

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX100220\
 Data File : VX018754.D
 Acq On : 02 Oct 2020 17:53
 Operator : JC/SP
 Sample : L4239-01
 Misc : 25.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BG3M9

Quant Time: Oct 03 07:14:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SOMXTR100220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Oct 02 14:11:08 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.83	114	193486	5.00	ug/L	0.00
28) Chlorobenzene-d5	10.10	117	181345	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	12.07	152	103165	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	63641	5.63	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	112.60%
7) Chloroethane-d5	1.70	69	50206	5.68	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	113.60%
11) 1,1-Dichloroethene-d2	2.34	63	119681	4.69	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	93.80%
20) 2-Butanone-d5	4.56	46	179649	60.60	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	121.20%
24) Chloroform-d	5.14	84	153204	5.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	112.00%
26) 1,2-Dichloroethane-d4	6.04	65	90426	5.42	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	108.40%
32) Benzene-d6	6.05	84	263994	5.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	117.20%
36) 1,2-Dichloropropane-d6	7.37	67	74715	5.73	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	114.60%
41) Toluene-d8	8.70	98	255275	5.75	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	115.00%
45) trans-1,3-Dichloropropene-	8.99	79	36632	5.22	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	104.40%
48) 2-Hexanone-d5	9.43	63	149972	63.84	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	127.68%
59) 1,1,2,2-Tetrachloroethane-	11.23	84	59880	5.65	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	113.00%
65) 1,2-Dichlorobenzene-d4	12.36	152	112196	5.90	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	118.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.39	62	7961	0.763	ug/L	93
6) Bromomethane	1.64	94	809	0.131	ug/L	89
8) Chloroethane	1.71	64	1576	0.249	ug/L	93
12) 1,1-Dichloroethene	2.35	96	10050	1.043	ug/L #	1
13) Acetone	2.45	43	82645	51.061	ug/L	96
14) Carbon disulfide	2.55	76	100603	3.335	ug/L	99
18) trans-1,2-Dichloroethene	3.14	96	21495	2.083	ug/L	97
19) 1,1-Dichloroethane	3.67	63	158653	8.647	ug/L	96
21) 2-Butanone	4.66	43	29012	12.313	ug/L	86
22) cis-1,2-Dichloroethene	4.56	96	2239196	210.390	ug/L #	90
29) 1,1,1-Trichloroethane	5.46	97	2935495	136.834	ug/L	100
30) Cyclohexane	5.55	56	75536	5.077	ug/L	98
33) Benzene	6.12	78	14088	0.371	ug/L	100
34) Trichloroethene	7.19	95	43629	3.891	ug/L	94
40) 4-Methyl-2-pentanone	8.63	43	8585	1.558	ug/L #	75
42) Toluene	8.77	91	18078251	435.053	ug/L #	64
49) Tetrachloroethene	9.32	164	1678	0.171	ug/L #	60

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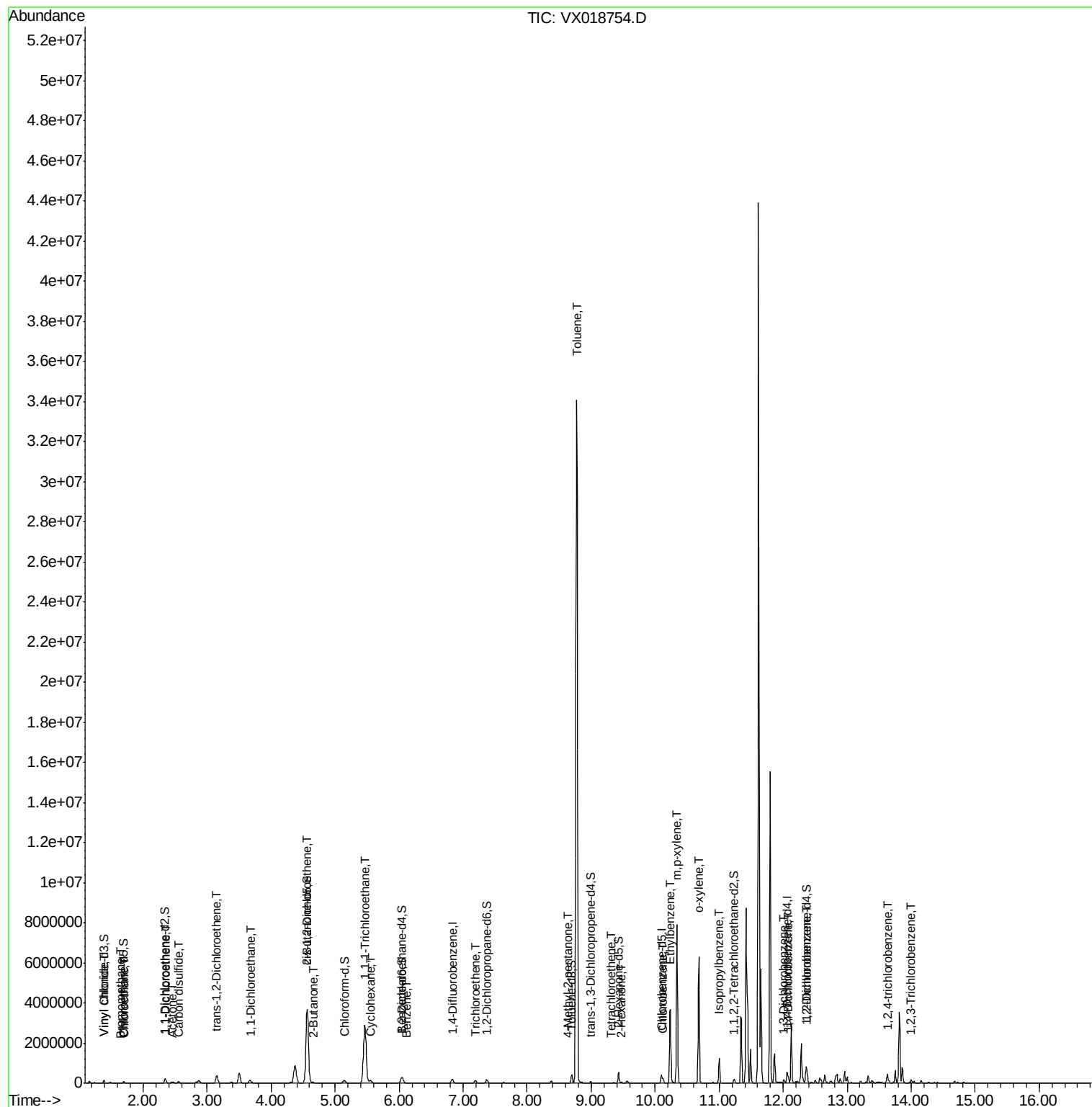
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone	9.48	43	14221	3.553	ug/L #	89
53) Chlorobenzene	10.12	112	95533	3.361	ug/L	95
54) Ethylbenzene	10.24	91	2097700	45.033	ug/L	99
55) m,p-xylene	10.34	106	1723092	94.832	ug/L	97
56) o-xylene	10.68	106	1247281	74.281	ug/L	97
58) Isopropylbenzene	11.00	105	620686	13.204	ug/L	98
63) 1,3-Dichlorobenzene	12.01	146	25152	1.003	ug/L	97
64) 1,4-Dichlorobenzene	12.08	146	81736	3.269	ug/L	98
66) 1,2-Dichlorobenzene	12.38	146	117421	5.015	ug/L	90
69) 1,2,4-trichlorobenzene	13.63	180	87633	5.469	ug/L	98
71) 1,2,3-Trichlorobenzene	14.00	180	34291	2.379	ug/L	94

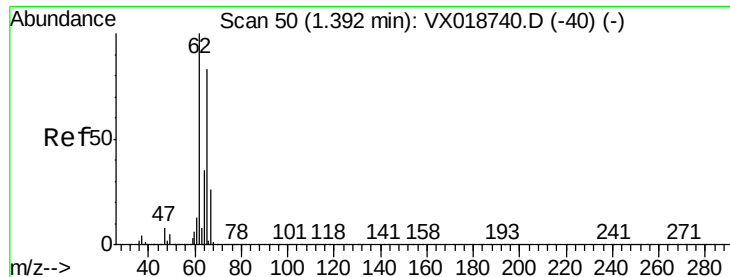
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.763 ug/L

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX018754.D

Acq: 02 Oct 2020 17:53

Instrument :

MSVOA_X

ClientSampleId :

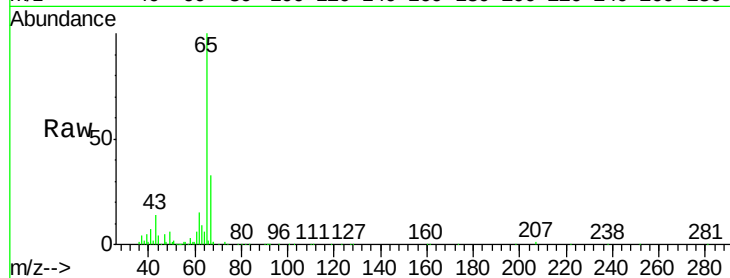
BG3M9

Tot Ion: 62 Resp: 7961

Ion Ratio Lower Upper

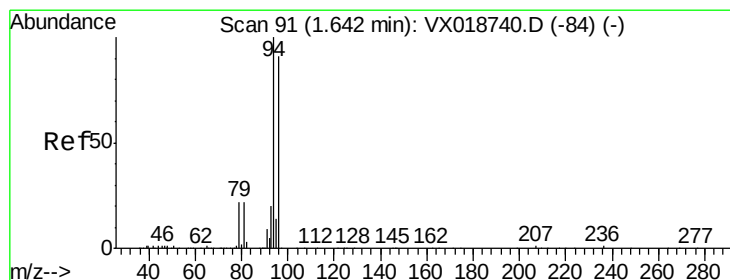
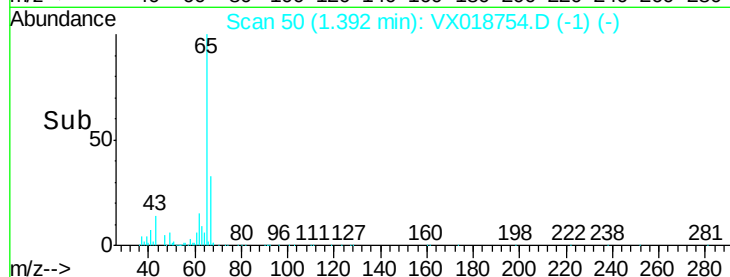
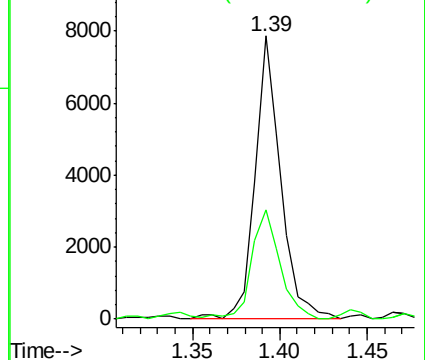
62 100

