

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070720\
 Data File : VX017202.D
 Acq On : 07 Jul 2020 14:44
 Operator : JC/SP
 Sample : L3159-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 47BR-20200629

Quant Time: Jul 08 01:53:07 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	242080	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	419117	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	429398	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	233348	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	165101	55.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.64%	
35) Dibromofluoromethane	5.47	113	141784	53.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.96%	
50) Toluene-d8	8.70	98	504044	51.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.82%	
62) 4-Bromofluorobenzene	11.12	95	206212	53.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.62%	

Target Compounds

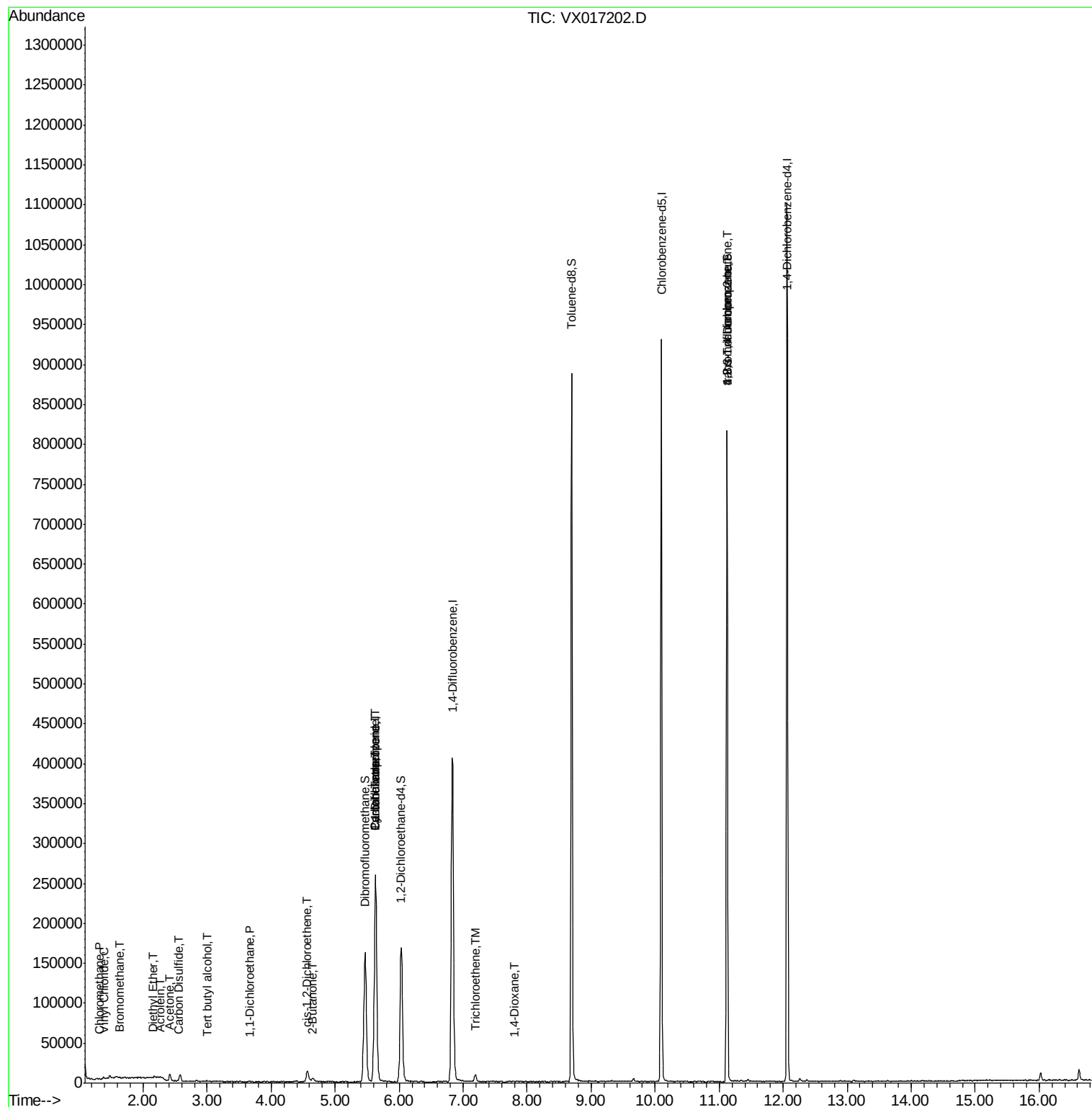
					Qvalue	
3) Chloromethane	1.32	50	1008	0.356	ug/l	91
4) Vinyl Chloride	1.39	62	542	0.206	ug/l #	78
5) Bromomethane	1.63	94	355	0.255	ug/l #	31
8) Diethyl Ether	2.15	74	169	0.494	ug/l	75
11) Tert butyl alcohol	3.01	59	942	1.655	ug/l #	73
13) Acrolein	2.28	56	102	0.300	ug/l #	15
16) Acetone	2.42	43	8529	7.640	ug/l	97
17) Carbon Disulfide	2.55	76	1680	0.274	ug/l #	84
20) Methylene Chloride	2.84	84	653	Below Cal	#	84
24) 1,1-Dichloroethane	3.67	63	984	0.211	ug/l #	82
25) 2-Butanone	4.64	43	886	0.476	ug/l #	49
27) cis-1,2-Dichloroethene	4.57	96	8574	2.847	ug/l	83
31) Cyclohexane	5.63	56	4746	1.178	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	17787	4.490	ug/l #	51
38) Carbon Tetrachloride	5.64	117	24606	5.640	ug/l #	17
44) Trichloroethene	7.20	130	3134	0.670	ug/l	90
49) 1,4-Dioxane	7.80	88	22	0.306	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	102527	22.344	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	102527	57.862	ug/l #	13
88) 1,4-Dichlorobenzene	12.09	146	596	Below Cal	#	25

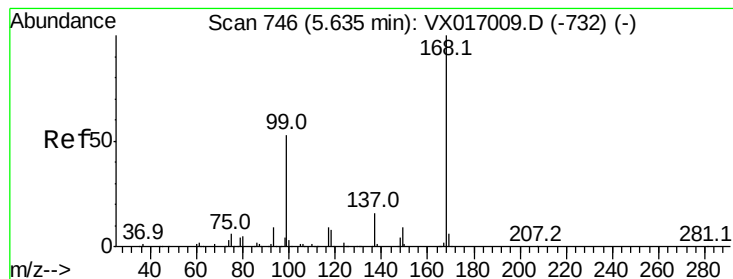
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :
47BR-20200629

Quant Time: Jul 08 01:53:07 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
Quant Title : SW846 8260
QLast Update : Mon Jun 29 17:10:38 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: VX017202.D

Acq: 07 Jul 2020 14:44

Instrument :

MSVOA_X

ClientSampleId :

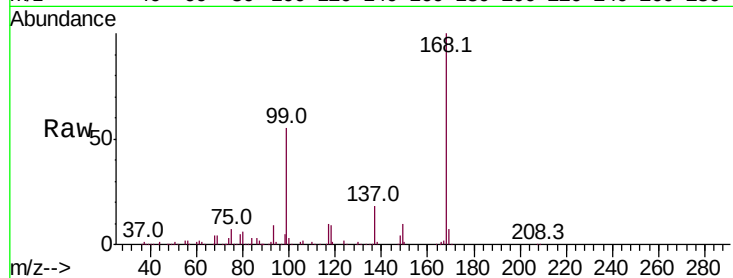
47BR-20200629

Tot Ion:168 Resp: 242080

Ion Ratio Lower Upper

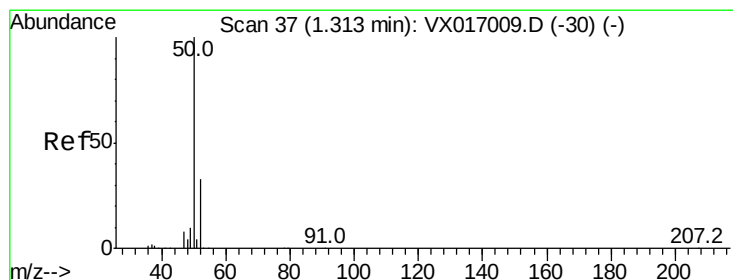
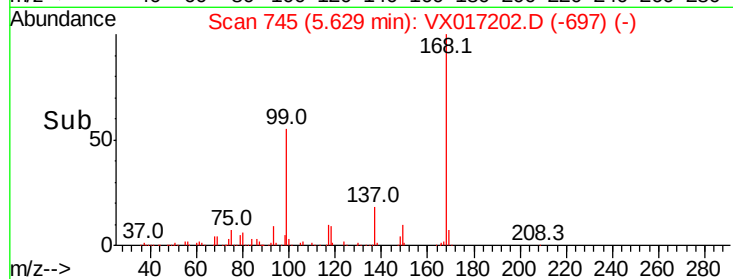
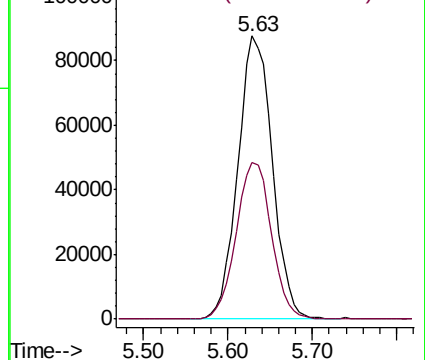
168 100

99 55.5 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.356 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017202.D

