

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070620\
 Data File : VX017178.D
 Acq On : 06 Jul 2020 19:04
 Operator : JC/SP
 Sample : L3159-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 30BR-20200629

Quant Time: Jul 07 06:52:47 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	275848	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	455958	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	471626	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	260665	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	175841	51.71	ug/l	0.00
Spiked Amount			Recovery	=	103.42%	
35) Dibromofluoromethane	5.47	113	148790	51.59	ug/l	0.00
Spiked Amount			Recovery	=	103.18%	
50) Toluene-d8	8.70	98	553906	51.93	ug/l	0.00
Spiked Amount			Recovery	=	103.86%	
62) 4-Bromofluorobenzene	11.12	95	237368	56.93	ug/l	0.00
Spiked Amount			Recovery	=	113.86%	

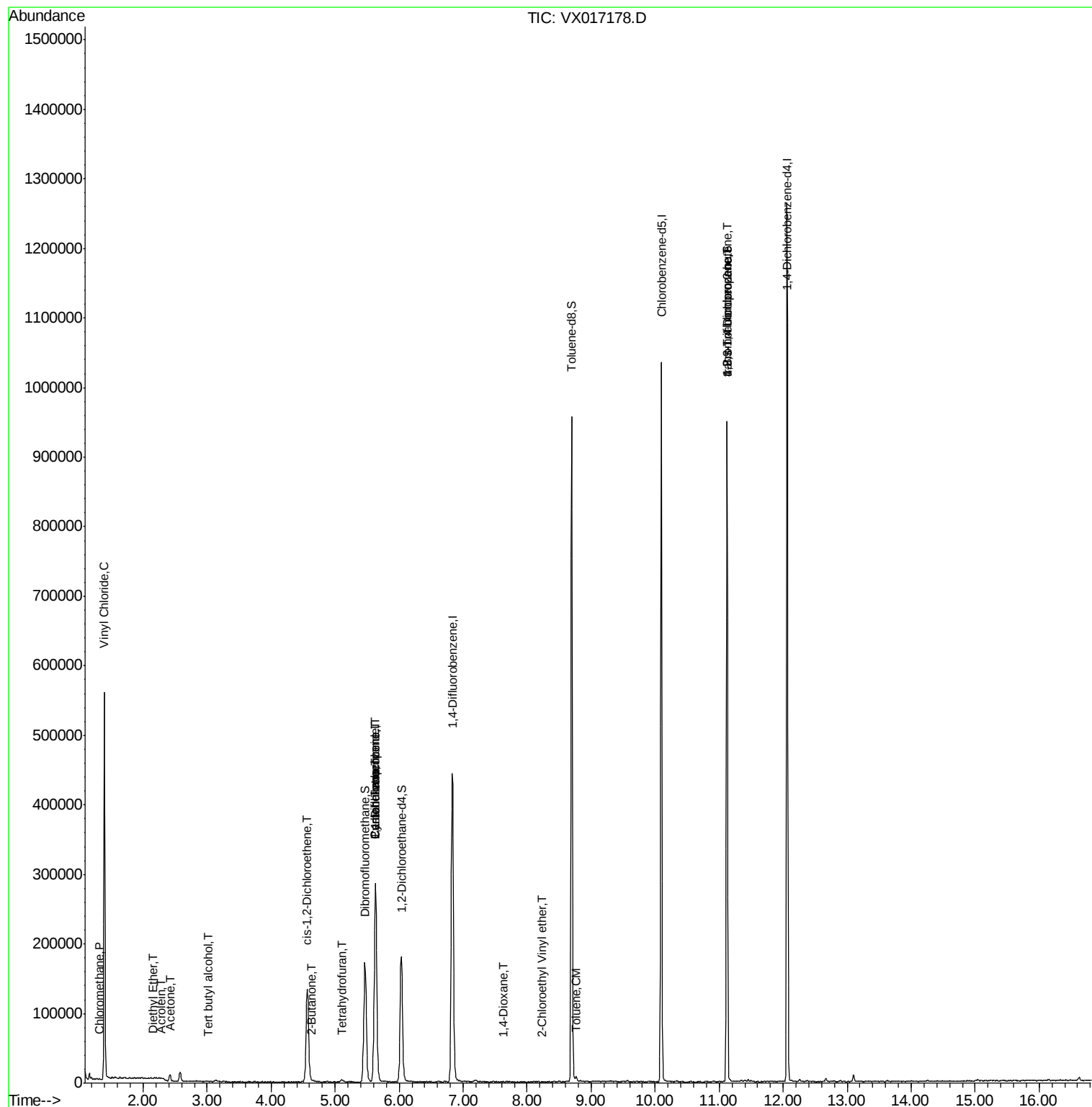
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	1285	0.398	ug/l #	80
4) Vinyl Chloride	1.39	62	332597	110.974	ug/l	100
8) Diethyl Ether	2.15	74	130	0.452	ug/l	75
11) Tert butyl alcohol	3.01	59	732	1.128	ug/l #	86
13) Acrolein	2.27	56	299	0.771	ug/l	98
16) Acetone	2.42	43	9261	7.280	ug/l #	86
20) Methylene Chloride	2.84	84	669	Below Cal	#	73
25) 2-Butanone	4.64	43	463	0.218	ug/l #	49
27) cis-1,2-Dichloroethene	4.56	96	86704	25.266	ug/l	89
29) Tetrahydrofuran	5.11	42	3150	2.249	ug/l #	83
31) Cyclohexane	5.63	56	5302	1.155	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	19352	4.491	ug/l #	50
38) Carbon Tetrachloride	5.64	117	27681	5.832	ug/l #	16
44) Trichloroethene	7.20	130	828	Below Cal		98
49) 1,4-Dioxane	7.62	88	22	0.281	ug/l #	1
52) Toluene	8.77	92	2201	0.278	ug/l	85
58) 2-Chloroethyl Vinyl ether	8.23	63	545	0.238	ug/l #	45
76) 1,2,3-Trichloropropane	11.12	75	117271	22.878	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	117271	59.247	ug/l #	13
88) 1,4-Dichlorobenzene	12.09	146	585	Below Cal	#	25

(#) = 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: VX017178.D

Acq: 06 Jul 2020 19:04

Instrument :

MSVOA_X

ClientSampleId :

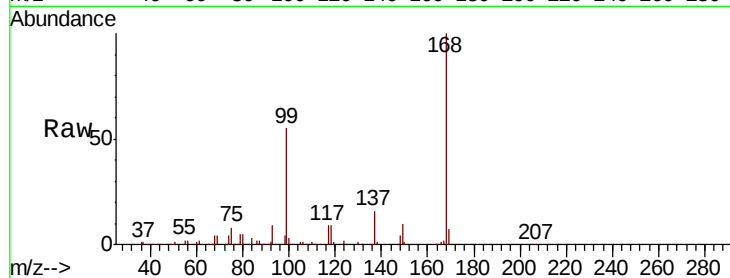
30BR-20200629

Tot Ion:168 Resp: 275848

Ion Ratio Lower Upper

168 100

99 54.8 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

100000

80000

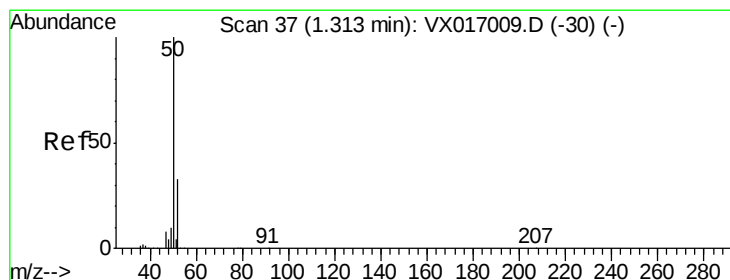
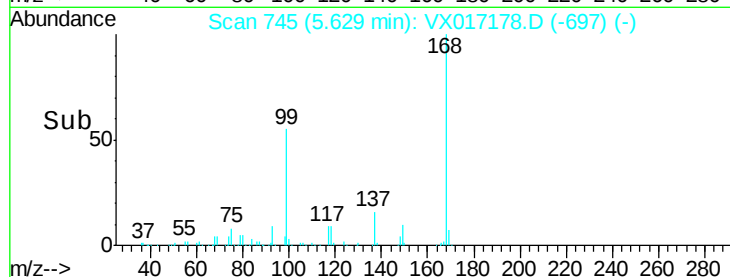
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.398 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX017178.D