64 38.6 24.3 45.1



Abundance Ion 62.00 (61.70 to 62.70): VX0

Ion 64.10 (63.80 to 64.80): VX0



#6

Bromomethane

Concen: 0.131 ug/L

RT: 1.64 min Scan# 91

Delta R.T. 0.00 min

Lab File: VX018754.D

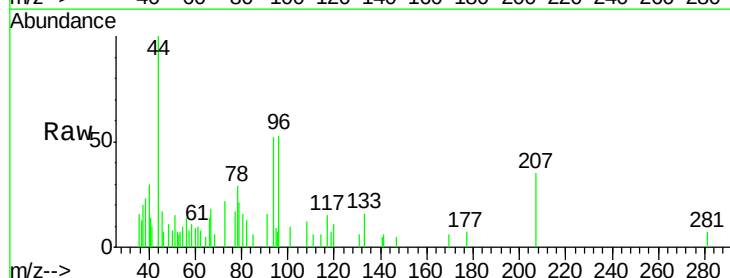
Acq: 02 Oct 2020 17:53

Tgt Ion: 94 Resp: 809

Ion Ratio Lower Upper

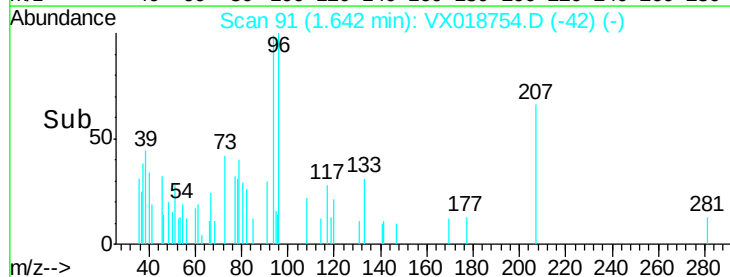
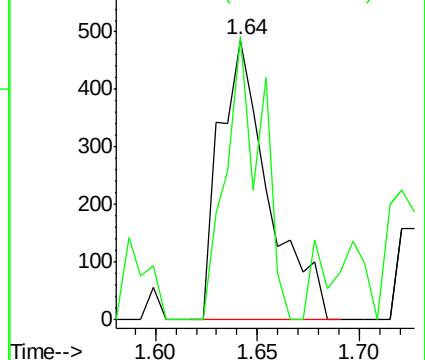
94 100

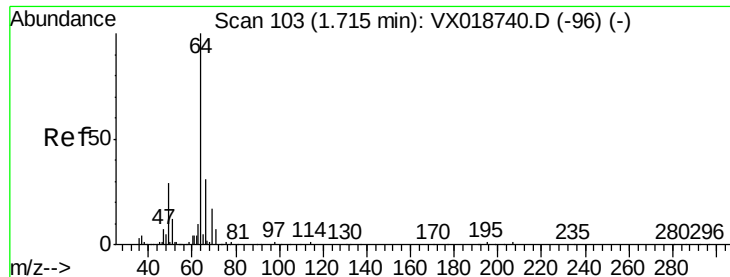
96 101.2 63.5 117.9



Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0





#8

Chloroethane

Concen: 0.249 ug/L

RT: 1.71 min Scan# 103

Delta R.T. 0.00 min

Lab File: VX018754.D

Acq: 02 Oct 2020 17:53

Instrument :

MSVOA_X

ClientSampled :

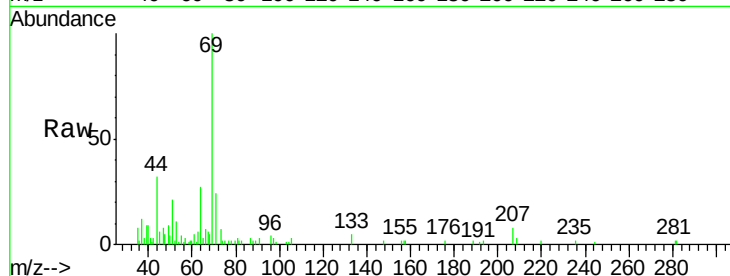
BG3M9

Tot Ion: 64 Resp: 1576

Ion Ratio Lower Upper

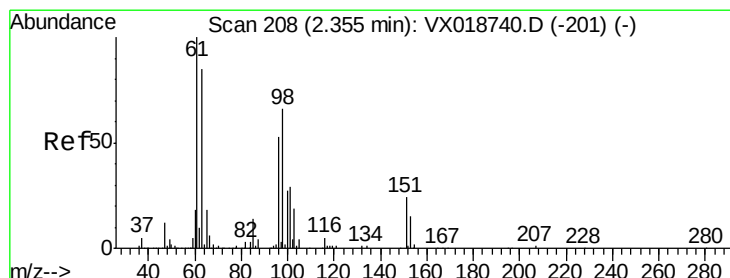
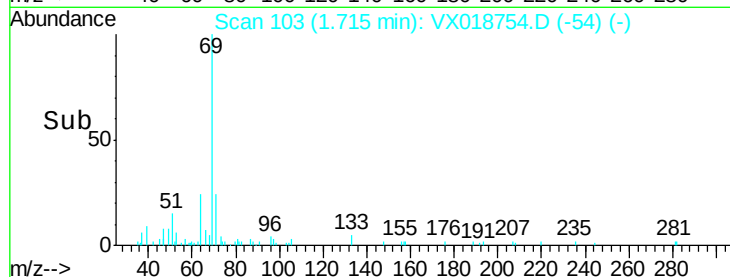
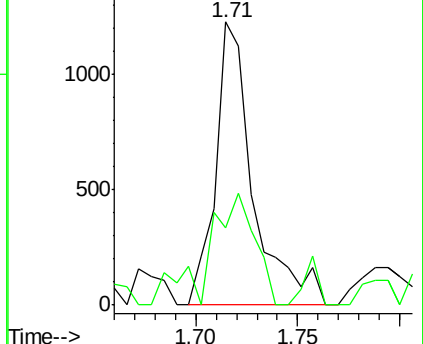
64 100

66 27.1 21.5 39.9



Abundance Ion 64.10 (63.80 to 64.80): VX0

Ion 66.05 (65.75 to 66.75): VX0



#12

1,1-Dichloroethene

Concen: 1.043 ug/L

RT: 2.35 min Scan# 208

Delta R.T. 0.00 min

Lab File: VX018754.D

Acq: 02 Oct 2020 17:53

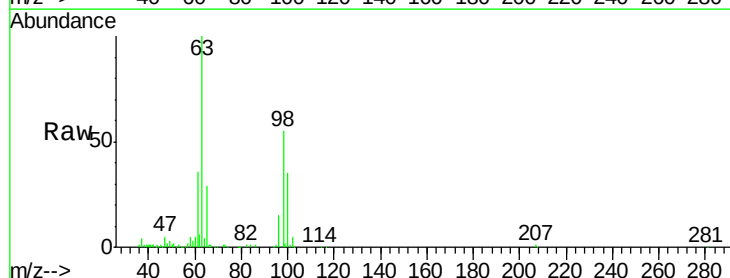
Tgt Ion: 96 Resp: 10050

Ion Ratio Lower Upper

96 100

61 233.5 133.2 247.4

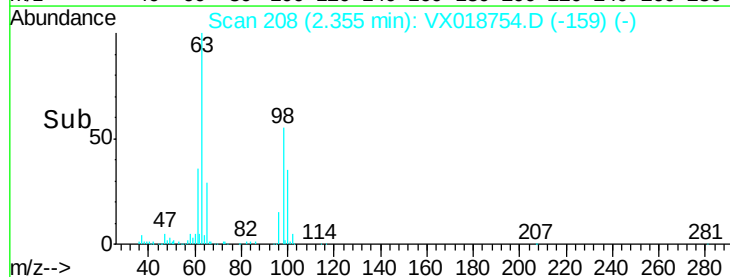
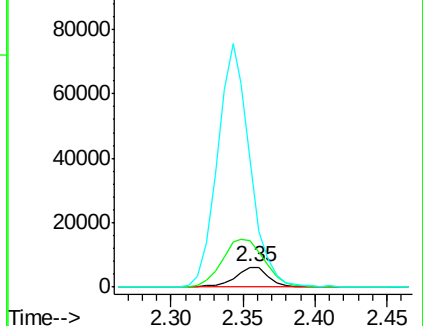
63 647.0 115.1 213.7#

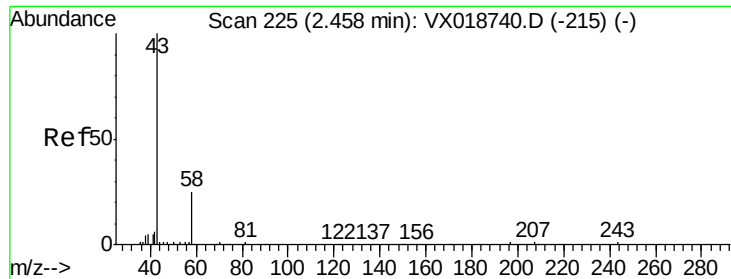


Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.05 (60.75 to 61.75): VX0

Ion 63.00 (62.70 to 63.70): VX0





#13

Acetone

Concen: 51.061 ug/L

RT: 2.45 min Scan# 224

Delta R.T. -0.01 min

Lab File: VX018754.D

Acq: 02 Oct 2020 17:53

Instrument :

MSVOA_X

ClientSampleId :

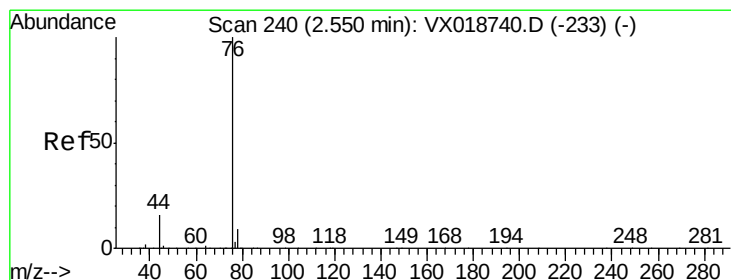
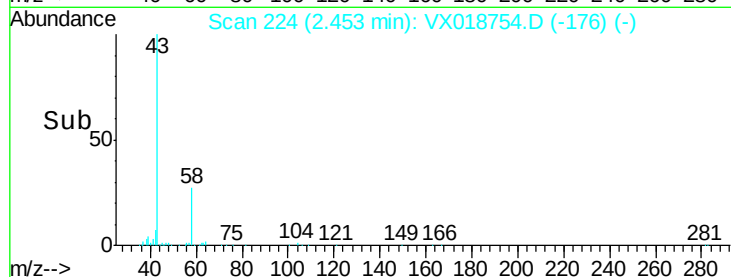
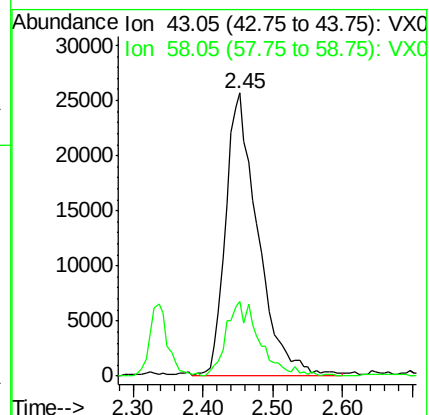
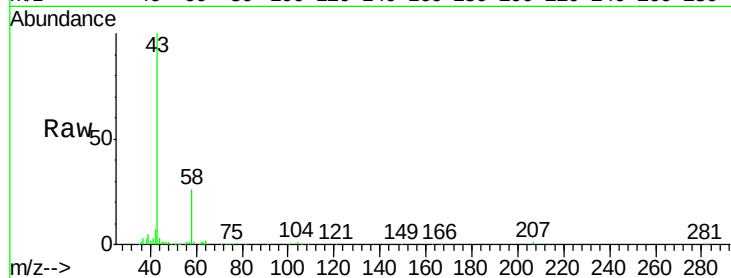
BG3M9