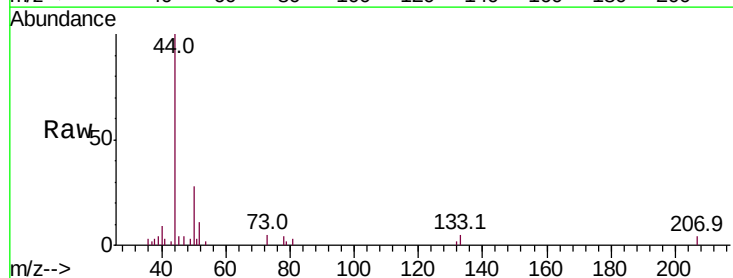
Acq: 07 Jul 2020 14:44

Tgt Ion: 50 Resp: 1008

Ion Ratio Lower Upper

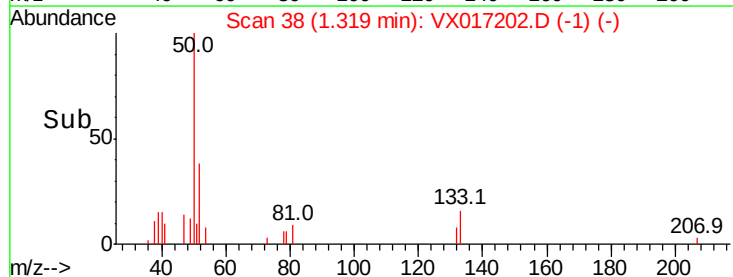
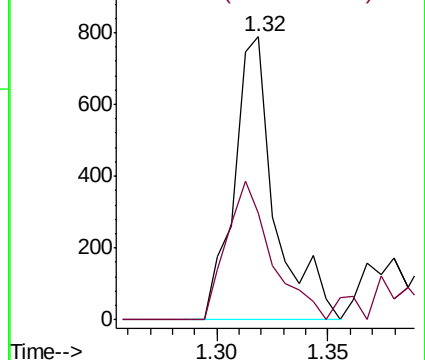
50 100

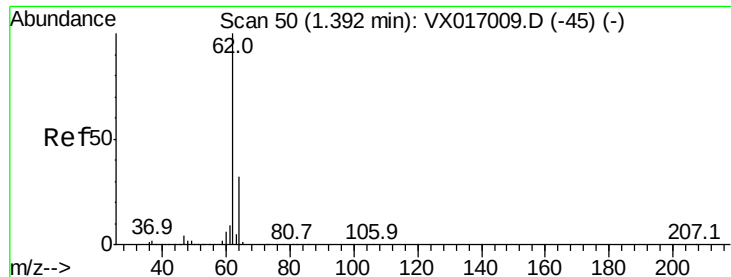
52 37.6 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 0.206 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX017202.D

Acq: 07 Jul 2020 14:44

Instrument :

MSVOA_X

ClientSampleId :

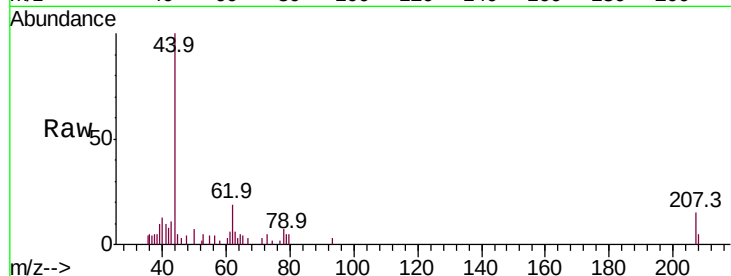
47BR-20200629

Tot Ion: 62 Resp: 542

Ion Ratio Lower Upper

62 100

64 44.5 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

400

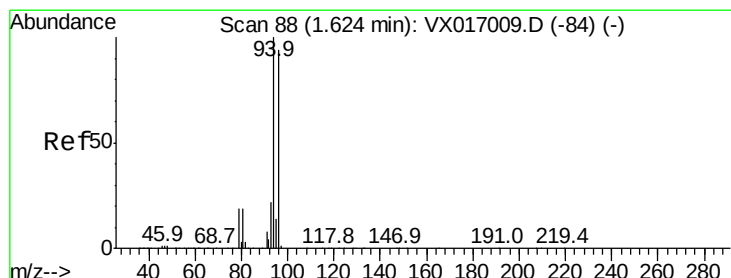
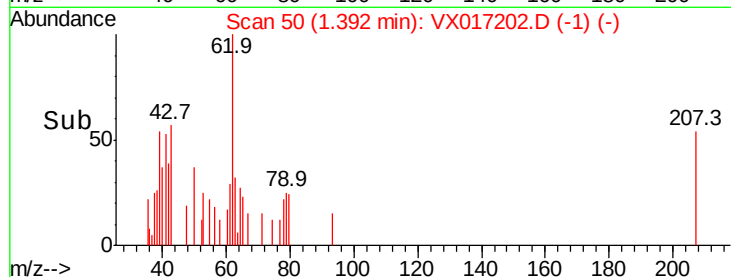
300

200

100

0

Time--> 1.35 1.40



#5

Bromomethane

Concen: 0.255 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX017202.D

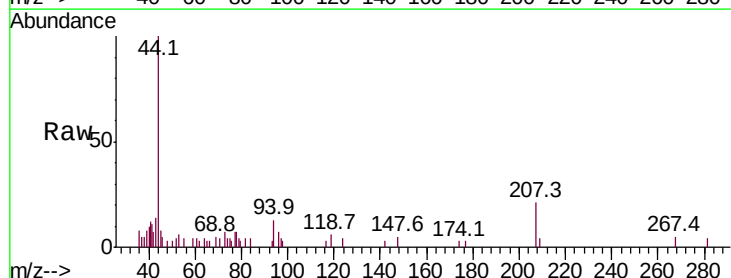
Acq: 07 Jul 2020 14:44

Tgt Ion: 94 Resp: 355

Ion Ratio Lower Upper

94 100

96 27.6 75.0 112.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

300

250

200

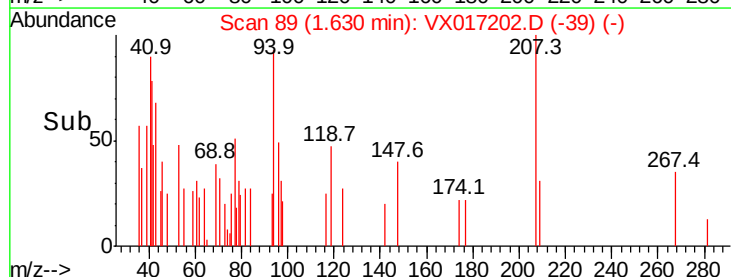
150

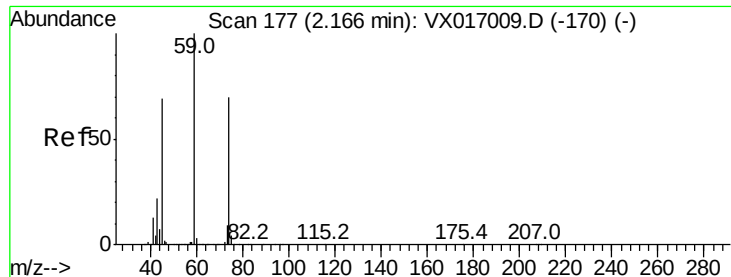
100

50

0

Time--> 1.60 1.65 1.70

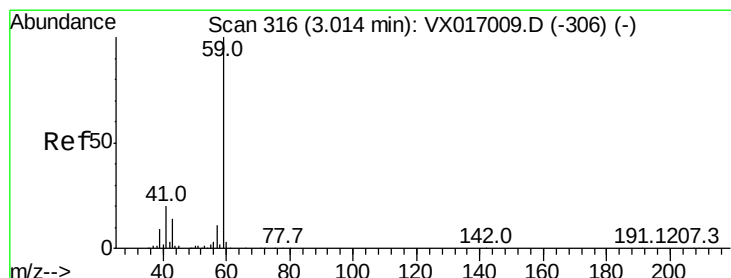
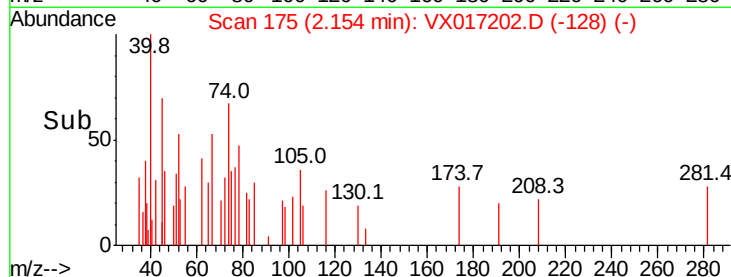
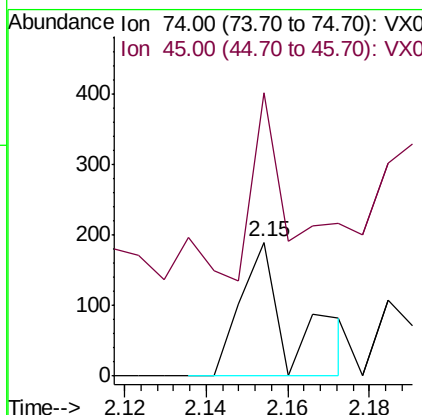
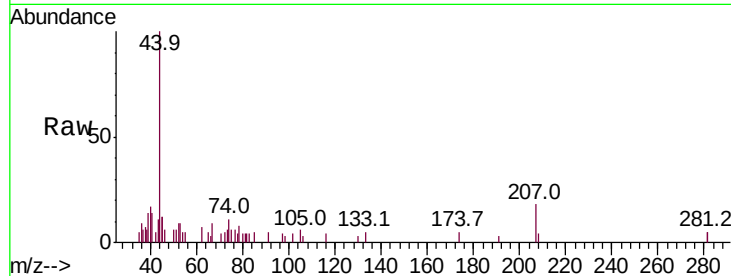




#8
Diethyl Ether
Concen: 0.494 ug/l
RT: 2.15 min Scan# 175
Delta R.T. -0.01 min
Lab File: VX017202.D
Acq: 07 Jul 2020 14:44

