

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120720\
 Data File : VX019752.D
 Acq On : 07 Dec 2020 15:08
 Operator : JC/MD
 Sample : L4953-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ID039-39MWE2D-120320

Quant Time: Dec 08 05:58:03 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 04 15:32:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	355898	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	574773	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	518130	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	233140	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	214383	45.83	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	91.66%		
35) Dibromofluoromethane	5.46	113	174465	46.97	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	93.94%		
50) Toluene-d8	8.70	98	689688	48.63	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	97.26%		
62) 4-Bromofluorobenzene	11.12	95	246735	45.71	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	91.42%		

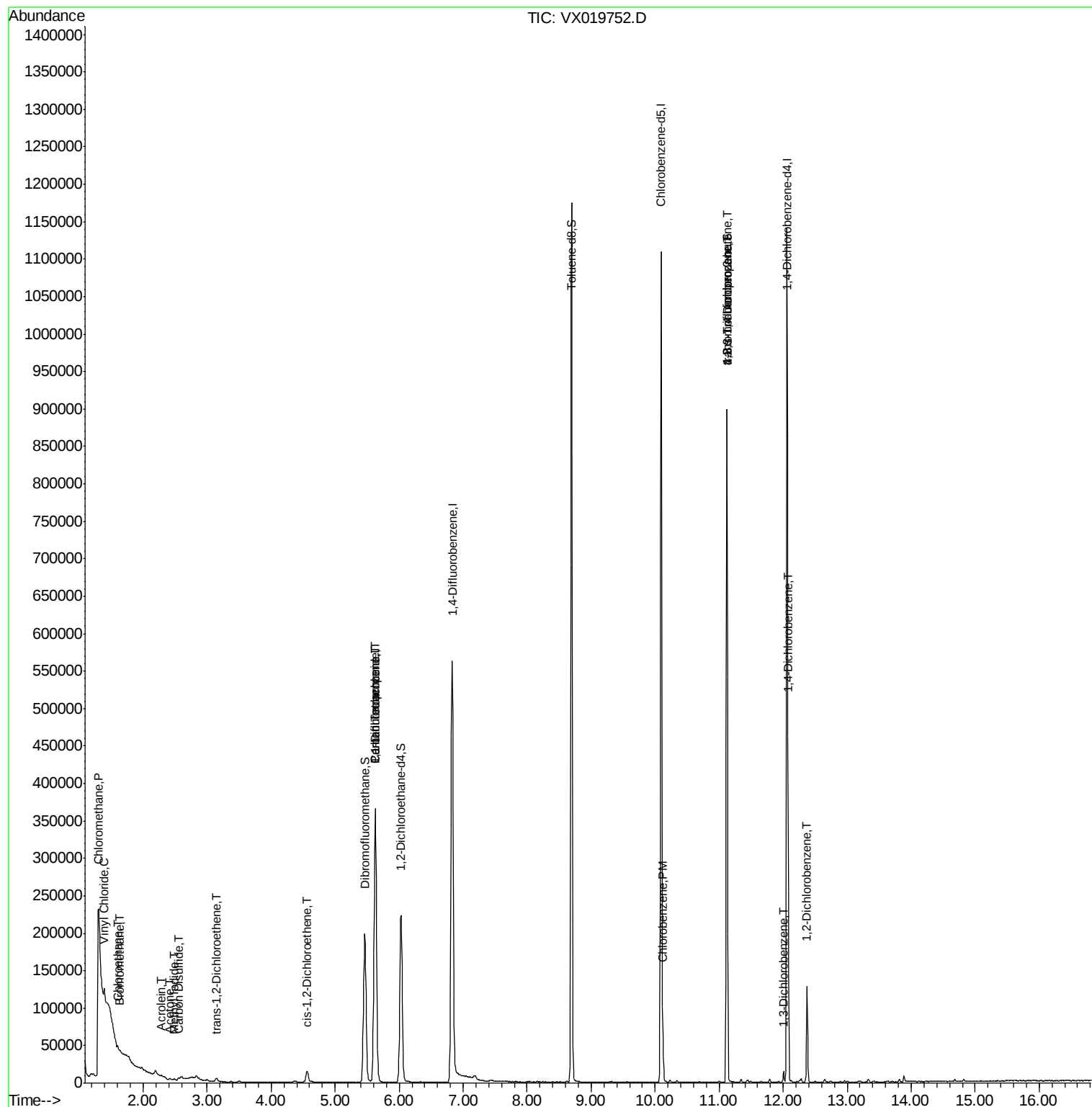
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	17293	4.513	ug/l #	53
4) Vinyl Chloride	1.39	62	7822	1.936	ug/l #	1
5) Bromomethane	1.63	94	678	0.505	ug/l #	71
6) Chloroethane	1.60	64	21072	8.682	ug/l #	52
10) Methyl Iodide	2.49	142	1868	0.393	ug/l	98
11) Tert butyl alcohol	3.00	59	940	Below Cal	#	73
13) Acrolein	2.28	56	172	0.333	ug/l #	14
16) Acetone	2.42	43	3140	1.786	ug/l	97
17) Carbon Disulfide	2.55	76	5001	0.535	ug/l	98
20) Methylene Chloride	2.84	84	1476	Below Cal		94
21) trans-1,2-Dichloroethene	3.14	96	1167	0.307	ug/l	100
27) cis-1,2-Dichloroethene	4.56	96	9621	2.163	ug/l	98
36) 1,1-Dichloropropene	5.62	75	26373	5.078	ug/l #	49
38) Carbon Tetrachloride	5.62	117	33933	6.672	ug/l #	17
65) Chlorobenzene	10.12	112	22560	2.185	ug/l	98
76) 1,2,3-Trichloropropane	11.12	75	119931	22.936	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	119931	66.304	ug/l #	12
87) 1,3-Dichlorobenzene	12.01	146	4559	0.609	ug/l	99
88) 1,4-Dichlorobenzene	12.08	146	54108	7.101	ug/l	97
91) 1,2-Dichlorobenzene	12.37	146	41924	5.749	ug/l	99

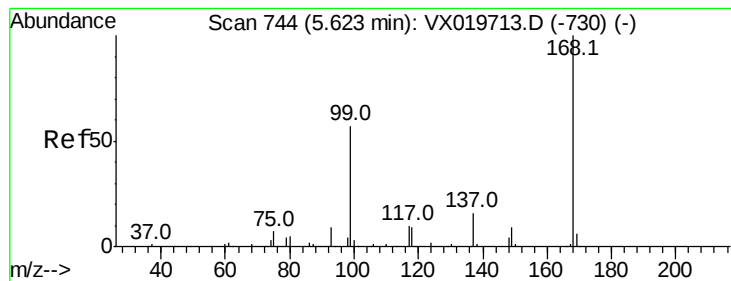
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 08 05:58:03 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 04 15:32:53 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: VX019752.D

Acq: 07 Dec 2020 15:08

Instrument :

MSVOA_X

ClientSampleId :

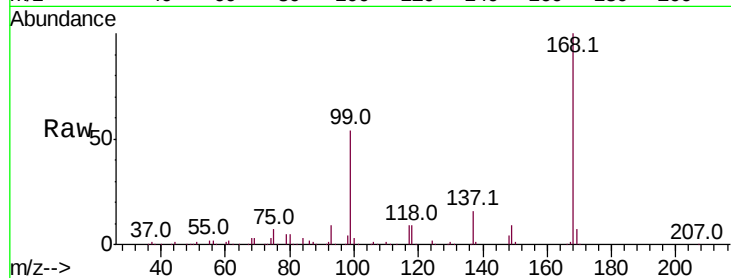
ID039-39MWE2D-120320

Tot Ion:168 Resp: 355898

Ion Ratio Lower Upper

168 100

99 54.4 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

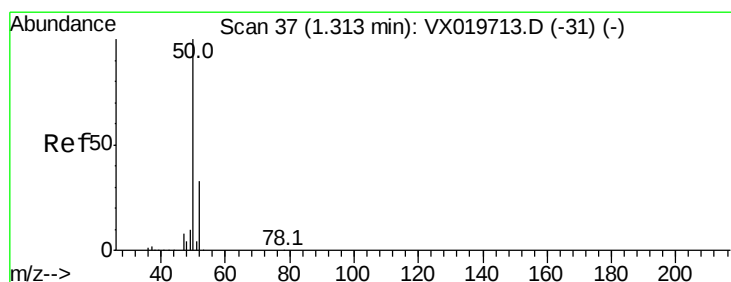
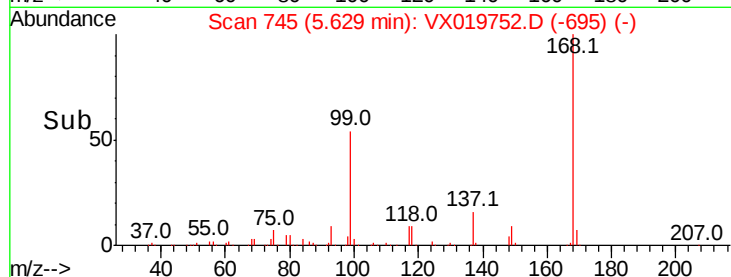
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 4.513 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX019752.D

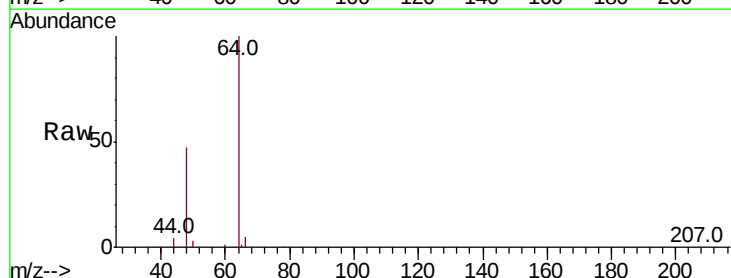
Acq: 07 Dec 2020 15:08

Tgt Ion: 50 Resp: 17293

Ion Ratio Lower Upper

50 100

52 6.6 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

4000

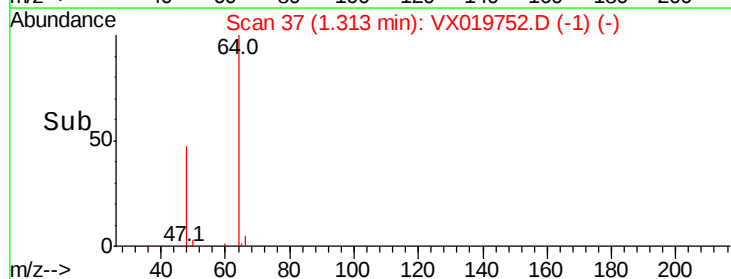
3000

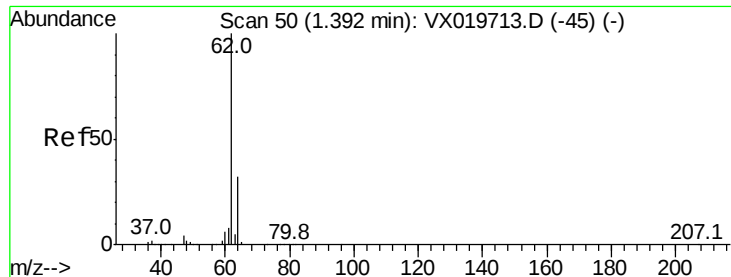
2000

1000

0

Time-->





#4

Vinyl Chloride

Concen: 1.936 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX019752.D

Acq: 07 Dec 2020 15:08

Instrument :

