper

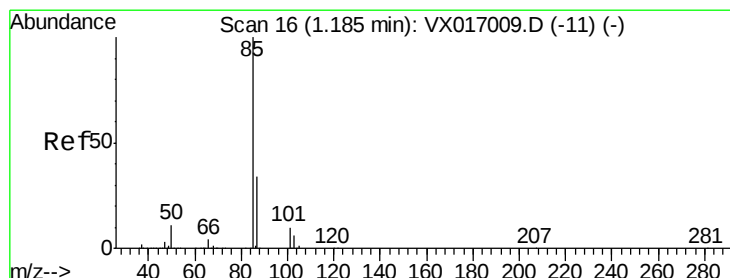
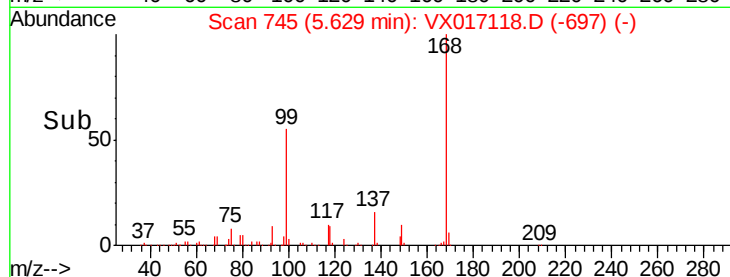
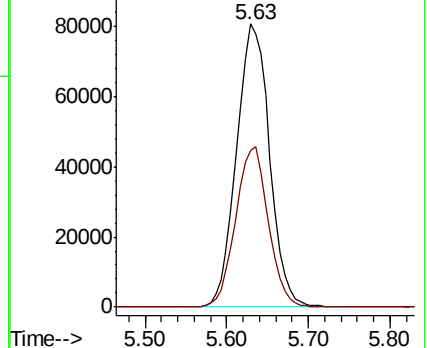
168 100

99 55.2 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.568 ug/l

RT: 1.18 min Scan# 16

Delta R.T. -0.00 min

Lab File: VX017118.D

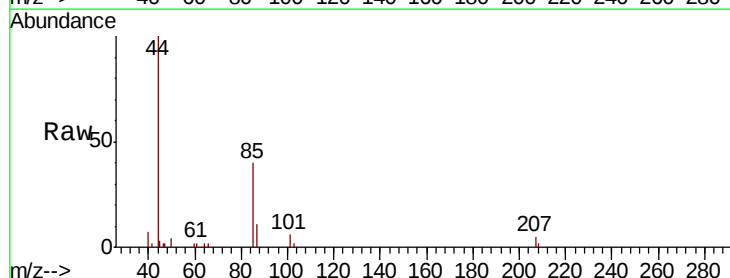
Acq: 01 Jul 2020 23:35

Tgt Ion: 85 Resp: 1246

Ion Ratio Lower Upper

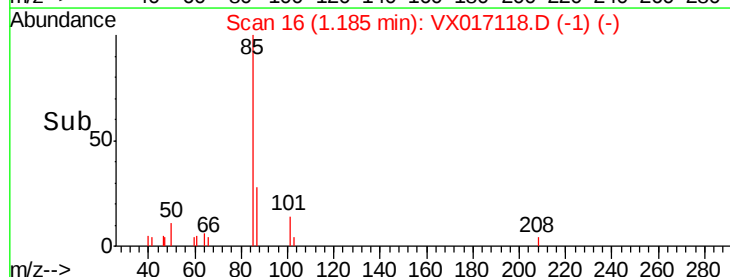
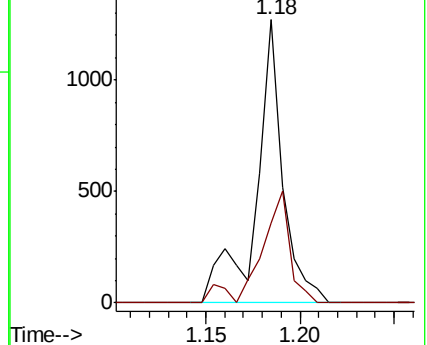
85 100

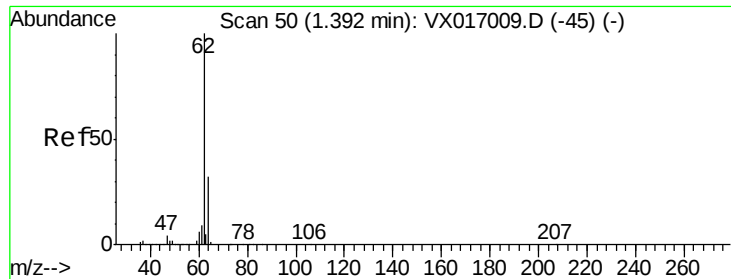
87 28.3 16.8 50.4



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#4

Vinyl Chloride

Concen: 6.707 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX017118.D

Acq: 01 Jul 2020 23:35

Instrument :

MSVOA_X

ClientSampleId :

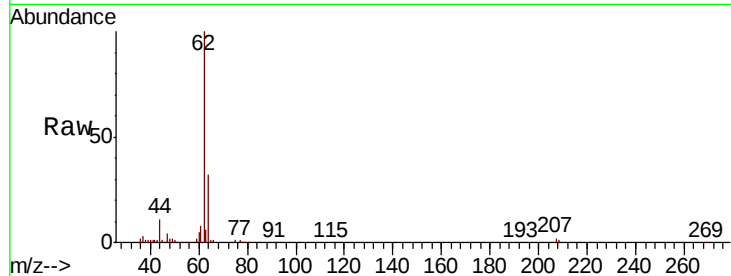
07BR-20200629DL

Tot Ion: 62 Resp: 16512

Ion Ratio Lower Upper

62 100

64 31.6 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

15000

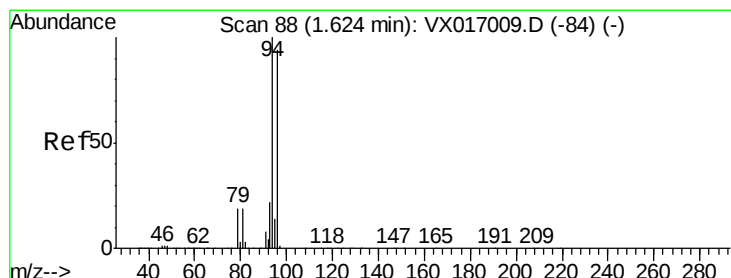
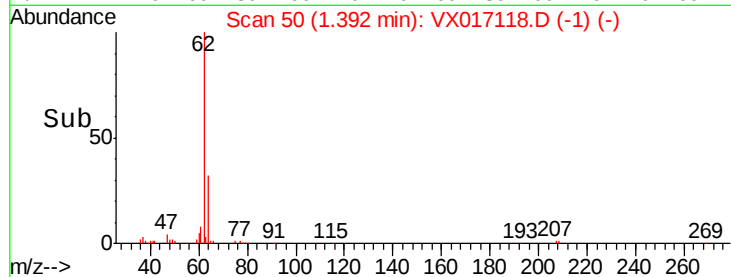
10000

5000

0

Time-->

1.35 1.40 1.45



#5

Bromomethane

Concen: 0.364 ug/l

RT: 1.65 min Scan# 92

Delta R.T. 0.02 min

Lab File: VX017118.D

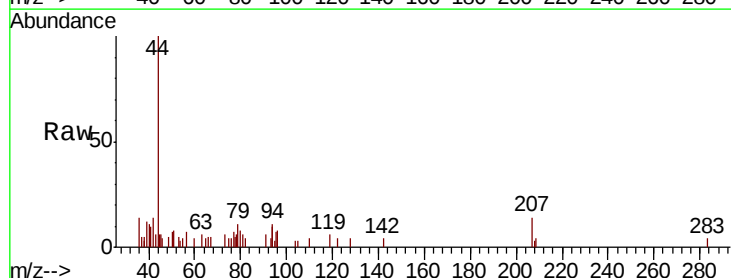
Acq: 01 Jul 2020 23:35

Tgt Ion: 94 Resp: 473

Ion Ratio Lower Upper

94 100

96 72.4 75.0 112.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

400

300

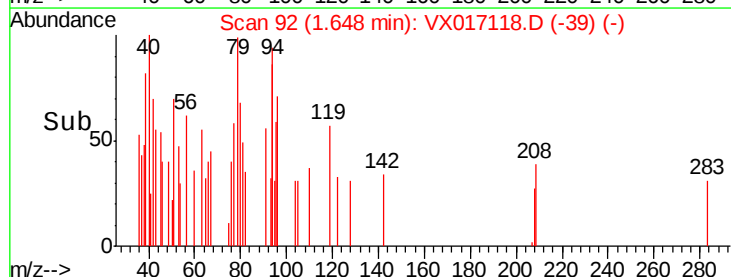
200

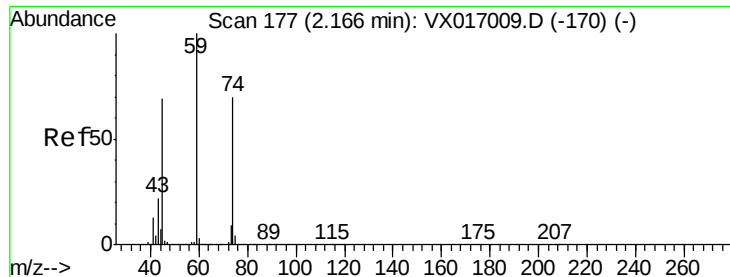
100

0

Time-->

1.60 1.65





#8

Diethyl Ether

Concen: 0.609 ug/l

RT: 2.17 min Scan# 178

Delta R.T. 0.01 min

Lab File: VX017118.D

Acq: 01 Jul 2020 23:35

Instrument :

MSVOA_X

ClientSampleId :