Tot Ion: 43 Resp: 82645

Ion Ratio Lower Upper

43 100

58 26.2 0.0 56.4



#14

Carbon disulfide

Concen: 3.335 ug/L

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX018754.D

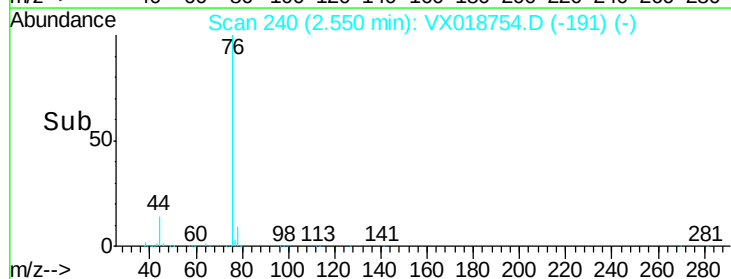
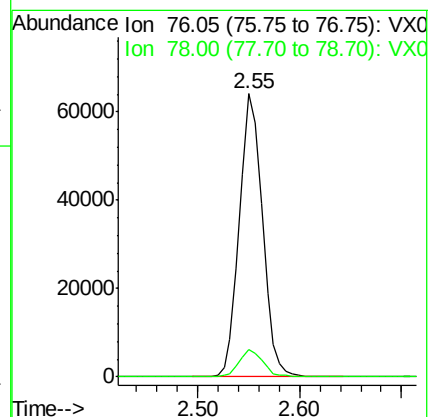
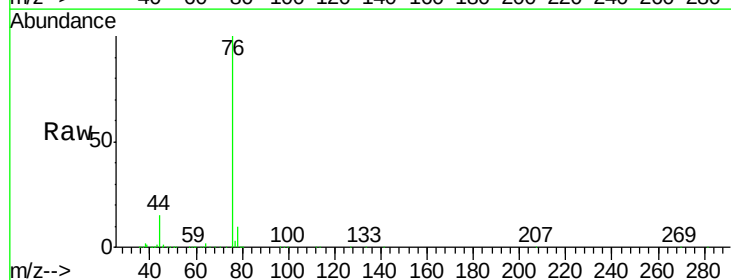
Acq: 02 Oct 2020 17:53

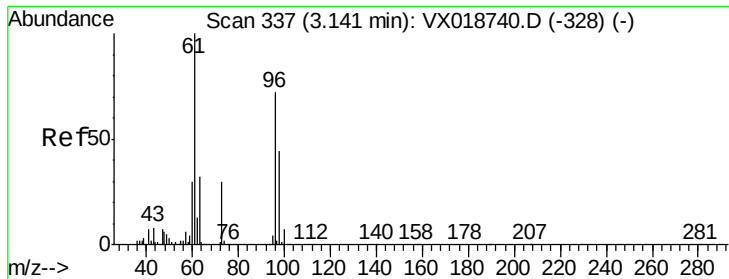
Tgt Ion: 76 Resp: 100603

Ion Ratio Lower Upper

76 100

78 9.6 7.4 11.2





#18

trans-1,2-Dichloroethene

Concen: 2.083 ug/L

RT: 3.14 min Scan# 337

Delta R.T. 0.00 min

Lab File: VX018754.D

Acq: 02 Oct 2020 17:53

Instrument :

MSVOA_X

ClientSampleId :

BG3M9

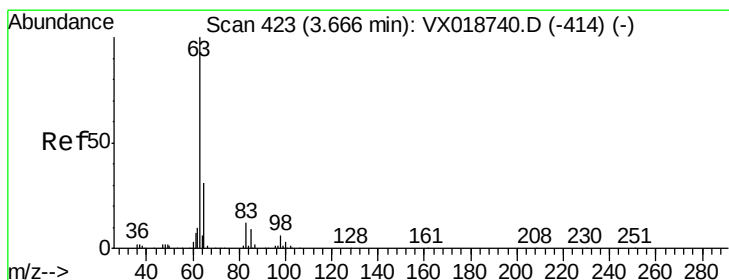
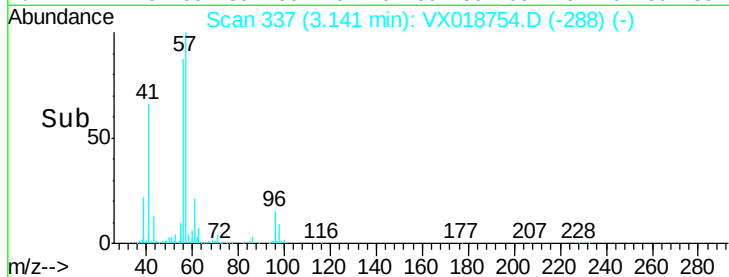
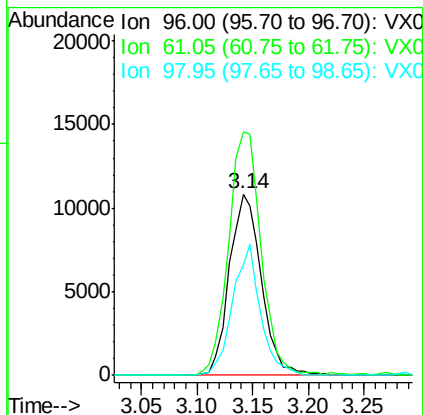
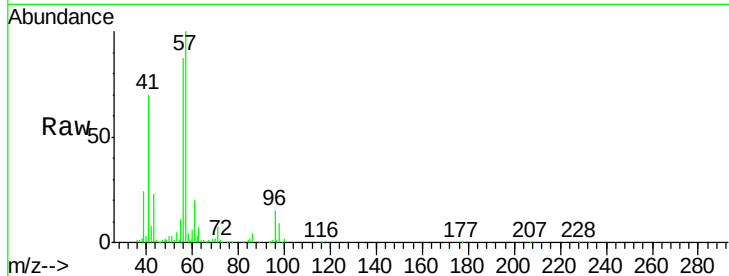
Tot Ion: 96 Resp: 21495

Ion Ratio Lower Upper

96 100

61 134.5 97.6 181.4

98 61.0 43.1 80.1



#19

1,1-Dichloroethane

Concen: 8.647 ug/L

RT: 3.67 min Scan# 424

Delta R.T. 0.01 min

Lab File: VX018754.D

Acq: 02 Oct 2020 17:53

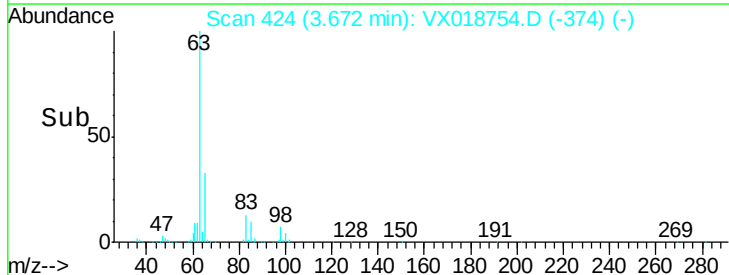
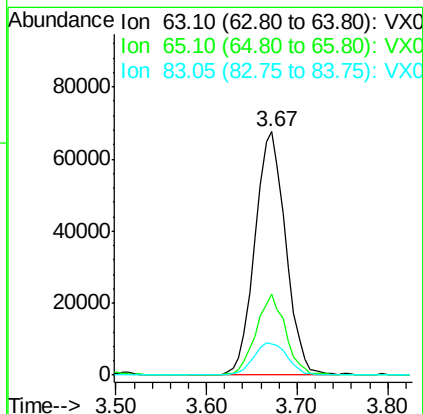
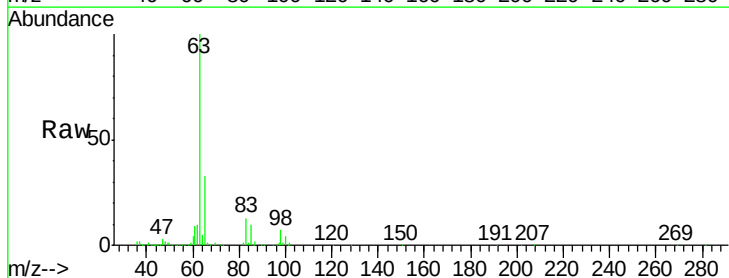
Tgt Ion: 63 Resp: 158653

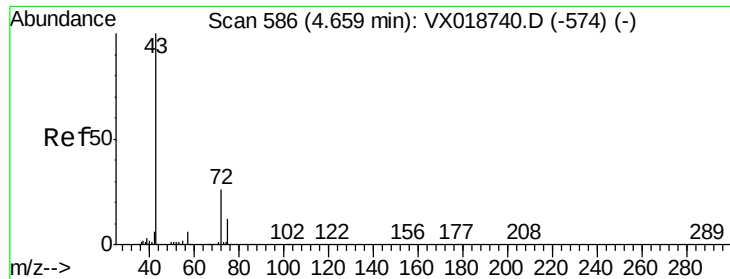
Ion Ratio Lower Upper

63 100

65 33.4 21.6 40.2

83 13.0 8.7 16.1





#21

2-Butanone

Concen: 12.313 ug/L

RT: 4.66 min Scan# 586

Delta R.T. 0.00 min

Lab File: VX018754.D

Acq: 02 Oct 2020 17:53

Instrument :

MSVOA_X

ClientSampled :