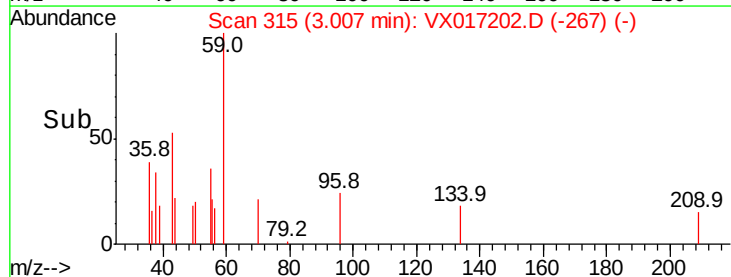
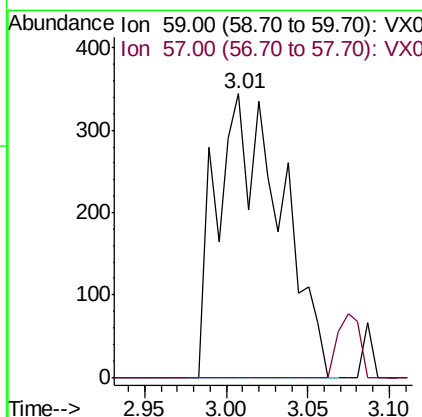
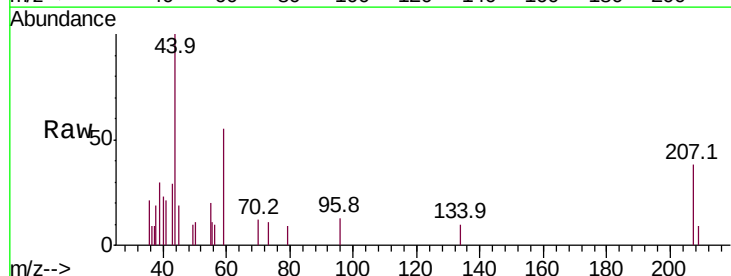
Instrument :
MSVOA_X
ClientSampleId :
47BR-20200629

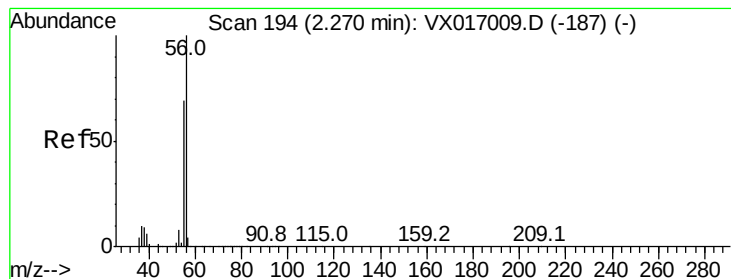
Tot Ion: 74 Resp: 169
Ion Ratio Lower Upper
74 100
45 74.6 49.8 149.3



#11
Tert butyl alcohol
Concen: 1.655 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX017202.D
Acq: 07 Jul 2020 14:44

Tgt Ion: 59 Resp: 942
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#





#13

Acrolein

Concen: 0.300 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX017202.D

Acq: 07 Jul 2020 14:44

Instrument :

MSVOA_X

ClientSampleId :

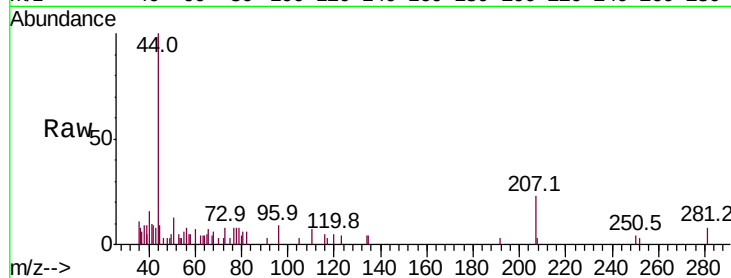
47BR-20200629

Tot Ion: 56 Resp: 102

Ion Ratio Lower Upper

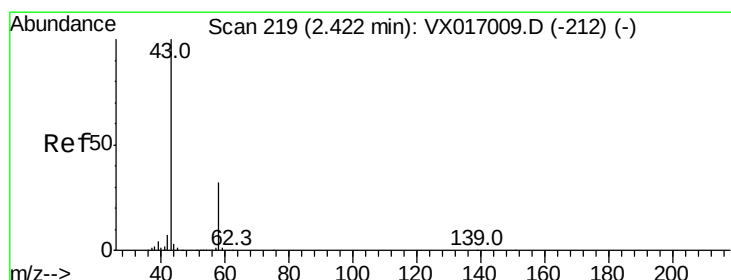
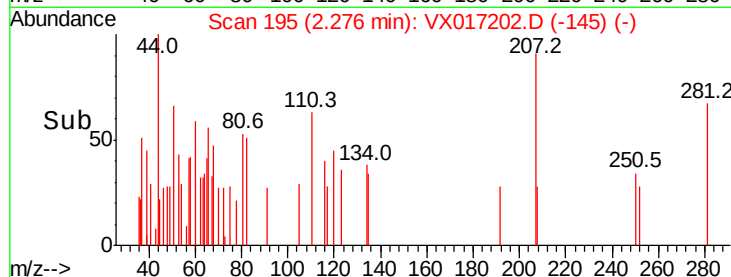
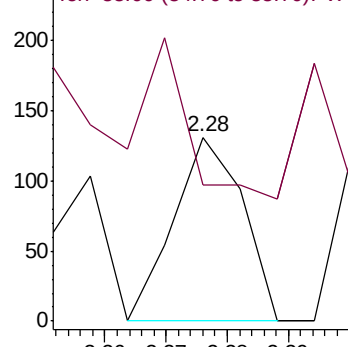
56 100

55 0.0 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: 7.640 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017202.D

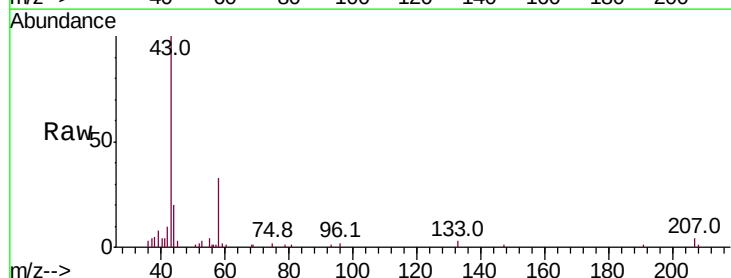
Acq: 07 Jul 2020 14:44

Tgt Ion: 43 Resp: 8529

Ion Ratio Lower Upper

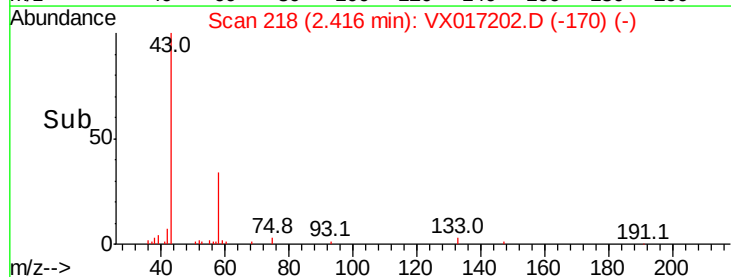
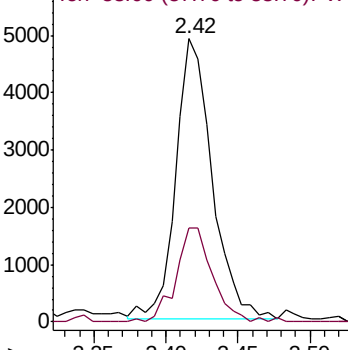
43 100

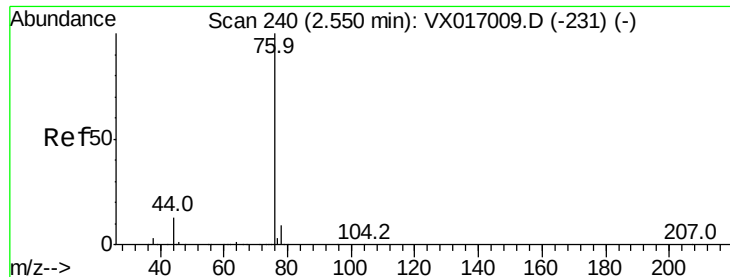
58 33.8 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

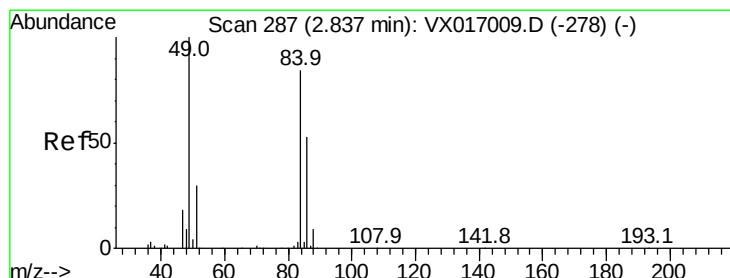
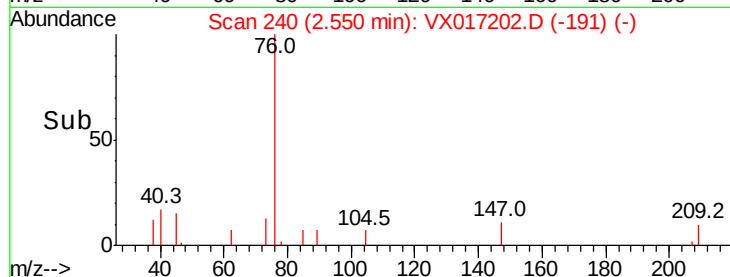
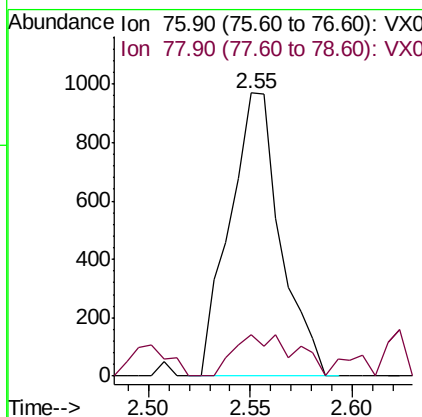
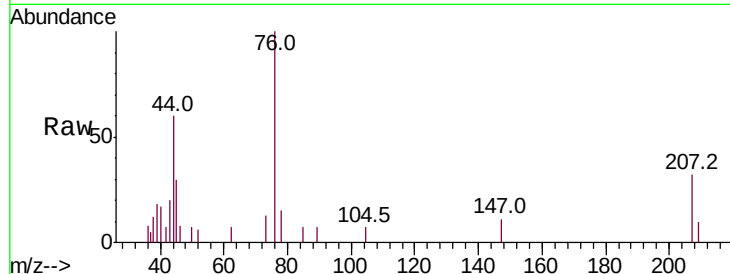