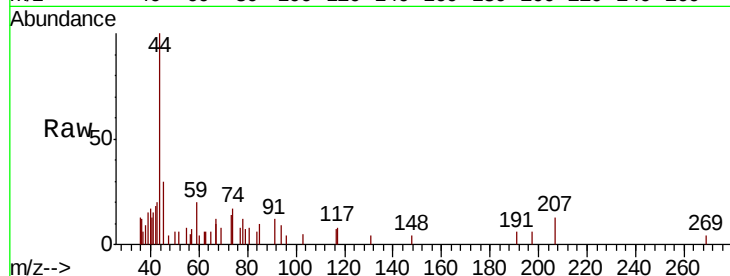
07BR-20200629DL

Tot Ion: 74 Resp: 300

Ion Ratio Lower Upper

74 100

45 47.7 49.8 149.3#



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

400

300

200

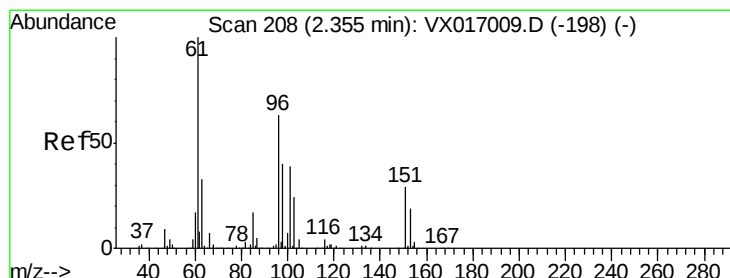
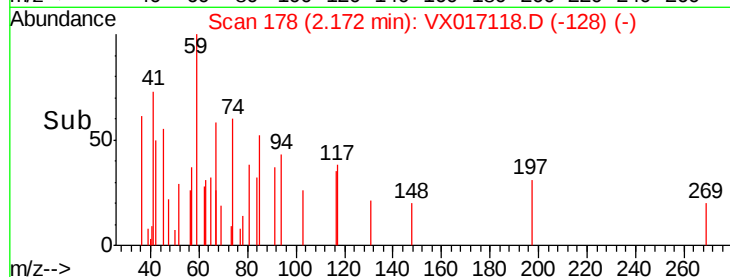
100

0

2.12 2.14 2.16 2.18 2.20

2.17

Time-->



#12

1,1-Dichloroethene

Concen: 0.617 ug/l

RT: 2.36 min Scan# 209

Delta R.T. 0.01 min

Lab File: VX017118.D

Acq: 01 Jul 2020 23:35

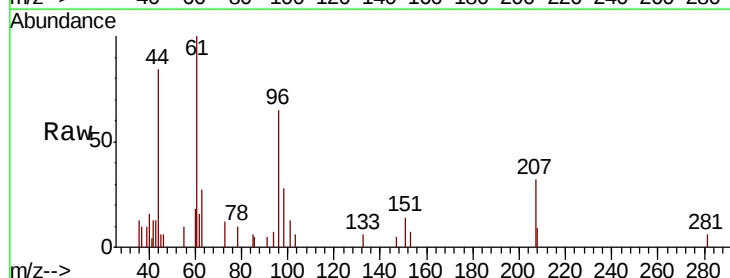
Tgt Ion: 96 Resp: 1382

Ion Ratio Lower Upper

96 100

61 154.7 126.3 189.5

98 43.5 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

1500

1000

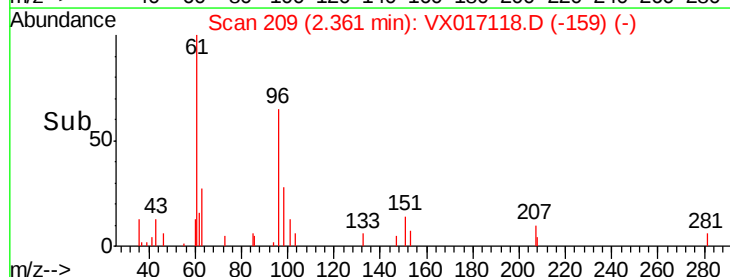
500

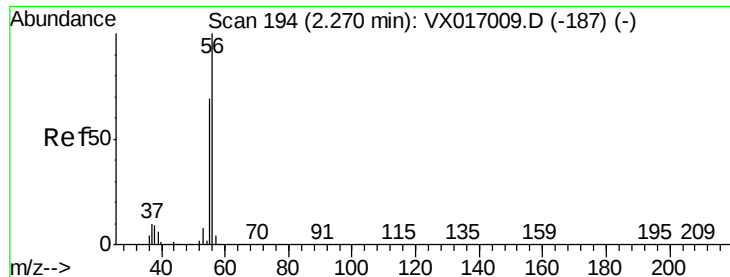
0

2.30 2.35 2.40

2.36

Time-->





#13

Acrolein

Concen: 1.190 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VX017118.D

Acq: 01 Jul 2020 23:35

Instrument :

MSVOA_X

ClientSampleId :

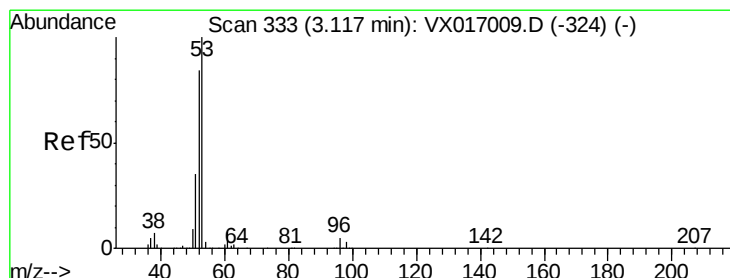
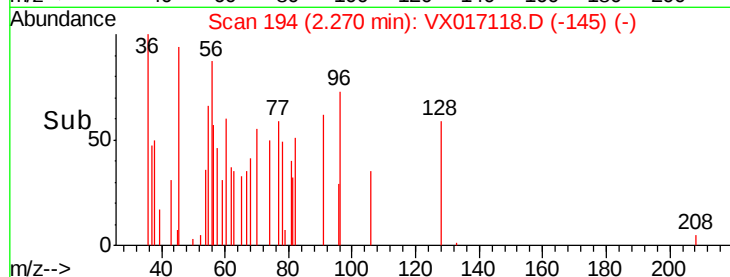
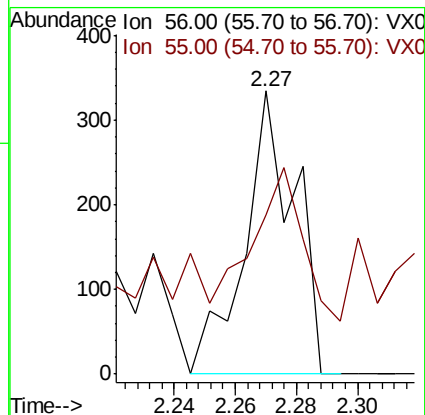
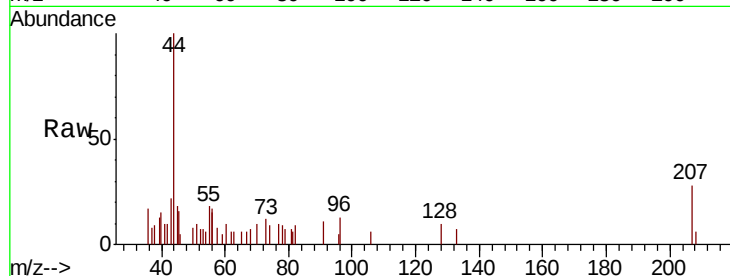
07BR-20200629DL

Tot Ion: 56 Resp: 379

Ion Ratio Lower Upper

56 100

55 96.6 55.7 83.5#



#15

Acrylonitrile

Concen: 0.489 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX017118.D

Acq: 01 Jul 2020 23:35

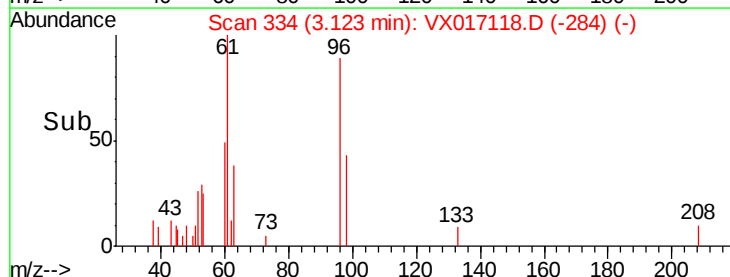
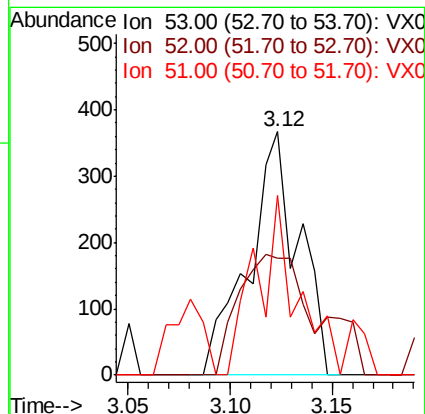
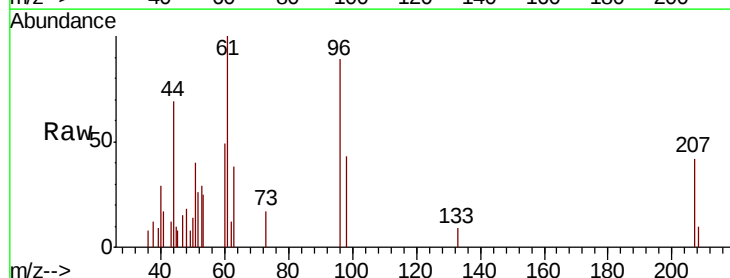
Tgt Ion: 53 Resp: 627

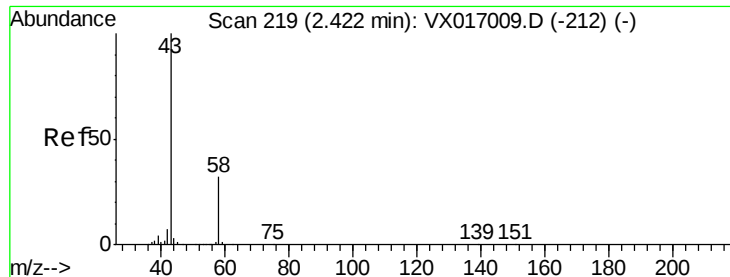
Ion Ratio Lower Upper

53 100

52 62.5 65.6 98.4#

51 22.8 28.3 42.5#





#16

Acetone

Concen: 1.187 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX017118.D

Acq: 01 Jul 2020 23:35

Instrument :

MSVOA_X

ClientSampleId :