MSVOA_X

ClientSampleID :

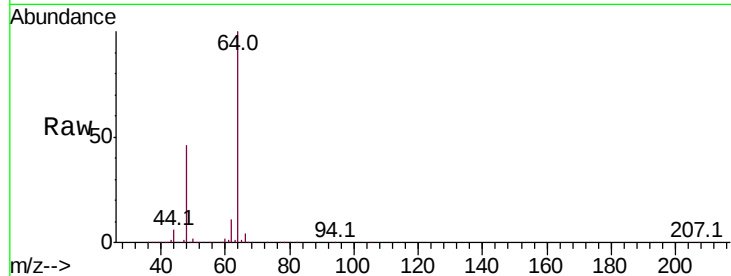
ID039-39MWE2D-120320

Tot Ion: 62 Resp: 7822

Ion Ratio Lower Upper

62 100

64 96.7 25.7 38.5#



Abundance Ion 61.90 (61.60 to 62.60): VX0

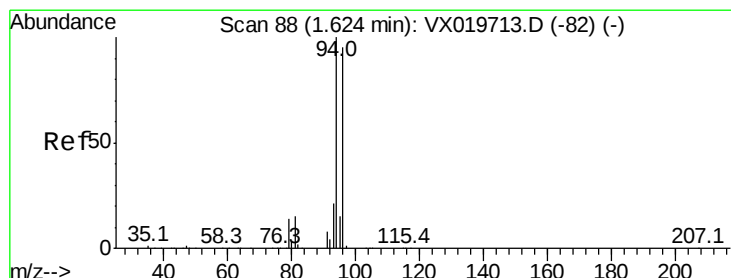
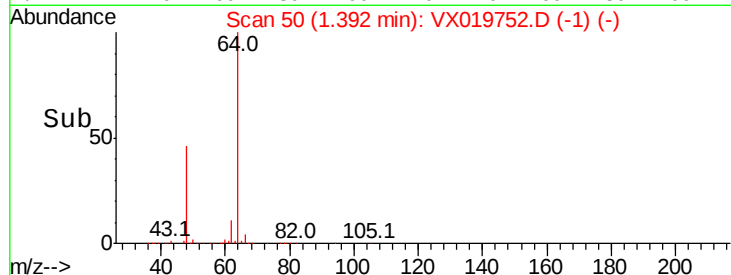
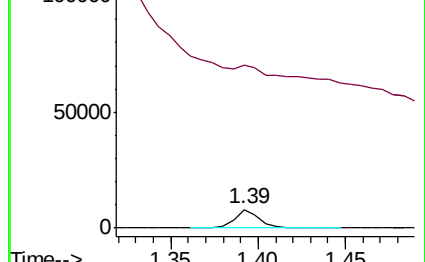
Ion 63.90 (63.60 to 64.60): VX0

100000

50000

0

1.35 1.40 1.45



#5

Bromomethane

Concen: 0.505 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019752.D

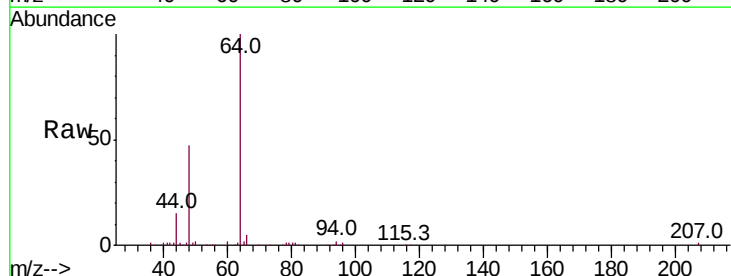
Acq: 07 Dec 2020 15:08

Tgt Ion: 94 Resp: 678

Ion Ratio Lower Upper

94 100

96 67.0 76.4 114.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

400

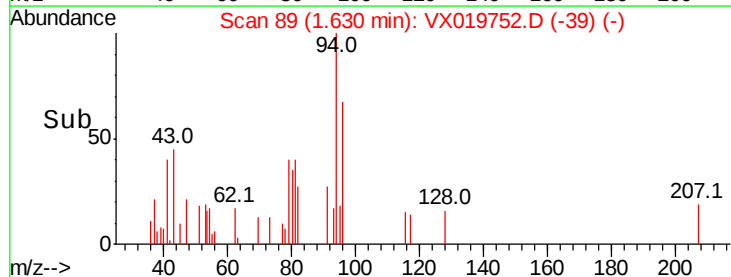
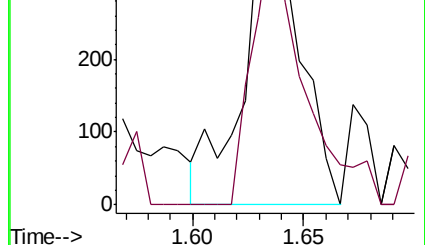
300

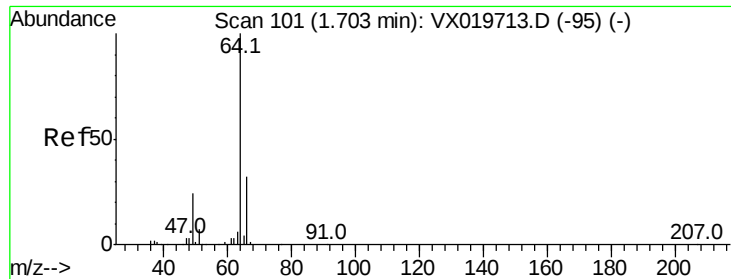
200

100

0

1.60 1.65





#6

Chloroethane

Concen: 8.682 ug/l

RT: 1.60 min Scan# 84

Delta R.T. -0.10 min

Lab File: VX019752.D

Acq: 07 Dec 2020 15:08

Instrument :

MSVOA_X

ClientSampleId :

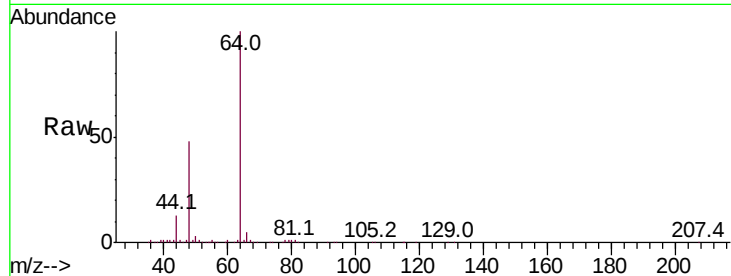
ID039-39MWE2D-120320

Tot Ion: 64 Resp: 21072

Ion Ratio Lower Upper

64 100

66 5.0 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

50000

40000

30000

20000

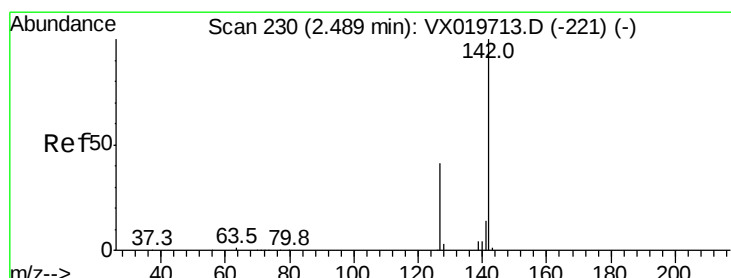
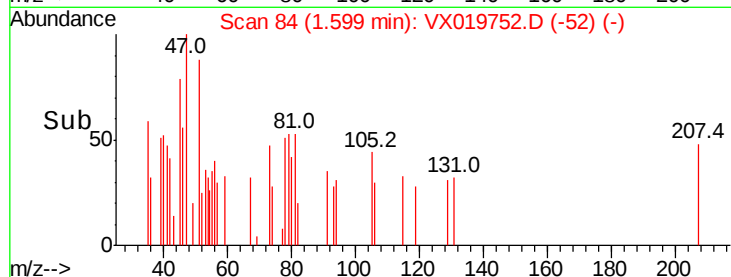
10000

