

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121720\
 Data File : VX020078.D
 Acq On : 16 Dec 2020 20:13
 Operator : JC/MD
 Sample : L5040-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-4

Quant Time: Dec 17 00:33:04 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	5.62	168	294820	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	490623	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	456748	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	201245	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	192614	49.71	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	99.42%	
35) Dibromofluoromethane		5.46	113	154615	48.76	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	97.52%	
50) Toluene-d8		8.70	98	601283	49.67	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	99.34%	
62) 4-Bromofluorobenzene		11.12	95	214252	46.50	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	93.00%	

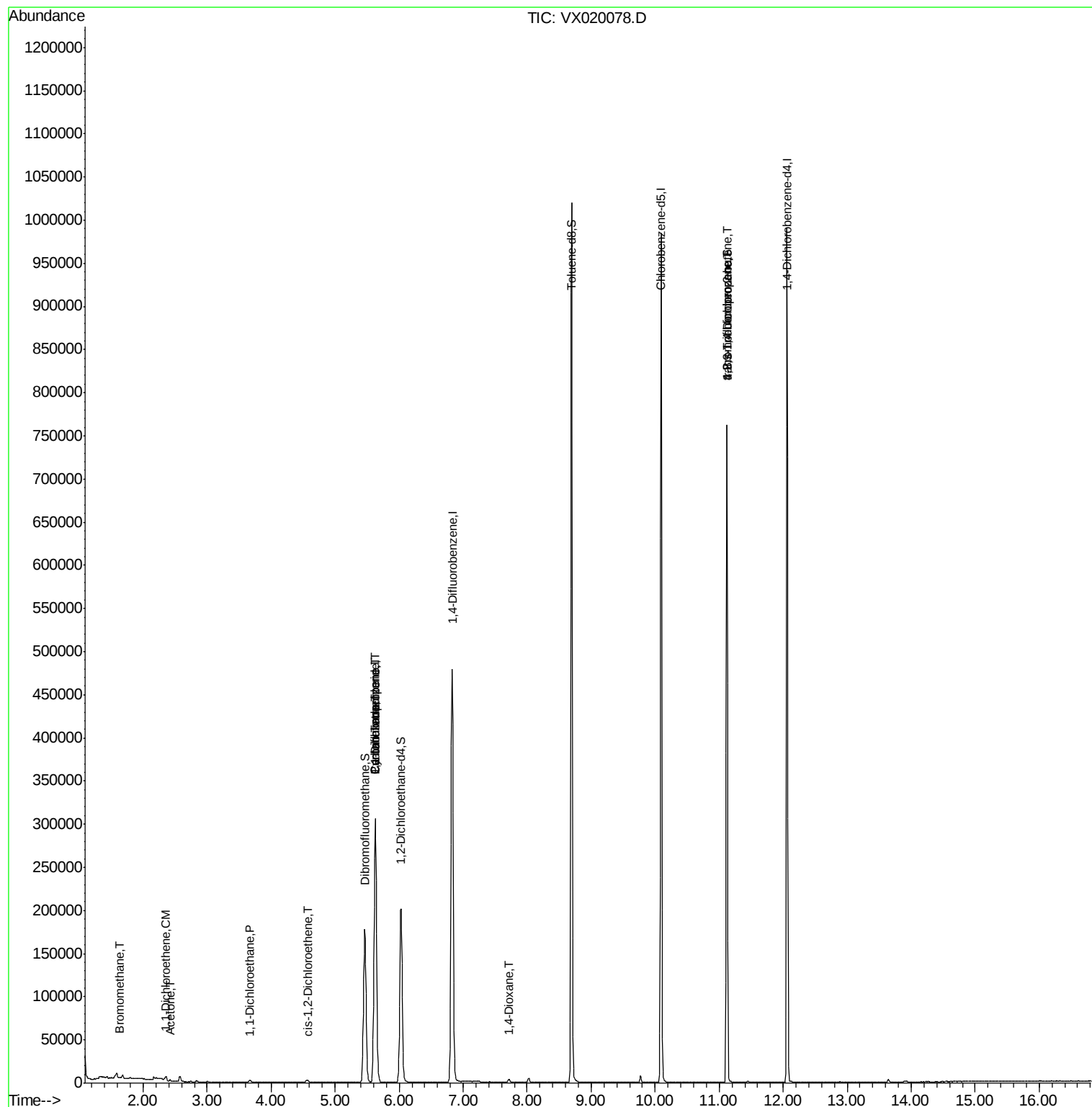
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	775	0.697	ug/l #	74
11) Tert butyl alcohol	3.00	59	477	Below Cal	#	73
12) 1,1-Dichloroethene	2.36	96	1577	0.584	ug/l #	79
16) Acetone	2.42	43	2159	1.482	ug/l #	79
20) Methylene Chloride	2.84	84	650	Below Cal	#	82
24) 1,1-Dichloroethane	3.67	63	2831	0.509	ug/l	96
27) cis-1,2-Dichloroethene	4.57	96	1599	0.434	ug/l	94
31) Cyclohexane	5.63	56	5588	1.159	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	22577	5.092	ug/l #	49
38) Carbon Tetrachloride	5.62	117	28489	6.562	ug/l #	16
49) 1,4-Dioxane	7.71	88	2492	28.741	ug/l	96
76) 1,2,3-Trichloropropane	11.12	75	103891	23.017	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	103891	66.539	ug/l #	12