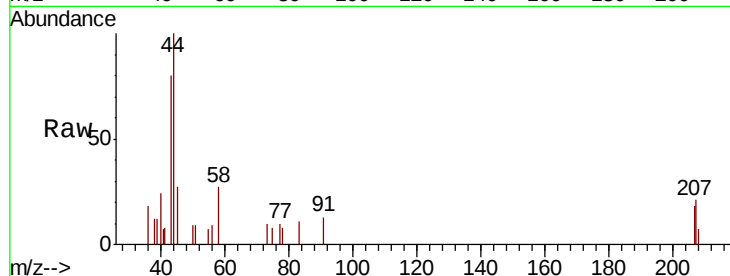
07BR-20200629DL

Tot Ion: 43 Resp: 1240

Ion Ratio Lower Upper

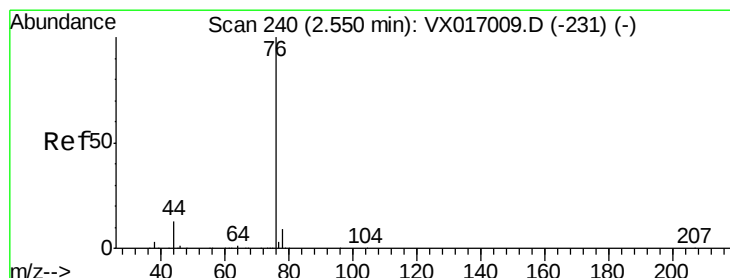
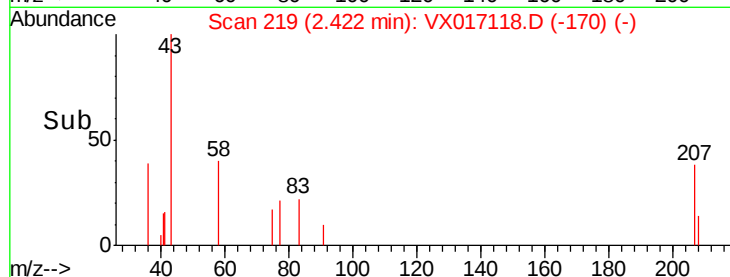
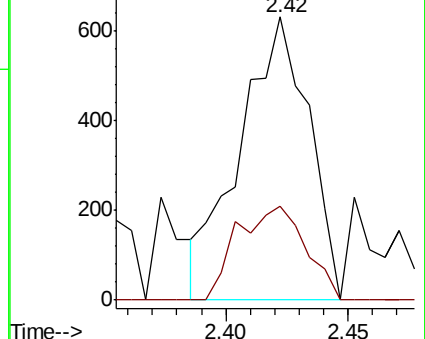
43 100

58 33.3 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.466 ug/l

RT: 2.54 min Scan# 239

Delta R.T. -0.01 min

Lab File: VX017118.D

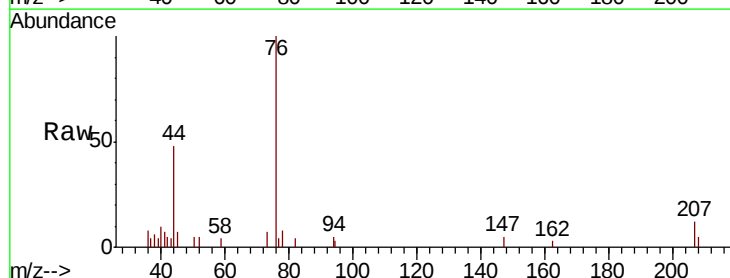
Acq: 01 Jul 2020 23:35

Tgt Ion: 76 Resp: 2776

Ion Ratio Lower Upper

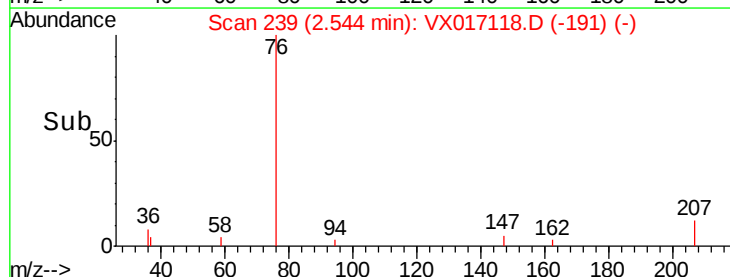
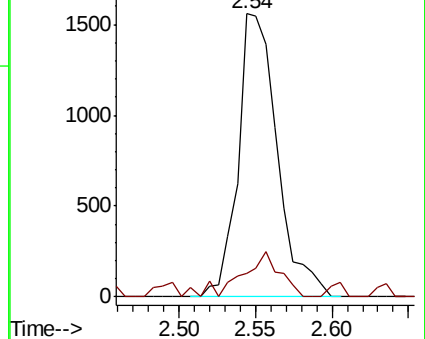
76 100

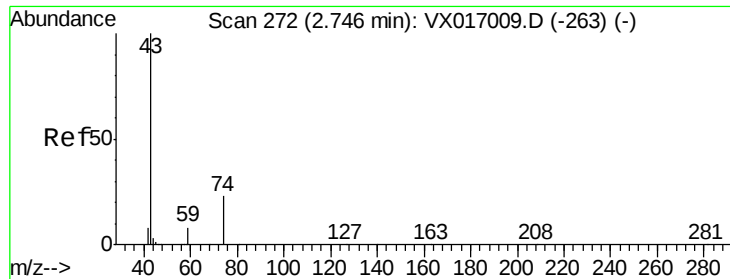
78 4.9 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

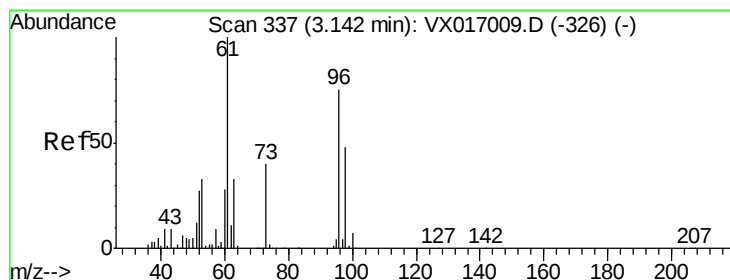
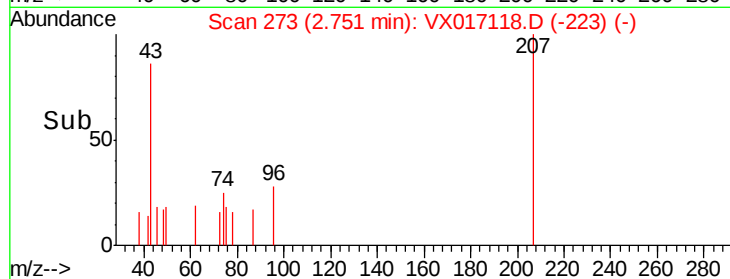
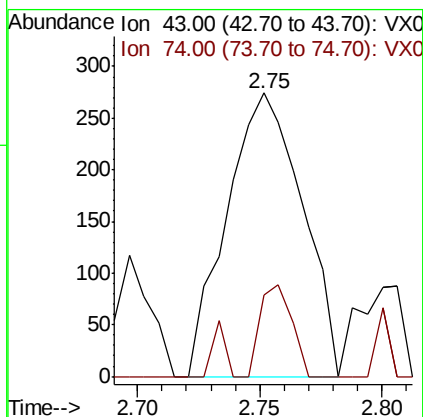
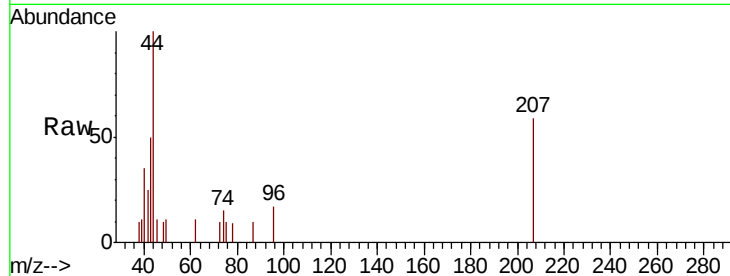




#18
Methvl Acetate
Concen: 0.215 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.01 min
Lab File: VX017118.D
Acq: 01 Jul 2020 23:35

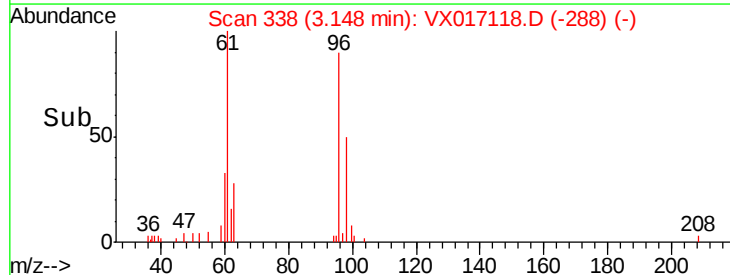
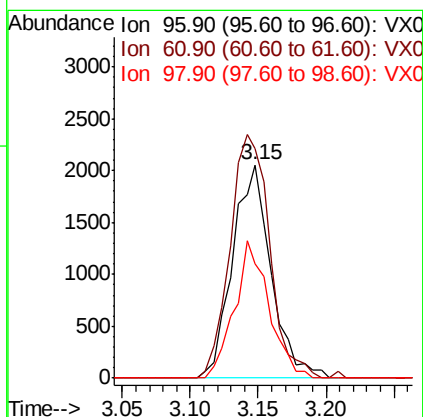
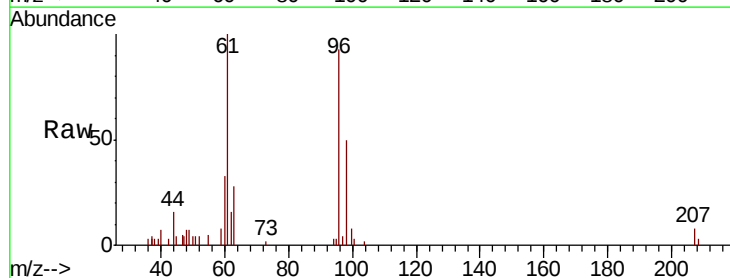
Instrument :
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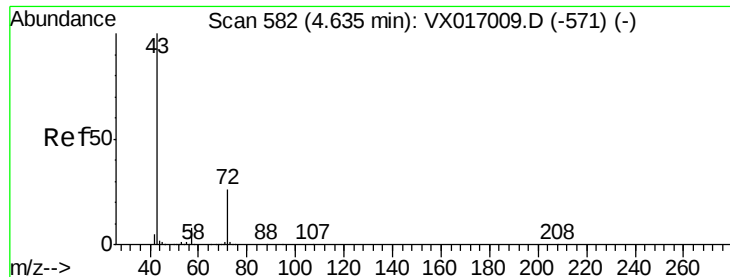
Tot Ion: 43 Resp: 587
Ion Ratio Lower Upper
43 100
74 13.6 19.3 28.9#