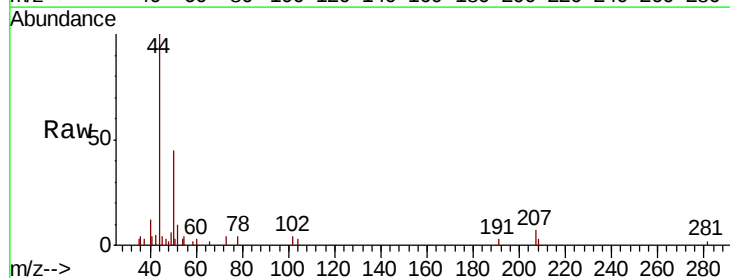
Acq: 06 Jul 2020 19:04

Tgt Ion: 50 Resp: 1285

Ion Ratio Lower Upper

50 100

52 21.1 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

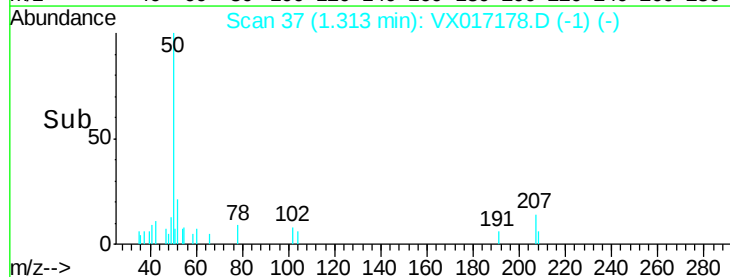
1.31

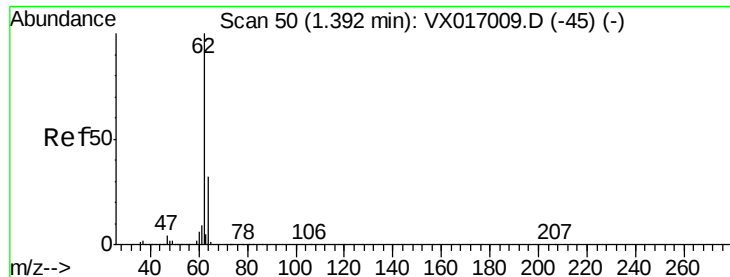
1000

500

0

Time-->





#4

Vinyl Chloride

Concen: 110.974 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX017178.D

Acq: 06 Jul 2020 19:04

Instrument :

MSVOA_X

ClientSampleId :

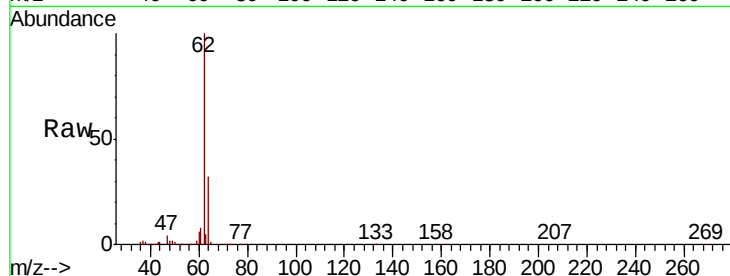
30BR-20200629

Tot Ion: 62 Resp: 332597

Ion Ratio Lower Upper

62 100

64 32.2 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

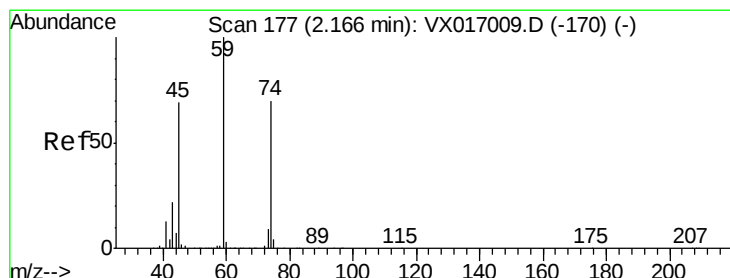
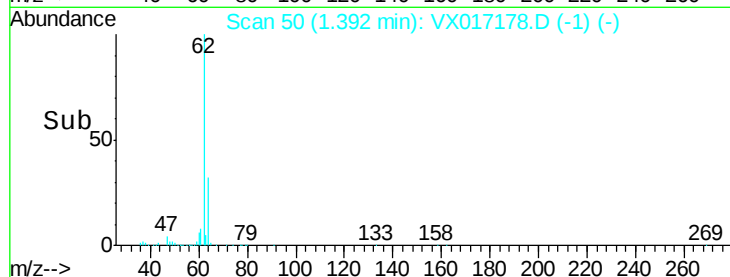
300000

200000

100000

0

Time-->



#8

Diethyl Ether

Concen: 0.452 ug/l

RT: 2.15 min Scan# 175

Delta R.T. -0.01 min

Lab File: VX017178.D

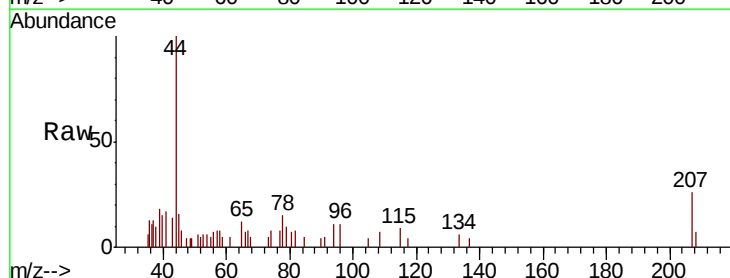
Acq: 06 Jul 2020 19:04

Tgt Ion: 74 Resp: 130

Ion Ratio Lower Upper

74 100

45 124.6 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.15

300

250

200

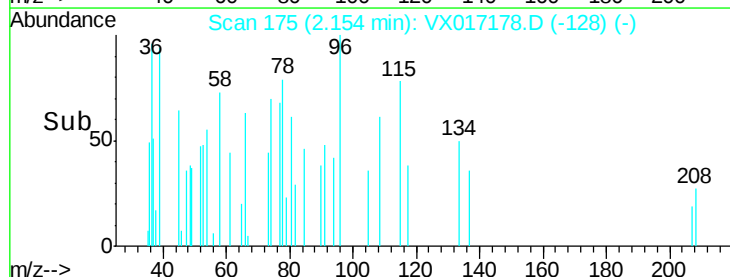
150

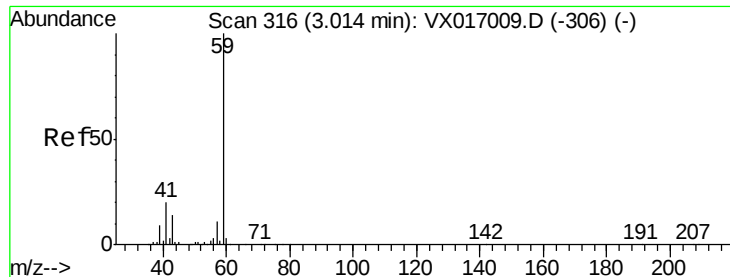
100

50

0

Time-->

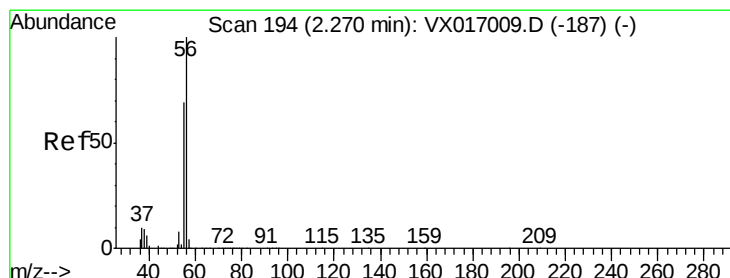
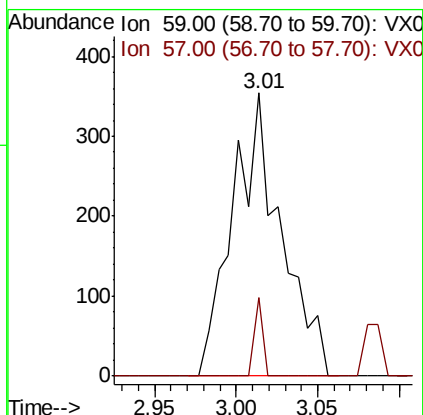
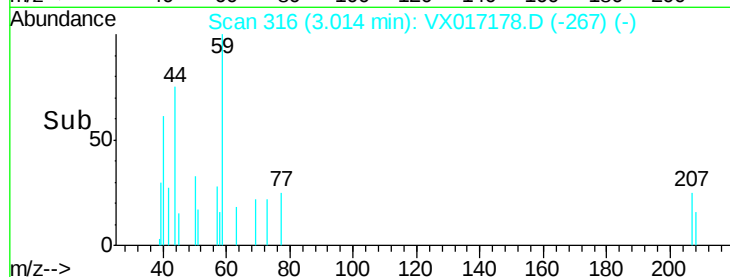
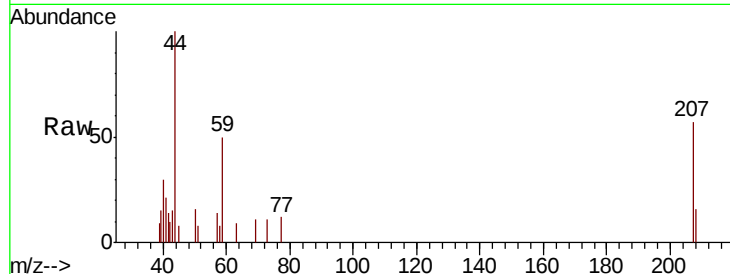




#11
Tert butyl alcohol
Concen: 1.128 ug/l
RT: 3.01 min Scan# 316
Delta R.T. -0.00 min
Lab File: VX017178.D
Acq: 06 Jul 2020 19:04