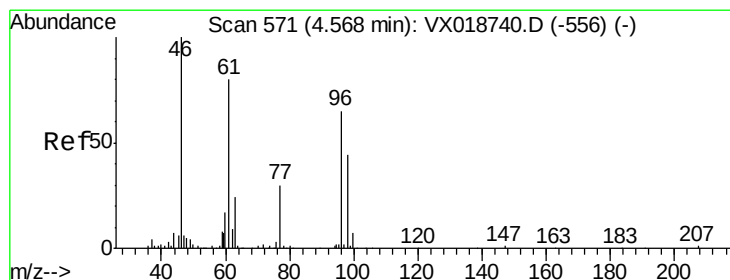
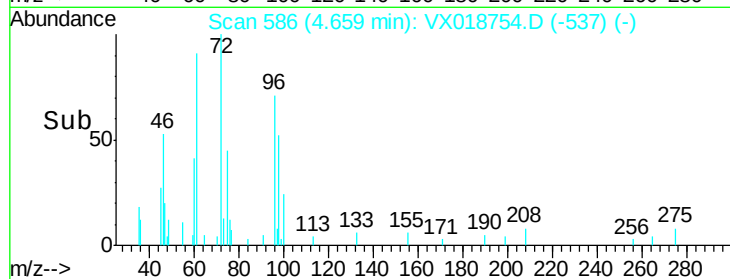
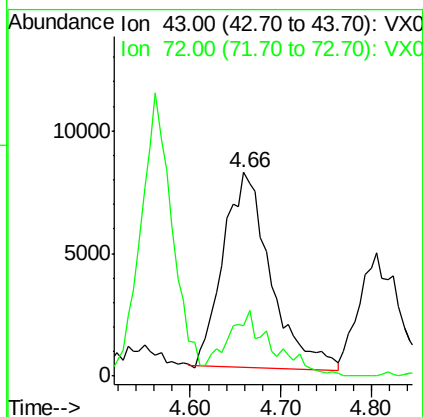
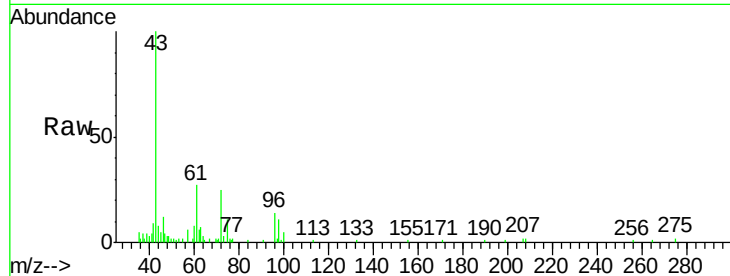
BG3M9

Tot Ion: 43 Resp: 29012

Ion Ratio Lower Upper

43 100

72 18.0 12.4 37.2



#22

cis-1,2-Dichloroethene

Concen: 210.390 ug/L

RT: 4.56 min Scan# 570

Delta R.T. -0.01 min

Lab File: VX018754.D

Acq: 02 Oct 2020 17:53

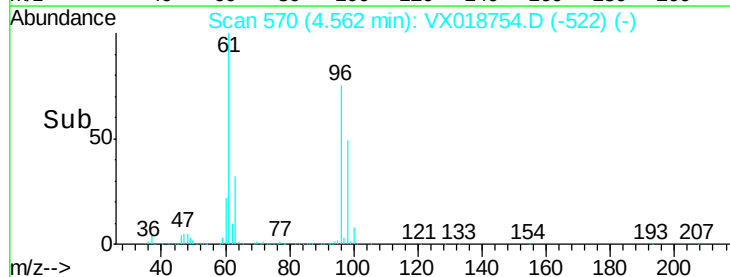
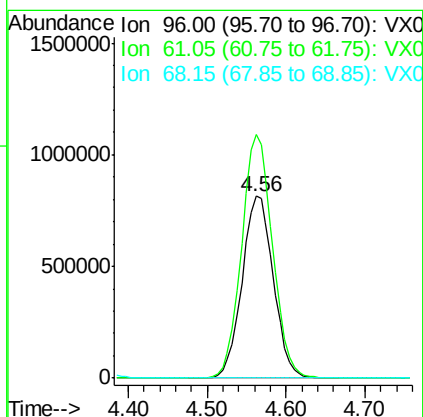
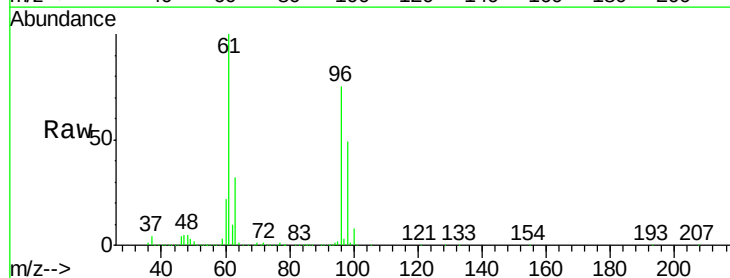
Tgt Ion: 96 Resp: 2239196

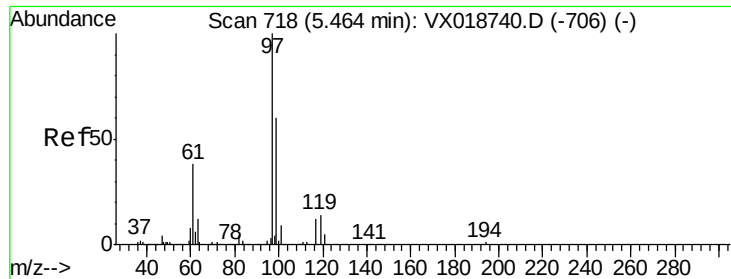
Ion Ratio Lower Upper

96 100

61 134.0 86.2 160.0

68 0.0 0.3 0.7#





#29

1,1,1-Trichloroethane

Concen: 136.834 ug/L

RT: 5.46 min Scan# 718

Delta R.T. 0.00 min

Lab File: VX018754.D

Acq: 02 Oct 2020 17:53

Instrument :

MSVOA_X

ClientSampled :

BG3M9

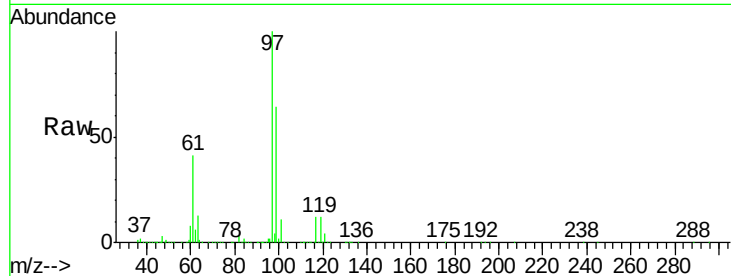
Tot Ion: 97 Resp: 2935495

Ion Ratio Lower Upper

97 100

99 64.4 51.3 76.9

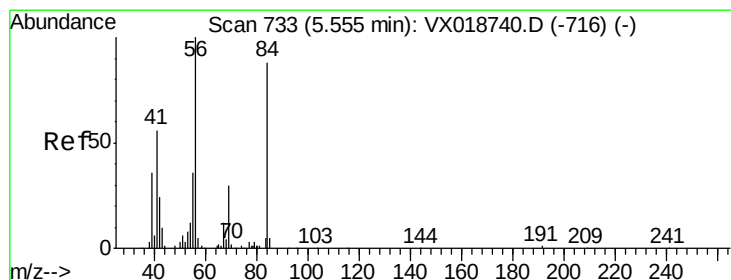
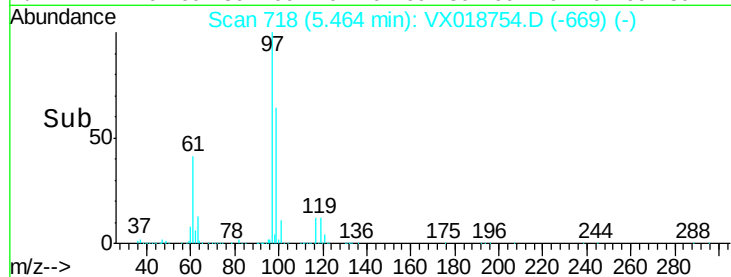
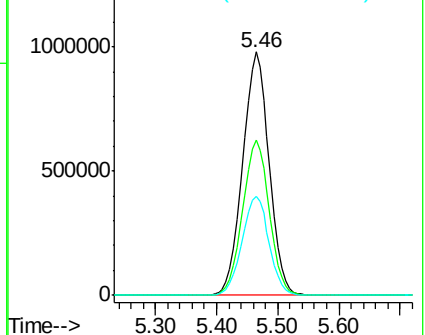
61 41.4 33.3 49.9



Abundance Ion 96.95 (96.65 to 97.65): VX0

Ion 99.05 (98.75 to 99.75): VX0

Ion 61.05 (60.75 to 61.75): VX0



#30

Cyclohexane

Concen: 5.077 ug/L

RT: 5.55 min Scan# 732

Delta R.T. -0.01 min

Lab File: VX018754.D

Acq: 02 Oct 2020 17:53

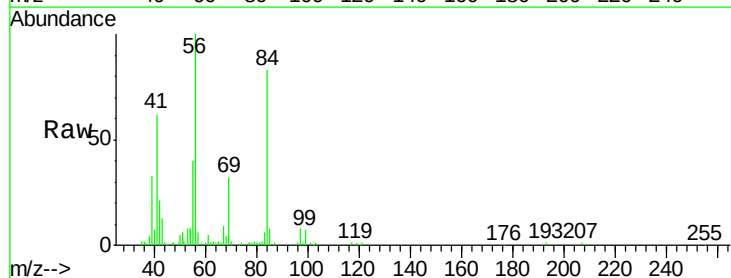
Tgt Ion: 56 Resp: 75536

Ion Ratio Lower Upper

56 100

69 30.6 26.0 39.0

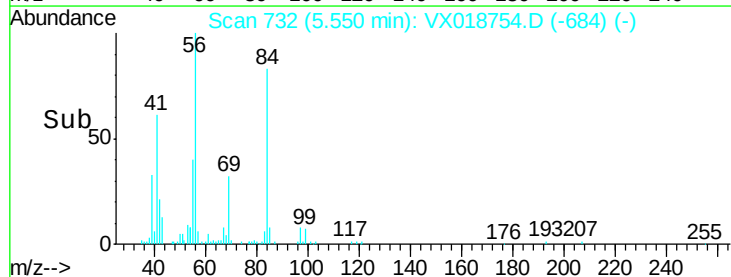
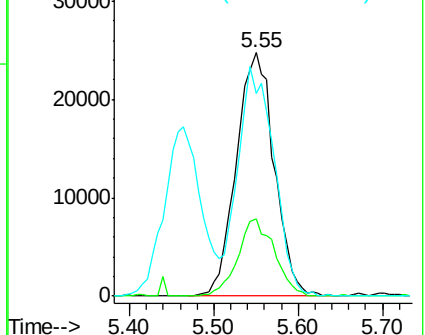
84 90.6 73.8 110.6

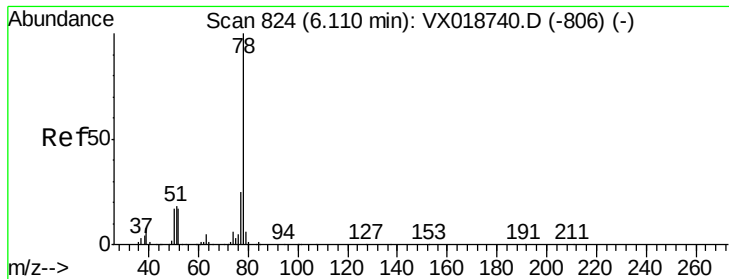


Abundance Ion 56.10 (55.80 to 56.80): VX0

Ion 69.15 (68.85 to 69.85): VX0

Ion 84.15 (83.85 to 84.85): VX0





#33

Benzene

Concen: 0.371 ug/L

RT: 6.12 min Scan# 825

Delta R.T. 0.01 min

Lab File: VX018754.D

Acq: 02 Oct 2020 17:53

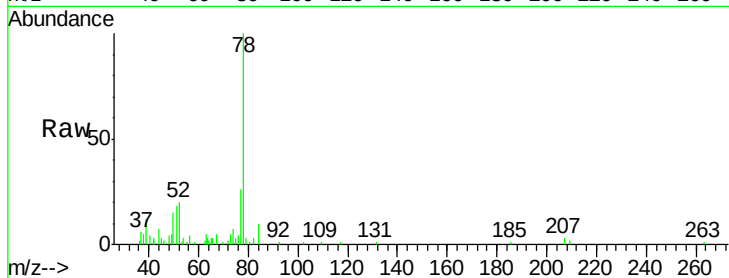
Instrument :