0

1.60

1.70

Time-->



#10

Methyl Iodide

Concen: 0.393 ug/l

RT: 2.49 min Scan# 230

Delta R.T. -0.00 min

Lab File: VX019752.D

Acq: 07 Dec 2020 15:08

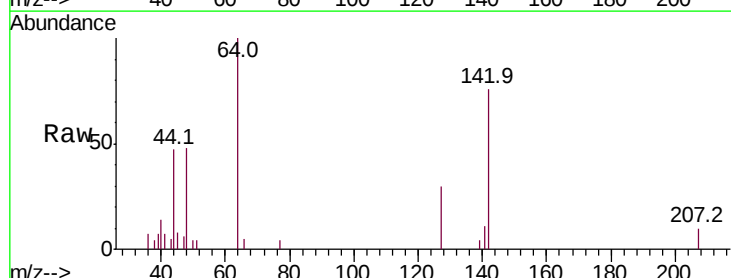
Tgt Ion: 142 Resp: 1868

Ion Ratio Lower Upper

142 100

127 40.3 33.3 49.9

141 13.7 11.4 17.0



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

1500

1000

500

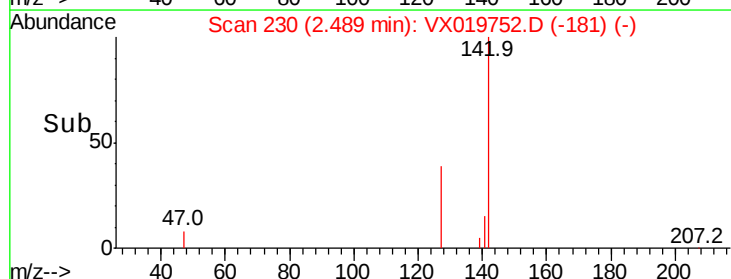
0

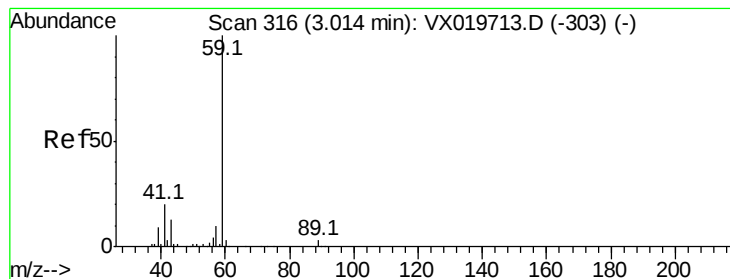
2.45

2.50

2.55

Time-->



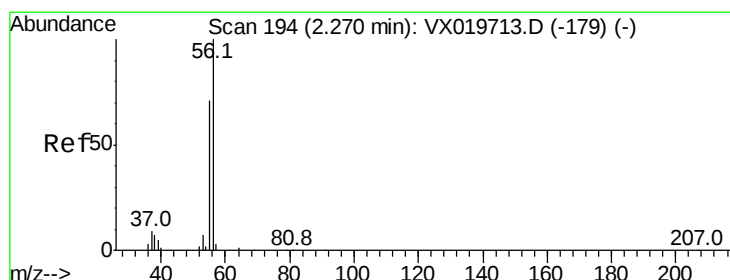
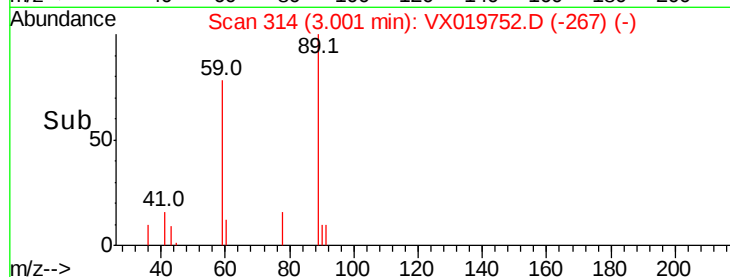
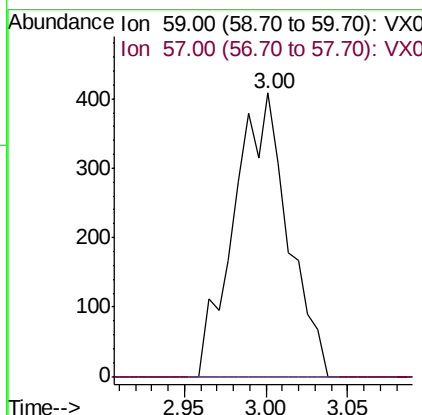
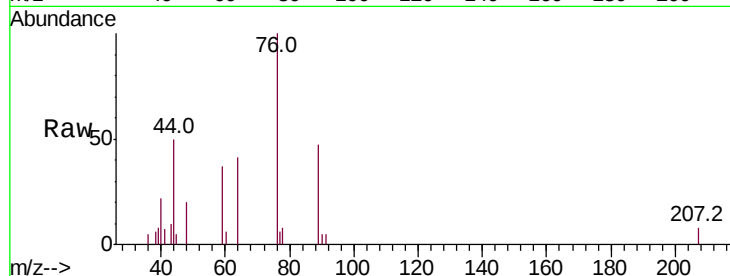


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 3.00 min Scan# 314
 Delta R.T. -0.01 min
 Lab File: VX019752.D
 Acq: 07 Dec 2020 15:08

Instrument :
 MSVOA_X
 ClientSampleId :
 ID039-39MWE2D-120320

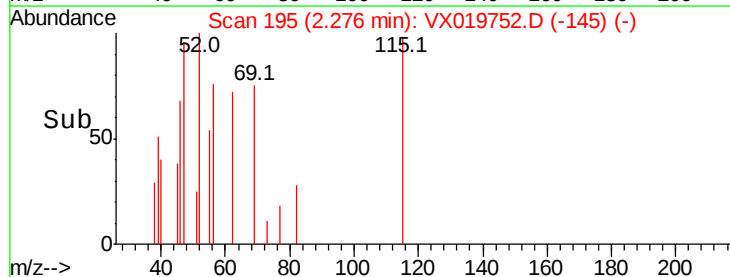
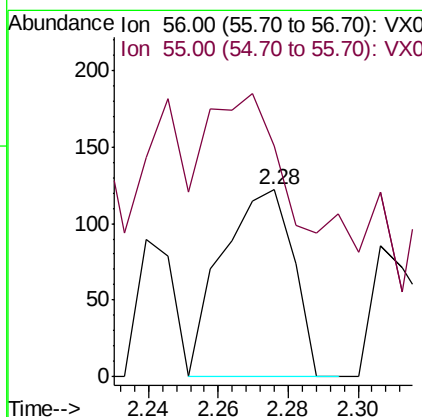
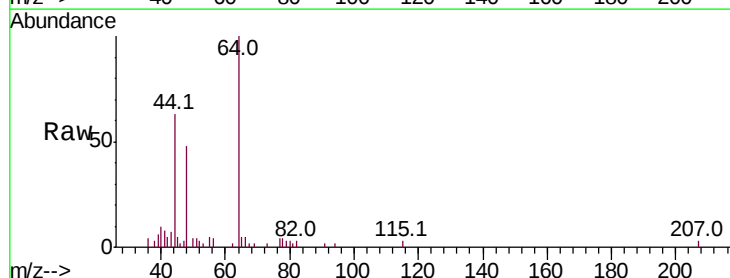
Tot Ion: 59 Resp: 940
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.8#

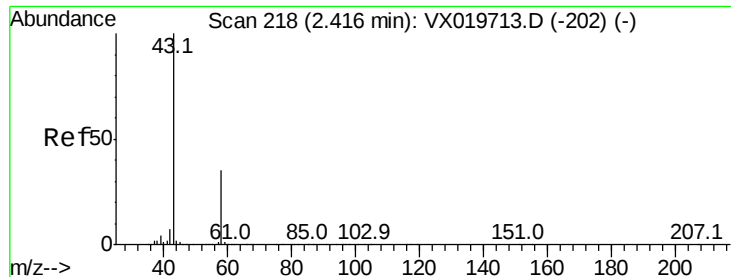


#13

Acrolein
 Concen: 0.333 ug/l
 RT: 2.28 min Scan# 195
 Delta R.T. 0.01 min
 Lab File: VX019752.D
 Acq: 07 Dec 2020 15:08

Tgt Ion: 56 Resp: 172
 Ion Ratio Lower Upper
 56 100
 55 0.0 56.4 84.6#





#16

Acetone

Concen: 1.786 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX019752.D

Acq: 07 Dec 2020 15:08

Instrument :

MSVOA_X

ClientSampleId :

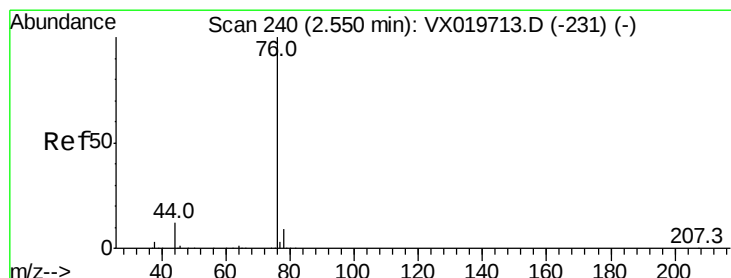
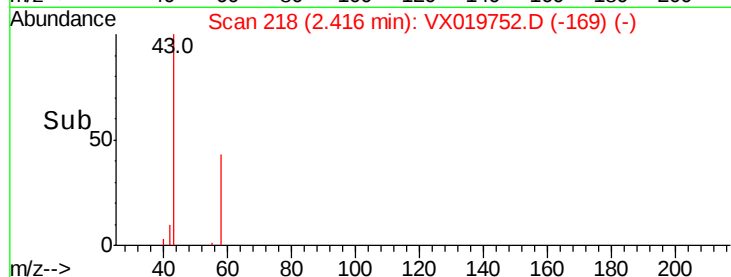
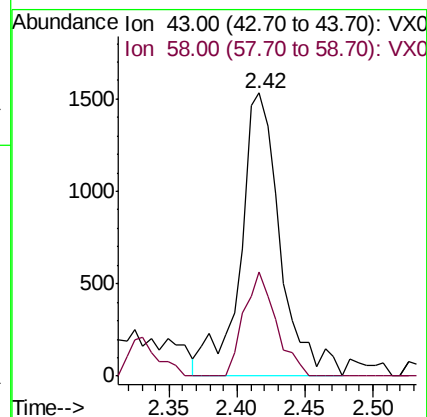
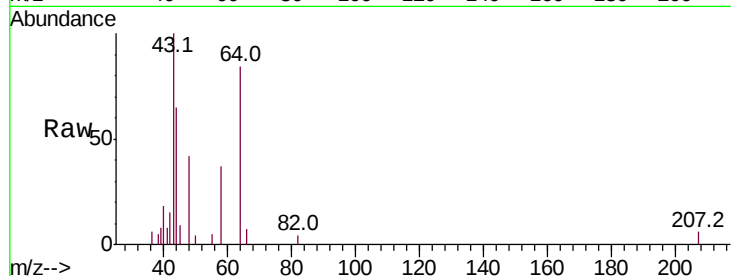
ID039-39MWE2D-120320