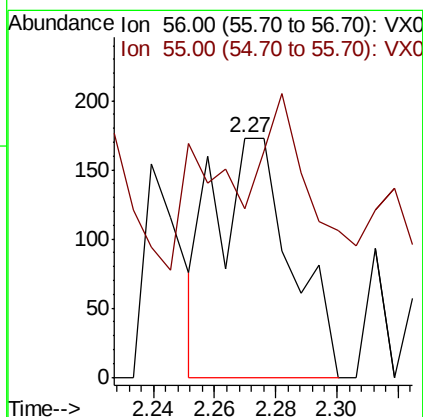
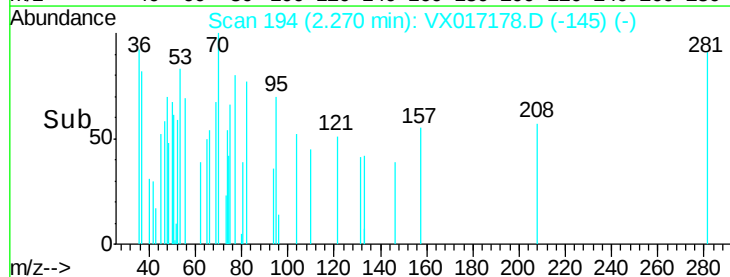
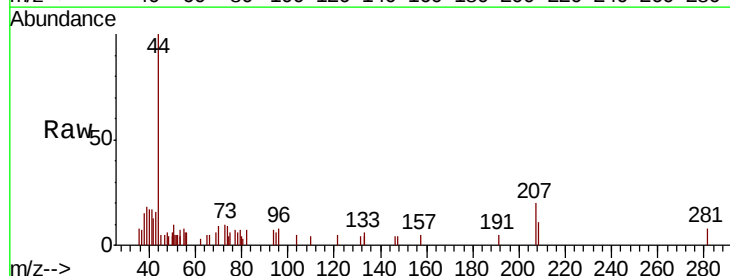
Instrument :
MSVOA_X
ClientSampleId :
30BR-20200629

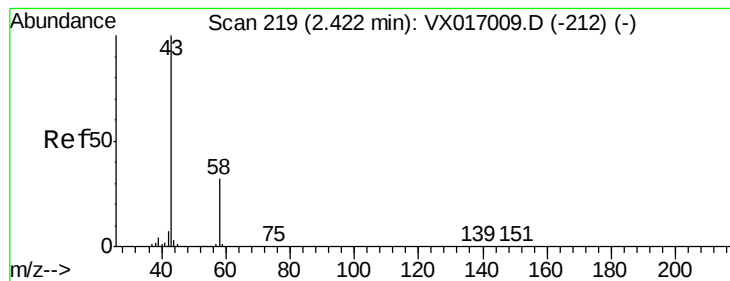
Tot Ion: 59 Resp: 732
Ion Ratio Lower Upper
59 100
57 4.9 8.2 12.2#



#13
Acrolein
Concen: 0.771 ug/l
RT: 2.27 min Scan# 194
Delta R.T. -0.00 min
Lab File: VX017178.D
Acq: 06 Jul 2020 19:04

Tgt Ion: 56 Resp: 299
Ion Ratio Lower Upper
56 100
55 71.6 55.7 83.5





#16

Acetone

Concen: 7.280 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017178.D

Acq: 06 Jul 2020 19:04

Instrument :

MSVOA_X

ClientSampleId :

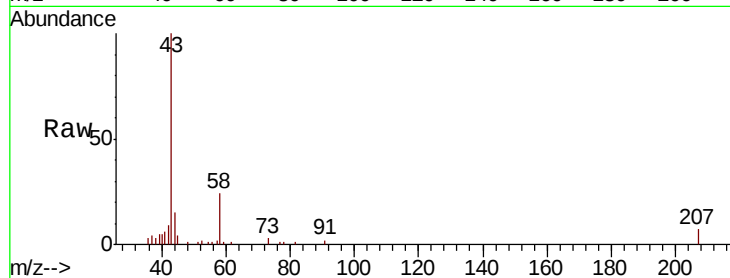
30BR-20200629

Tot Ion: 43 Resp: 9261

Ion Ratio Lower Upper

43 100

58 24.5 25.7 38.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.42

6000

5000

4000

3000

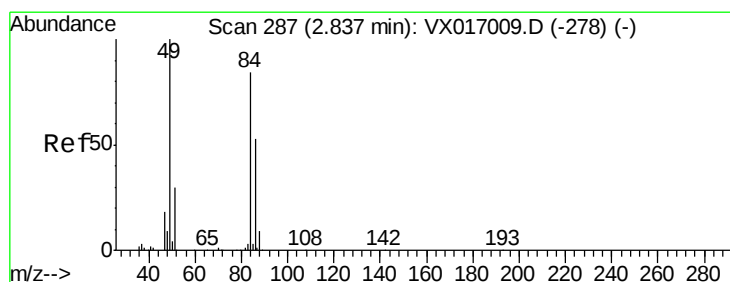
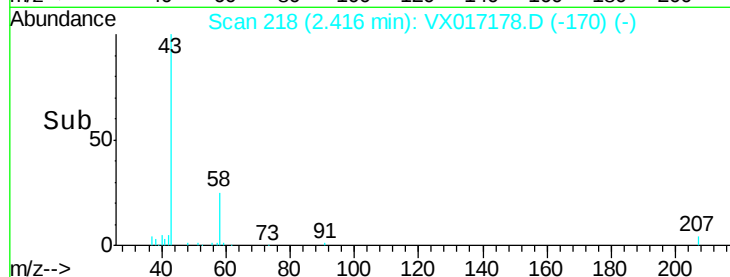
2000

1000

0

Time-->

2.35 2.40 2.45 2.50



#20

Methylene Chloride

Concen: Below Cal

RT: 2.84 min Scan# 288

Delta R.T. 0.01 min

Lab File: VX017178.D

Acq: 06 Jul 2020 19:04

Tgt Ion: 84 Resp: 669

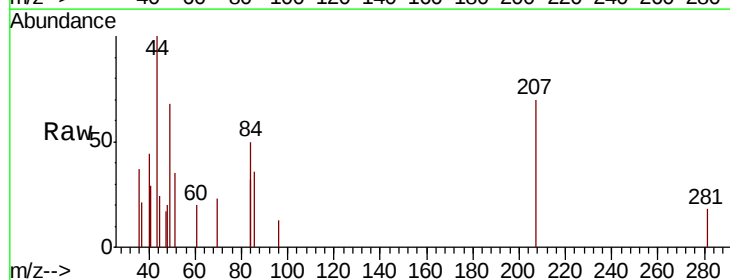
Ion Ratio Lower Upper

84 100

49 82.6 94.7 142.1#

51 42.4 28.6 42.8

86 43.5 50.5 75.7#



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

500

400

300

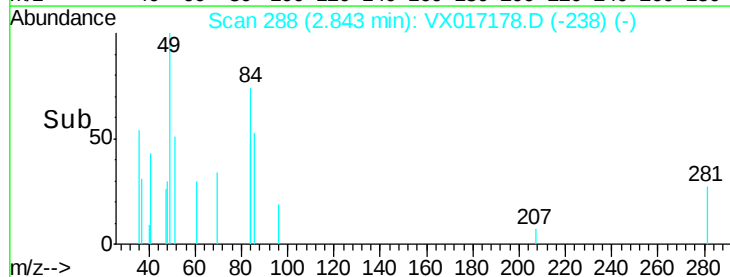
200

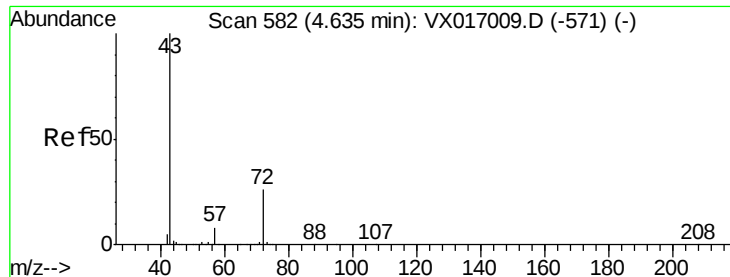
100

0

Time-->

2.80 2.85





#25

2-Butanone

Concen: 0.218 ug/l

RT: 4.64 min Scan# 582

Delta R.T. -0.00 min

Lab File: VX017178.D

Acq: 06 Jul 2020 19:04

Instrument :

MSVOA_X

ClientSampleId :

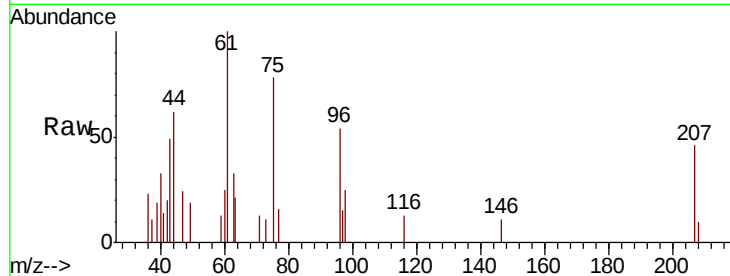
30BR-20200629

Tot Ion: 43 Resp: 463

Ion Ratio Lower Upper

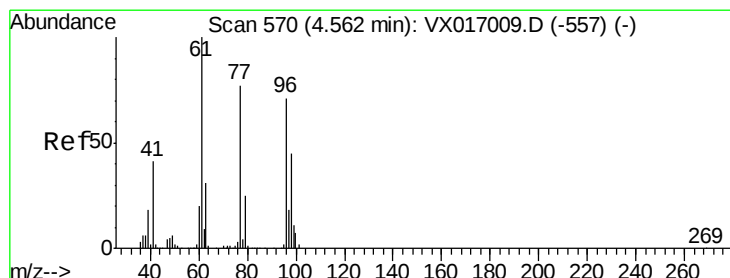
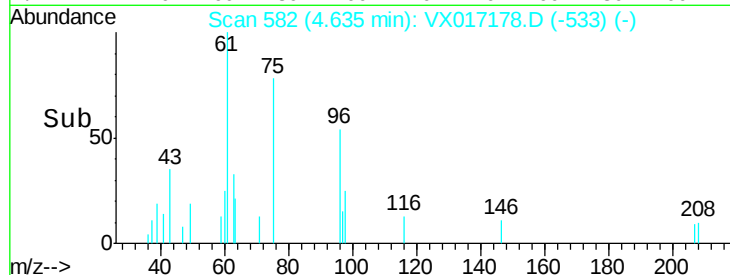
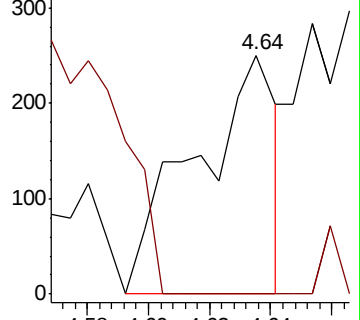
43 100