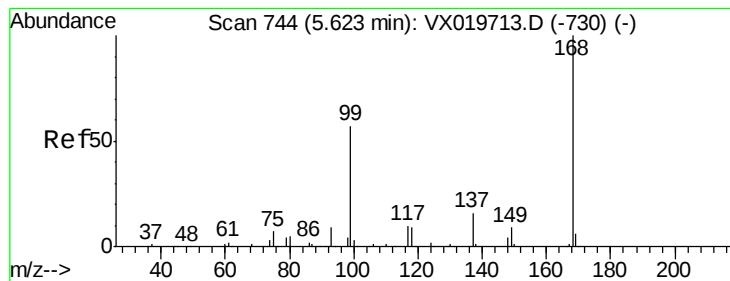
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Dec 04 15:32:53 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.00 min

Lab File: VX020078.D

Acq: 16 Dec 2020 20:13

Instrument :

MSVOA_X

ClientSampleId :

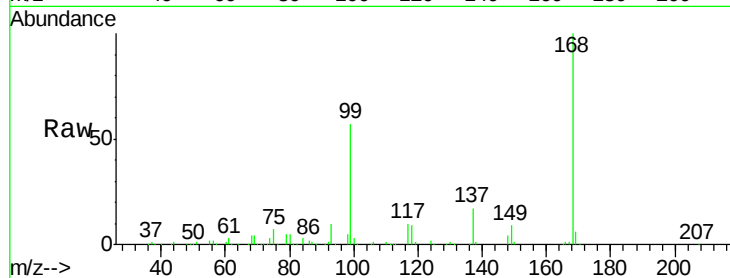
MW-4

Tgt Ion:168 Resp: 294820

Ion Ratio Lower Upper

168 100

99 56.8 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.62

120000

100000

80000

60000

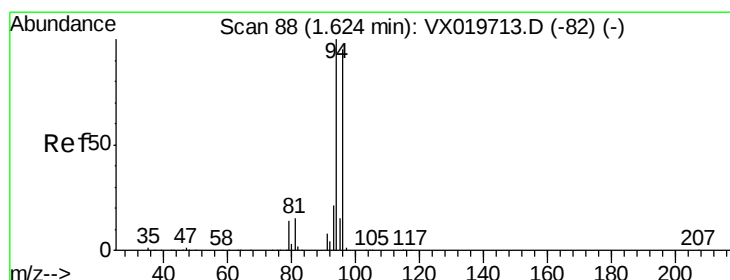
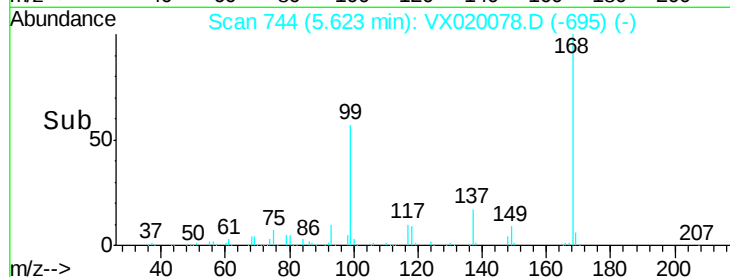
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.697 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX020078.D