#21
trans-1,2-Dichloroethene
Concen: 1.632 ug/l
RT: 3.15 min Scan# 338
Delta R.T. 0.01 min
Lab File: VX017118.D
Acq: 01 Jul 2020 23:35

Tgt Ion: 96 Resp: 4061
Ion Ratio Lower Upper
96 100
61 107.9 107.0 160.6
98 53.5 51.6 77.4

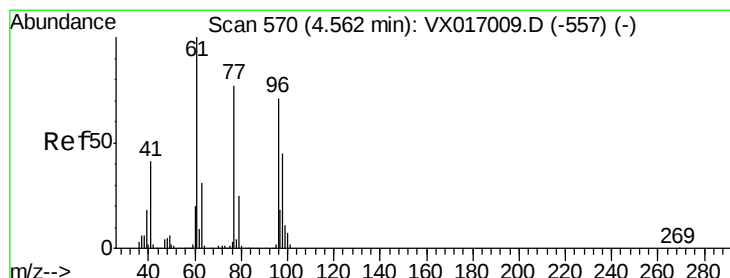
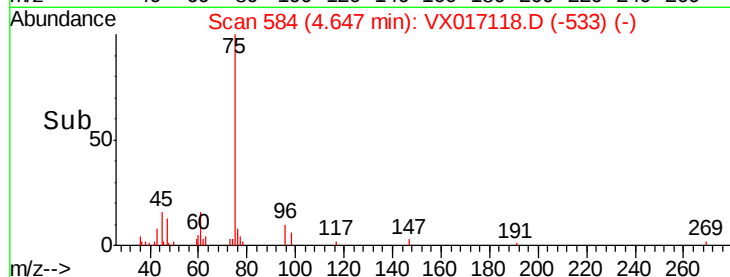
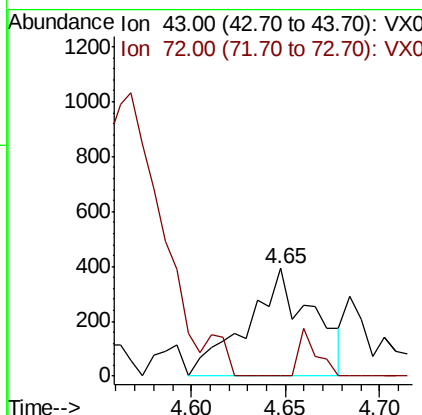
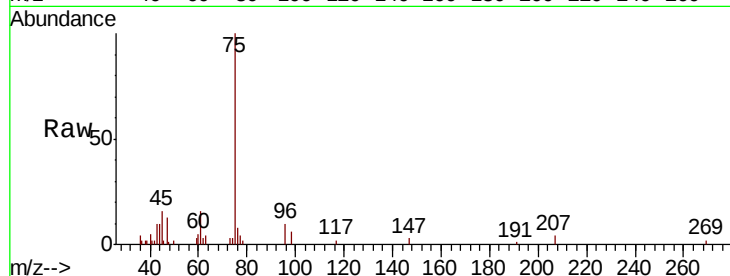




#25
2-Butanone
Concen: 0.543 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX017118.D
Acq: 01 Jul 2020 23:35

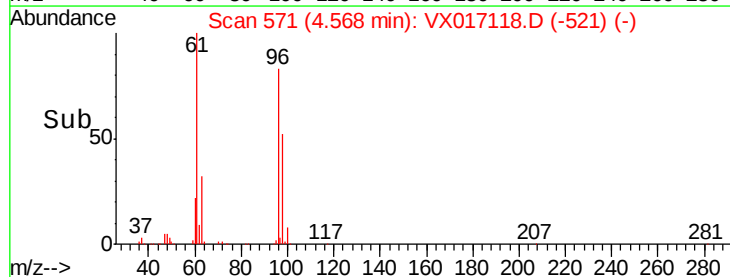
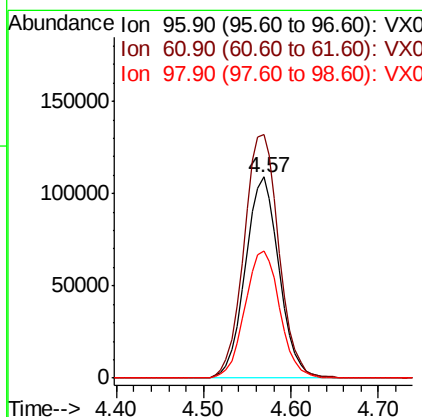
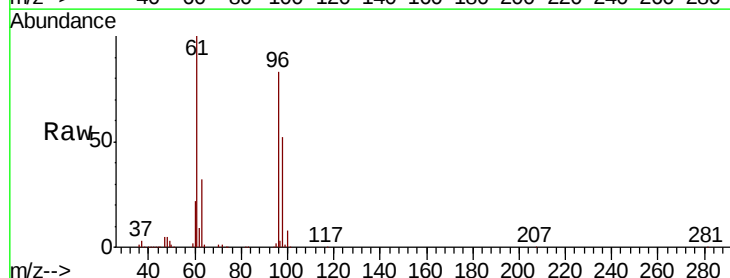
Instrument :
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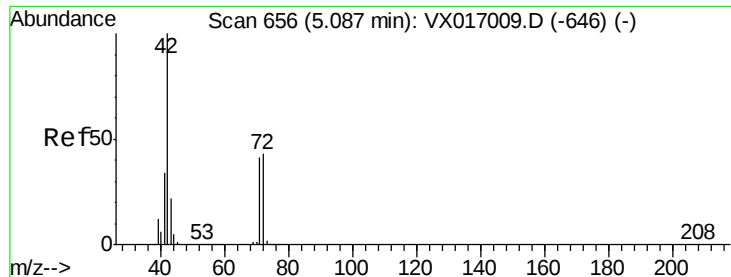
Tot Ion: 43 Resp: 945
Ion Ratio Lower Upper
43 100
72 0.0 20.8 31.2#



#27
cis-1,2-Dichloroethene
Concen: 103.713 ug/l
RT: 4.57 min Scan# 571
Delta R.T. 0.01 min
Lab File: VX017118.D
Acq: 01 Jul 2020 23:35

Tgt Ion: 96 Resp: 292336
Ion Ratio Lower Upper
96 100
61 125.9 0.0 282.8
98 65.4 0.0 127.6

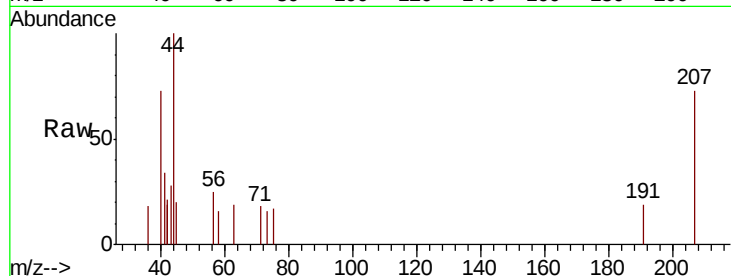




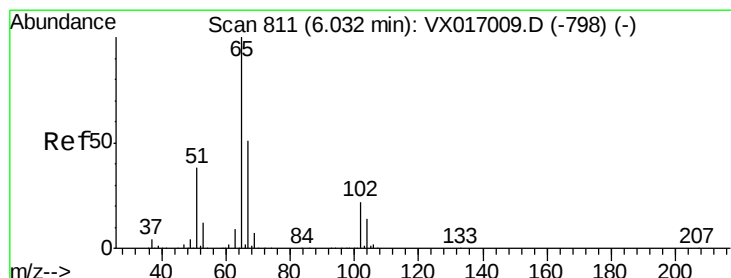
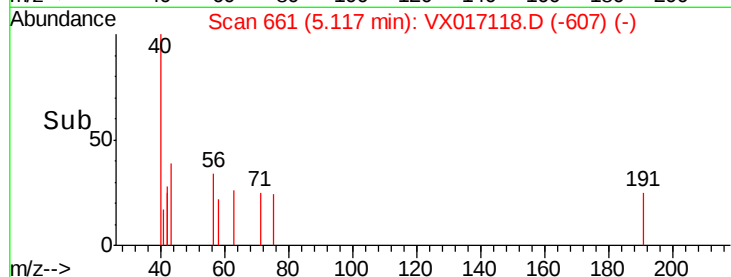
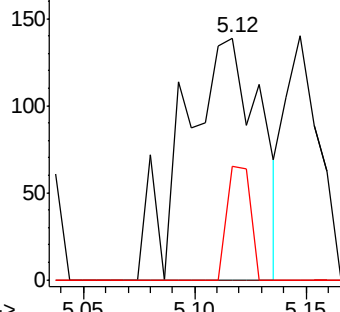
#29
Tetrahydrofuran
Concen: 0.288 ug/l
RT: 5.12 min Scan# 661
Delta R.T. 0.03 min
Lab File: VX017118.D
Acq: 01 Jul 2020 23:35

Instrument :
MSVOA_X
ClientSampleId :
07BR-20200629DL

Tot Ion: 42 Resp: 331
Ion Ratio Lower Upper
42 100
72 0.0 35.3 52.9#
71 14.2 33.1 49.7#

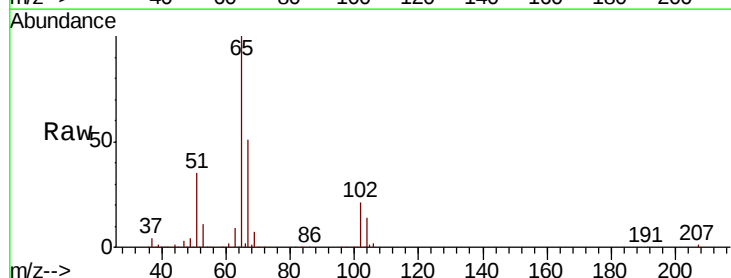


Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0

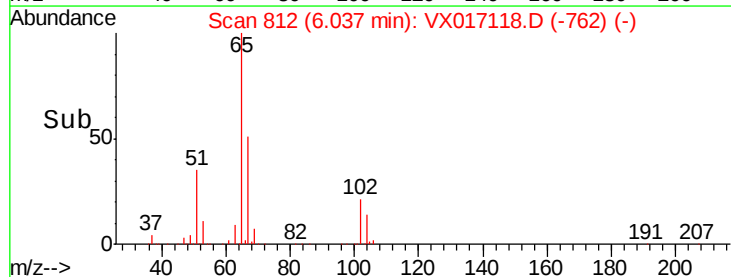
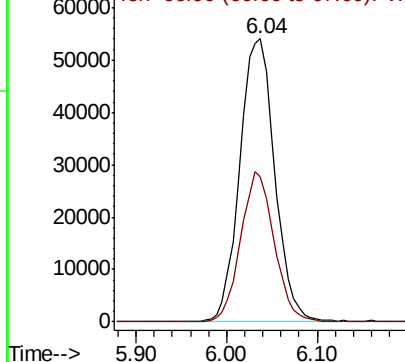