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



#27

cis-1,2-Dichloroethene

Concen: 25.266 ug/l

RT: 4.56 min Scan# 570

Delta R.T. -0.00 min

Lab File: VX017178.D

Acq: 06 Jul 2020 19:04

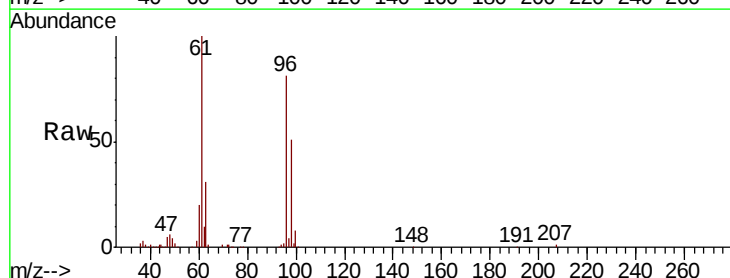
Tgt Ion: 96 Resp: 86704

Ion Ratio Lower Upper

96 100

61 124.3 0.0 282.8

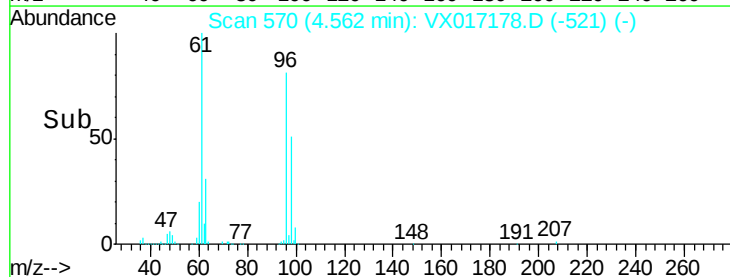
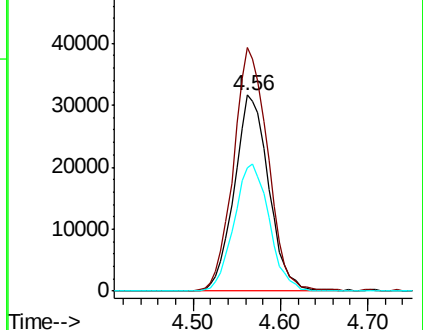
98 66.1 0.0 127.6

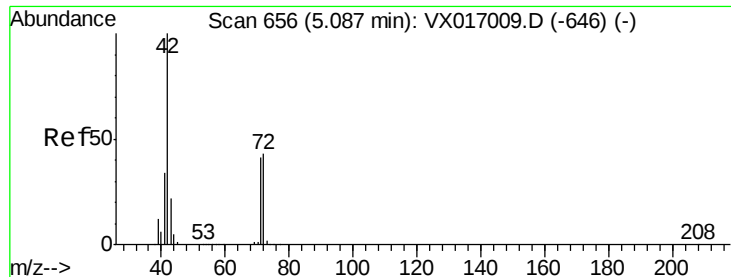


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

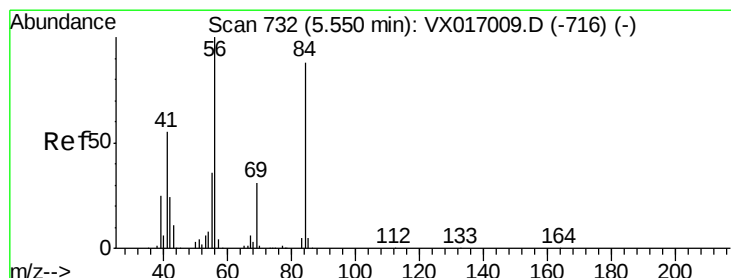
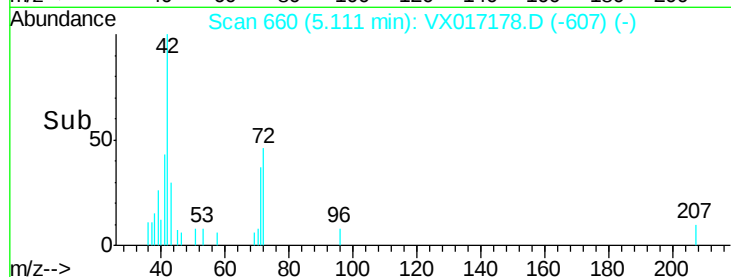
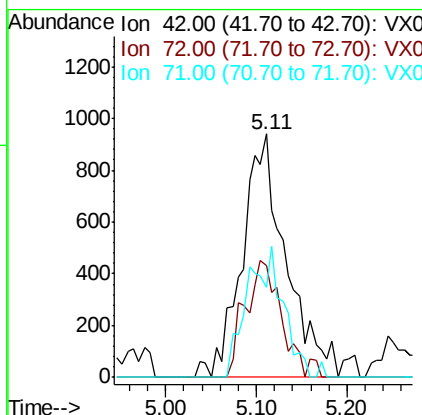
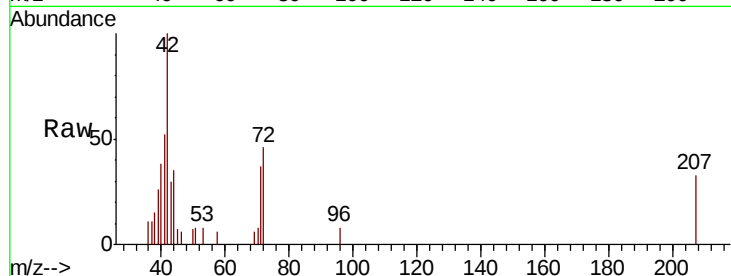




#29
Tetrahydrofuran
Concen: 2.249 ug/l
RT: 5.11 min Scan# 660
Delta R.T. 0.02 min
Lab File: VX017178.D
Acq: 06 Jul 2020 19:04

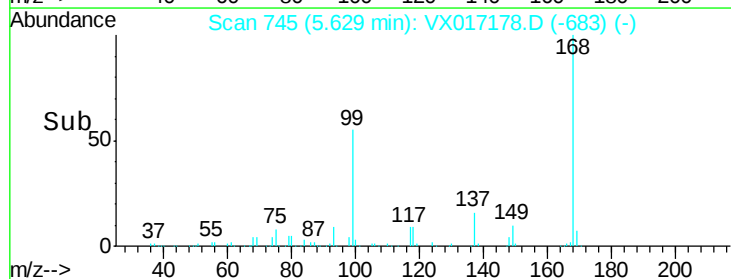
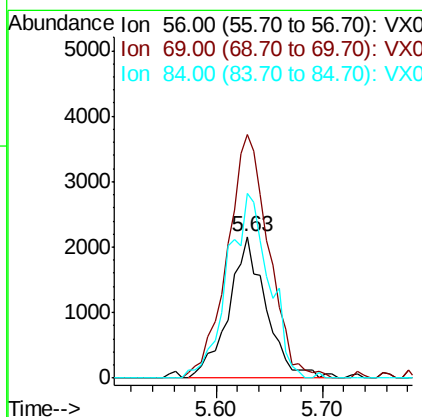
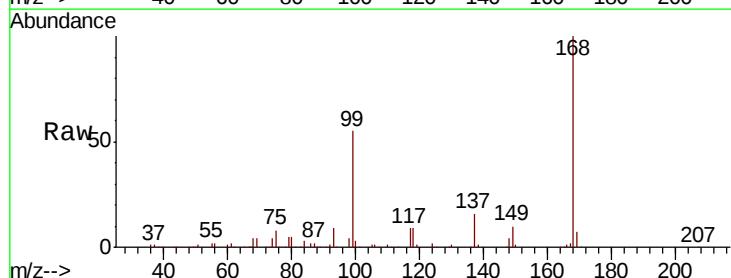
Instrument :
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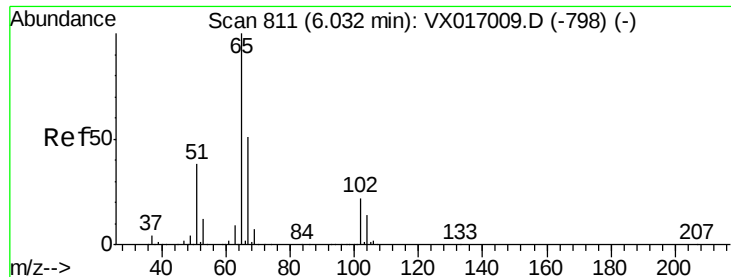
Tot Ion: 42 Resp: 3150
Ion Ratio Lower Upper
42 100
72 38.7 35.3 52.9
71 24.9 33.1 49.7#



#31
Cyclohexane
Concen: 1.155 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX017178.D
Acq: 06 Jul 2020 19:04

Tgt Ion: 56 Resp: 5302
Ion Ratio Lower Upper
56 100
69 171.7 25.0 37.4#
84 130.7 69.1 103.7#





#33

1,2-Dichloroethane-d4

Concen: 51.708 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017178.D

Acq: 06 Jul 2020 19:04

Instrument :