#17
Carbon Disulfide
Concen: 0.274 ug/l
RT: 2.55 min Scan# 240
Delta R.T. 0.00 min
Lab File: VX017202.D
Acq: 07 Jul 2020 14:44

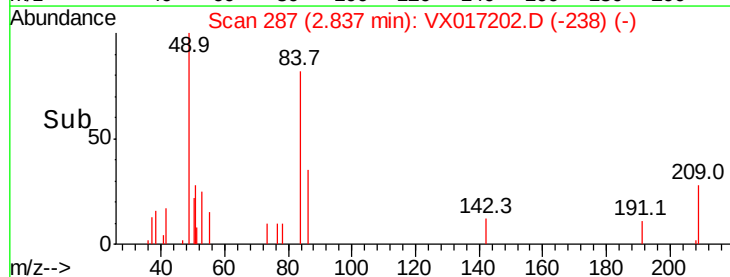
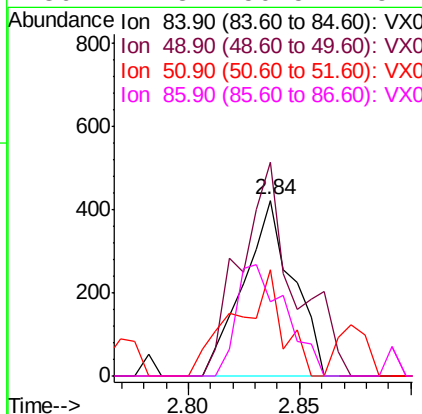
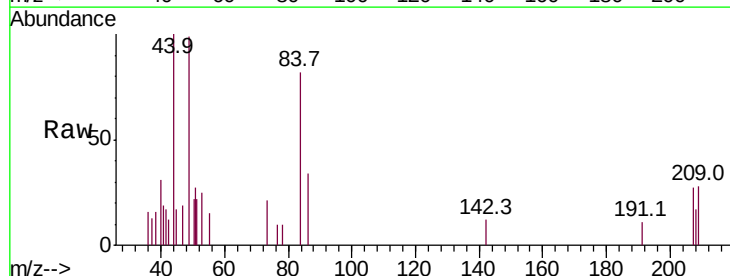
Instrument :
MSVOA_X
ClientSampleId :
47BR-20200629

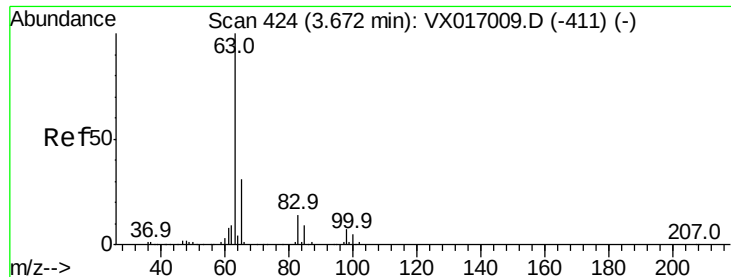
Tot Ion: 76 Resp: 1680
Ion Ratio Lower Upper
76 100
78 14.7 7.2 10.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017202.D
Acq: 07 Jul 2020 14:44

Tgt Ion: 84 Resp: 653
Ion Ratio Lower Upper
84 100
49 121.5 94.7 142.1
51 60.3 28.6 42.8#
86 42.3 50.5 75.7#





#24

1,1-Dichloroethane

Concen: 0.211 ug/l

RT: 3.67 min Scan# 424

Delta R.T. -0.00 min

Lab File: VX017202.D

Acq: 07 Jul 2020 14:44

Instrument :

MSVOA_X

ClientSampleId :

47BR-20200629

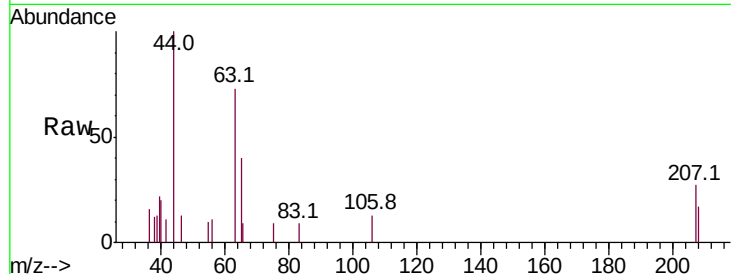
Tot Ion: 63 Resp: 984

Ion Ratio Lower Upper

63 100

98 0.0 3.6 10.8#

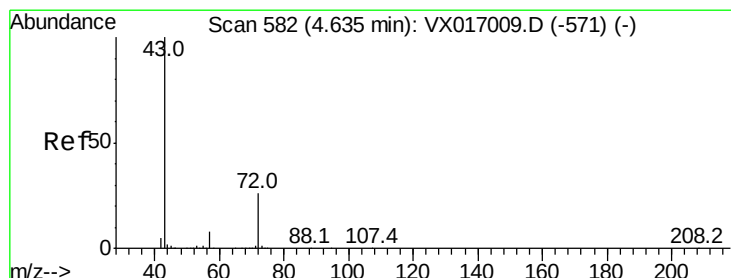
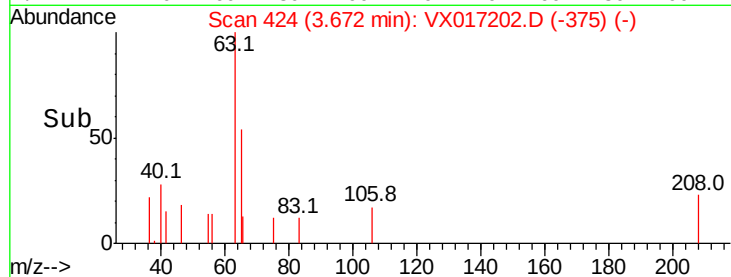
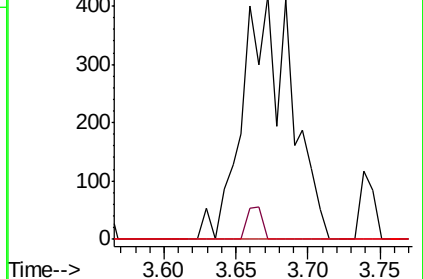
100 0.0 2.4 7.1#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#25

2-Butanone

Concen: 0.476 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX017202.D

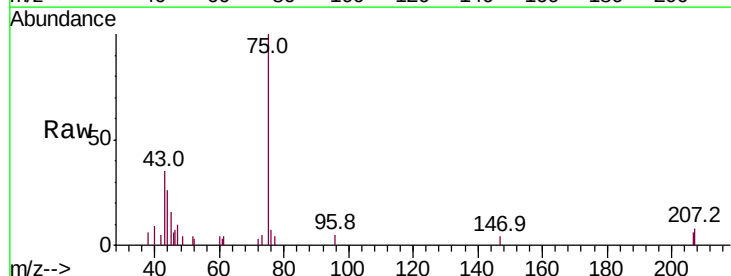
Acq: 07 Jul 2020 14:44

Tgt Ion: 43 Resp: 886

Ion Ratio Lower Upper

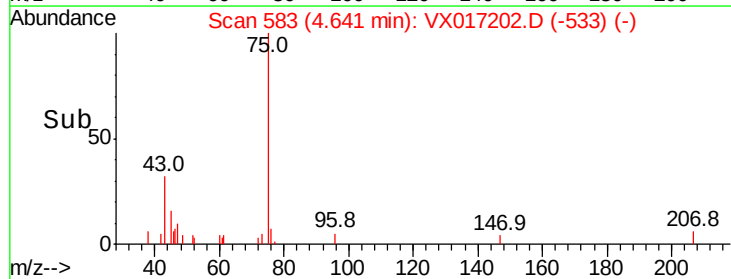
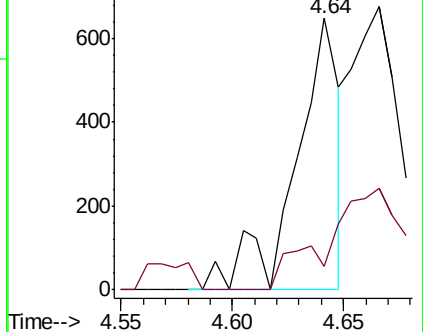
43 100

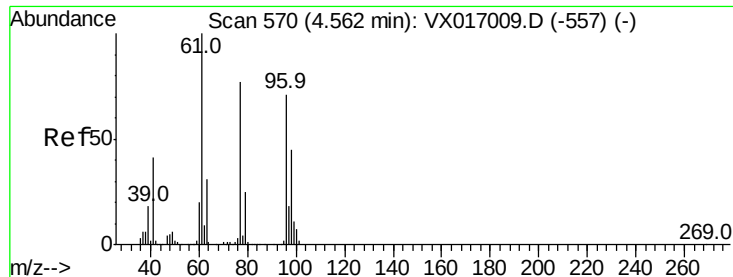
72 0.0 20.8 31.2#



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: 2.847 ug/l

RT: 4.57 min Scan# 571

Delta R.T. 0.01 min

Lab File: VX017202.D

Acq: 07 Jul 2020 14:44

Instrument :