Tot Ion: 43 Resp: 3140

Ion Ratio Lower Upper

43 100

58 36.7 27.8 41.8



#17

Carbon Disulfide

Concen: 0.535 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.00 min

Lab File: VX019752.D

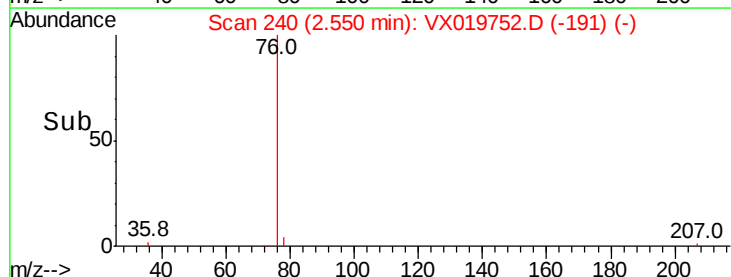
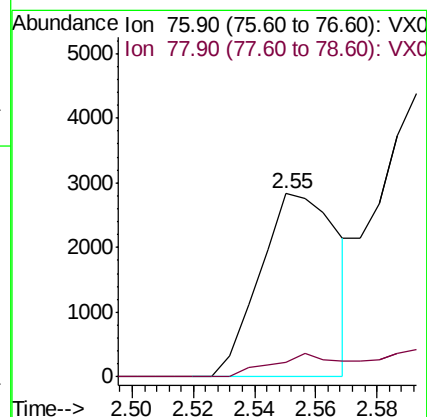
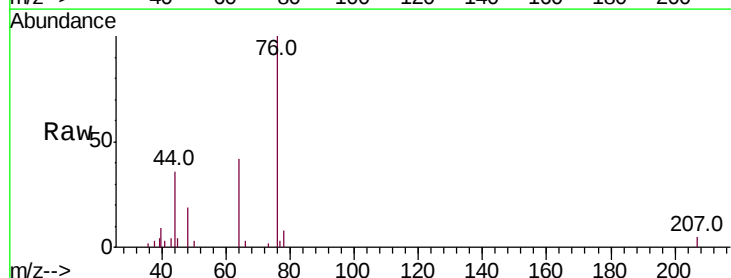
Acq: 07 Dec 2020 15:08

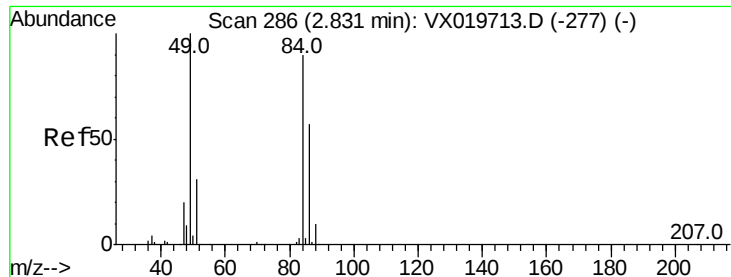
Tgt Ion: 76 Resp: 5001

Ion Ratio Lower Upper

76 100

78 8.3 7.2 10.8

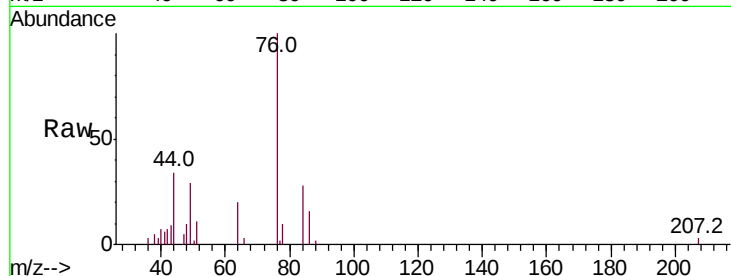




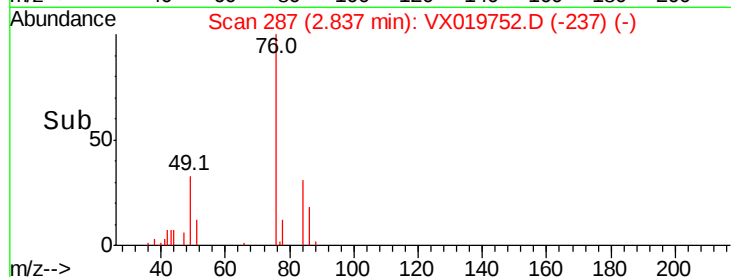
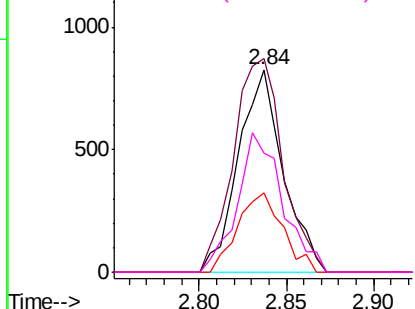
#20
Methvlene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX019752.D
Acq: 07 Dec 2020 15:08

Instrument :
MSVOA_X
ClientSampleId :
ID039-39MWE2D-120320

Tot Ion: 84 Resp: 1476
Ion Ratio Lower Upper
84 100
49 105.3 88.6 132.8
51 39.1 27.0 40.6
86 59.0 50.3 75.5

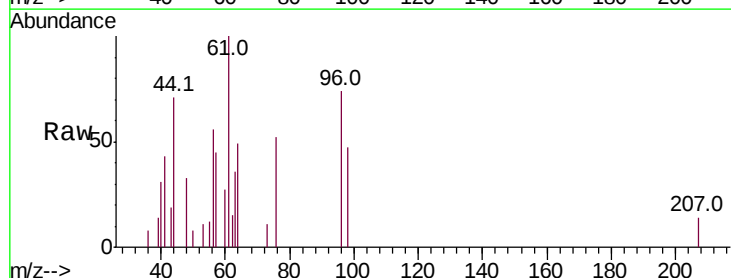
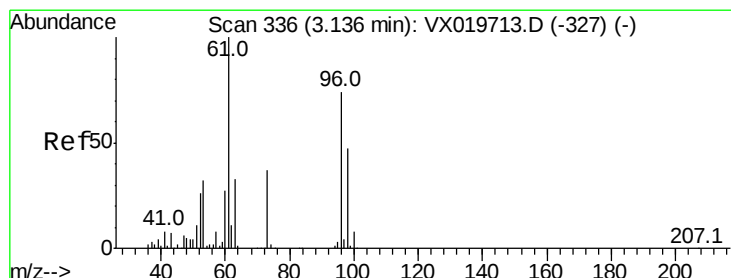


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

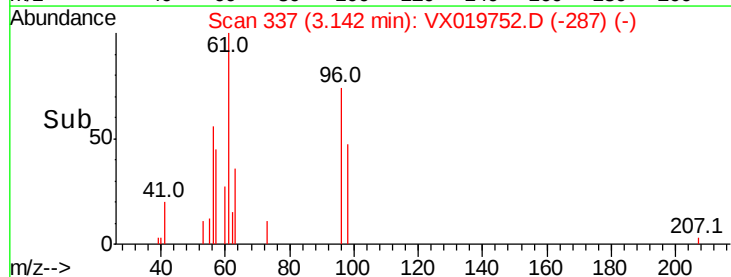
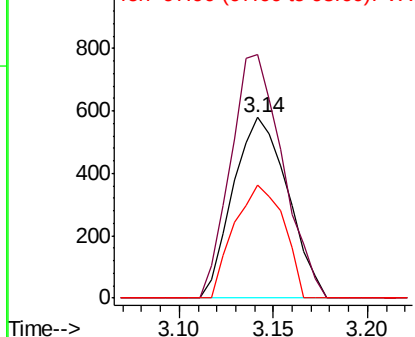


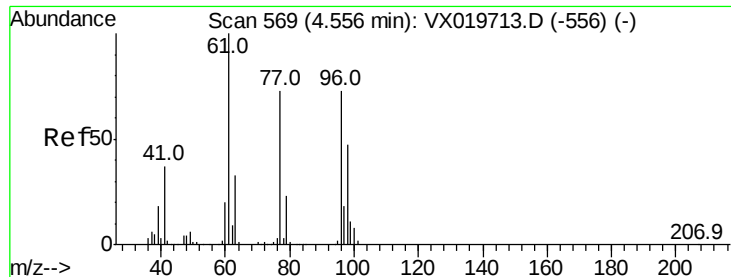
#21
trans-1,2-Dichloroethene
Concen: 0.307 ug/l
RT: 3.14 min Scan# 337
Delta R.T. 0.01 min
Lab File: VX019752.D
Acq: 07 Dec 2020 15:08

Tgt Ion: 96 Resp: 1167
Ion Ratio Lower Upper
96 100
61 134.9 107.7 161.5
98 62.9 50.4 75.6



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



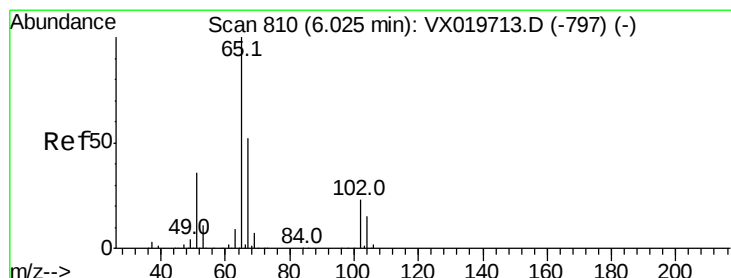
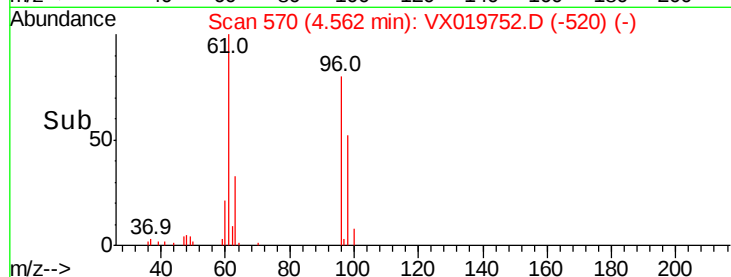
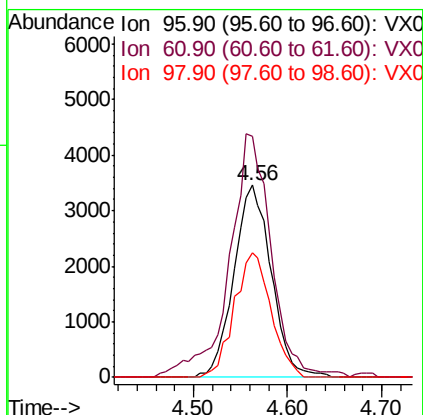
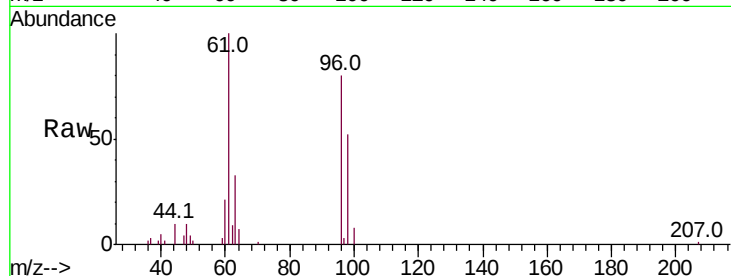