MSVOA_X

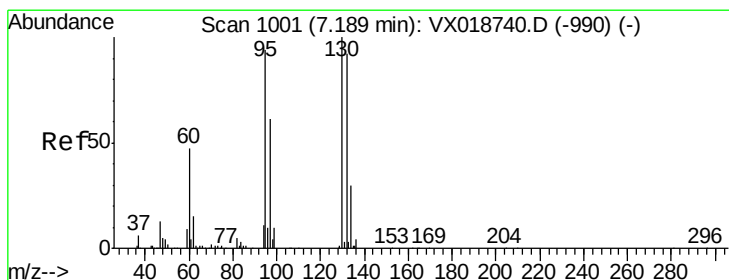
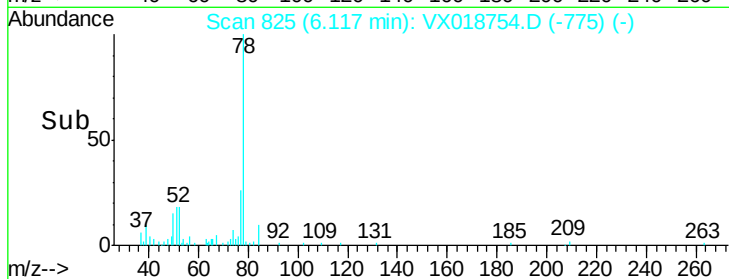
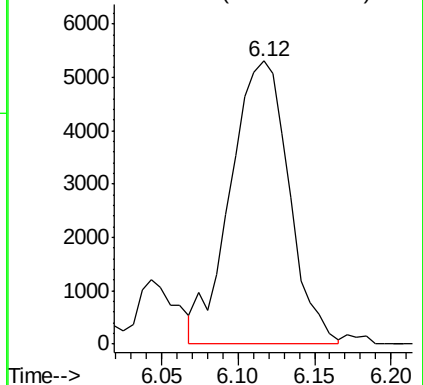
ClientSampleId :

BG3M9

Tgt Ion: 78 Resp: 14088



Abundance Ion 78.10 (77.80 to 78.80): VX0



#34

Trichloroethene

Concen: 3.891 ug/L

RT: 7.19 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VX018754.D

Acq: 02 Oct 2020 17:53

Tgt Ion: 95 Resp: 43629

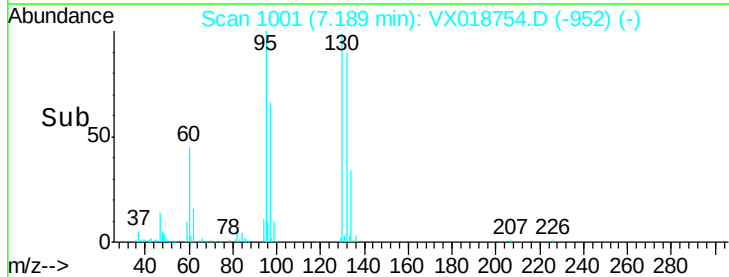
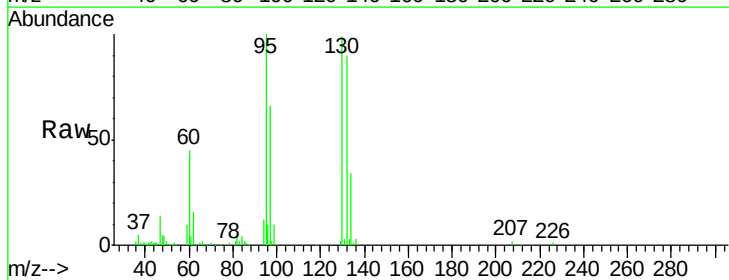
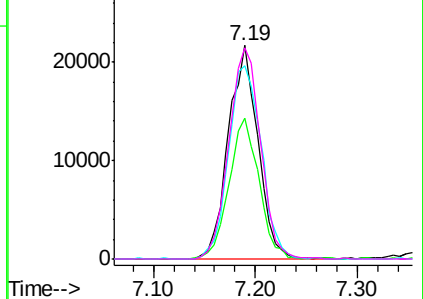
Ion	Ratio	Lower	Upper
95	100		
97	65.7	45.3	84.1
132	90.3	68.6	127.4
130	98.9	74.5	138.3

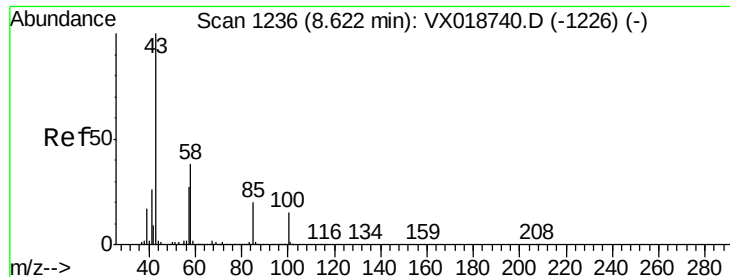
Abundance Ion 95.00 (94.70 to 95.70): VX0

Ion 96.95 (96.65 to 97.65): VX0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

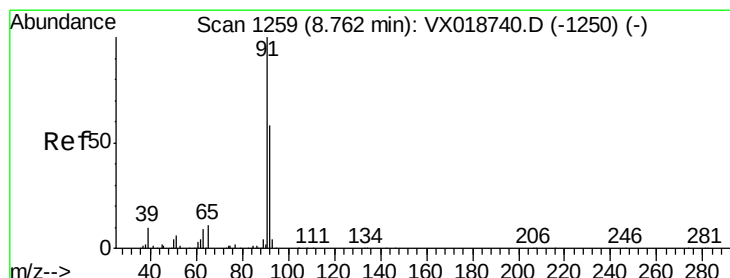
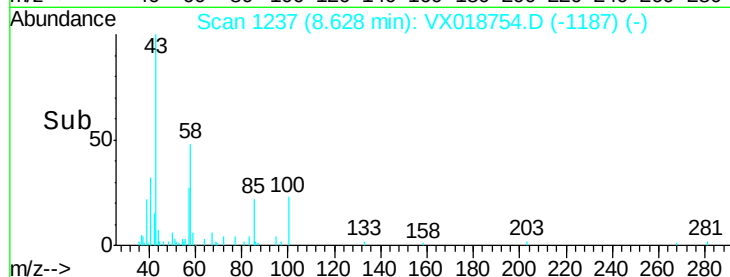
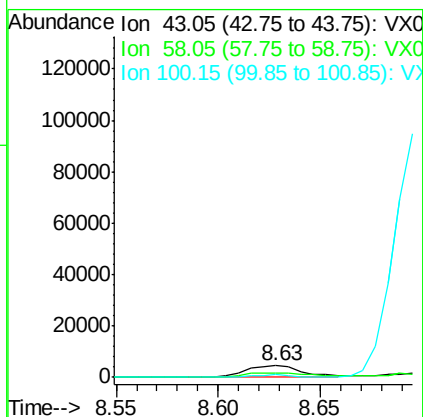
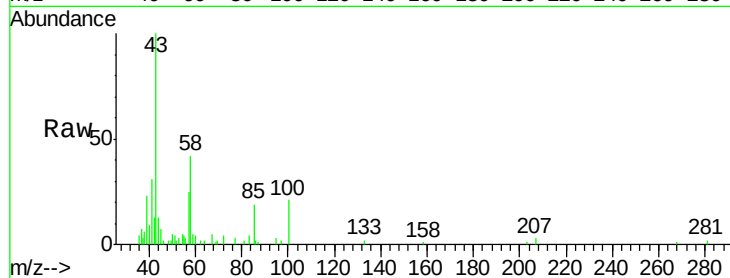




#40
4-Methyl-2-pentanone
Concen: 1.558 ug/L
RT: 8.63 min Scan# 1237
Delta R.T. 0.01 min
Lab File: VX018754.D
Acq: 02 Oct 2020 17:53

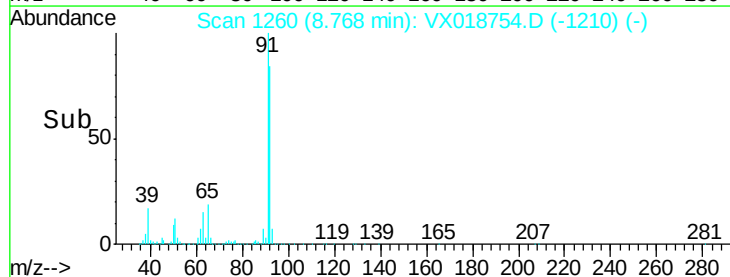
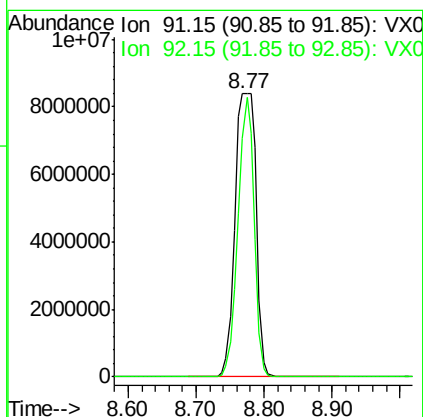
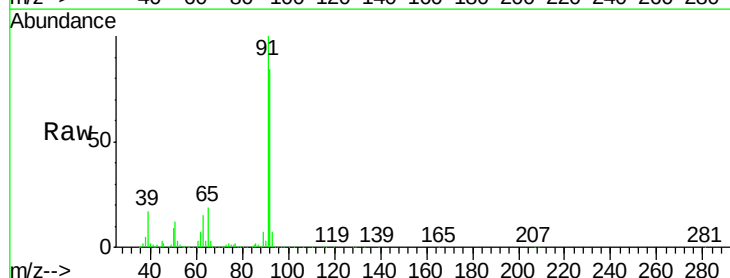
Instrument :
MSVOA_X
ClientSampled :
BG3M9

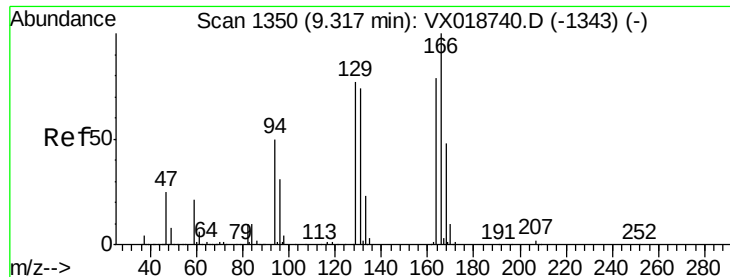
Tot Ion: 43 Resp: 8585
Ion Ratio Lower Upper
43 100
58 50.3 30.8 46.2#
100 0.0 13.2 19.8#



#42
Toluene
Concen: 435.053 ug/L
RT: 8.77 min Scan# 1260
Delta R.T. 0.01 min
Lab File: VX018754.D
Acq: 02 Oct 2020 17:53