MSVOA_X

ClientSampleId :

47BR-20200629

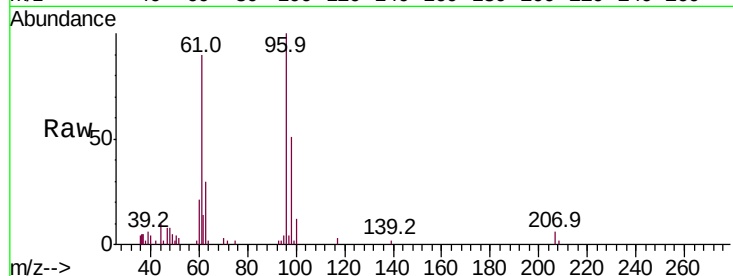
Tot Ion: 96 Resp: 8574

Ion Ratio Lower Upper

96 100

61 113.1 0.0 282.8

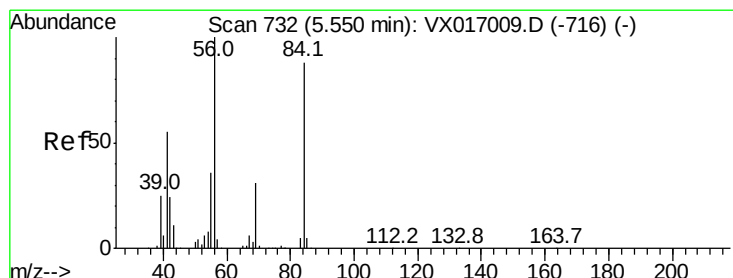
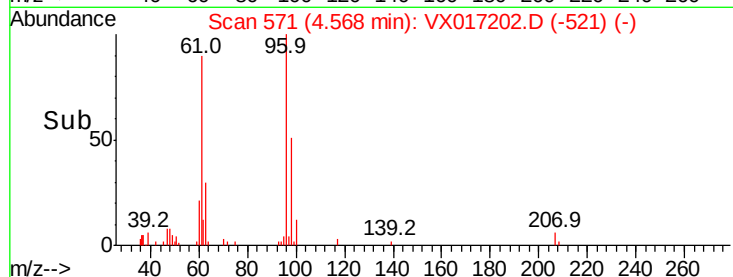
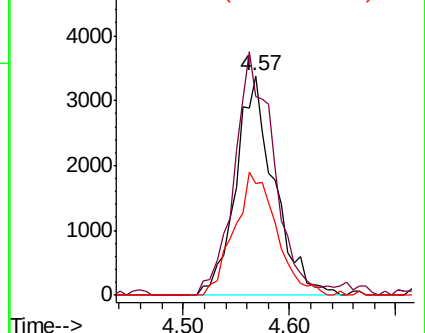
98 61.1 0.0 127.6



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



#31

Cyclohexane

Concen: 1.178 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.08 min

Lab File: VX017202.D

Acq: 07 Jul 2020 14:44

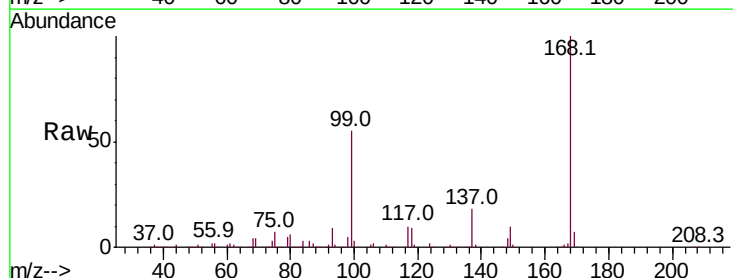
Tgt Ion: 56 Resp: 4746

Ion Ratio Lower Upper

56 100

69 187.6 25.0 37.4#

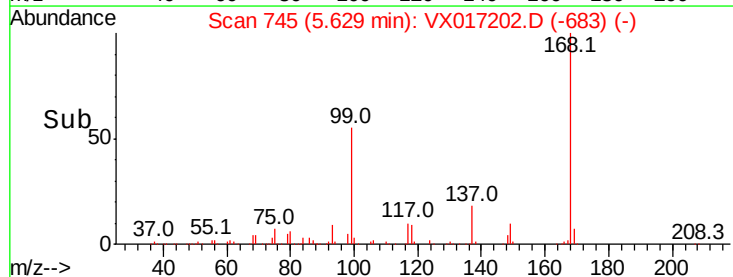
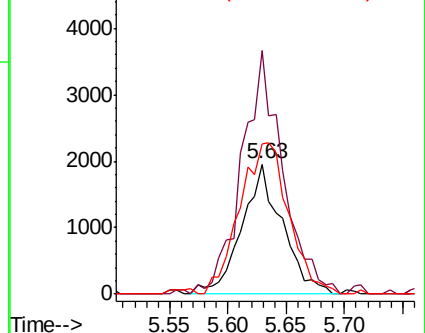
84 115.7 69.1 103.7#

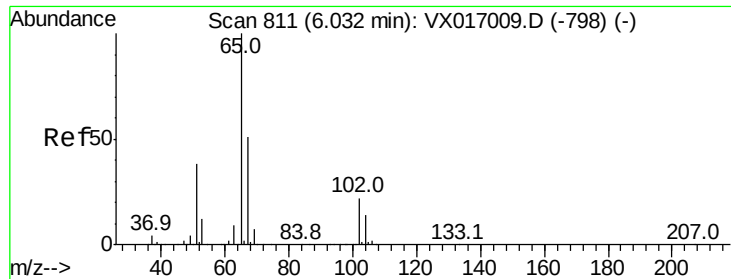


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

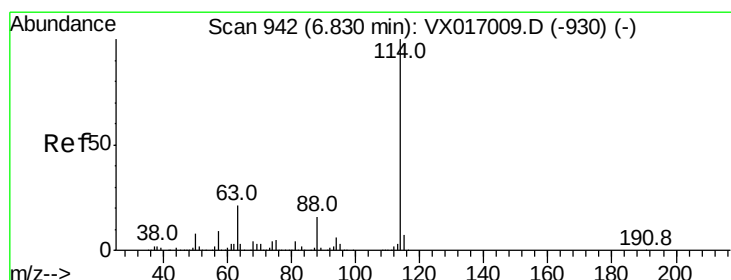
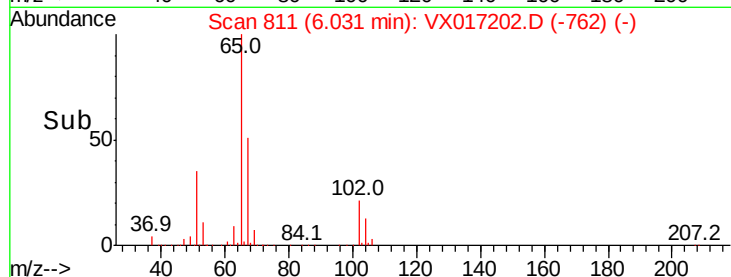
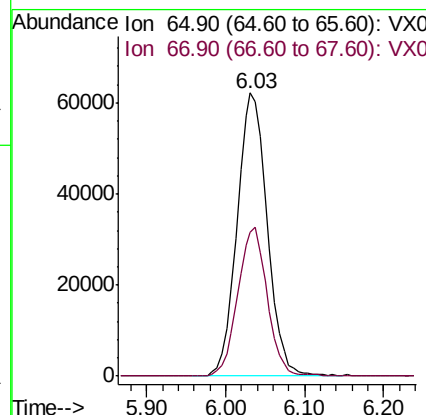
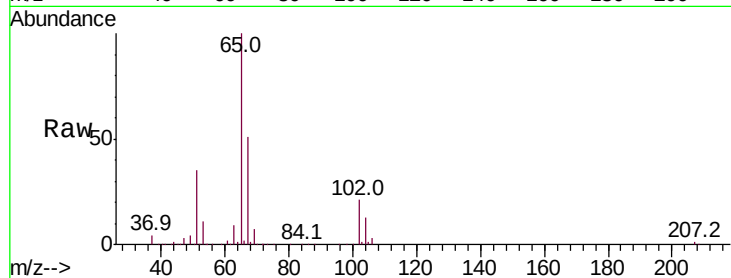




#33
 1,2-Dichloroethane-d4
 Concen: 55.322 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX017202.D
 Acq: 07 Jul 2020 14:44

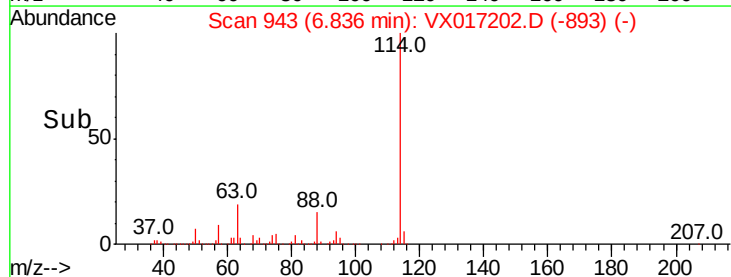
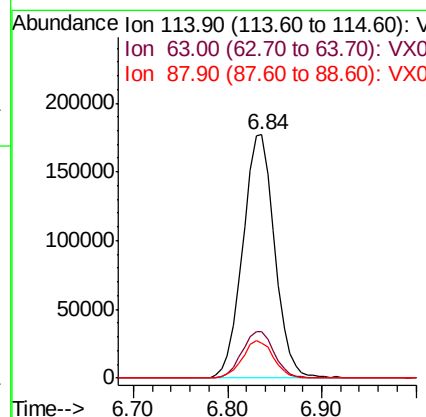
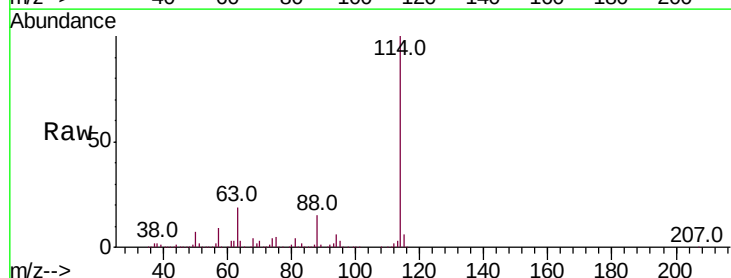
Instrument :
 MSVOA_X
 ClientSampleId :
 47BR-20200629