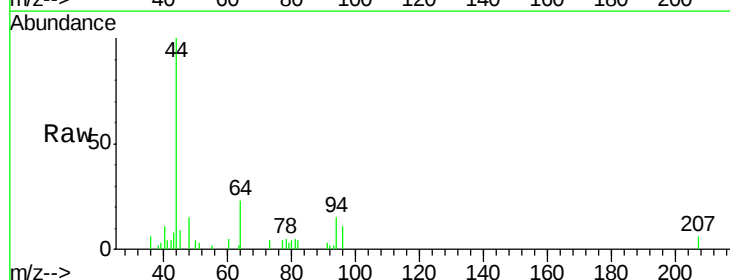
Acq: 16 Dec 2020 20:13

Tgt Ion: 94 Resp: 775

Ion Ratio Lower Upper

94 100

96 70.0 76.4 114.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

400

300

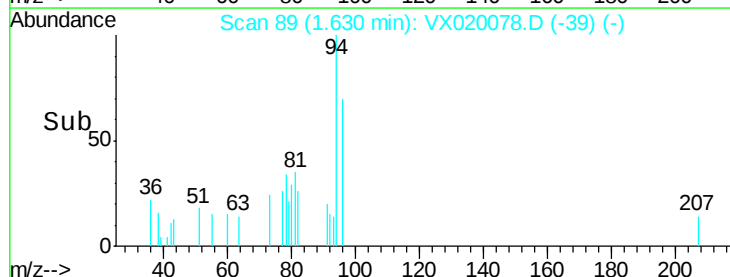
200

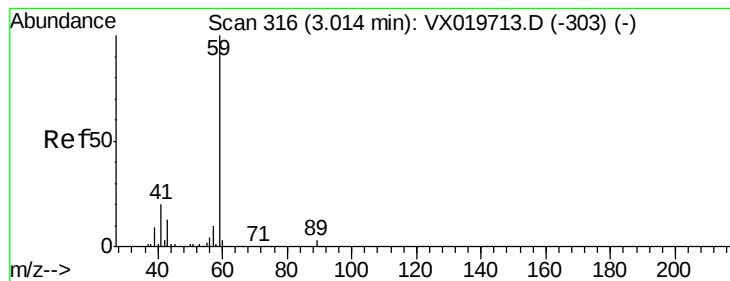
100

0

Time-->

1.60 1.65 1.70



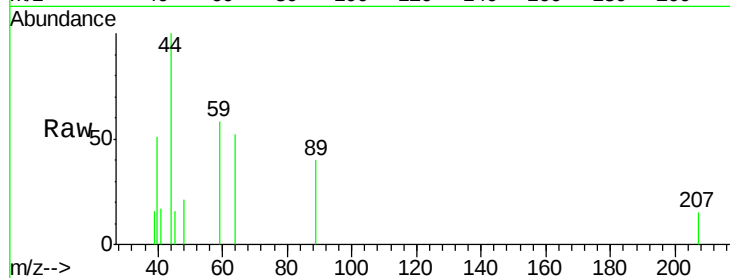


#11

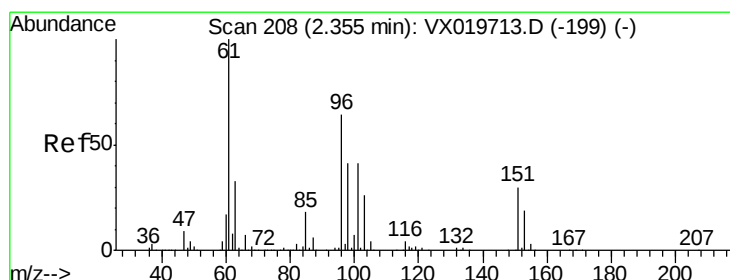
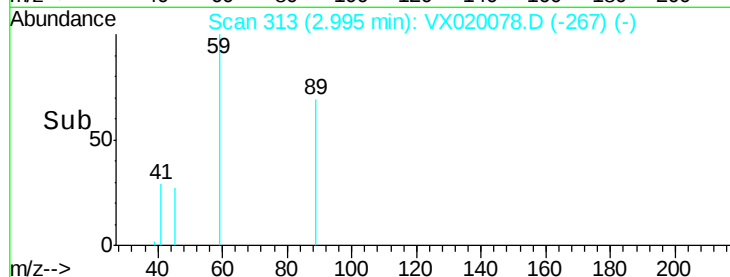
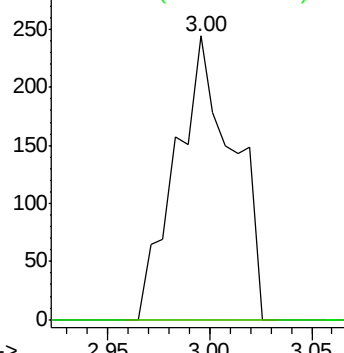
Tert butyl alcohol
 Concen: Below Cal
 RT: 3.00 min Scan# 313
 Delta R.T. -0.02 min
 Lab File: VX020078.D
 Acq: 16 Dec 2020 20:13

Instrument :
 MSVOA_X
 ClientSampled :
 MW-4

Tgt Ion: 59 Resp: 477
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.8#



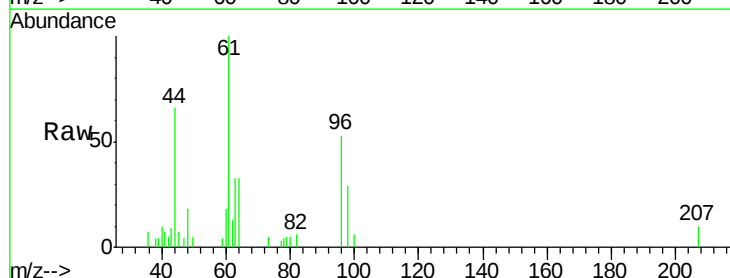
Abundance Ion 59.00 (58.70 to 59.70): VX0
 Ion 57.00 (56.70 to 57.70): VX0



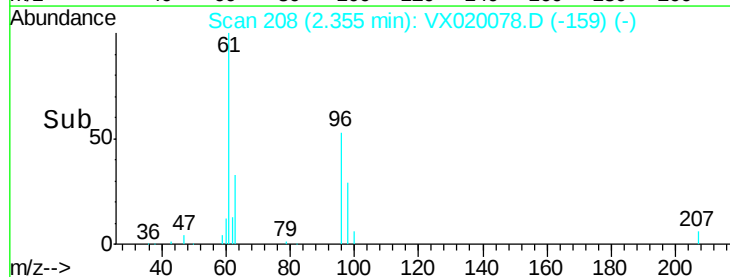
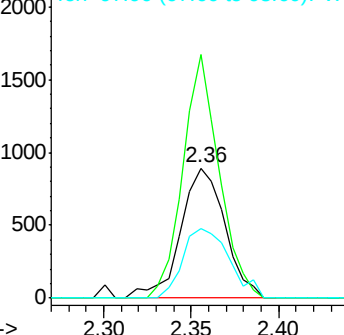
#12