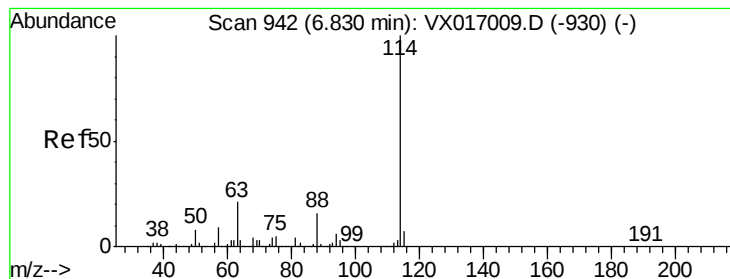
#33
1,2-Dichloroethane-d4
Concen: 51.705 ug/l
RT: 6.04 min Scan# 812
Delta R.T. 0.01 min
Lab File: VX017118.D
Acq: 01 Jul 2020 23:35

Tgt Ion: 65 Resp: 144425
Ion Ratio Lower Upper
65 100
67 51.0 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: VX017118.D

Acq: 01 Jul 2020 23:35

Instrument :

MSVOA_X

ClientSampleId :

07BR-20200629DL

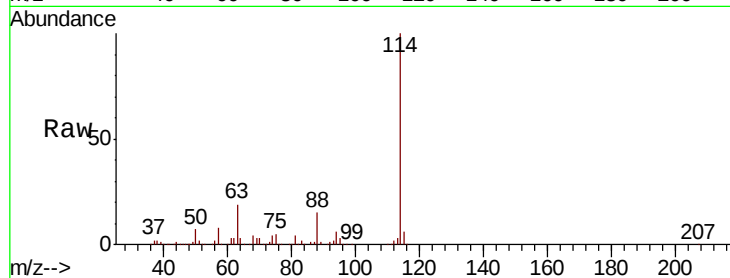
Tot Ion:114 Resp: 370659

Ion Ratio Lower Upper

114 100

63 19.0 0.0 41.4

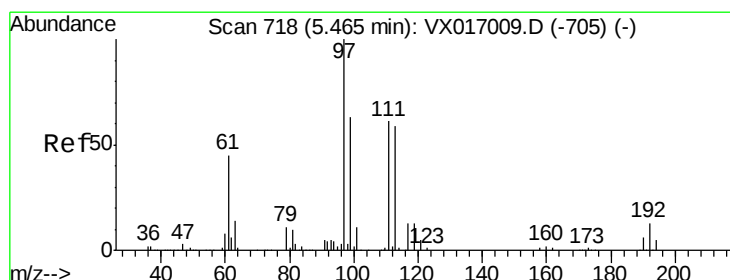
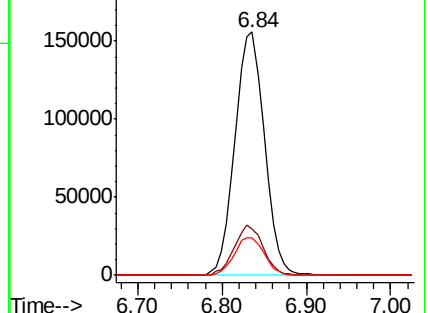
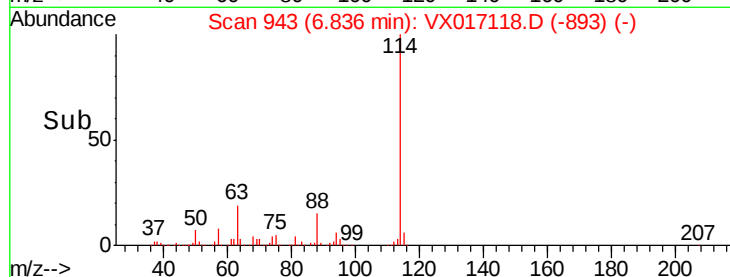
88 15.5 0.0 32.4



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: 51.863 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX017118.D

Acq: 01 Jul 2020 23:35

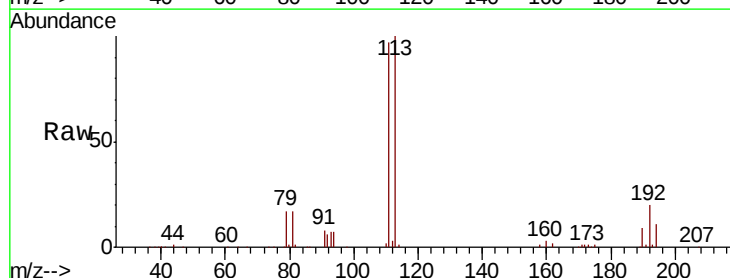
Tgt Ion:113 Resp: 121603

Ion Ratio Lower Upper

113 100

111 103.0 81.9 122.9

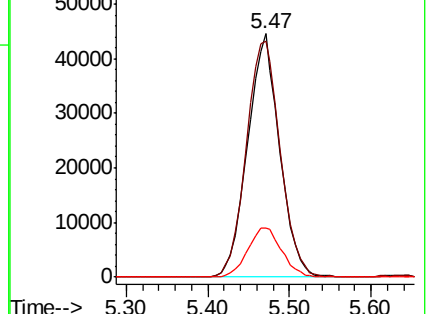
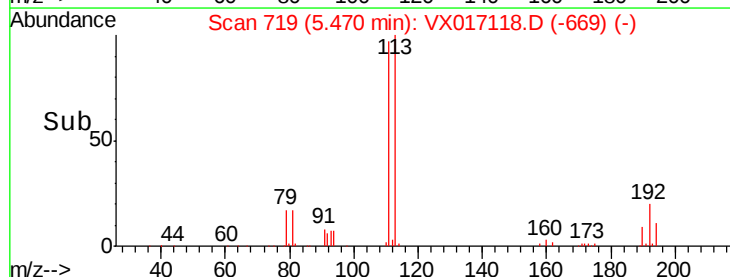
192 21.3 16.7 25.1

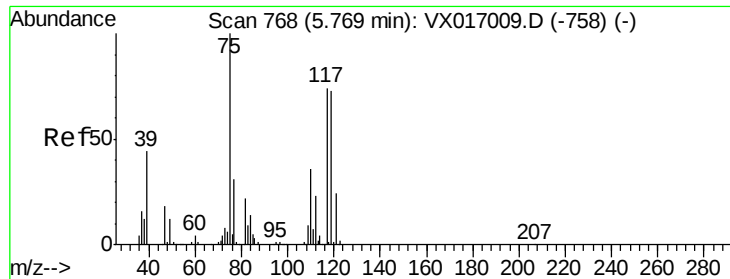


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.789 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX017118.D

Acq: 01 Jul 2020 23:35

Instrument :

MSVOA_X

ClientSampleId :

07BR-20200629DL

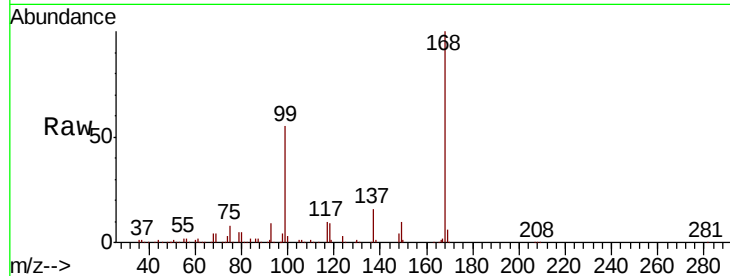
Tot Ion: 75 Resp: 16778

Ion Ratio Lower Upper

75 100

110 10.5 18.1 54.1#

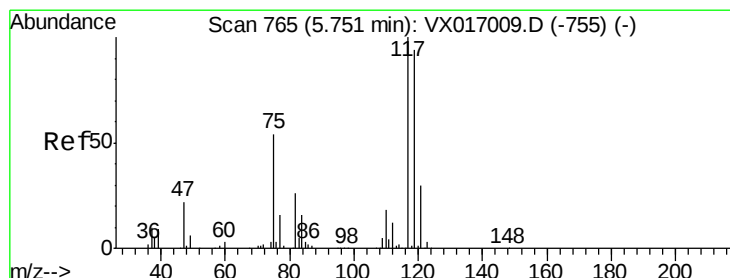
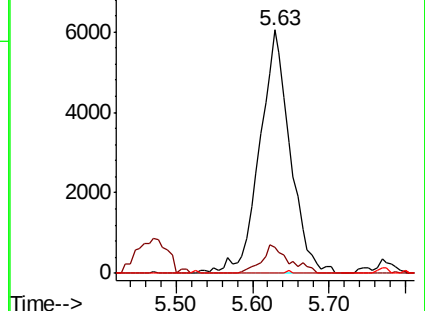
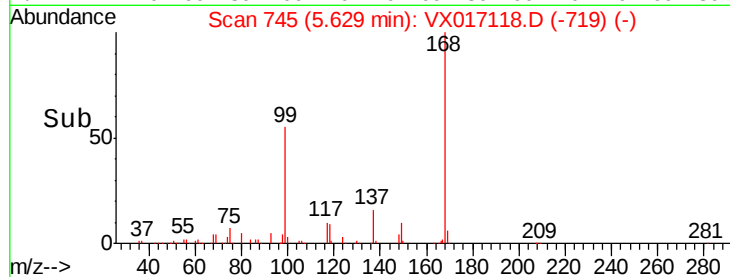
77 0.0 24.6 37.0#



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: 5.836 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017118.D