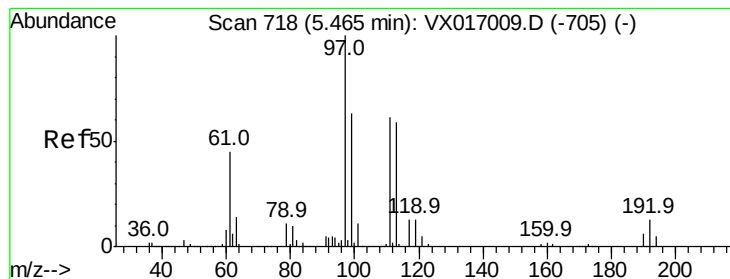
Tot Ion: 65 Resp: 165101
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. 0.01 min
 Lab File: VX017202.D
 Acq: 07 Jul 2020 14:44

Tgt Ion: 114 Resp: 419117
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 41.4
 88 14.5 0.0 32.4





#35

Dibromofluoromethane

Concen: 53.479 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX017202.D

Acq: 07 Jul 2020 14:44

Instrument :

MSVOA_X

ClientSampleId :

47BR-20200629

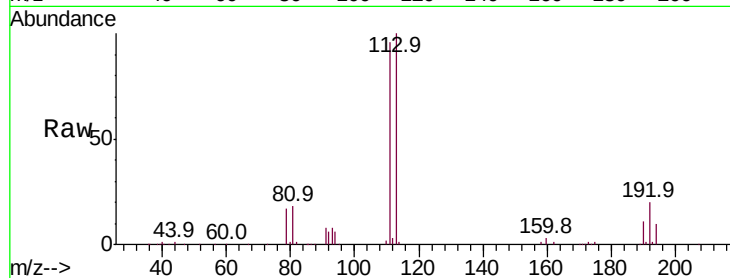
Tot Ion:113 Resp: 141784

Ion Ratio Lower Upper

113 100

111 100.8 81.9 122.9

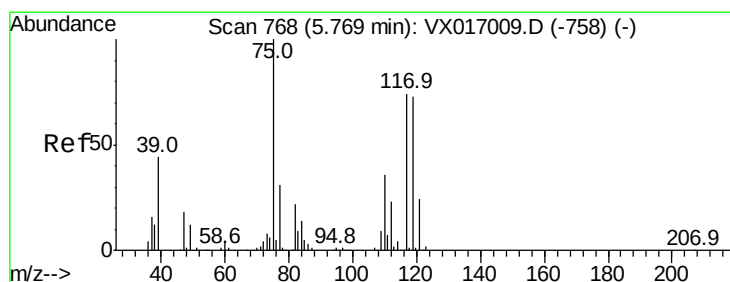
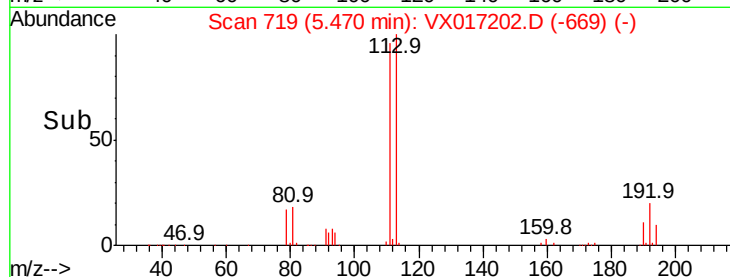
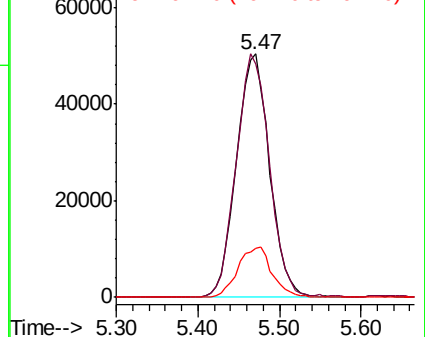
192 21.4 16.7 25.1



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: 4.490 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX017202.D

Acq: 07 Jul 2020 14:44

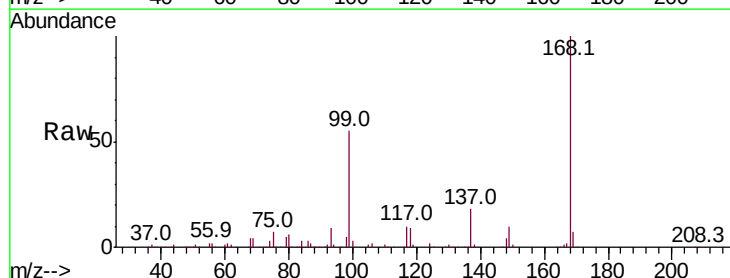
Tgt Ion: 75 Resp: 17787

Ion Ratio Lower Upper

75 100

110 10.6 18.1 54.1#

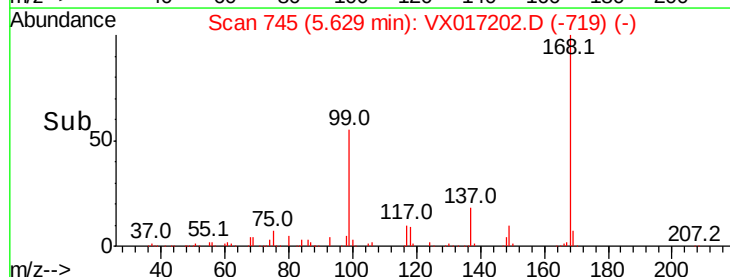
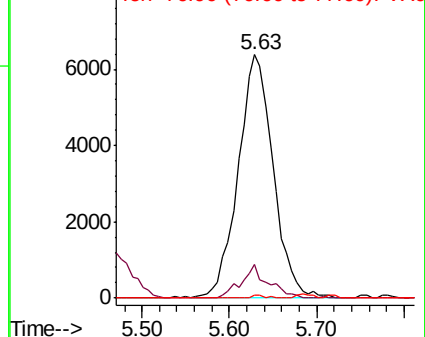
77 0.4 24.6 37.0#

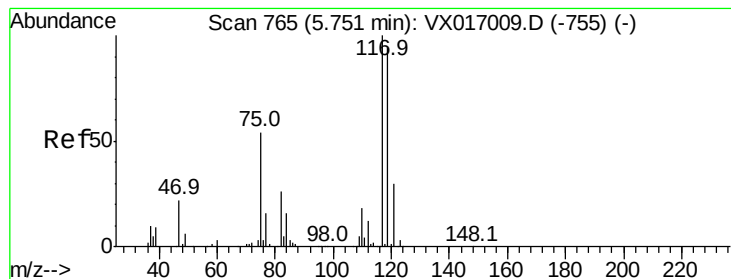


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.640 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017202.D

Acq: 07 Jul 2020 14:44

Instrument :

MSVOA_X

ClientSampleId :

47BR-20200629

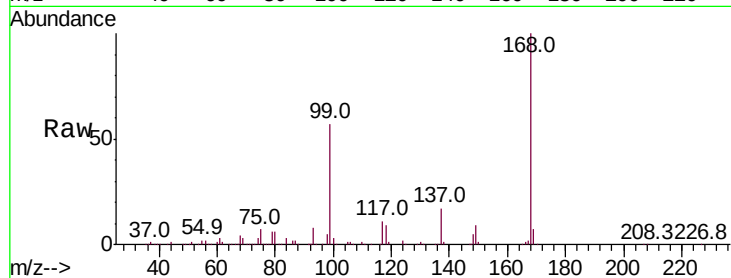
Tot Ion:117 Resp: 24606

Ion Ratio Lower Upper

117 100

119 5.0 75.4 113.0#

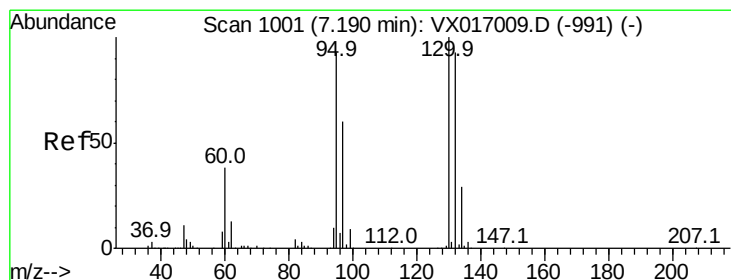
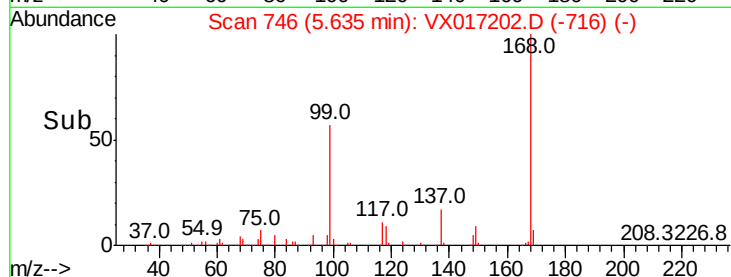
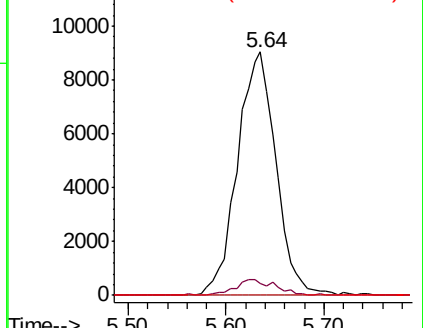
121 0.0 23.8 35.6#