MSVOA_X

ClientSampleId :

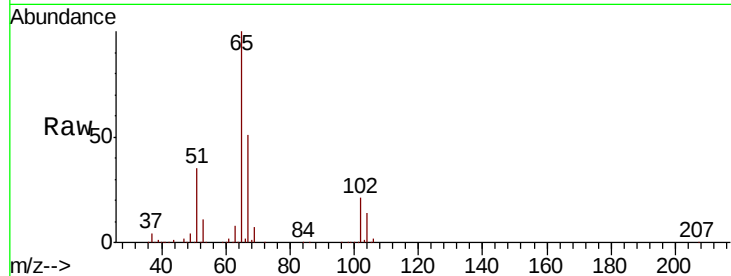
30BR-20200629

Tot Ion: 65 Resp: 175841

Ion Ratio Lower Upper

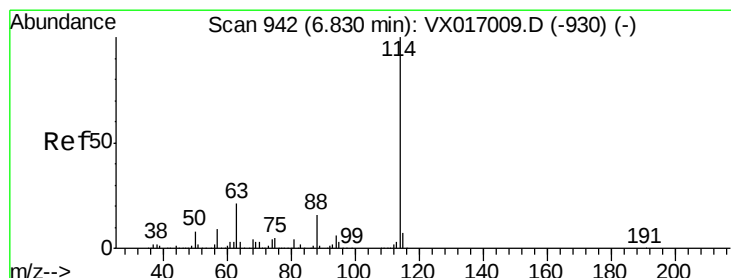
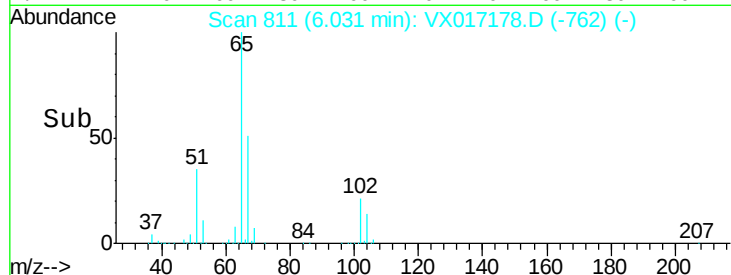
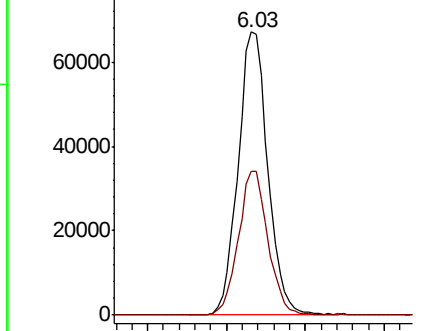
65 100

67 50.7 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: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017178.D

Acq: 06 Jul 2020 19:04

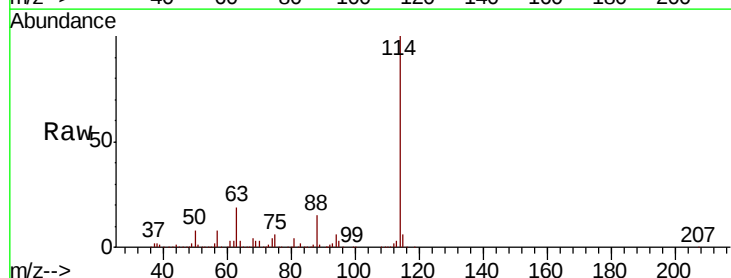
Tgt Ion: 114 Resp: 455958

Ion Ratio Lower Upper

114 100

63 19.4 0.0 41.4

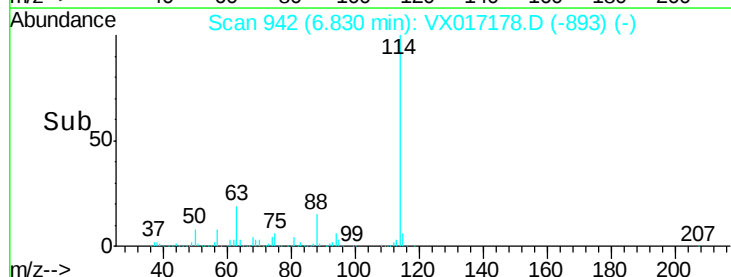
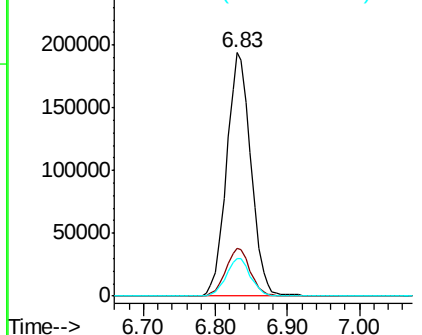
88 15.3 0.0 32.4

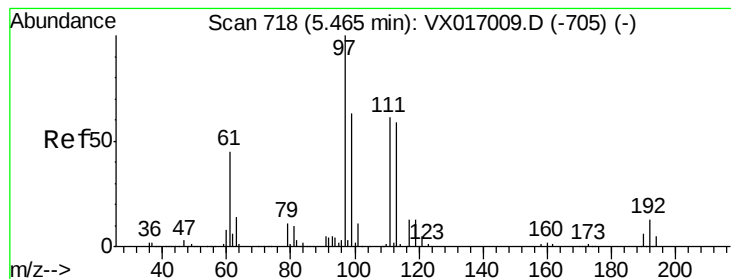


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 51.587 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX017178.D

Acq: 06 Jul 2020 19:04

Instrument :

MSVOA_X

ClientSampleId :

30BR-20200629

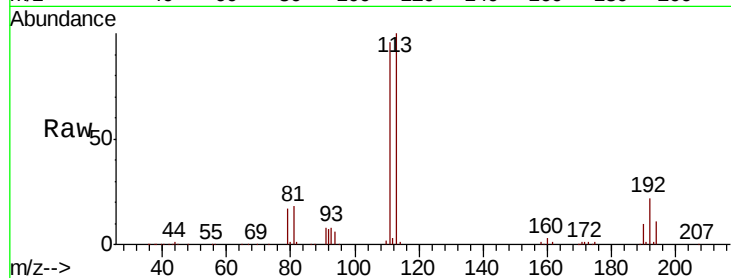
Tot Ion:113 Resp: 148790

Ion Ratio Lower Upper

113 100

111 102.8 81.9 122.9

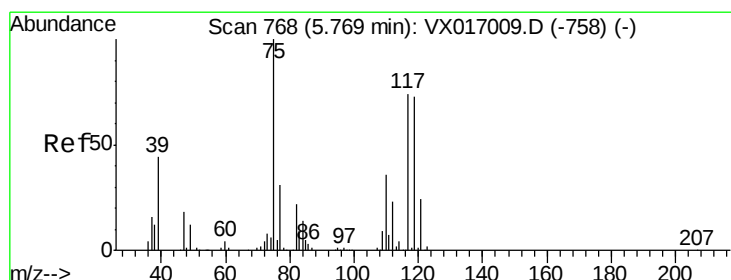
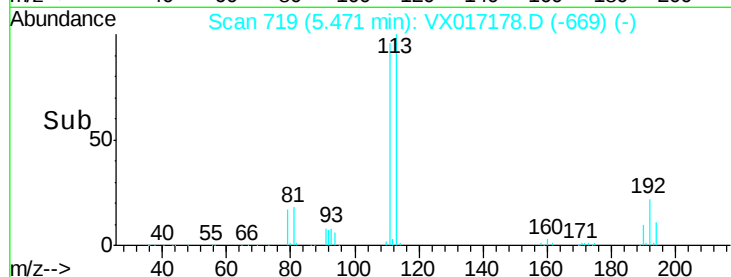
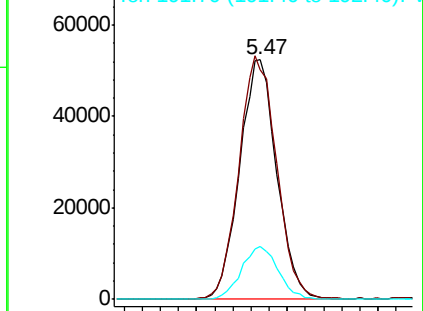
192 21.9 16.7 25.1



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: 4.491 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX017178.D

Acq: 06 Jul 2020 19:04

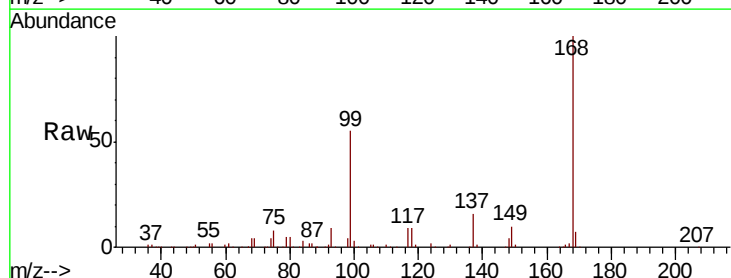
Tgt Ion: 75 Resp: 19352

Ion Ratio Lower Upper

75 100

110 9.7 18.1 54.1#

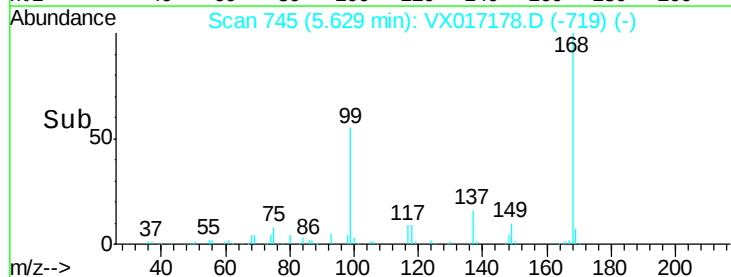
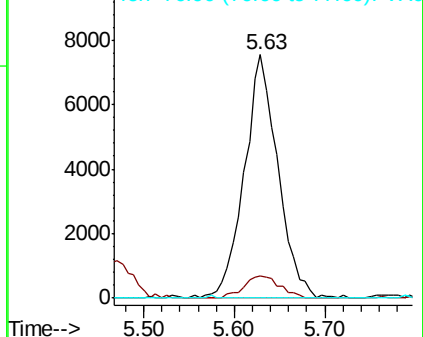
77 0.0 24.6 37.0#