#27

cis-1,2-Dichloroethene
Concen: 2.163 ug/l
RT: 4.56 min Scan# 570
Delta R.T. 0.01 min
Lab File: VX019752.D
Acq: 07 Dec 2020 15:08

Instrument :
MSVOA_X
ClientSampleId :
ID039-39MWE2D-120320

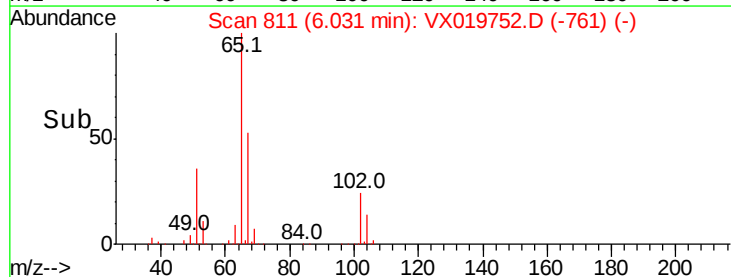
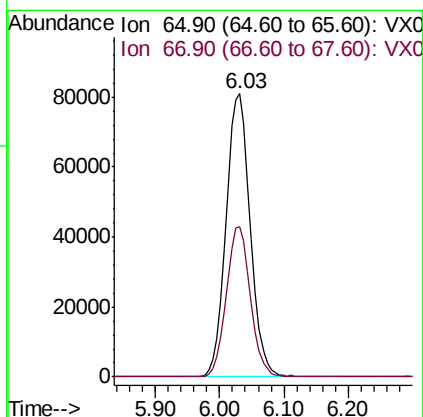
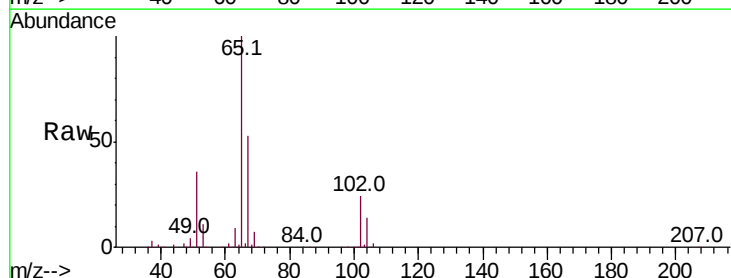
Tot Ion	96	Resp	9621
Ion	Ratio	Lower	Upper
96	100		
61	140.9	0.0	285.6
98	63.1	0.0	129.6

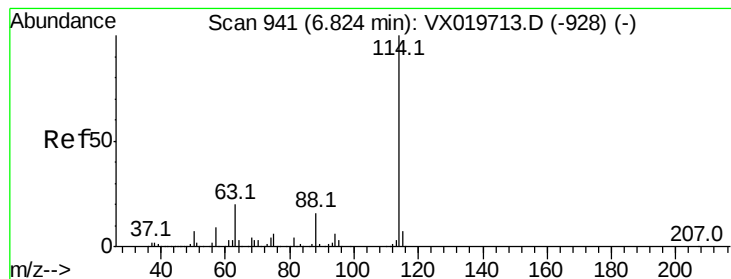


#33

1,2-Dichloroethane-d4
Concen: 45.832 ug/l
RT: 6.03 min Scan# 811
Delta R.T. 0.01 min
Lab File: VX019752.D
Acq: 07 Dec 2020 15:08

Tgt Ion	65	Resp	214383
Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	105.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.01 min

Lab File: VX019752.D

Acq: 07 Dec 2020 15:08

Instrument :

MSVOA_X

ClientSampleId :

ID039-39MWE2D-120320

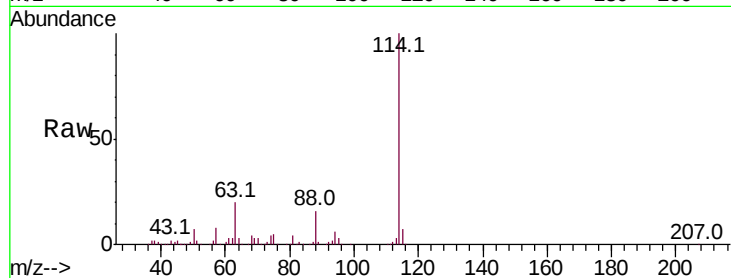
Tot Ion:114 Resp: 574773

Ion Ratio Lower Upper

114 100

63 19.7 0.0 40.8

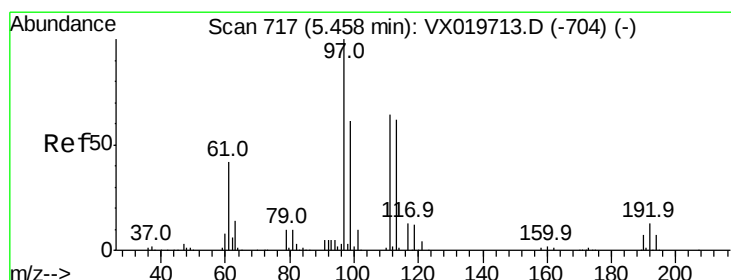
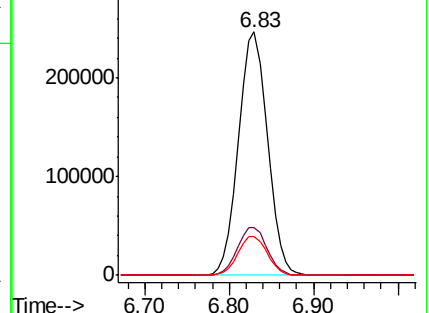
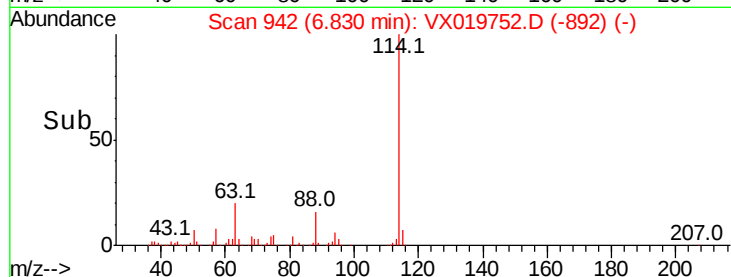
88 15.9 0.0 32.8



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: 46.966 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019752.D

Acq: 07 Dec 2020 15:08

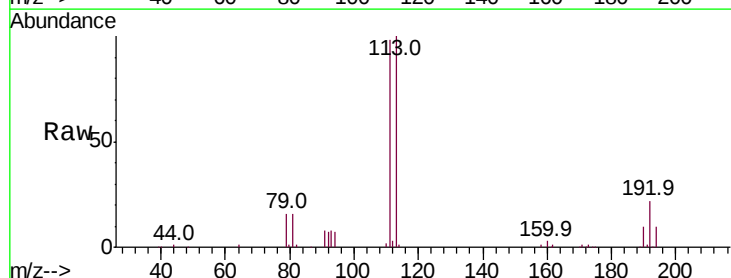
Tgt Ion:113 Resp: 174465

Ion Ratio Lower Upper

113 100

111 102.7 81.9 122.9

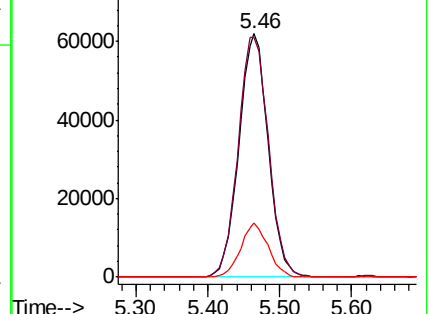
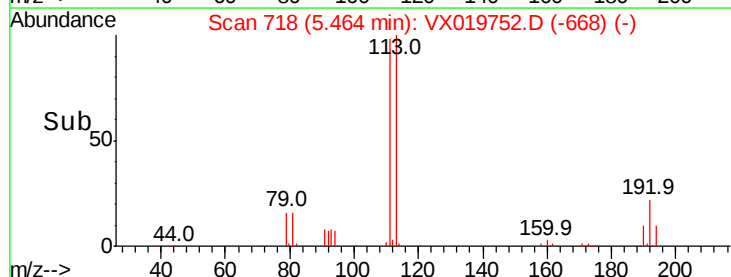
192 20.9 16.7 25.1

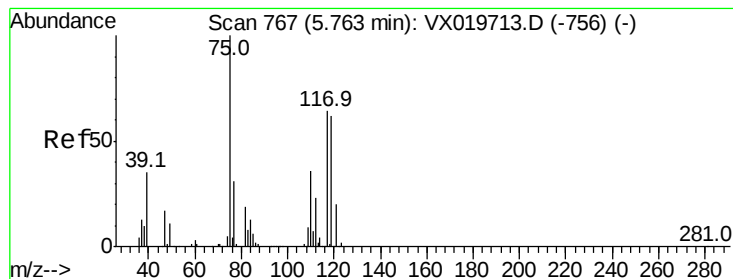


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.078 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX019752.D

Acq: 07 Dec 2020 15:08

Instrument :

MSVOA_X

ClientSampleId :