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: 0.670 ug/l

RT: 7.20 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VX017202.D

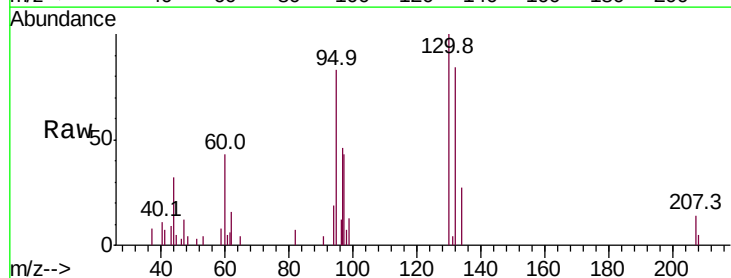
Acq: 07 Jul 2020 14:44

Tgt Ion:130 Resp: 3134

Ion Ratio Lower Upper

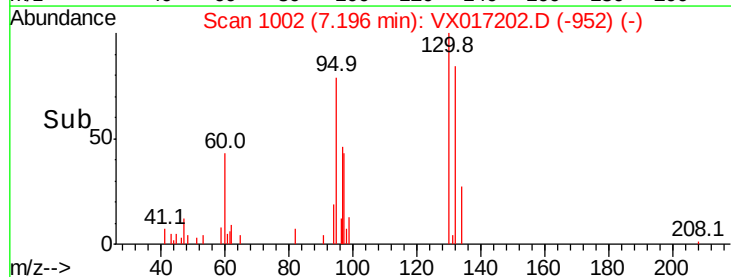
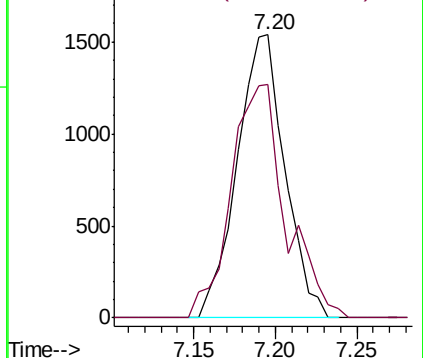
130 100

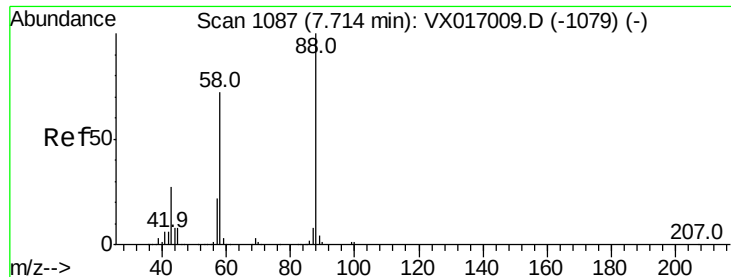
95 82.6 0.0 185.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 0.306 ug/l

RT: 7.80 min Scan# 1101

Delta R.T. 0.09 min

Lab File: VX017202.D

Acq: 07 Jul 2020 14:44

Instrument :

MSVOA_X

ClientSampleId :

47BR-20200629

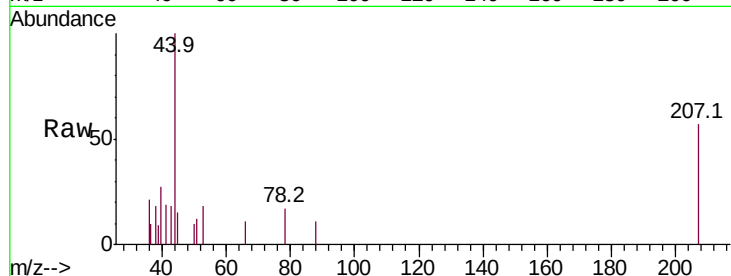
Tot Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 536.4 25.8 38.8#

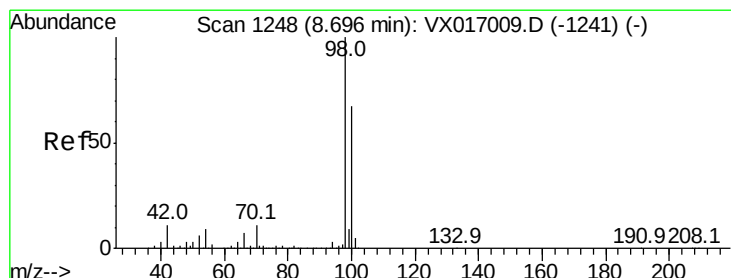
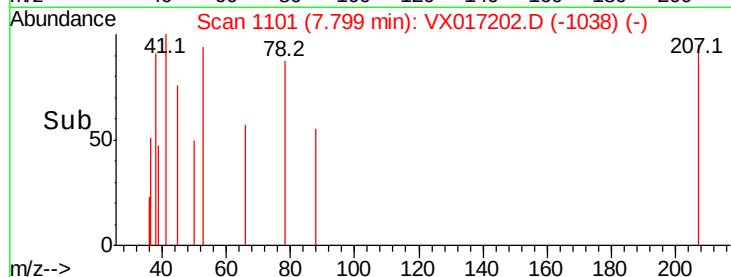
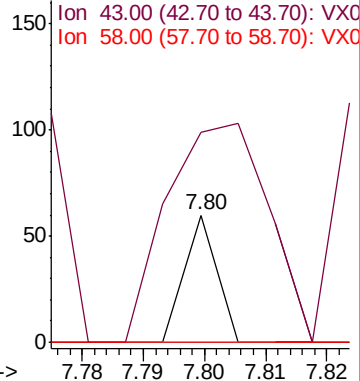
58 0.0 54.8 82.2#



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: 51.414 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017202.D

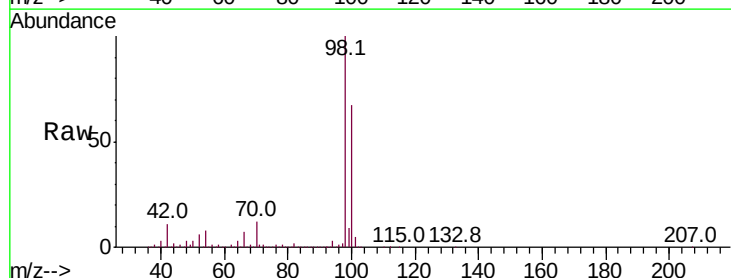
Acq: 07 Jul 2020 14:44

Tgt Ion: 98 Resp: 504044

Ion Ratio Lower Upper

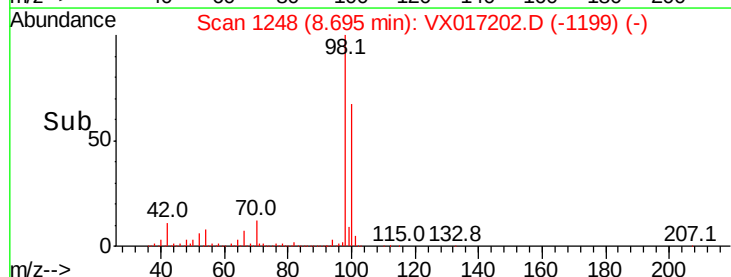
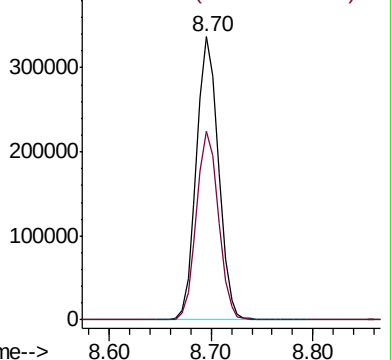
98 100

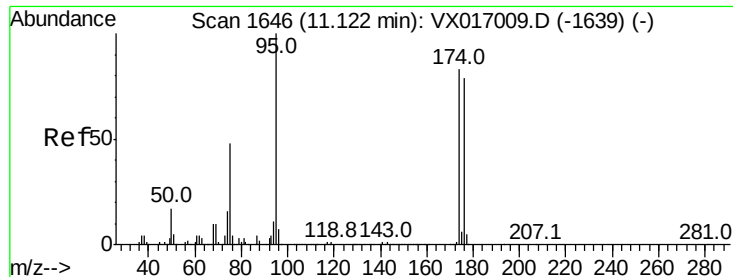
100 66.6 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 53.808 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017202.D

Acq: 07 Jul 2020 14:44

Instrument :

MSVOA_X

ClientSampleId :

47BR-20200629

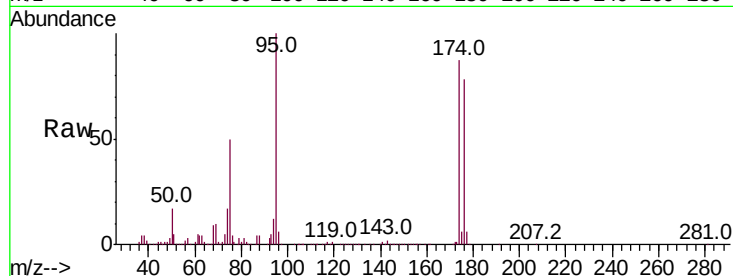
Tot Ion: 95 Resp: 206212

Ion Ratio Lower Upper

95 100

174 85.5 0.0 164.0

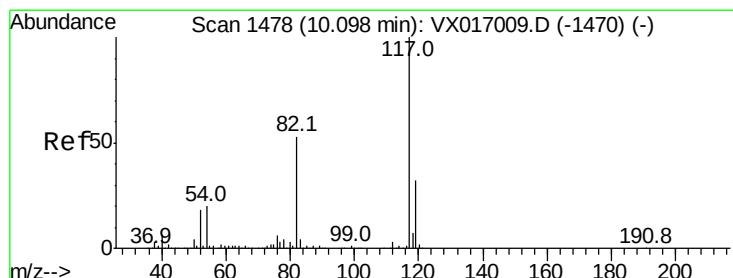
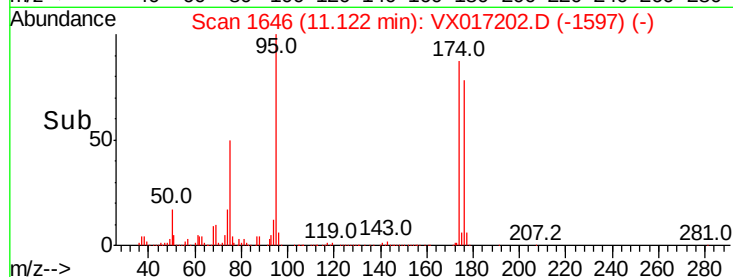
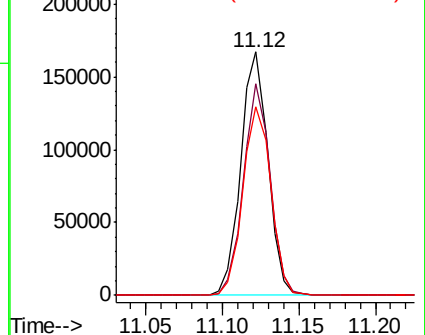
176 80.1 0.0 157.6