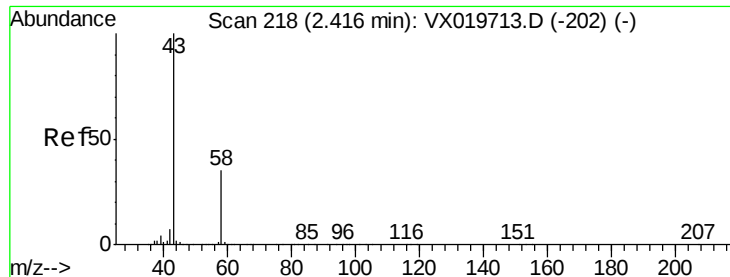
1,1-Dichloroethene
 Concen: 0.584 ug/l
 RT: 2.36 min Scan# 208
 Delta R.T. 0.00 min
 Lab File: VX020078.D
 Acq: 16 Dec 2020 20:13

Tgt Ion: 96 Resp: 1577
 Ion Ratio Lower Upper
 96 100
 61 187.0 124.6 187.0#
 98 53.9 50.6 76.0



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





#16

Acetone

Concen: 1.482 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.01 min

Lab File: VX020078.D

Acq: 16 Dec 2020 20:13

Instrument :

MSVOA_X

ClientSampled :

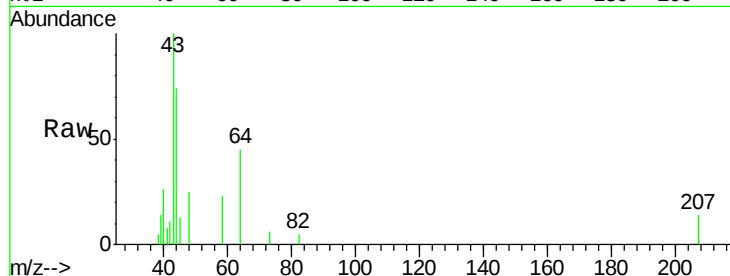
MW-4

Tgt Ion: 43 Resp: 2159

Ion Ratio Lower Upper

43 100

58 22.6 27.8 41.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

1200

1000

800

600

400

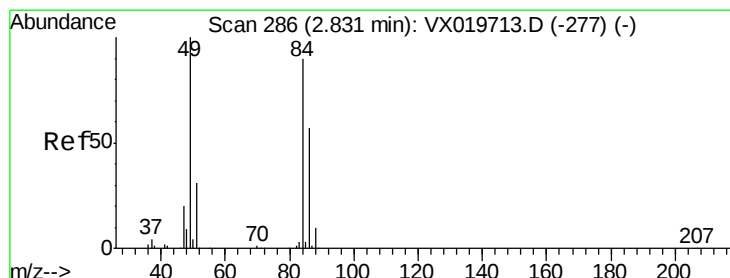
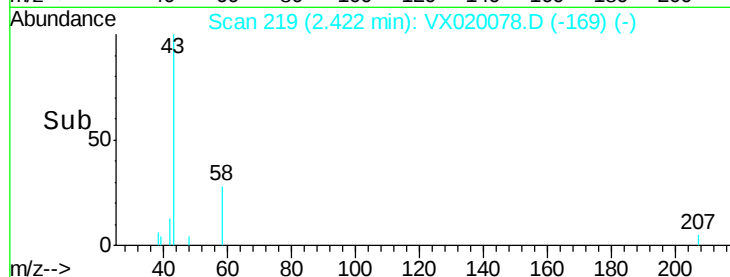
200