Acq: 01 Jul 2020 23:35

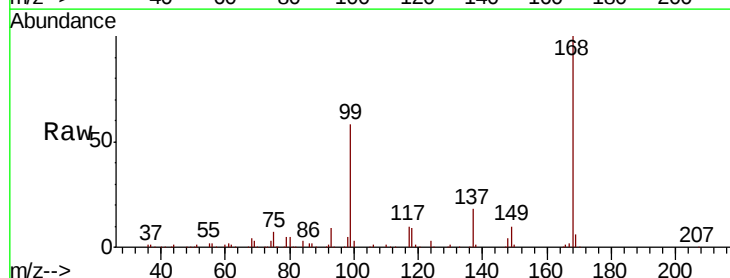
Tgt Ion:117 Resp: 22519

Ion Ratio Lower Upper

117 100

119 5.7 75.4 113.0#

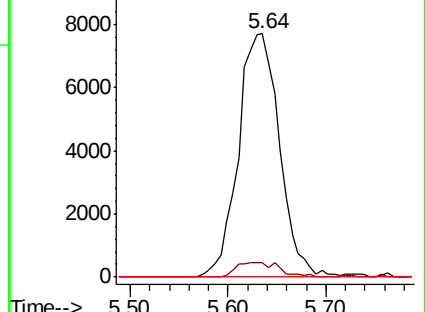
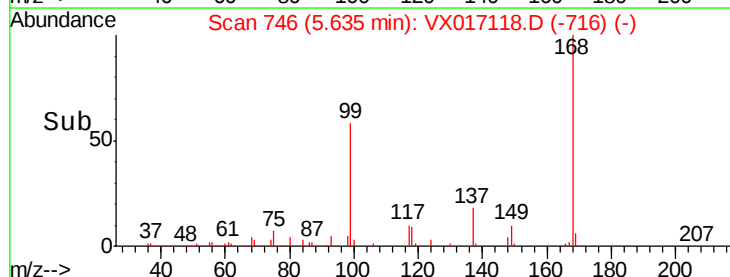
121 0.0 23.8 35.6#

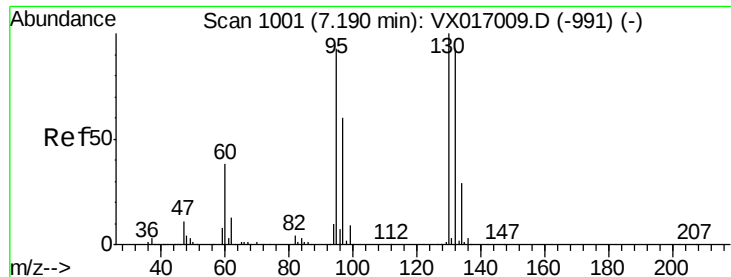


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 16.858 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VX017118.D

Acq: 01 Jul 2020 23:35

Instrument :

MSVOA_X

ClientSampleId :

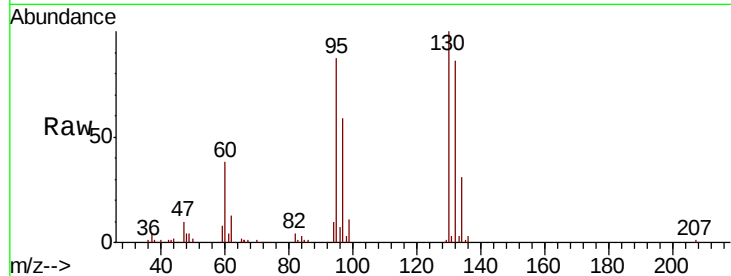
07BR-20200629DL

Tot Ion:130 Resp: 48465

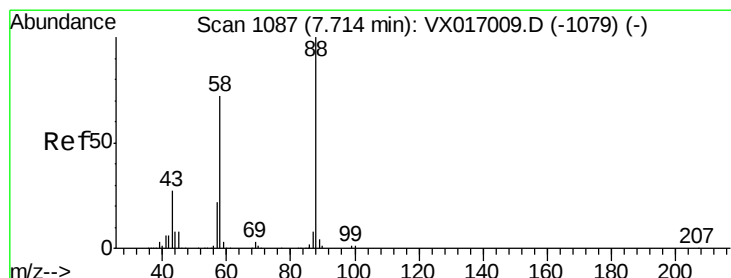
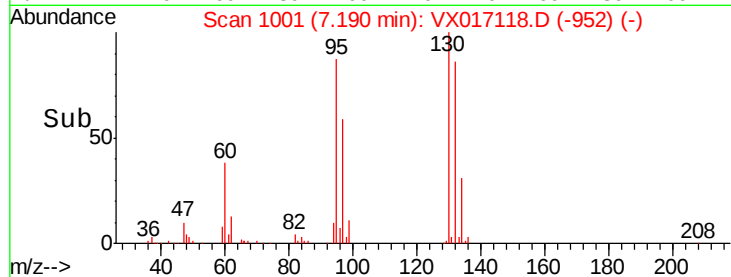
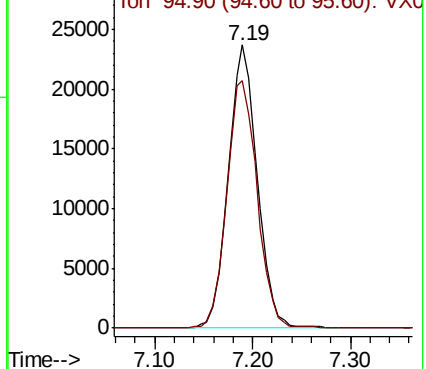
Ion Ratio Lower Upper

130 100

95 87.4 0.0 185.0



Abundance Ion 129.80 (129.50 to 130.50): V



#49

1,4-Dioxane

Concen: 0.755 ug/l

RT: 7.84 min Scan# 1107

Delta R.T. 0.12 min

Lab File: VX017118.D

Acq: 01 Jul 2020 23:35

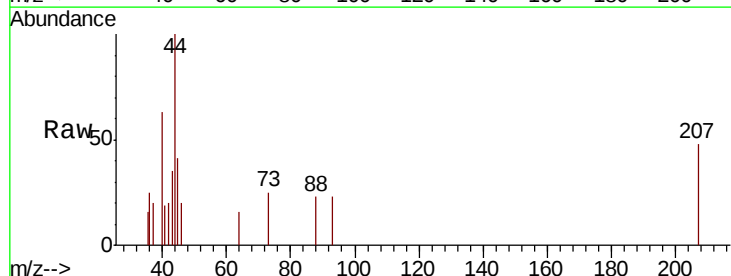
Tgt Ion: 88 Resp: 48

Ion Ratio Lower Upper

88 100

43 537.5 25.8 38.8#

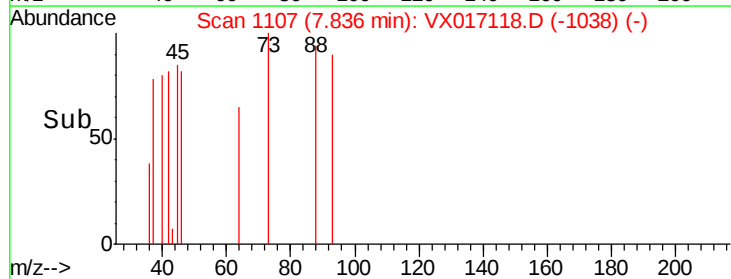
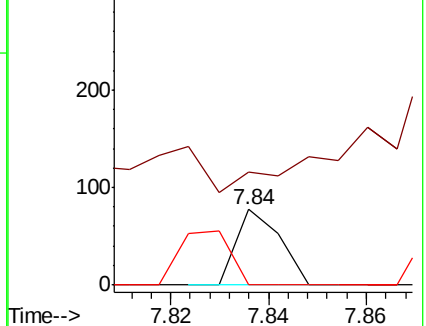
58 83.3 54.8 82.2#

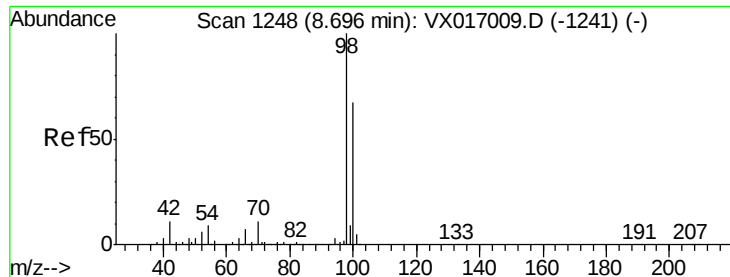


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.794 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017118.D

Acq: 01 Jul 2020 23:35

Instrument :

MSVOA_X

ClientSampleId :

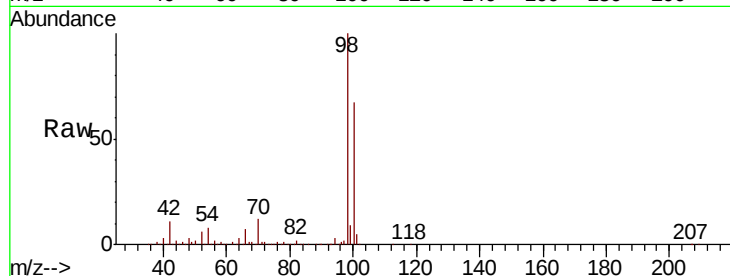
07BR-20200629DL

Tot Ion: 98 Resp: 449065

Ion Ratio Lower Upper

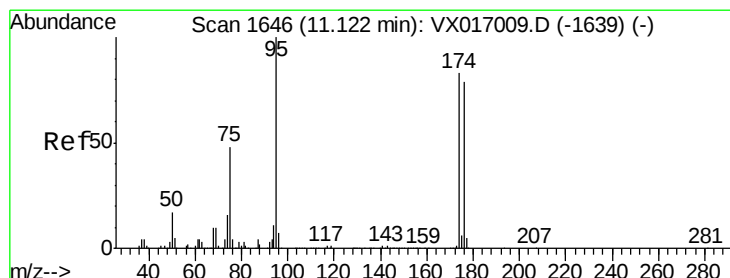
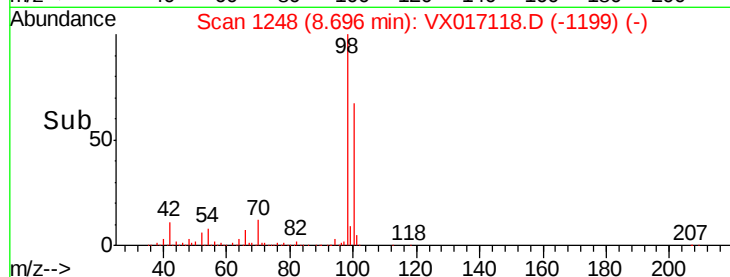
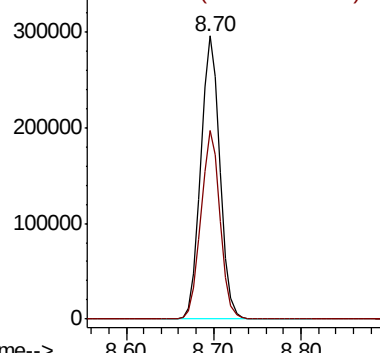
98 100