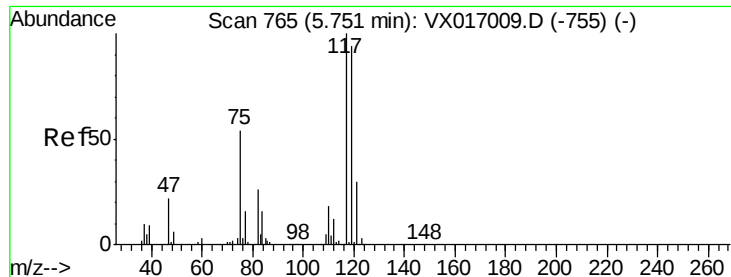


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.832 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017178.D

Acq: 06 Jul 2020 19:04

Instrument :

MSVOA_X

ClientSampleId :

30BR-20200629

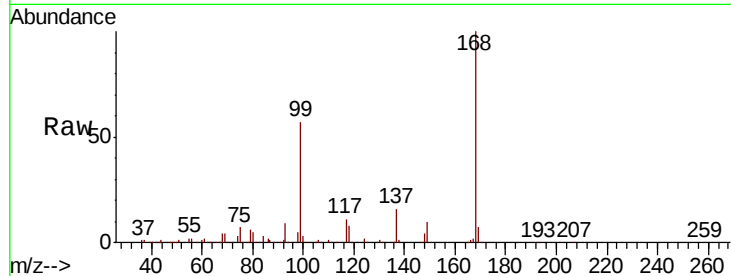
Tot Ion:117 Resp: 27681

Ion Ratio Lower Upper

117 100

119 4.4 75.4 113.0#

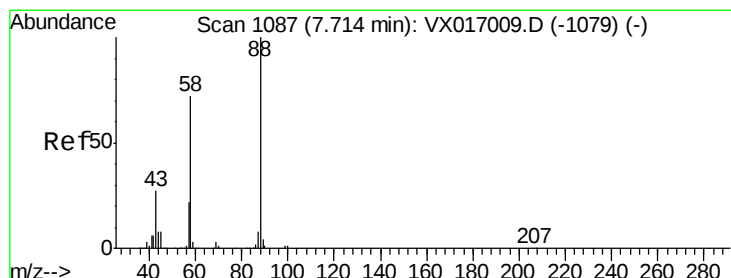
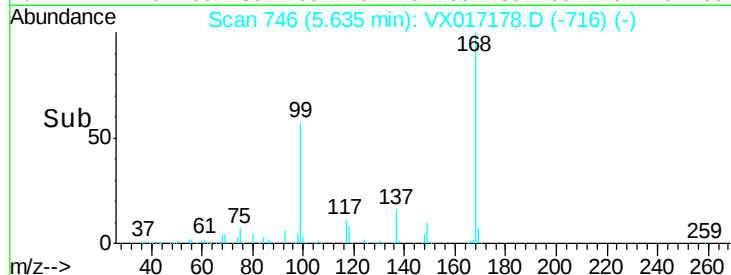
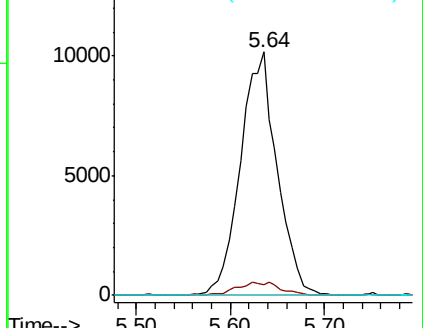
121 0.0 23.8 35.6#



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



#49

1,4-Dioxane

Concen: 0.281 ug/l

RT: 7.62 min Scan# 1072

Delta R.T. -0.09 min

Lab File: VX017178.D

Acq: 06 Jul 2020 19:04

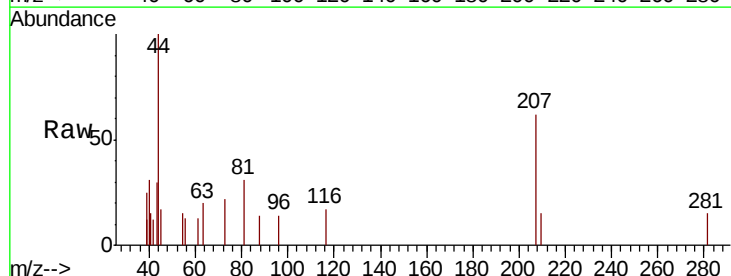
Tgt Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 709.1 25.8 38.8#

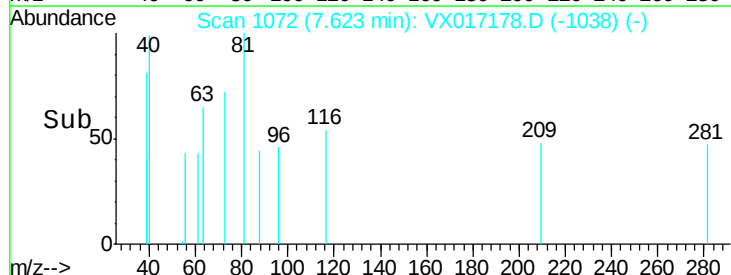
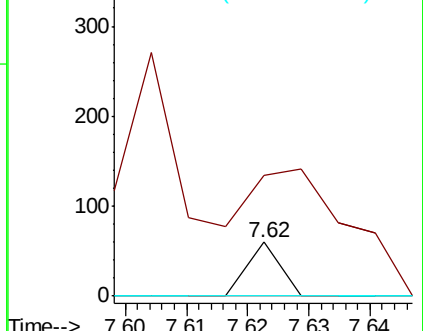
58 0.0 54.8 82.2#

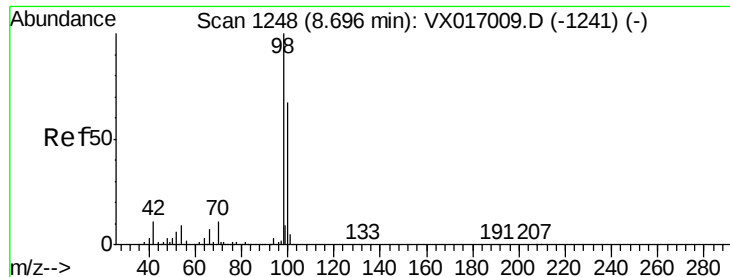


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.935 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017178.D

Acq: 06 Jul 2020 19:04

Instrument :

MSVOA_X

ClientSampleId :

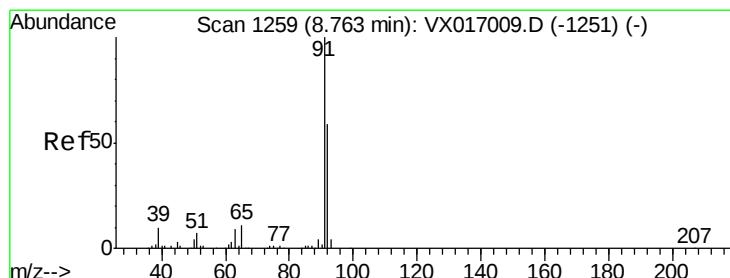
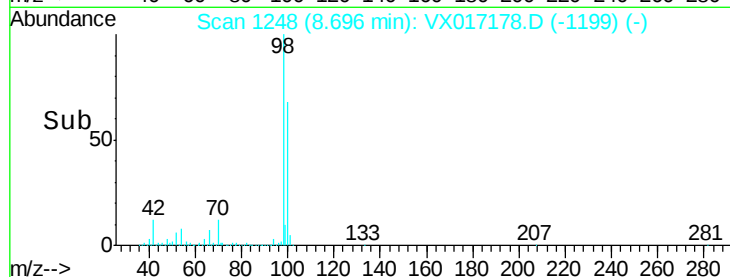
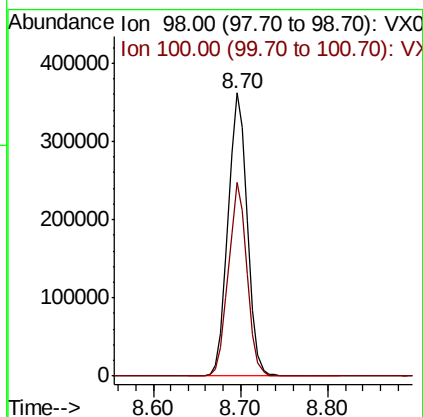
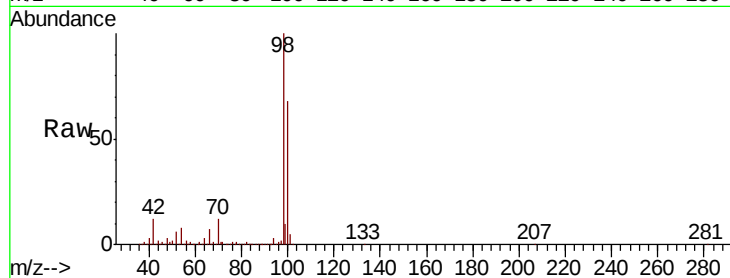
30BR-20200629