ID039-39MWE2D-120320

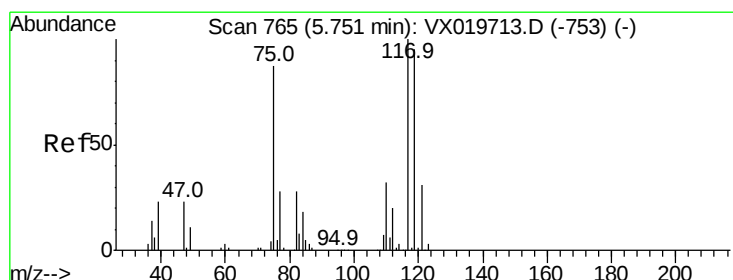
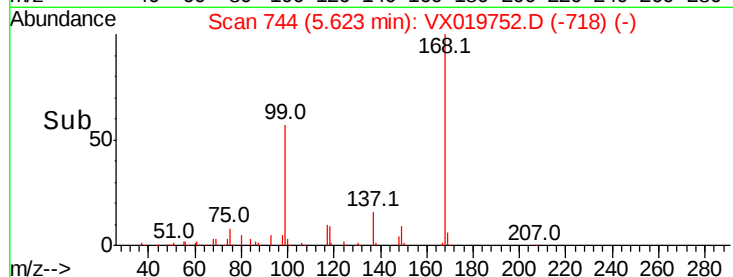
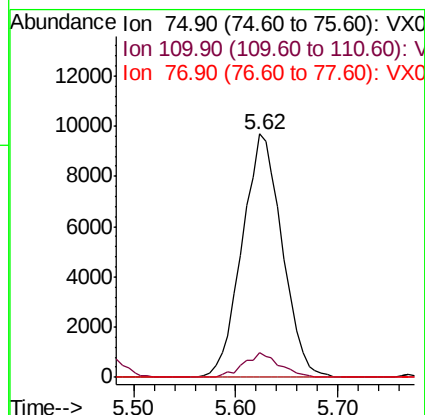
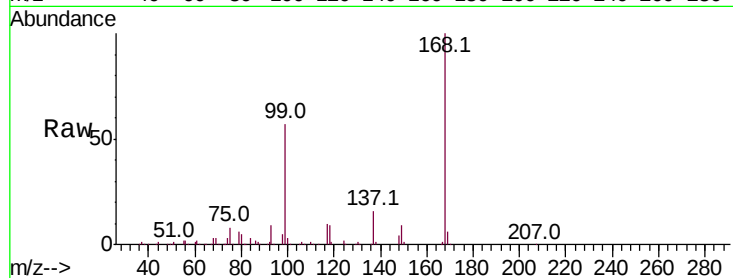
Tot Ion: 75 Resp: 26373

Ion Ratio Lower Upper

75 100

110 8.9 18.1 54.4#

77 0.0 25.3 37.9#



#38

Carbon Tetrachloride

Concen: 6.672 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX019752.D

Acq: 07 Dec 2020 15:08

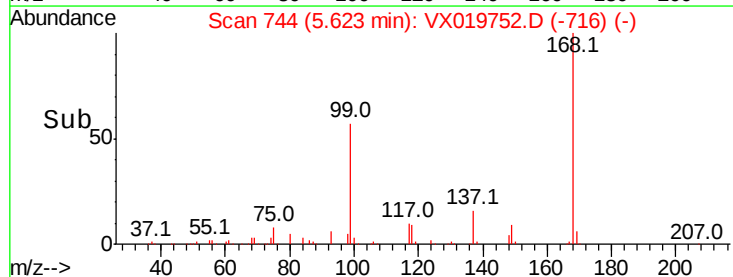
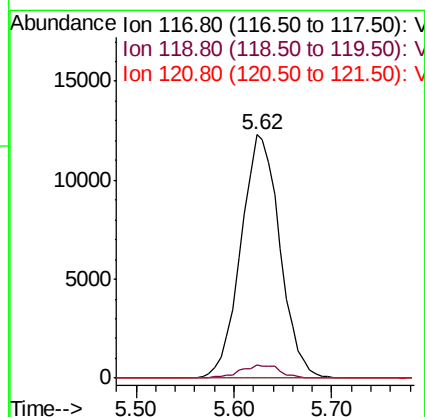
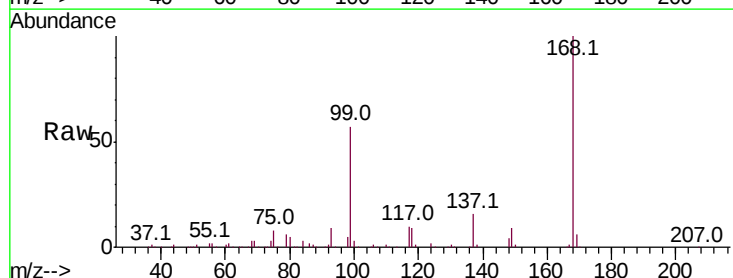
Tgt Ion: 117 Resp: 33933

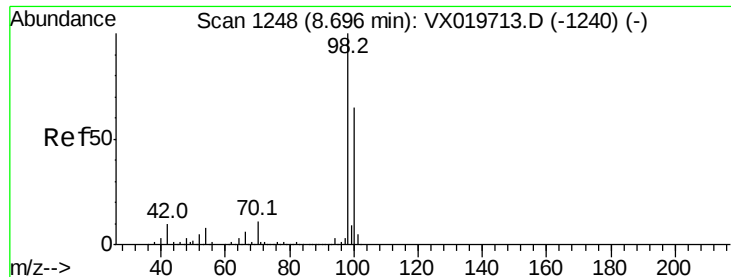
Ion Ratio Lower Upper

117 100

119 5.5 76.2 114.2#

121 0.0 24.8 37.2#





#50

Toluene-d8

Concen: 48.632 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019752.D

Acq: 07 Dec 2020 15:08

Instrument :

MSVOA_X

ClientSampleId :

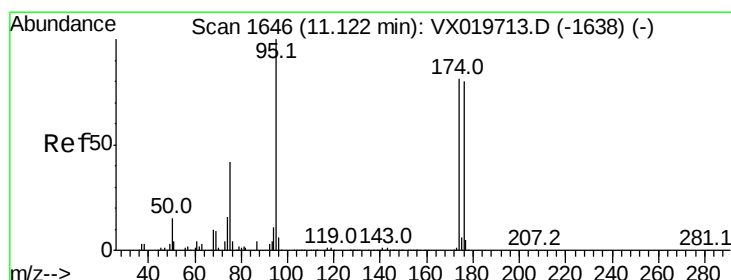
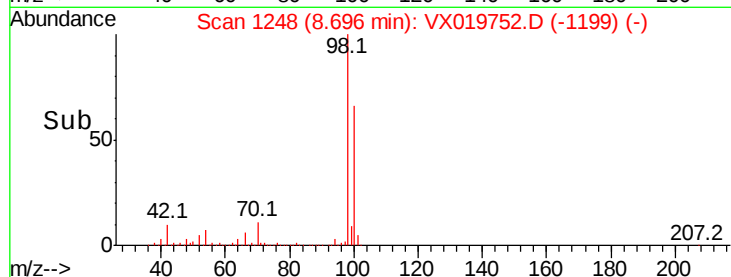
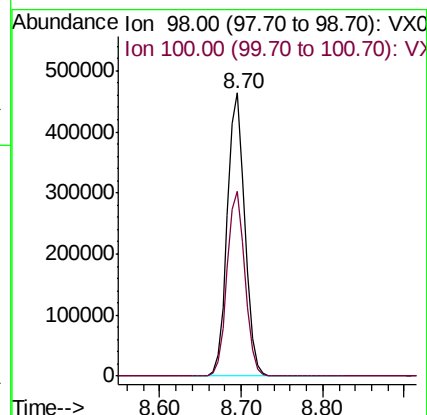
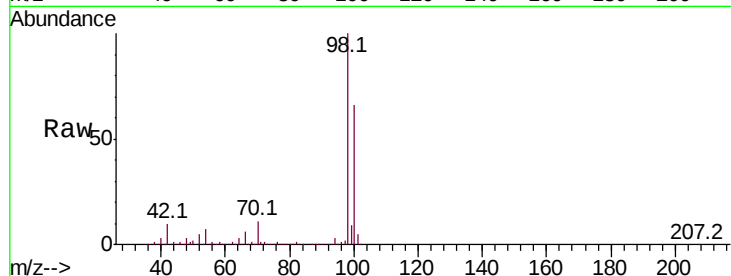
ID039-39MWE2D-120320

Tot Ion: 98 Resp: 689688

Ion Ratio Lower Upper

98 100

100 66.3 51.9 77.9



#62

4-Bromofluorobenzene

Concen: 45.711 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019752.D

Acq: 07 Dec 2020 15:08

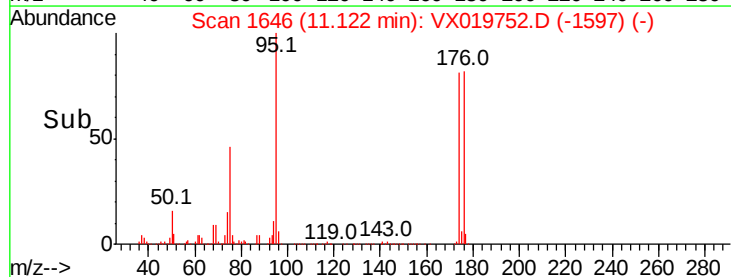
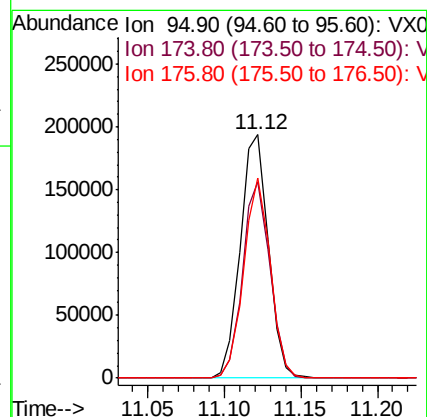
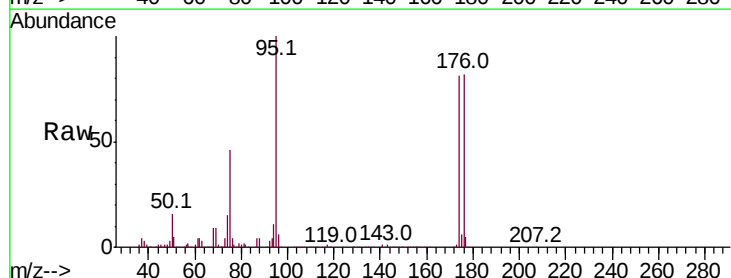
Tgt Ion: 95 Resp: 246735