100 66.5 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#62

4-Bromofluorobenzene

Concen: 55.991 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017118.D

Acq: 01 Jul 2020 23:35

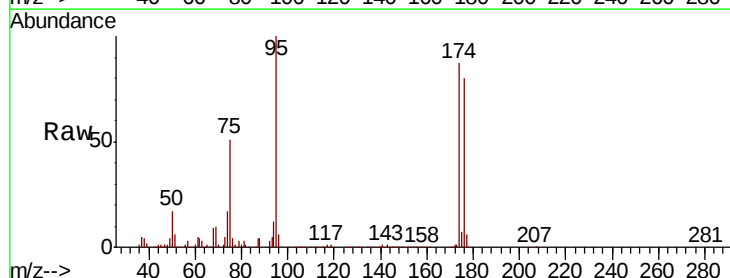
Tgt Ion: 95 Resp: 189769

Ion Ratio Lower Upper

95 100

174 85.0 0.0 164.0

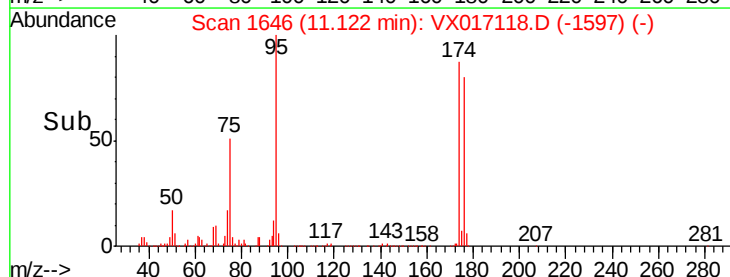
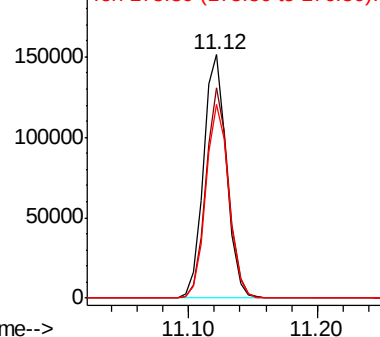
176 79.6 0.0 157.6

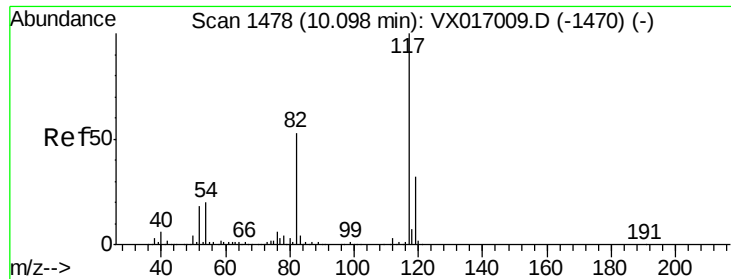


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

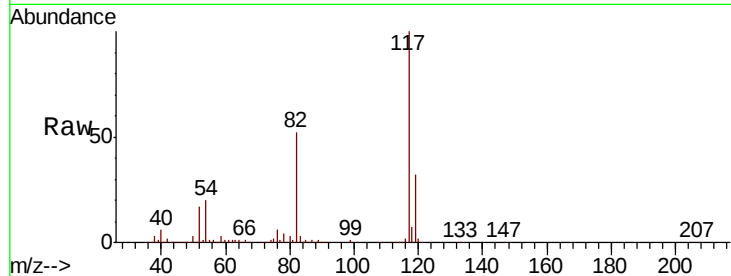




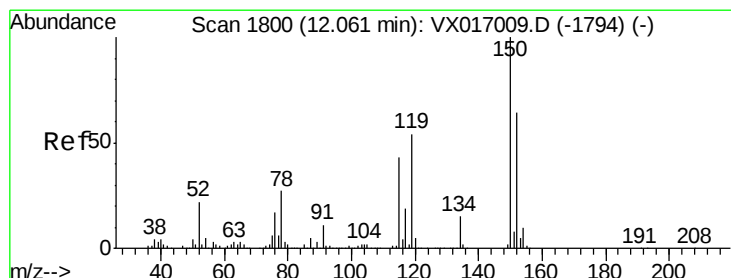
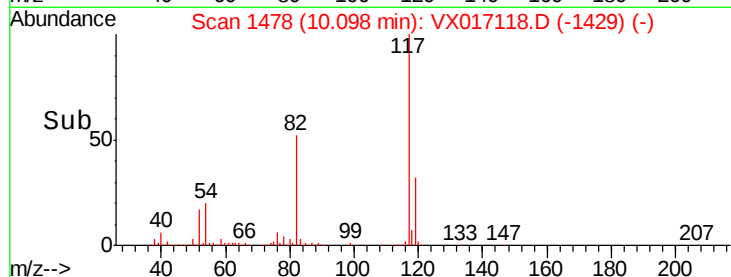
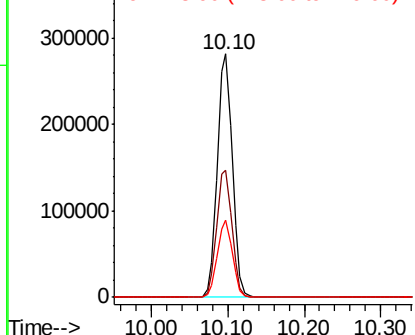
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017118.D
Acq: 01 Jul 2020 23:35

Instrument :
MSVOA_X
ClientSampleId :
07BR-20200629DL

Tot Ion:117 Resp: 383083
Ion Ratio Lower Upper
117 100
82 52.3 42.6 63.8
119 31.7 25.4 38.2

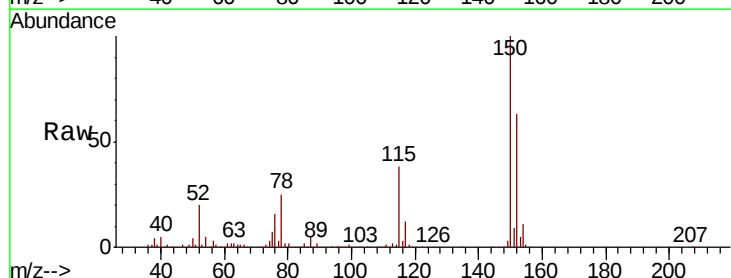


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

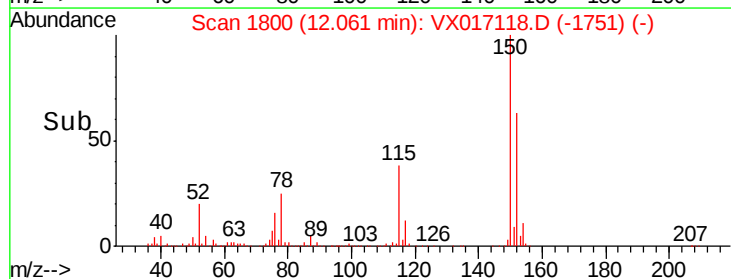
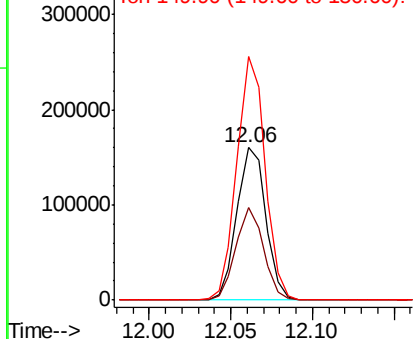


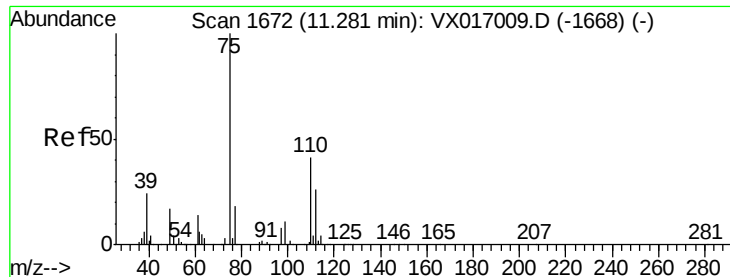
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017118.D
Acq: 01 Jul 2020 23:35

Tgt Ion:152 Resp: 199301
Ion Ratio Lower Upper
152 100
115 57.8 40.9 122.7
150 155.7 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: 24.063 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017118.D

Acq: 01 Jul 2020 23:35

Instrument :

MSVOA_X

ClientSampleId :

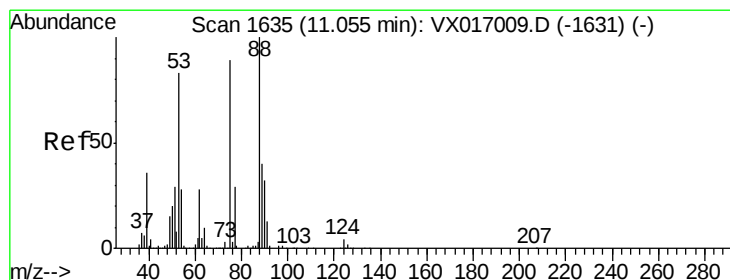
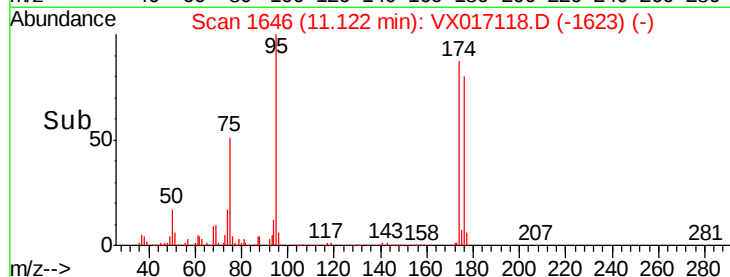
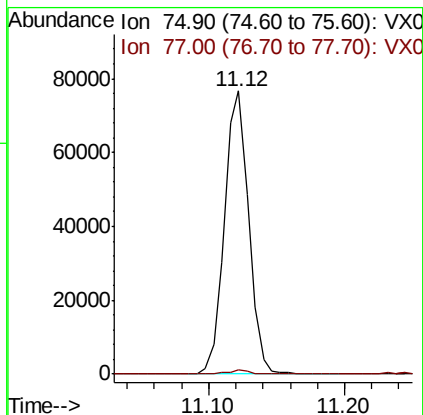
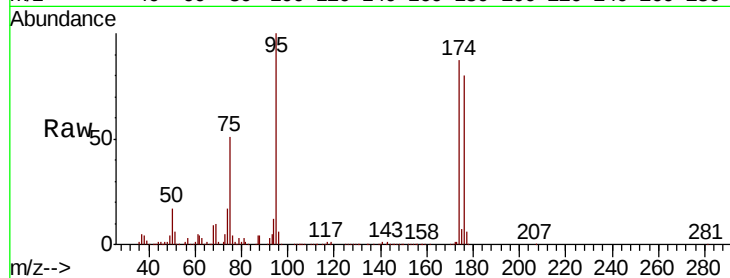
07BR-20200629DL