0

Time-->

2.35 2.40 2.45 2.50

2.42



#20

Methylene Chloride

Concen: Below Cal

RT: 2.84 min Scan# 287

Delta R.T. 0.01 min

Lab File: VX020078.D

Acq: 16 Dec 2020 20:13

Tgt Ion: 84 Resp: 650

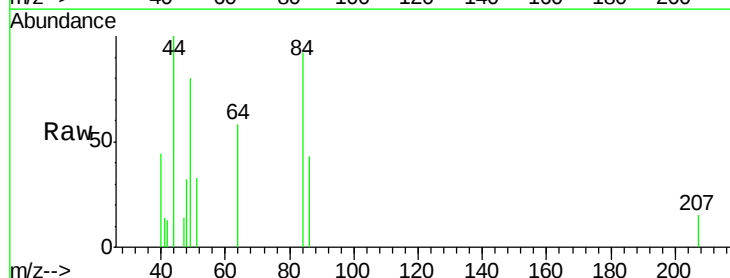
Ion Ratio Lower Upper

84 100

49 87.9 88.6 132.8#

51 36.0 27.0 40.6

86 47.3 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

600

400

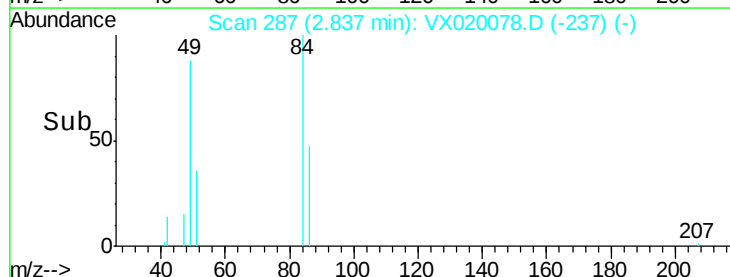
200

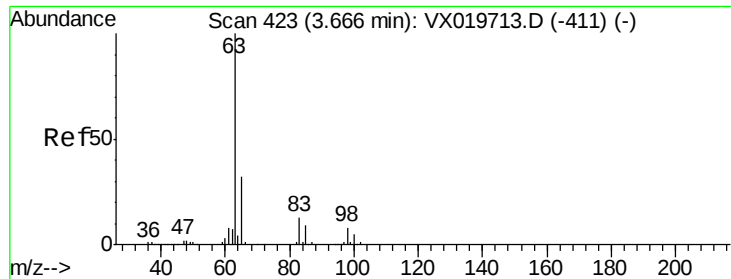
0

Time-->

2.80 2.85

2.84





#24

1,1-Dichloroethane

Concen: 0.509 ug/l

RT: 3.67 min Scan# 423

Delta R.T. 0.00 min

Lab File: VX020078.D

Acq: 16 Dec 2020 20:13

Instrument :

MSVOA_X

ClientSampled :

MW-4

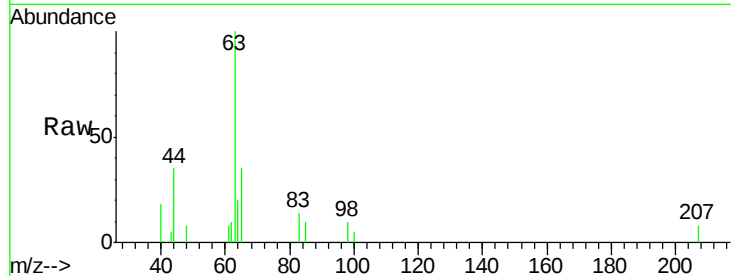
Tgt Ion: 63 Resp: 2831

Ion Ratio Lower Upper

63 100

98 9.9 3.8 11.2

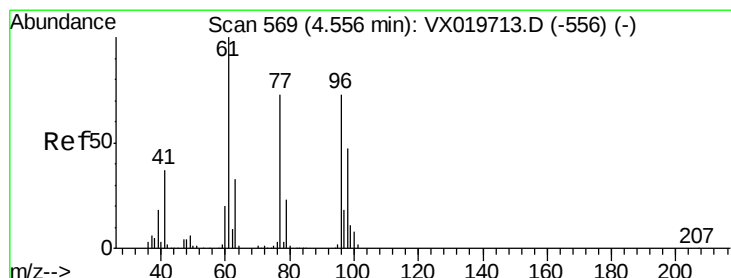
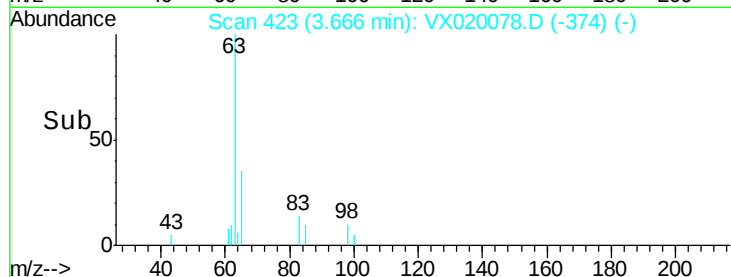
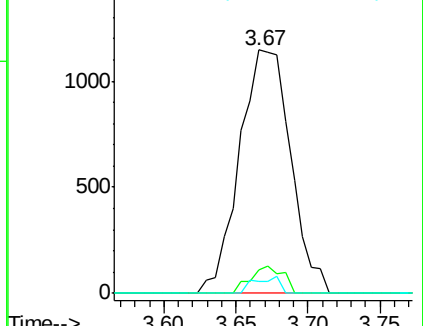
100 4.9 2.5 7.5