Tot Ion: 98 Resp: 553906

Ion Ratio Lower Upper

98 100

100 66.0 53.8 80.6



#52

Toluene

Concen: 0.278 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. 0.01 min

Lab File: VX017178.D

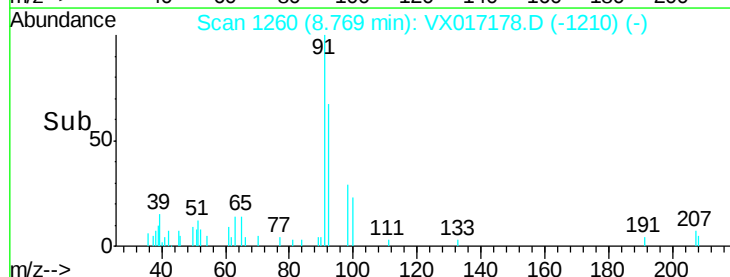
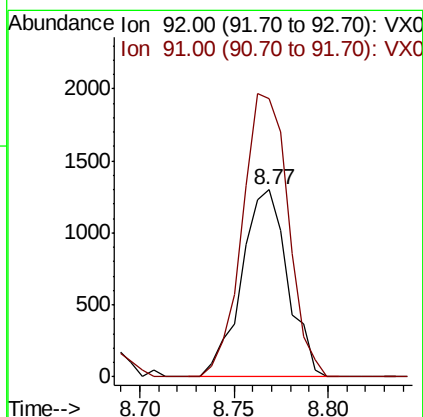
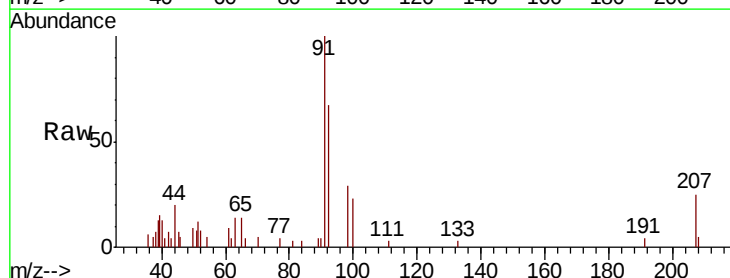
Acq: 06 Jul 2020 19:04

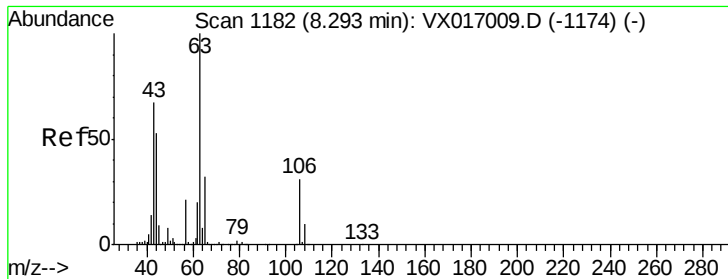
Tgt Ion: 92 Resp: 2201

Ion Ratio Lower Upper

92 100

91 150.7 136.9 205.3

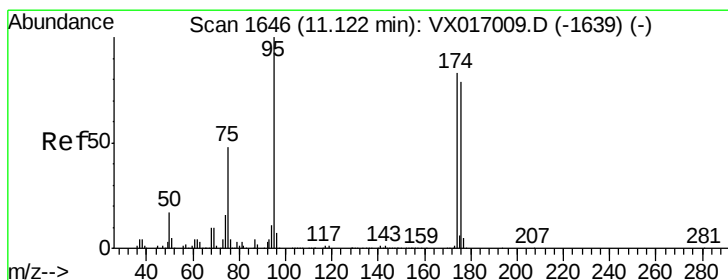
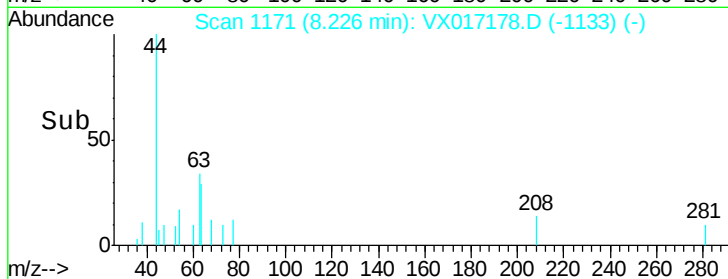
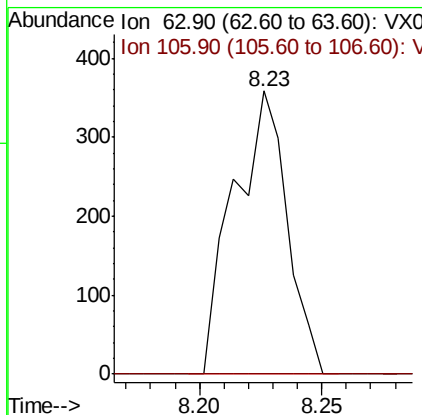
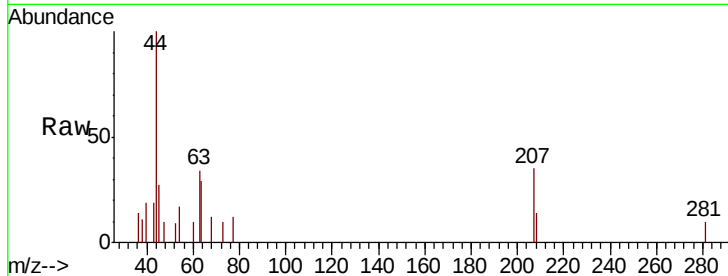




#58
 2-Chloroethyl Vinyl ether
 Concen: 0.238 ug/l
 RT: 8.23 min Scan# 1171
 Delta R.T. -0.07 min
 Lab File: VX017178.D
 Acq: 06 Jul 2020 19:04

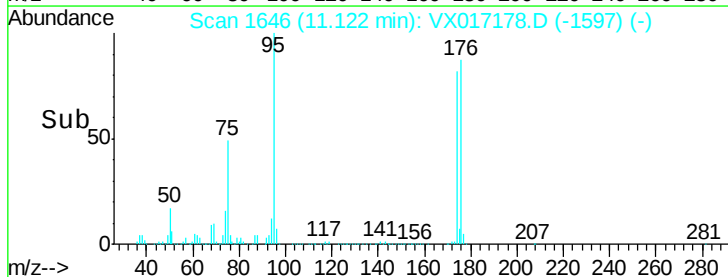
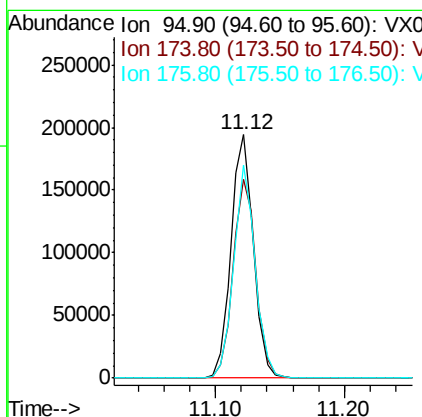
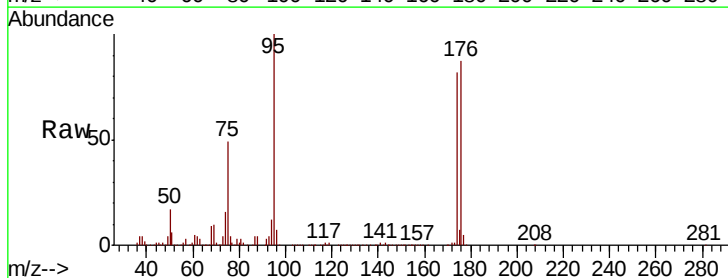
Instrument :
 MSVOA_X
 ClientSampleId :
 30BR-20200629

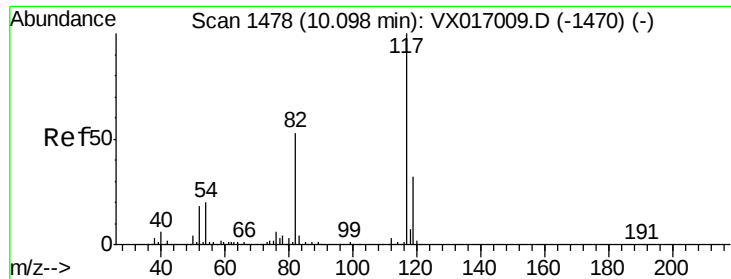
Tot Ion: 63 Resp: 545
 Ion Ratio Lower Upper
 63 100
 106 0.0 24.0 36.0#



#62
 4-Bromofluorobenzene
 Concen: 56.933 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. -0.00 min
 Lab File: VX017178.D
 Acq: 06 Jul 2020 19:04

Tgt Ion: 95 Resp: 237368
 Ion Ratio Lower Upper
 95 100
 174 83.2 0.0 164.0
 176 83.5 0.0 157.6