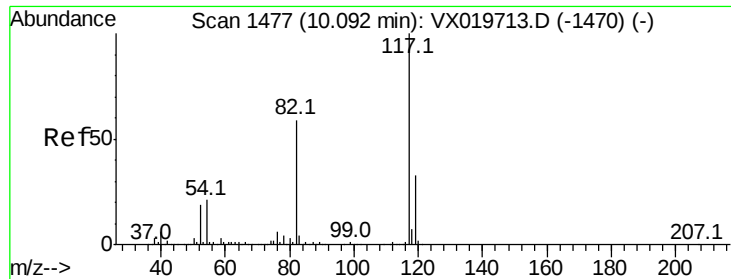
Ion Ratio Lower Upper

95 100

174 78.8 0.0 154.6

176 77.9 0.0 155.8

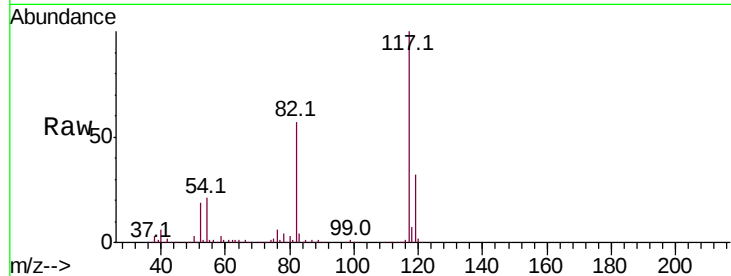




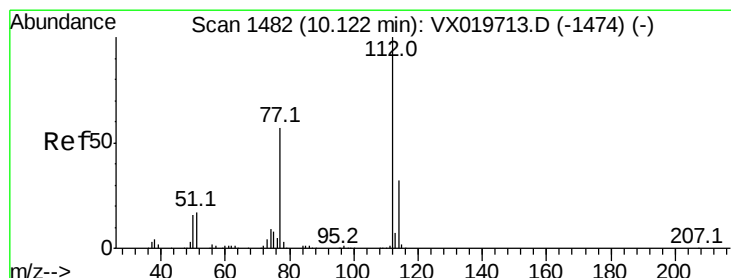
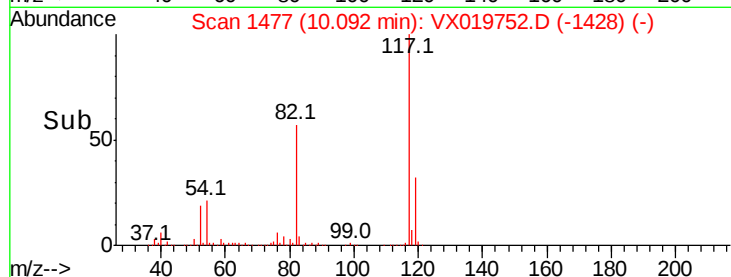
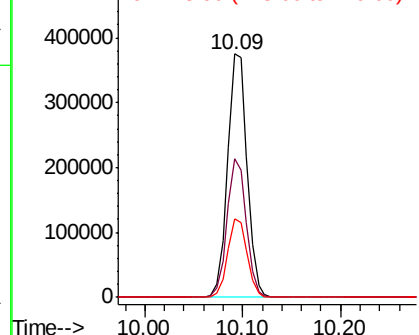
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.09 min Scan# 1477
Delta R.T. -0.00 min
Lab File: VX019752.D
Acq: 07 Dec 2020 15:08

Instrument :
MSVOA_X
ClientSampleId :
ID039-39MWE2D-120320

Tot Ion:117 Resp: 518130
Ion Ratio Lower Upper
117 100
82 57.0 47.4 71.2
119 32.4 26.6 39.8

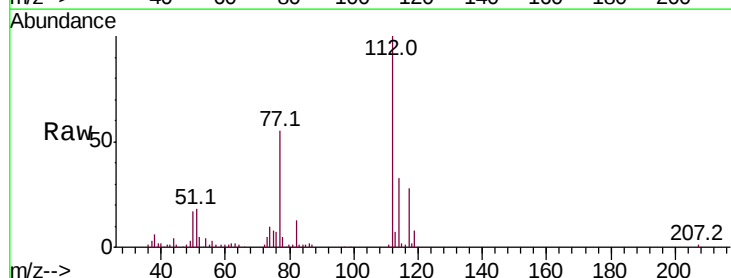


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

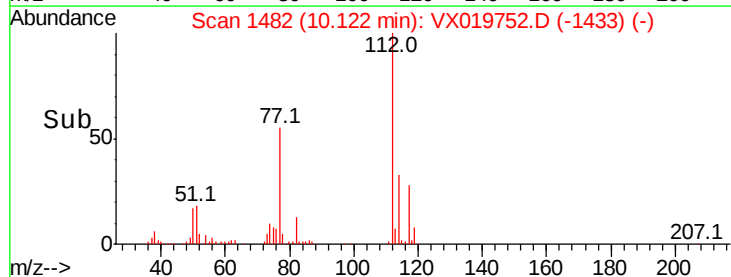
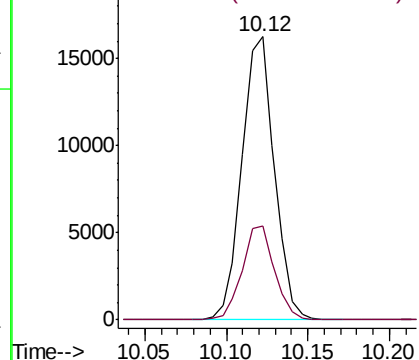


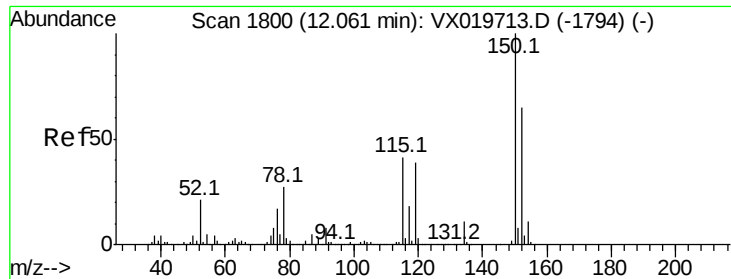
#65
Chlorobenzene
Concen: 2.185 ug/l
RT: 10.12 min Scan# 1482
Delta R.T. -0.00 min
Lab File: VX019752.D
Acq: 07 Dec 2020 15:08

Tgt Ion:112 Resp: 22560
Ion Ratio Lower Upper
112 100
114 33.4 25.8 38.6



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): 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: VX019752.D

Acq: 07 Dec 2020 15:08

Instrument :

MSVOA_X

ClientSampleId :

ID039-39MWE2D-120320

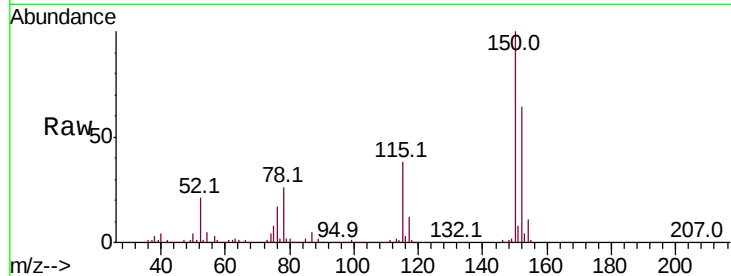
Tot Ion:152 Resp: 233140

Ion Ratio Lower Upper

152 100

115 59.2 41.1 123.3

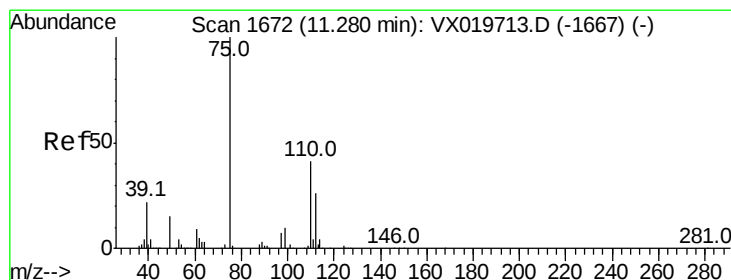
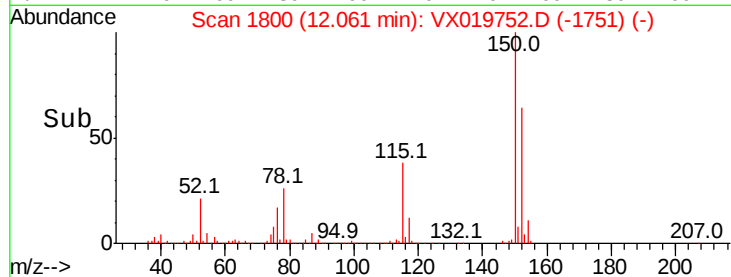
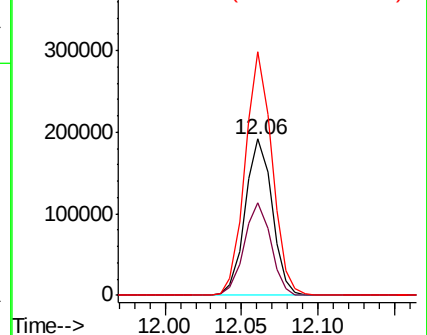
150 156.3 0.0 349.0



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: 22.936 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.16 min

Lab File: VX019752.D

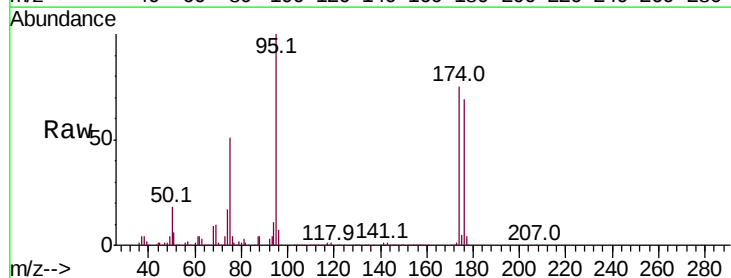
Acq: 07 Dec 2020 15:08

Tgt Ion: 75 Resp: 119931

Ion Ratio Lower Upper

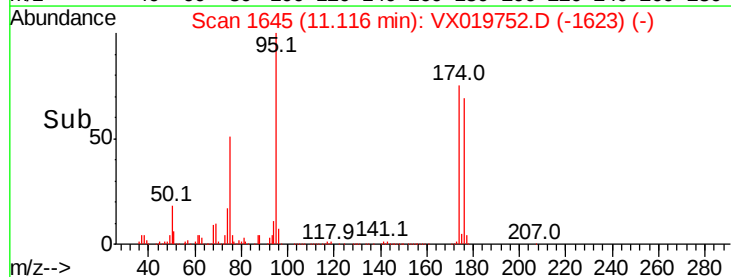
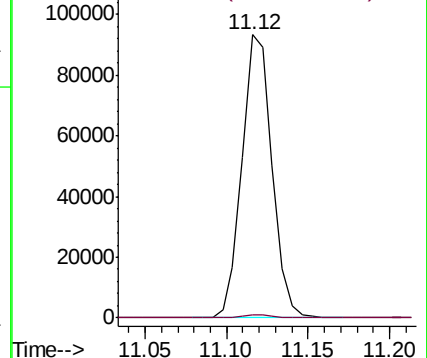
75 100