Tot Ion: 75 Resp: 94305

Ion Ratio Lower Upper

75 100

77 1.4 20.2 60.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 62.314 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017118.D

Acq: 01 Jul 2020 23:35

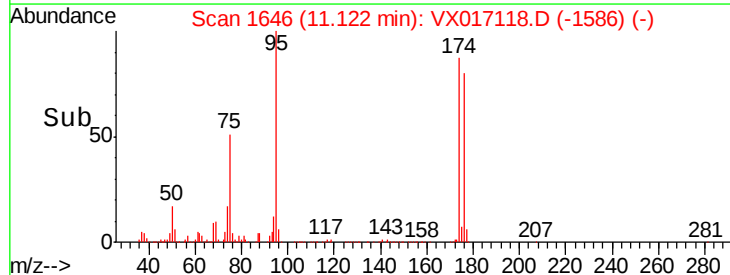
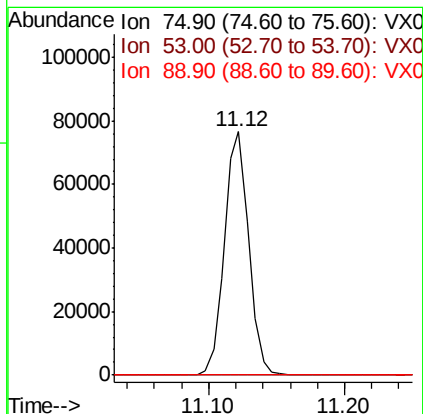
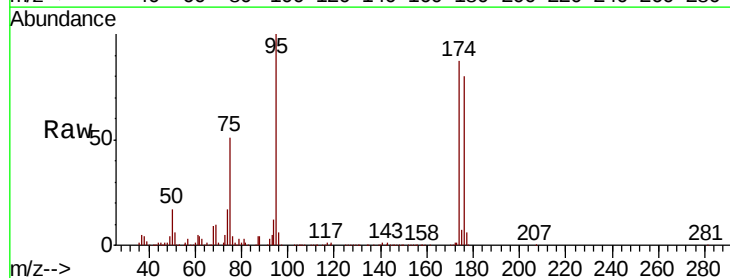
Tgt Ion: 75 Resp: 94305

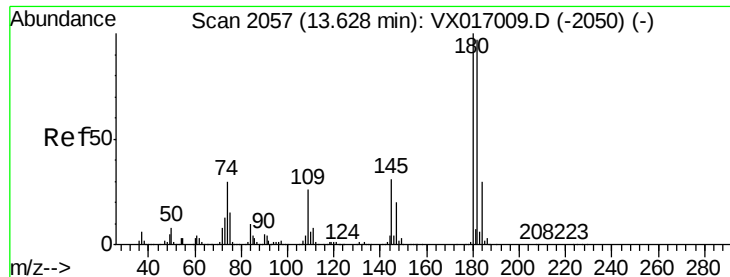
Ion Ratio Lower Upper

75 100

53 0.2 72.4 108.6#

89 0.0 37.0 55.4#

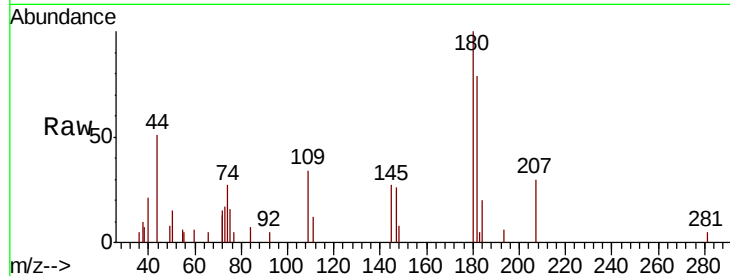




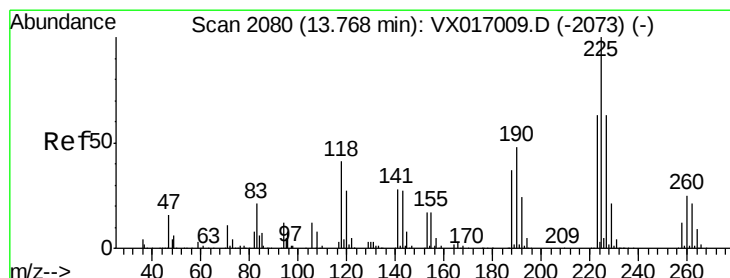
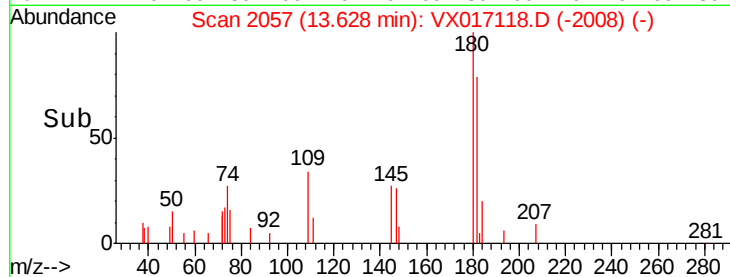
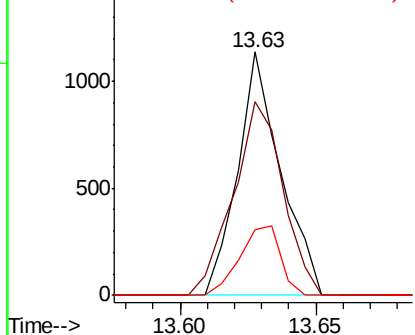
#93
 1,2,4-Trichlorobenzene
 Concen: 0.299 ug/l
 RT: 13.63 min Scan# 2057
 Delta R.T. -0.00 min
 Lab File: VX017118.D
 Acq: 01 Jul 2020 23:35

Instrument :
 MSVOA_X
 ClientSampleId :
 07BR-20200629DL

Tot Ion:180 Resp: 1242
 Ion Ratio Lower Upper
 180 100
 182 91.9 47.3 141.9
 145 27.0 15.4 46.2

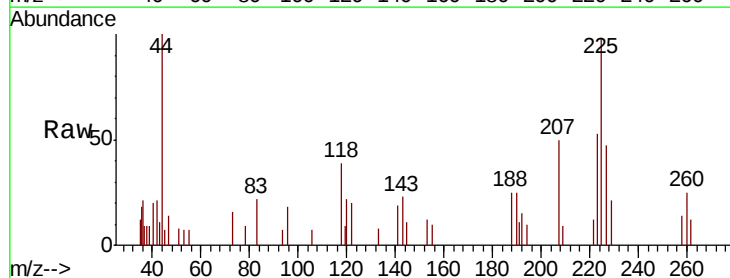


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

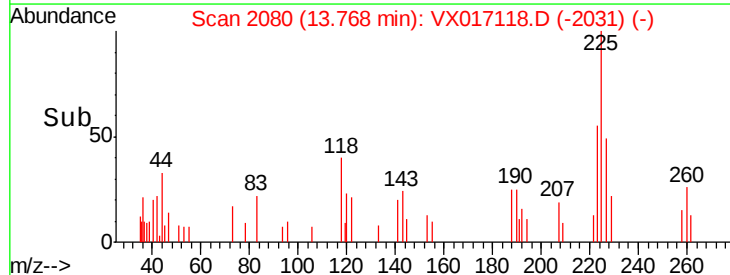
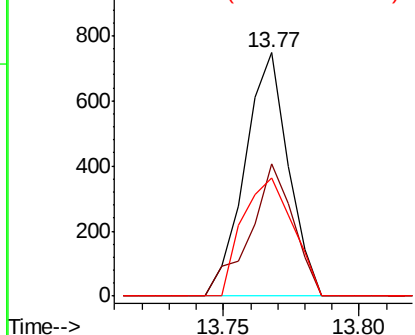


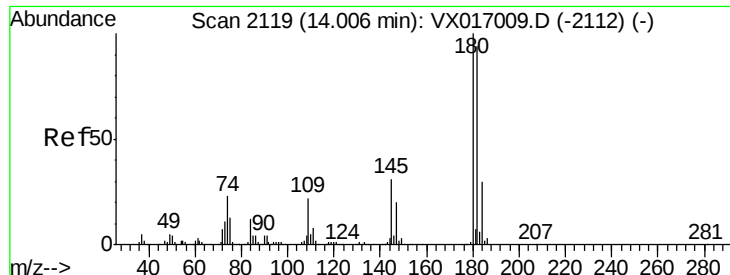
#94
 Hexachlorobutadiene
 Concen: 1.361 ug/l
 RT: 13.77 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VX017118.D
 Acq: 01 Jul 2020 23:35

Tgt Ion:225 Resp: 830
 Ion Ratio Lower Upper
 225 100
 223 54.2 32.5 97.5
 227 56.3 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





#96

1,2,3-Trichlorobenzene

Concen: 0.270 ug/l

RT: 14.01 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VX017118.D

Acq: 01 Jul 2020 23:35

Instrument :

MSVOA_X

ClientSampleId :

07BR-20200629DL

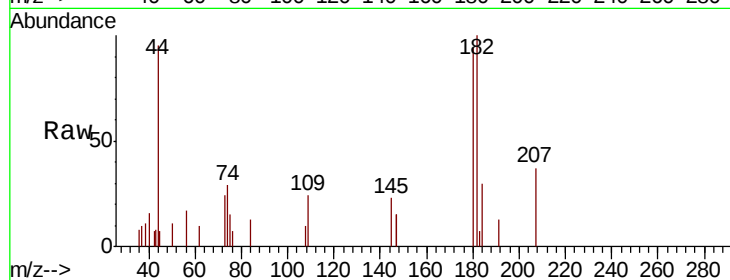
Tot Ion:180 Resp: 1085

Ion Ratio Lower Upper

180 100

182 104.6 47.1 141.4

145 30.9 16.6 49.7



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