Tgt Ion: 91 Resp: 18078251
Ion Ratio Lower Upper
91 100
92 84.2 40.3 74.9#





#49

Tetrachloroethene

Concen: 0.171 ug/L

RT: 9.32 min Scan# 1350

Delta R.T. 0.00 min

Lab File: VX018754.D

Acq: 02 Oct 2020 17:53

Instrument :

MSVOA_X

ClientSampled :

BG3M9

Tot Ion:164 Resp: 1678

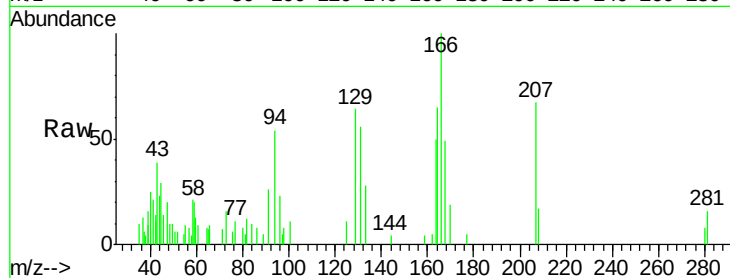
Ion Ratio Lower Upper

164 100

129 55.7 68.7 127.5#

131 49.1 65.3 121.3#

166 87.6 88.5 164.4#

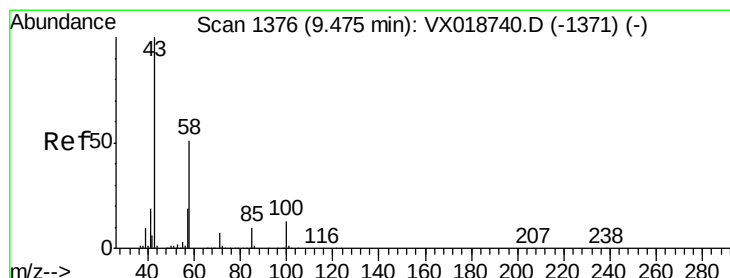
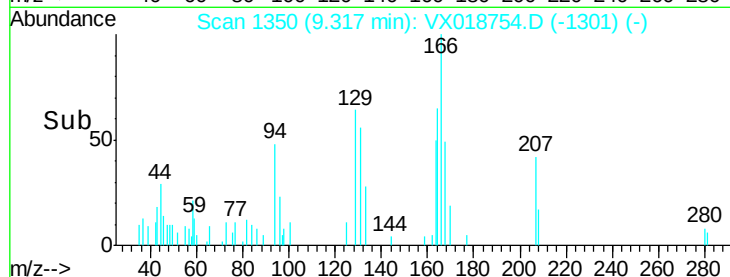
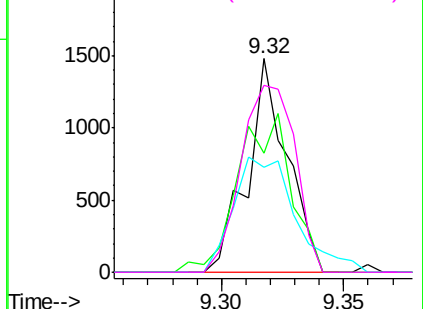


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#50

2-Hexanone

Concen: 3.553 ug/L

RT: 9.48 min Scan# 1376

Delta R.T. 0.00 min

Lab File: VX018754.D

Acq: 02 Oct 2020 17:53

Tgt Ion: 43 Resp: 14221

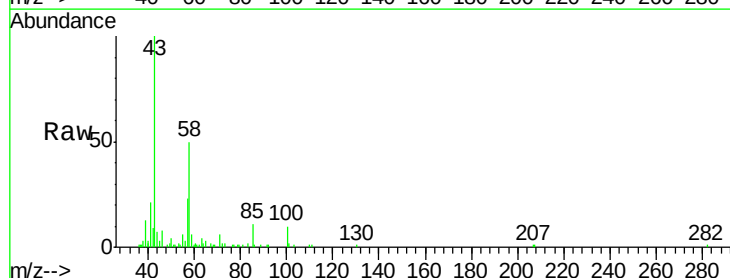
Ion Ratio Lower Upper

43 100

58 56.1 41.0 61.4

57 32.2 15.9 23.9#

100 12.2 10.1 15.1

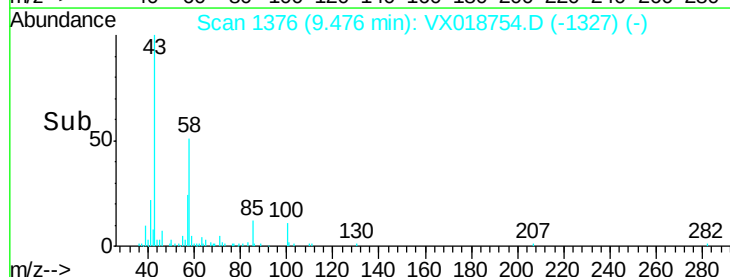
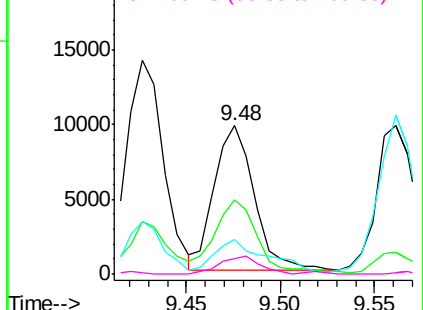


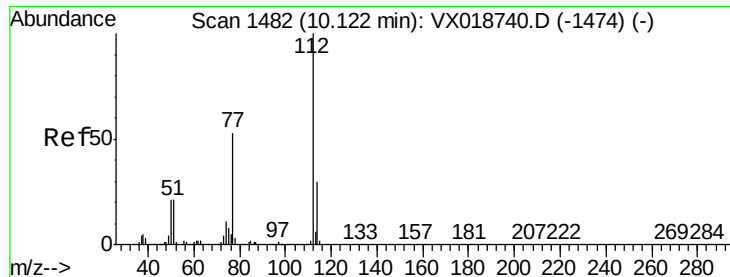
Abundance Ion 43.05 (42.75 to 43.75): VX0

Ion 58.05 (57.75 to 58.75): VX0

Ion 57.20 (56.90 to 57.90): VX0

Ion 100.15 (99.85 to 100.85): VX0





#53

Chlorobenzene

Concen: 3.361 ug/L

RT: 10.12 min Scan# 1482

Delta R.T. 0.00 min

Lab File: VX018754.D

Acq: 02 Oct 2020 17:53

Instrument :

MSVOA_X

ClientSampleId :

BG3M9

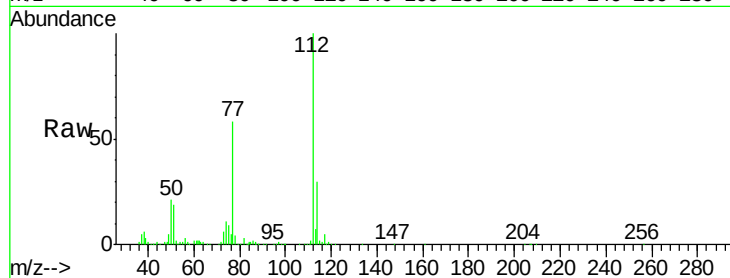
Tot Ion:112 Resp: 95533

Ion Ratio Lower Upper

112 100

114 30.4 21.3 39.5

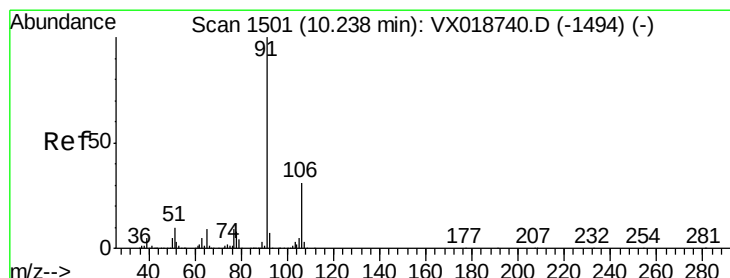
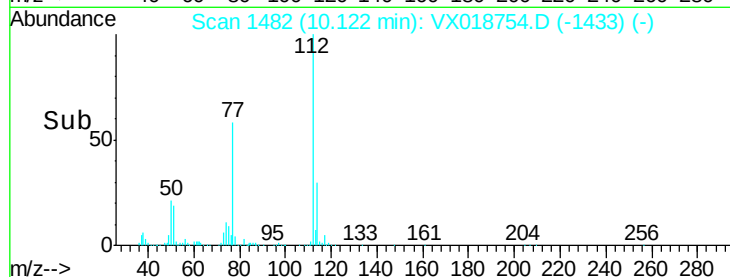
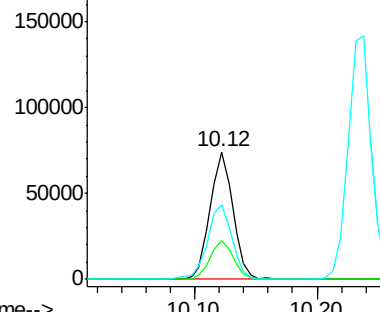
77 58.2 42.4 63.6



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): V



#54

Ethylbenzene

Concen: 45.033 ug/L

RT: 10.24 min Scan# 1501

Delta R.T. 0.00 min

Lab File: VX018754.D

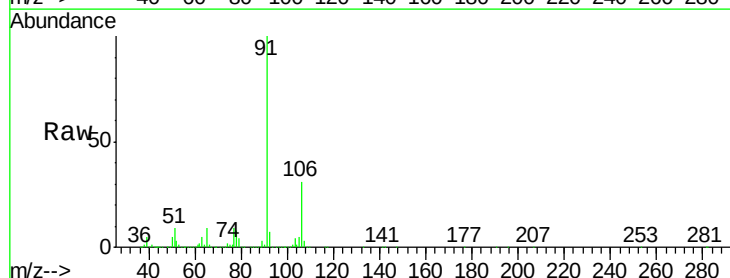
Acq: 02 Oct 2020 17:53

Tgt Ion: 91 Resp: 2097700

Ion Ratio Lower Upper

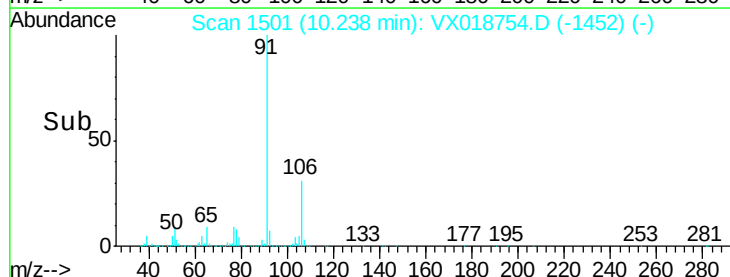
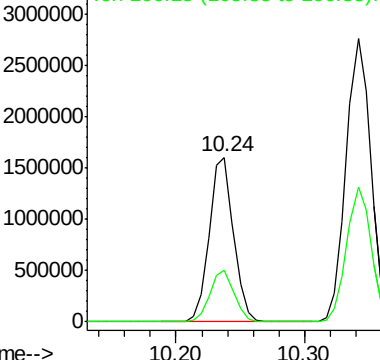
91 100