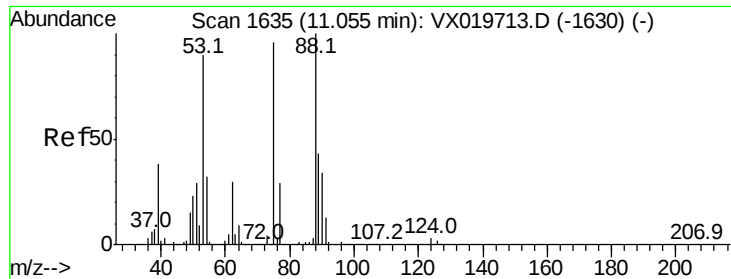
77 1.1 19.1 57.5#



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: 66.304 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. 0.06 min

Lab File: VX019752.D

Acq: 07 Dec 2020 15:08

Instrument :

MSVOA_X

ClientSampleId :

ID039-39MWE2D-120320

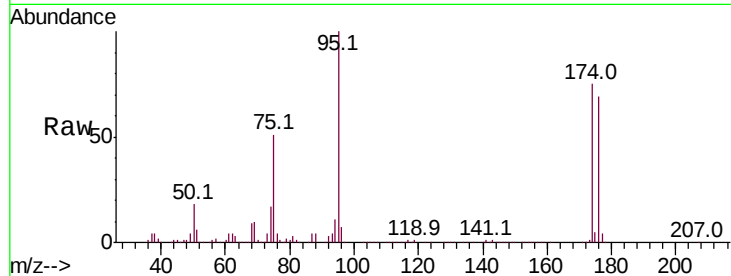
Tot Ion: 75 Resp: 119931

Ion Ratio Lower Upper

75 100

53 0.0 74.5 111.7#

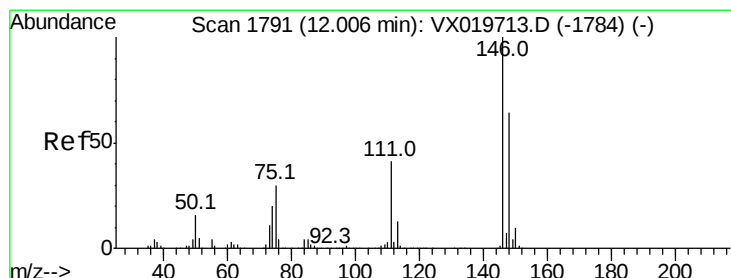
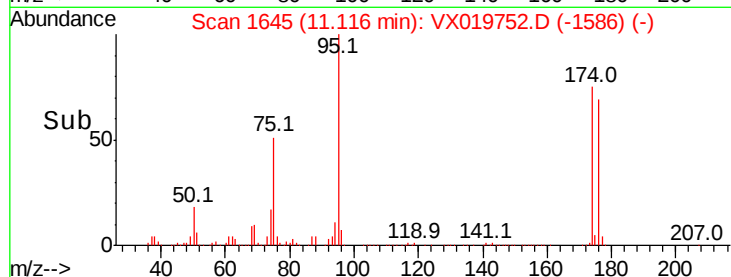
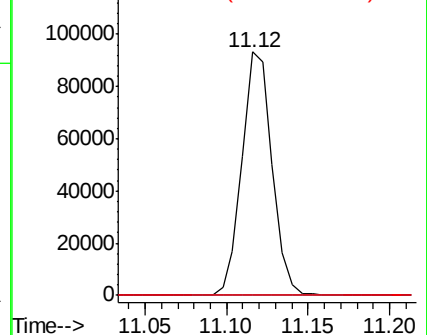
89 0.0 37.9 56.9#



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



#87

1,3-Dichlorobenzene

Concen: 0.609 ug/l

RT: 12.01 min Scan# 1791

Delta R.T. -0.00 min

Lab File: VX019752.D

Acq: 07 Dec 2020 15:08

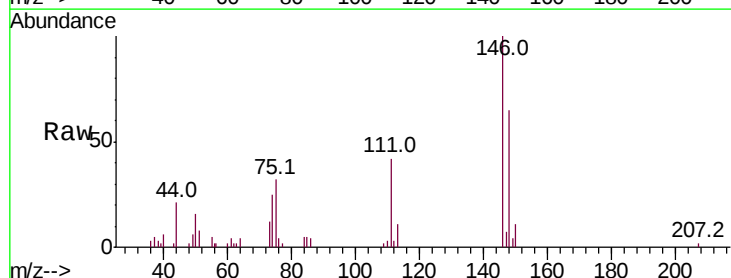
Tgt Ion: 146 Resp: 4559

Ion Ratio Lower Upper

146 100

111 38.8 20.2 60.5

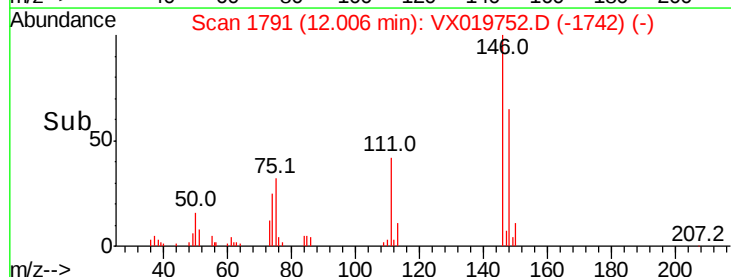
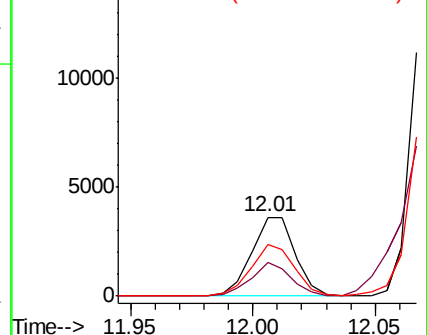
148 64.3 31.9 95.7

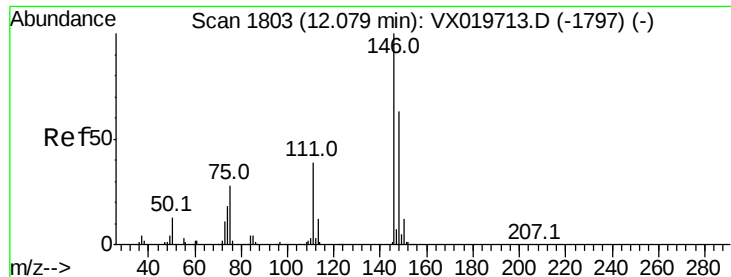


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

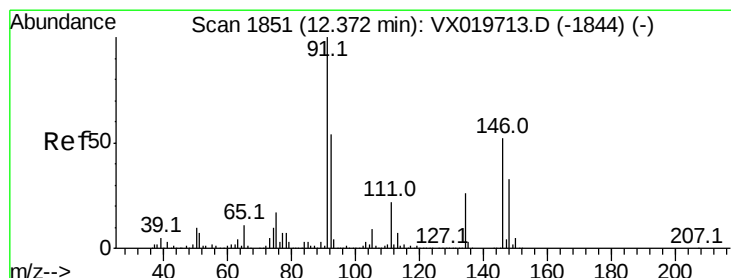
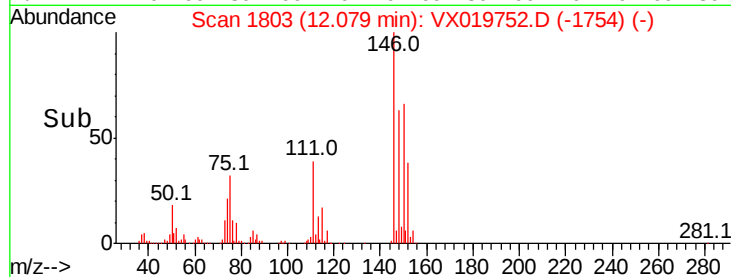
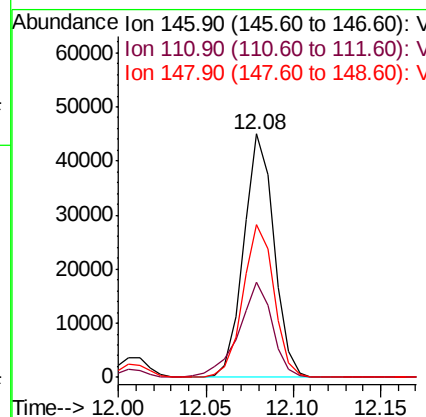
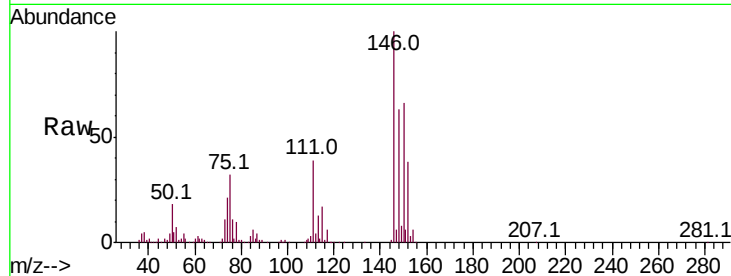




#88
 1,4-Dichlorobenzene
 Concen: 7.101 ug/l
 RT: 12.08 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VX019752.D
 Acq: 07 Dec 2020 15:08

Instrument :
 MSVOA_X
 ClientSampleId :
 ID039-39MWE2D-120320

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.0	19.6	58.8
148	64.2	31.6	95.0



#91
 1,2-Dichlorobenzene
 Concen: 5.749 ug/l
 RT: 12.37 min Scan# 1851
 Delta R.T. -0.00 min
 Lab File: VX019752.D
 Acq: 07 Dec 2020 15:08

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.8	20.8	62.2
148	63.6	31.9	95.5