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



#27

cis-1,2-Dichloroethene

Concen: 0.434 ug/l

RT: 4.57 min Scan# 571

Delta R.T. 0.01 min

Lab File: VX020078.D

Acq: 16 Dec 2020 20:13

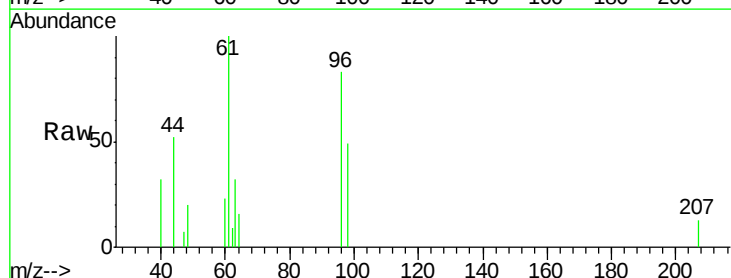
Tgt Ion: 96 Resp: 1599

Ion Ratio Lower Upper

96 100

61 133.9 0.0 285.6

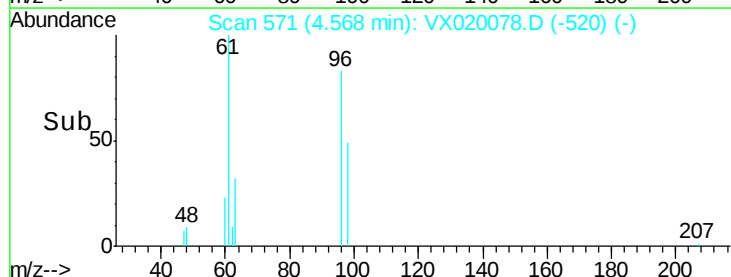
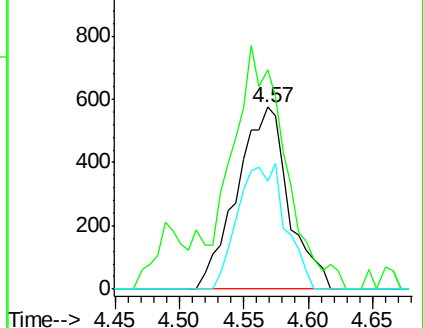
98 63.1 0.0 129.6

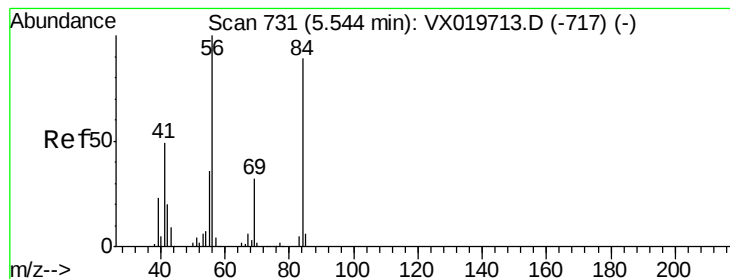


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#31

Cyclohexane

Concen: 1.159 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.09 min

Lab File: VX020078.D

Acq: 16 Dec 2020 20:13

Instrument :

MSVOA_X

ClientSampled :

MW-4

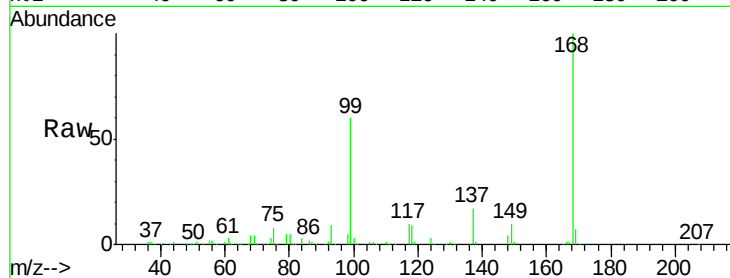
Tgt Ion: 56 Resp: 5588

Ion Ratio Lower Upper

56 100

69 202.9 25.3 37.9#

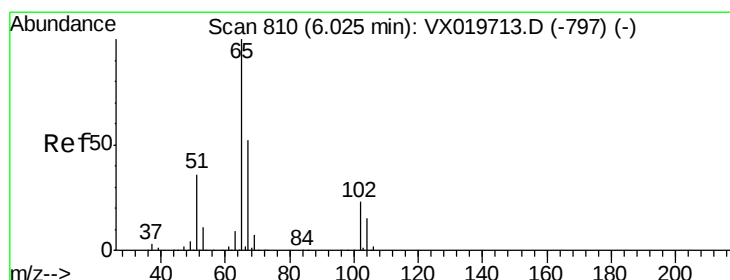
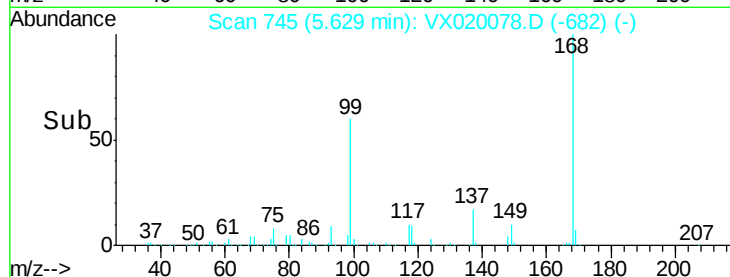
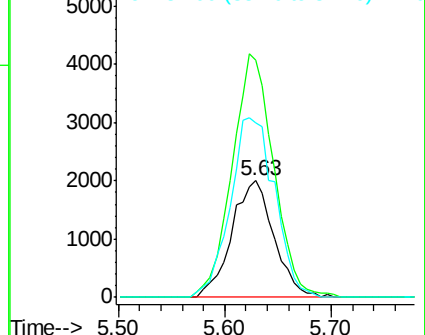
84 149.9 71.4 107.0#



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: 49.709 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.01 min