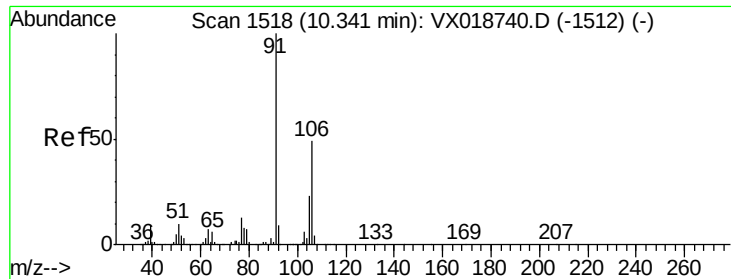
106 31.2 21.5 39.9



Abundance Ion 91.15 (90.85 to 91.85): VX0

Ion 106.15 (105.85 to 106.85): V





#55

m,p-xylene

Concen: 94.832 ug/L

RT: 10.34 min Scan# 1518

Delta R.T. 0.00 min

Lab File: VX018754.D

Acq: 02 Oct 2020 17:53

Instrument :

MSVOA_X

ClientSampleId :

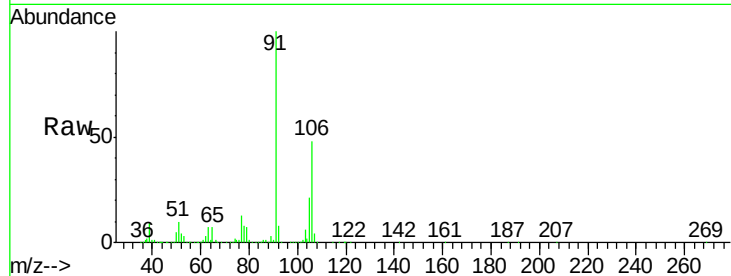
BG3M9

Tot Ion:106 Resp: 1723092

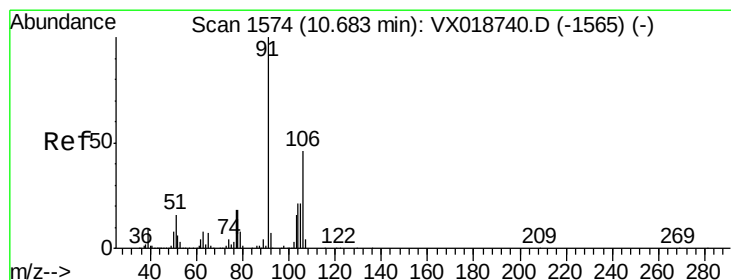
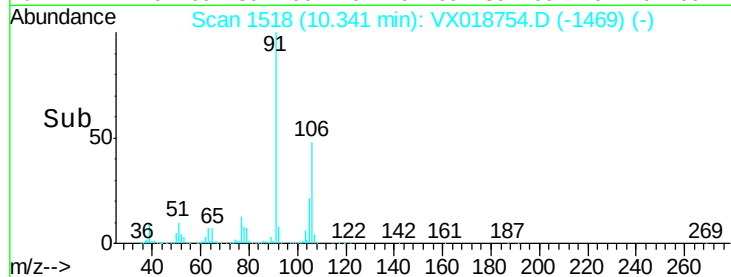
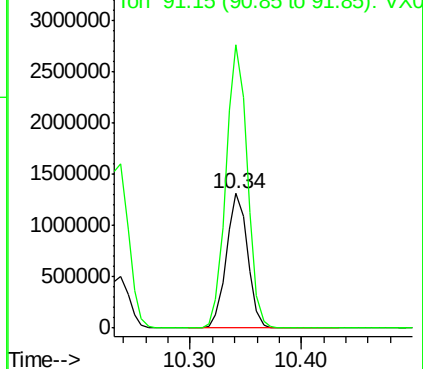
Ion Ratio Lower Upper

106 100

91 209.9 143.4 266.2



Abundance Ion 106.15 (105.85 to 106.85): V



#56

o-xylene

Concen: 74.281 ug/L

RT: 10.68 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VX018754.D

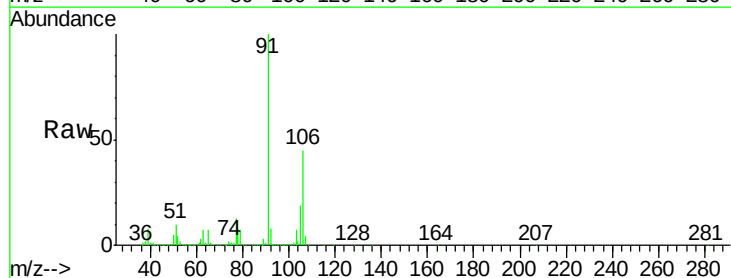
Acq: 02 Oct 2020 17:53

Tgt Ion:106 Resp: 1247281

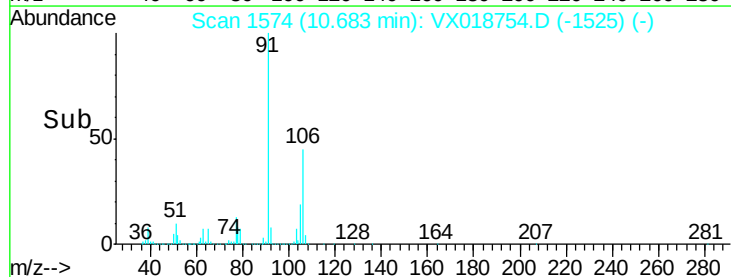
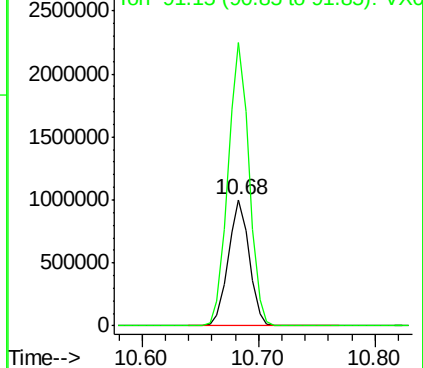
Ion Ratio Lower Upper

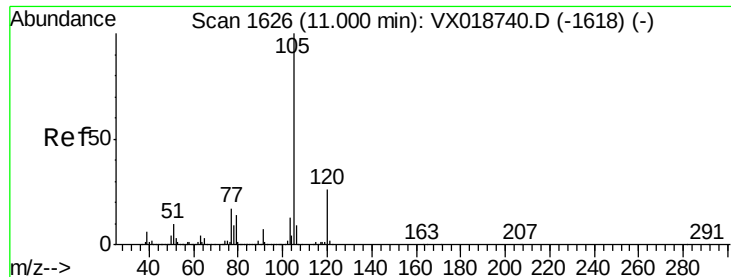
106 100

91 224.4 153.4 284.8



Abundance Ion 106.15 (105.85 to 106.85): V





#58

Isopropylbenzene

Concen: 13.204 ug/L

RT: 11.00 min Scan# 1626

Delta R.T. 0.00 min

Lab File: VX018754.D

Acq: 02 Oct 2020 17:53

Instrument :

MSVOA_X

ClientSampled :

BG3M9

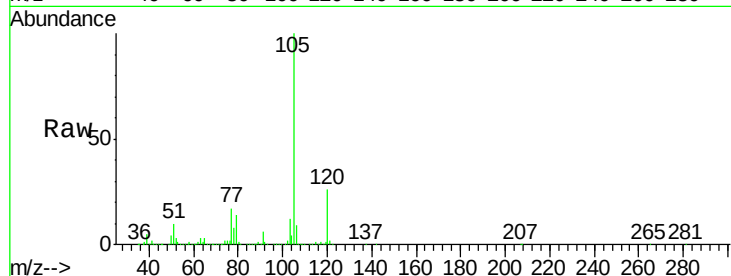
Tot Ion:105 Resp: 620686

Ion Ratio Lower Upper

105 100

120 26.3 20.2 30.2

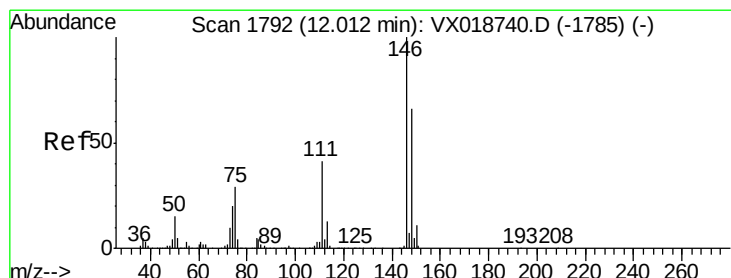
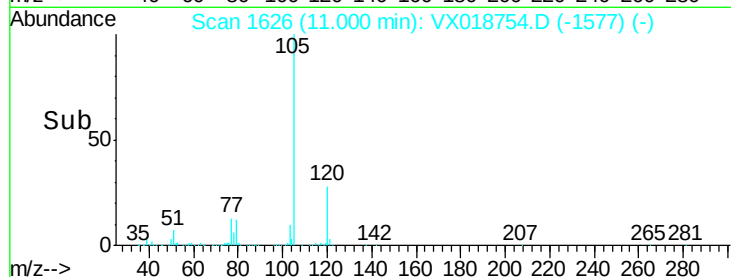
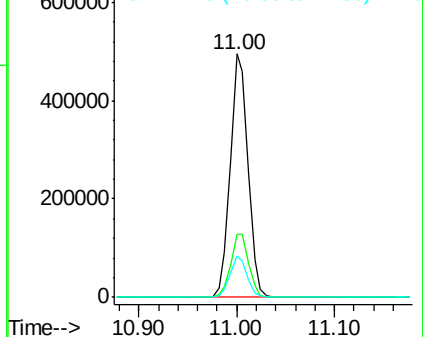
77 16.3 13.3 19.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#63

1,3-Dichlorobenzene

Concen: 1.003 ug/L

RT: 12.01 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX018754.D

Acq: 02 Oct 2020 17:53

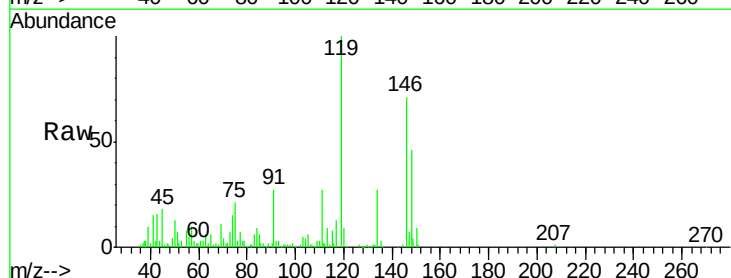
Tgt Ion:146 Resp: 25152

Ion Ratio Lower Upper

146 100

111 37.3 28.4 52.8

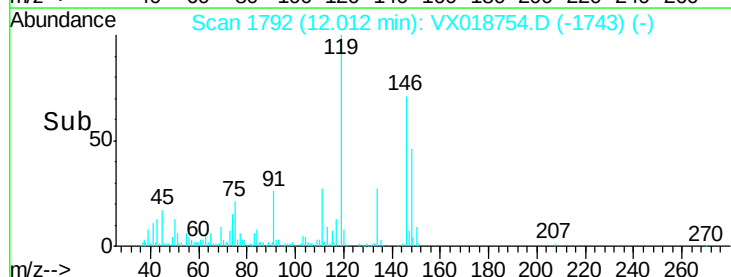
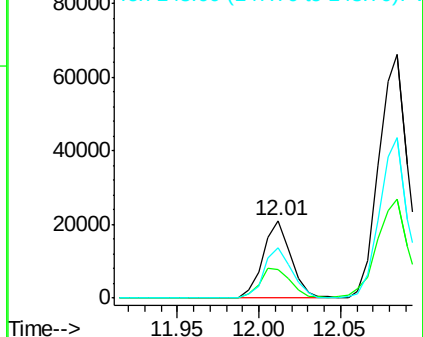
148 64.3 45.9 85.3