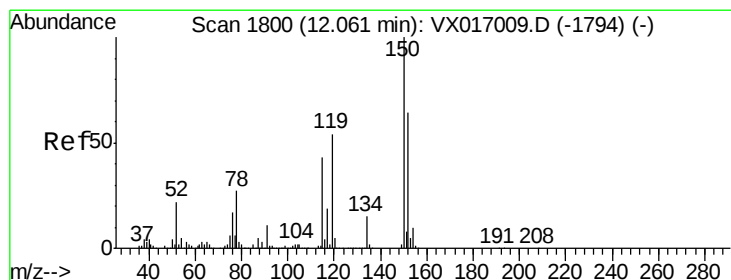
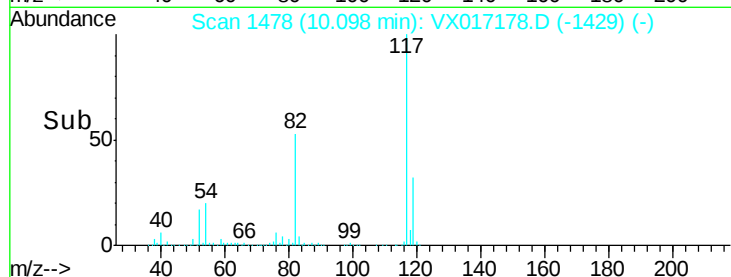
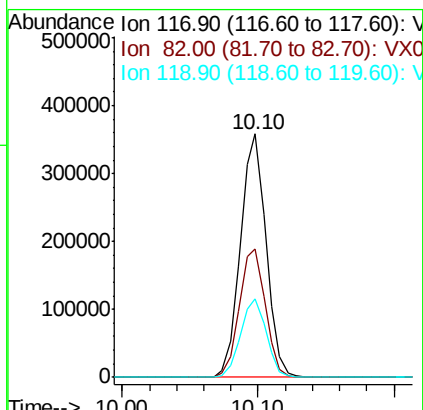
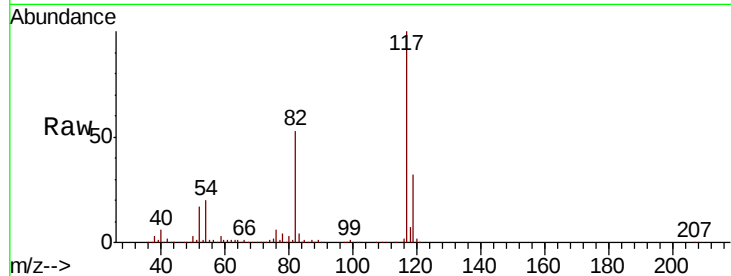




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017178.D
Acq: 06 Jul 2020 19:04

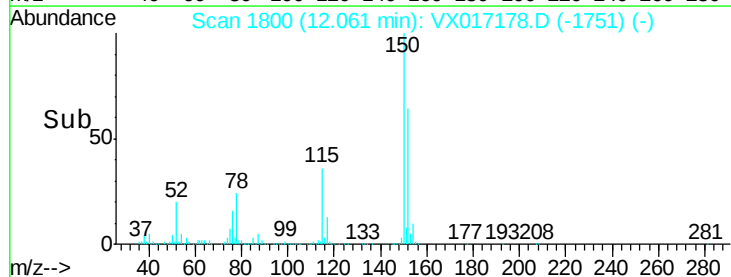
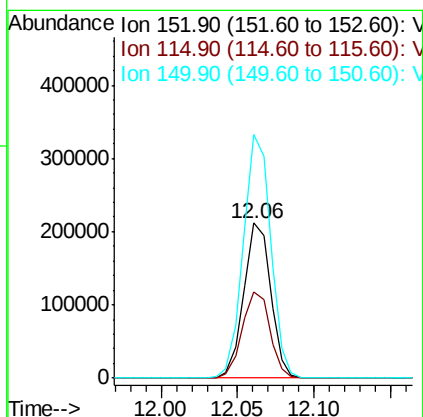
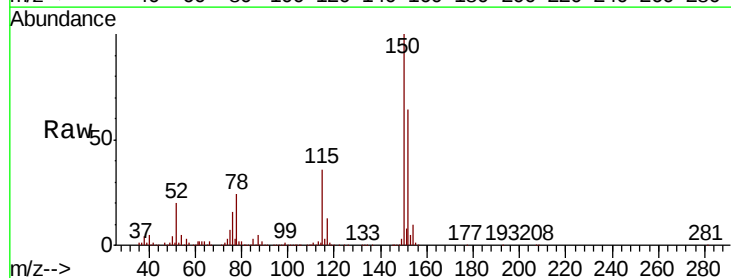
Instrument :
MSVOA_X
ClientSampleId :
30BR-20200629

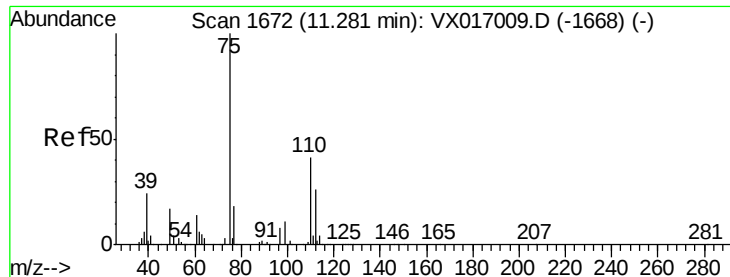
Tot Ion	Ratio	Lower	Upper
117	100		
82	53.0	42.6	63.8
119	32.0	25.4	38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017178.D
Acq: 06 Jul 2020 19:04

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.3	40.9	122.7
150	158.7	0.0	351.6





#76

1,2,3-Trichloropropane

Concen: 22.878 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017178.D

Acq: 06 Jul 2020 19:04

Instrument :

MSVOA_X

ClientSampleId :

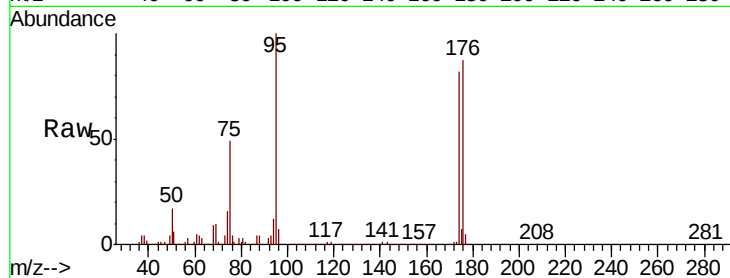
30BR-20200629

Tot Ion: 75 Resp: 117271

Ion Ratio Lower Upper

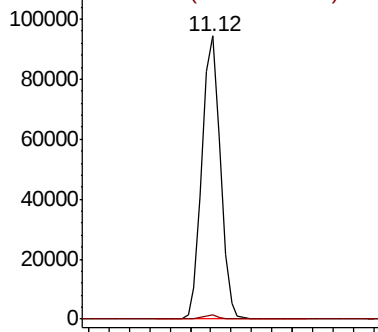
75 100

77 1.4 20.2 60.6#

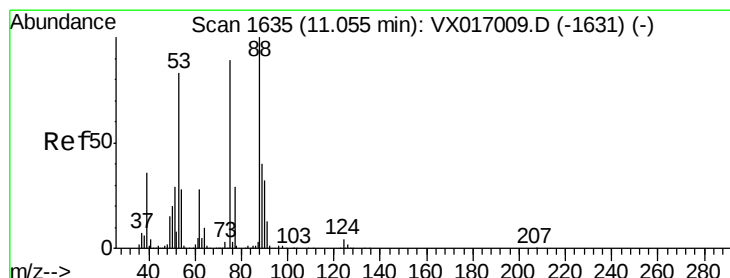
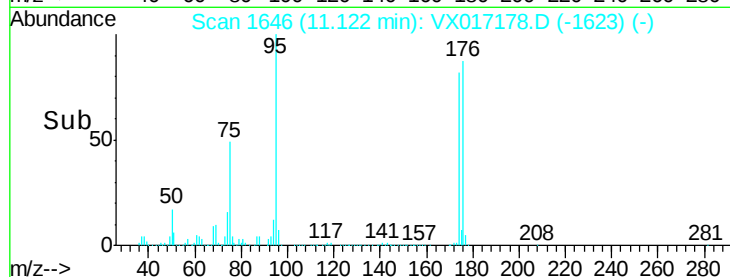


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



Time--> 11.00 11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 59.247 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017178.D

Acq: 06 Jul 2020 19:04

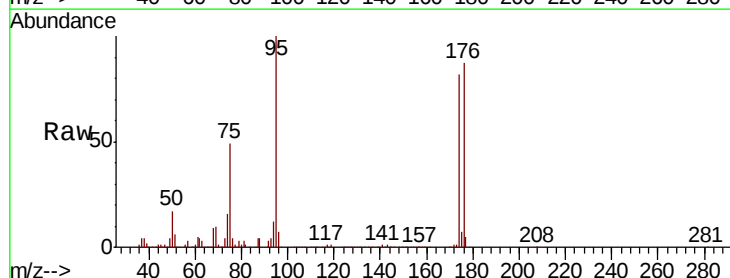
Tgt Ion: 75 Resp: 117271

Ion Ratio Lower Upper

75 100

53 0.1 72.4 108.6#

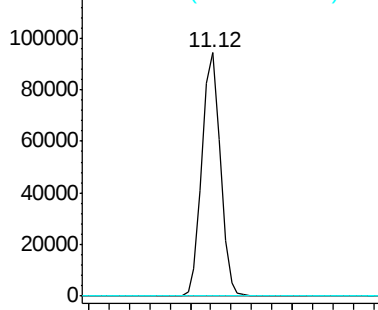
89 0.0 37.0 55.4#



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



Time--> 11.00 11.10 11.20