Lab File: VX020078.D

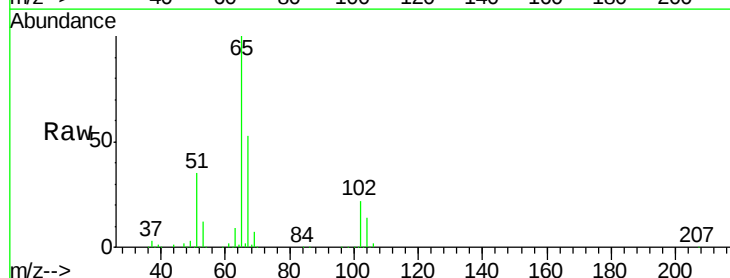
Acq: 16 Dec 2020 20:13

Tgt Ion: 65 Resp: 192614

Ion Ratio Lower Upper

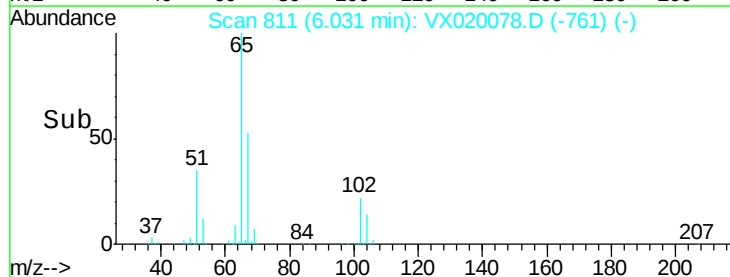
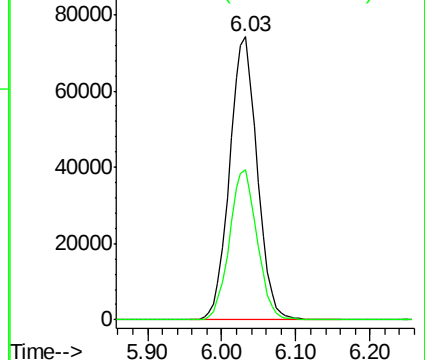
65 100

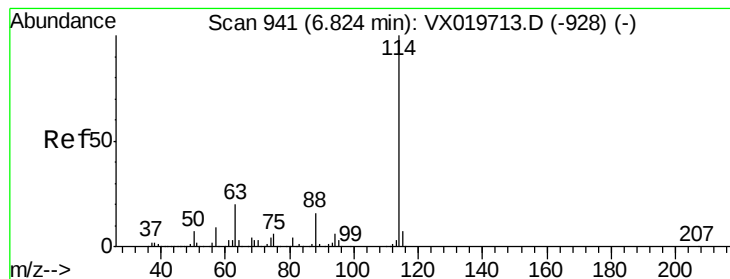
67 53.3 0.0 105.4



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. 0.01 min

Lab File: VX020078.D

Acq: 16 Dec 2020 20:13

Instrument :

MSVOA_X

ClientSampled :

MW-4

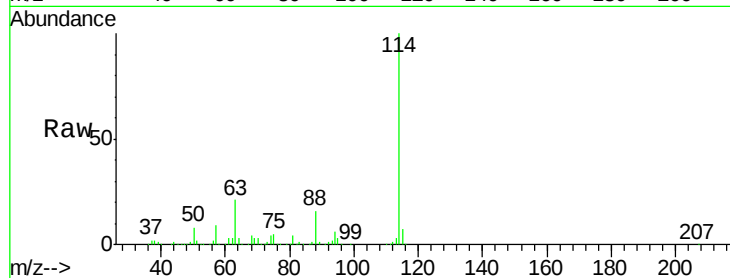
Tgt Ion:114 Resp: 490623

Ion Ratio Lower Upper

114 100

63 21.1 0.0 40.8

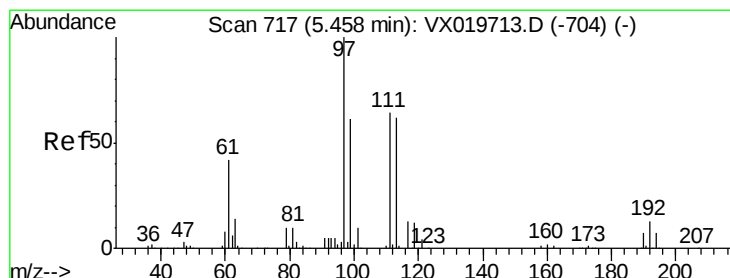
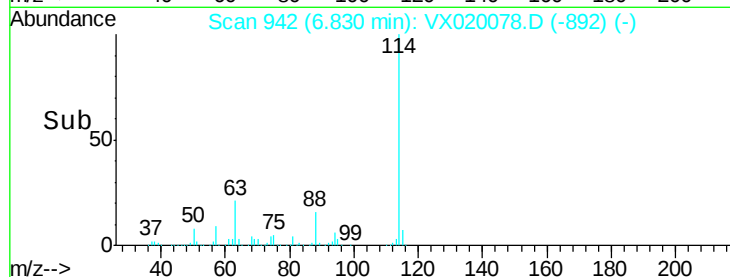
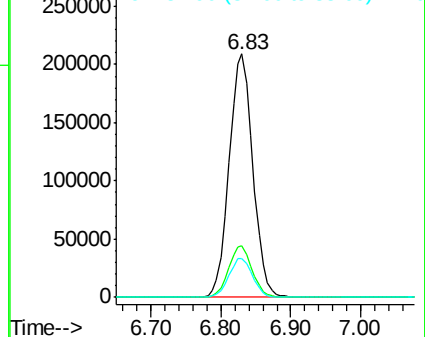
88 16.2 0.0 32.8