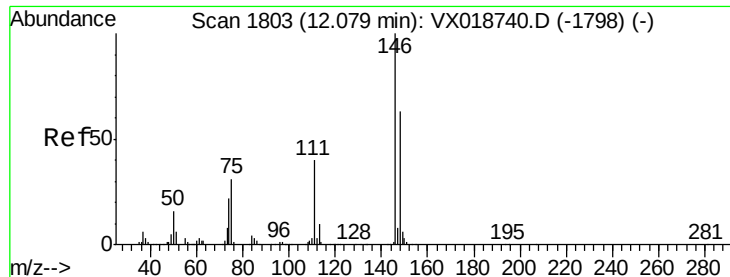


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

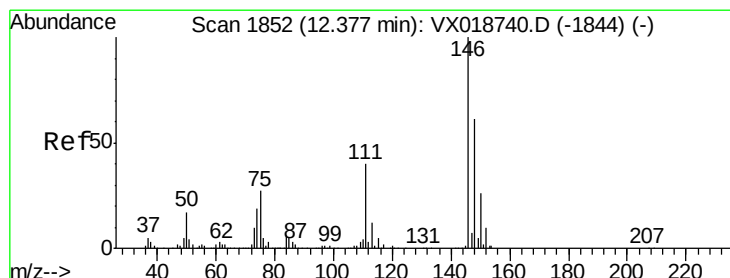
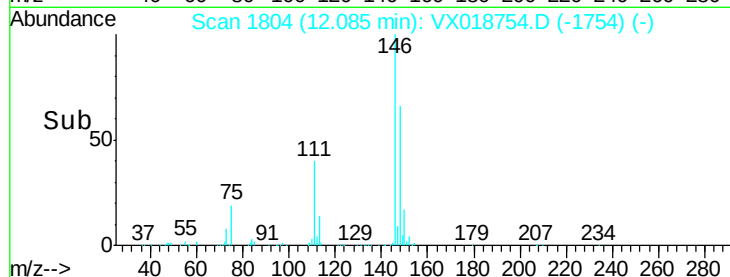
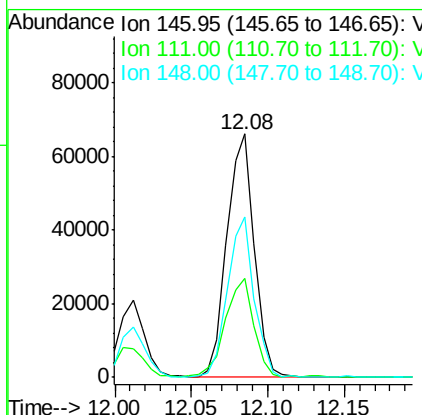
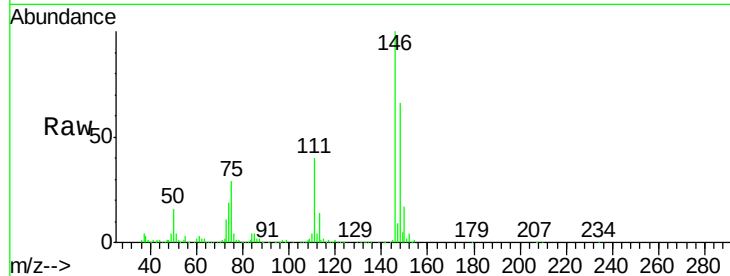




#64
 1,4-Dichlorobenzene
 Concen: 3.269 ug/L
 RT: 12.08 min Scan# 1804
 Delta R.T. 0.01 min
 Lab File: VX018754.D
 Acq: 02 Oct 2020 17:53

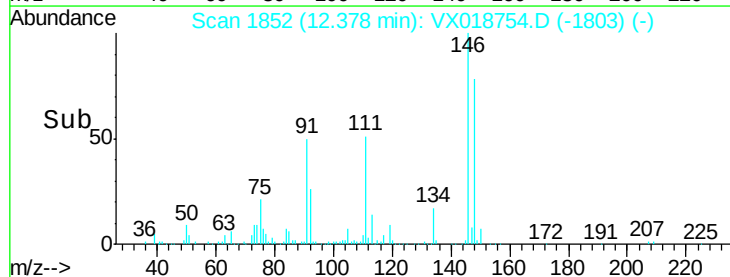
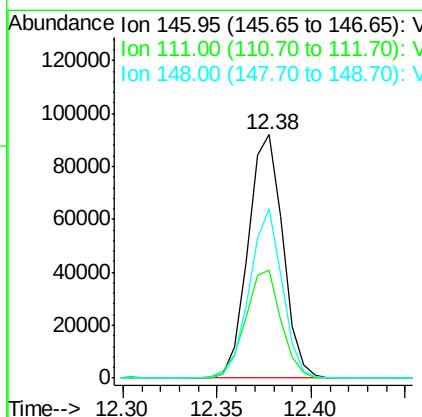
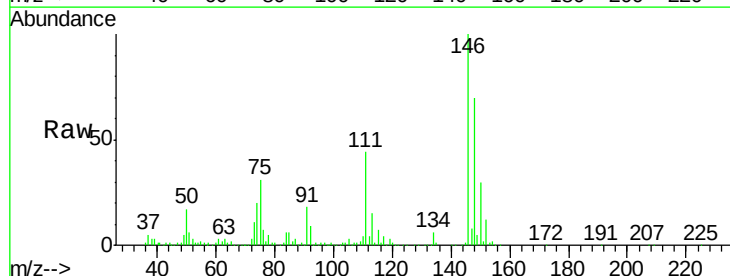
Instrument :
 MSVOA_X
 ClientSampleId :
 BG3M9

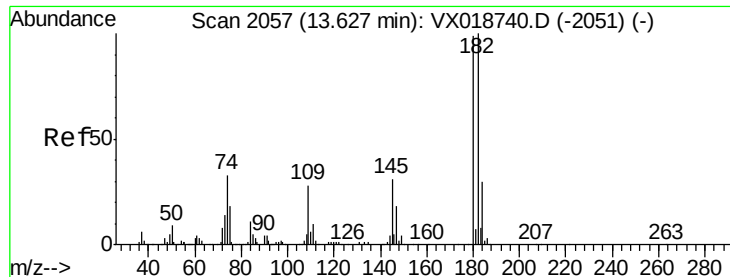
Tot Ion:146 Resp: 81736
 Ion Ratio Lower Upper
 146 100
 111 40.4 28.6 53.2
 148 65.8 44.2 82.0



#66
 1,2-Dichlorobenzene
 Concen: 5.015 ug/L
 RT: 12.38 min Scan# 1852
 Delta R.T. 0.00 min
 Lab File: VX018754.D
 Acq: 02 Oct 2020 17:53

Tgt Ion:146 Resp: 117421
 Ion Ratio Lower Upper
 146 100
 111 44.3 31.7 47.5
 148 69.8 49.0 73.6

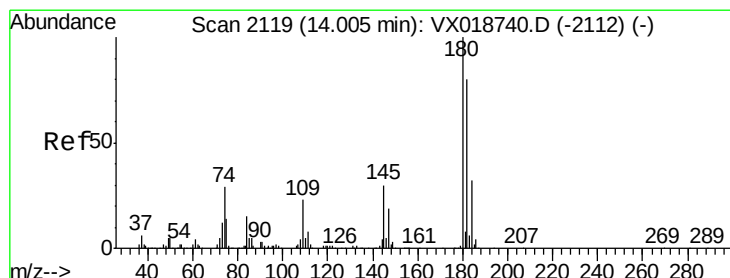
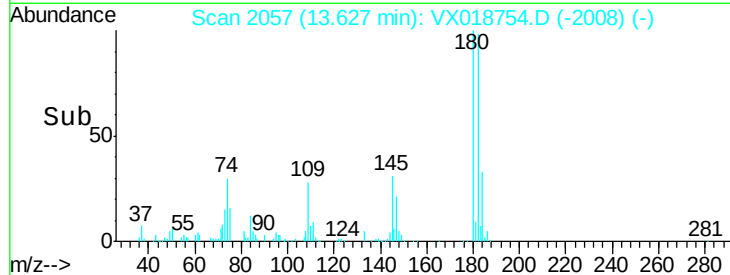
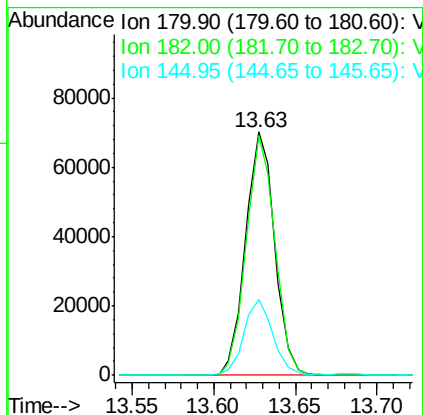
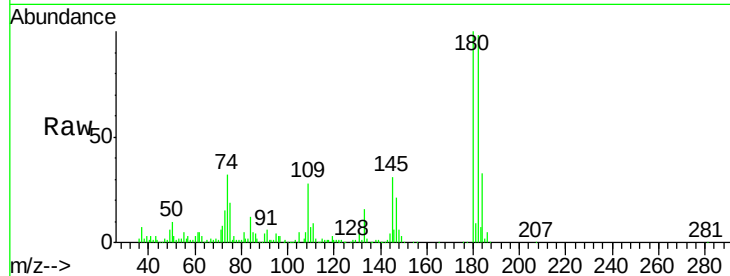




#69
 1,2,4-trichlorobenzene
 Concen: 5.469 ug/L
 RT: 13.63 min Scan# 2057
 Delta R.T. 0.00 min
 Lab File: VX018754.D
 Acq: 02 Oct 2020 17:53

Instrument :
 MSVOA_X
 ClientSampleId :
 BG3M9

Tot Ion:180 Resp: 87633
 Ion Ratio Lower Upper
 180 100
 182 97.3 80.2 120.4
 145 31.6 25.2 37.8



#71
 1,2,3-Trichlorobenzene
 Concen: 2.379 ug/L
 RT: 14.00 min Scan# 2118
 Delta R.T. -0.01 min
 Lab File: VX018754.D
 Acq: 02 Oct 2020 17:53

Tgt Ion:180 Resp: 34291
 Ion Ratio Lower Upper
 180 100
 182 97.7 73.6 110.4
 145 37.4 26.6 40.0