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: VX017202.D

Acq: 07 Jul 2020 14:44

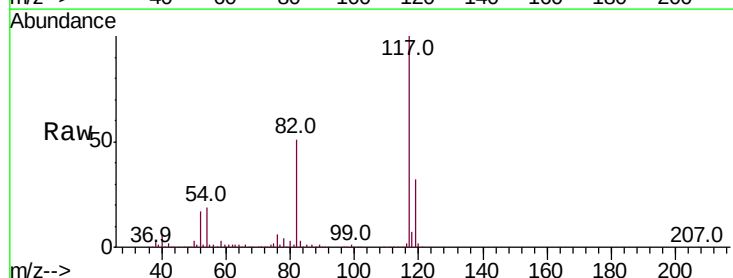
Tgt Ion: 117 Resp: 429398

Ion Ratio Lower Upper

117 100

82 50.9 42.6 63.8

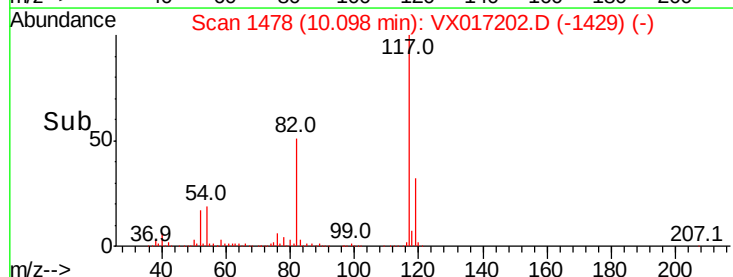
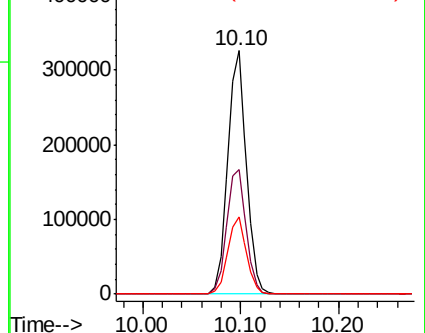
119 31.7 25.4 38.2

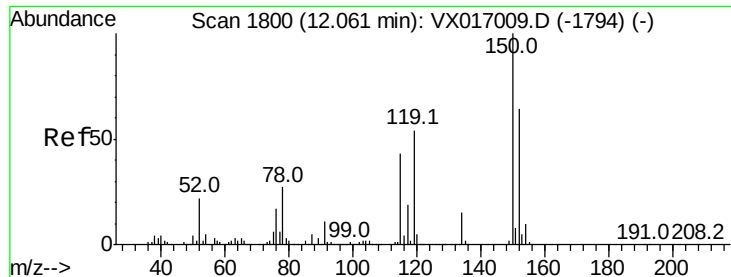


Abundance Ion 116.90 (116.60 to 117.60): VX0

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: VX017202.D

Acq: 07 Jul 2020 14:44

Instrument :

MSVOA_X

ClientSampleId :

47BR-20200629

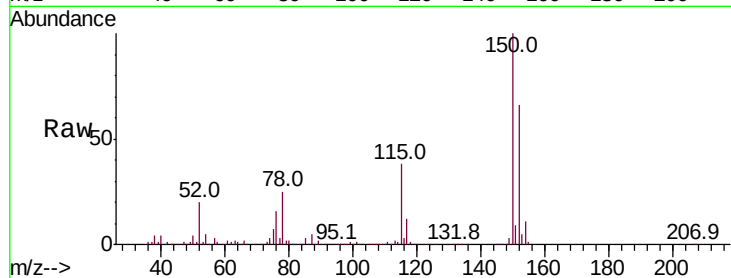
Tot Ion:152 Resp: 233348

Ion Ratio Lower Upper

152 100

115 56.7 40.9 122.7

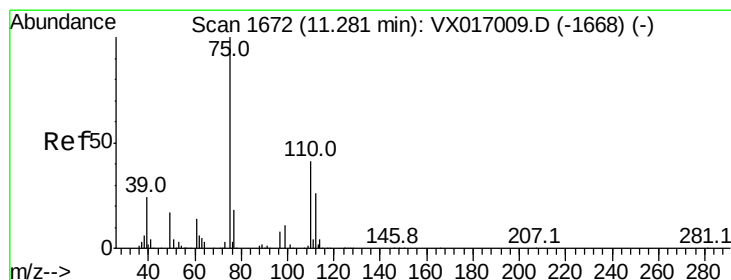
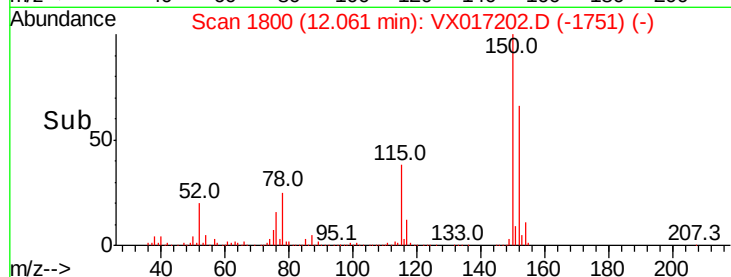
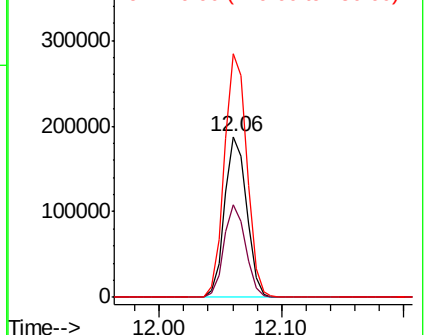
150 154.3 0.0 351.6



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: 22.344 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017202.D

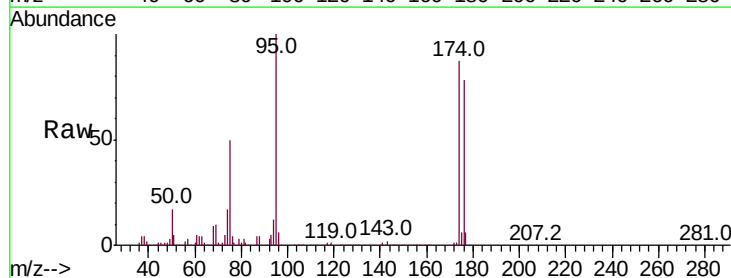
Acq: 07 Jul 2020 14:44

Tgt Ion: 75 Resp: 102527

Ion Ratio Lower Upper

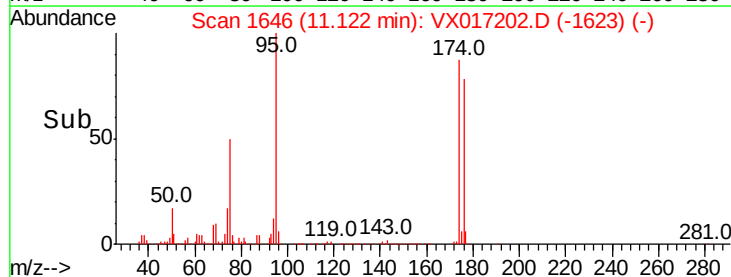
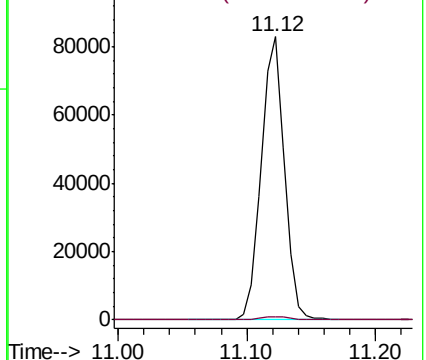
75 100

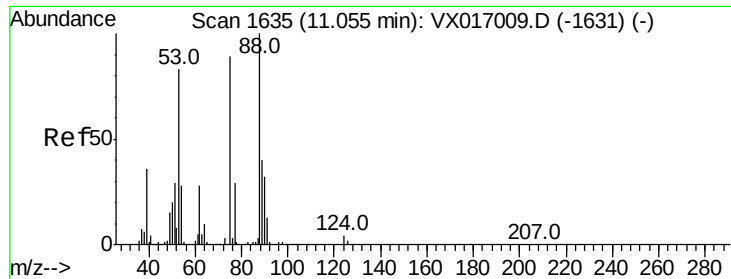
77 1.4 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 57.862 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017202.D

Acq: 07 Jul 2020 14:44

Instrument :

MSVOA_X

ClientSampleId :

47BR-20200629

Tot Ion: 75 Resp: 102527

Ion Ratio Lower Upper

75 100

53 0.3 72.4 108.6#

89 0.1 37.0 55.4#