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: 48.762 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX020078.D

Acq: 16 Dec 2020 20:13

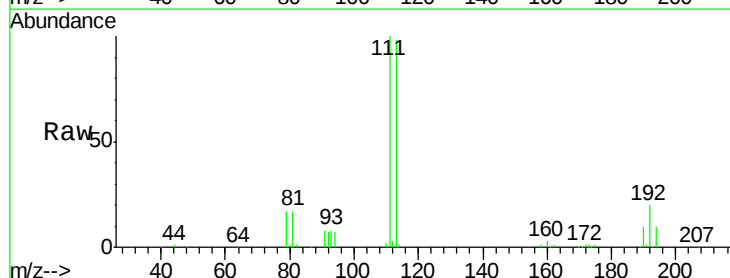
Tgt Ion:113 Resp: 154615

Ion Ratio Lower Upper

113 100

111 102.7 81.9 122.9

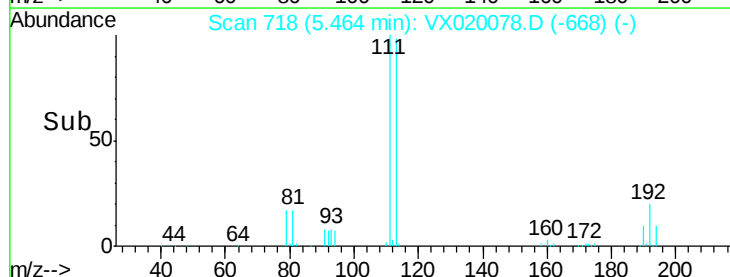
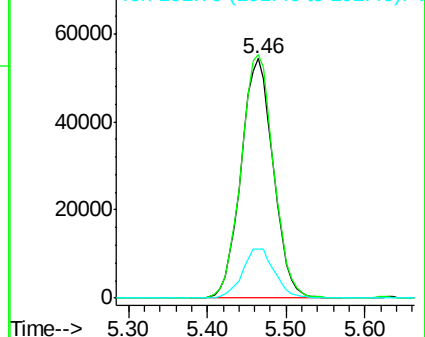
192 20.5 16.7 25.1

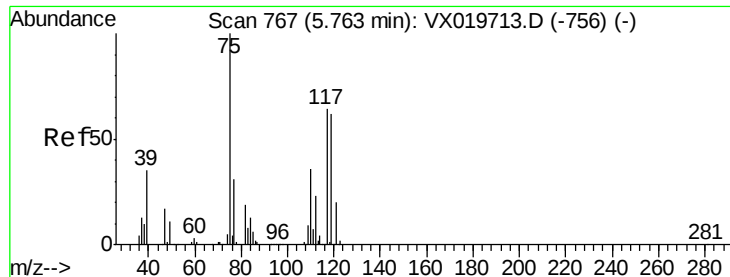


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.092 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX020078.D

Acq: 16 Dec 2020 20:13

Instrument :

MSVOA_X

ClientSampled :

MW-4

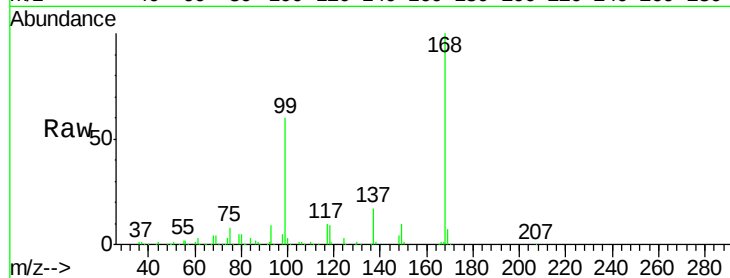
Tgt Ion: 75 Resp: 22577

Ion Ratio Lower Upper

75 100

110 8.8 18.1 54.4#

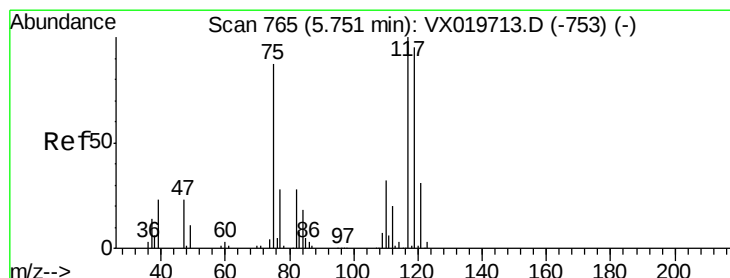
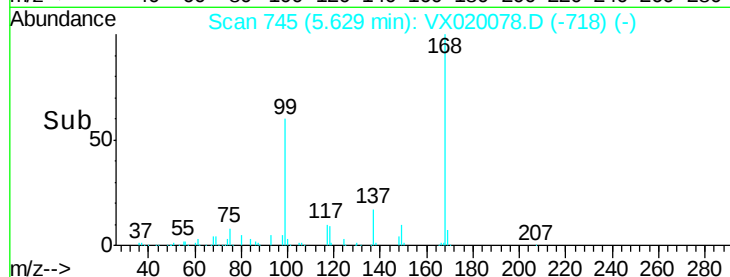
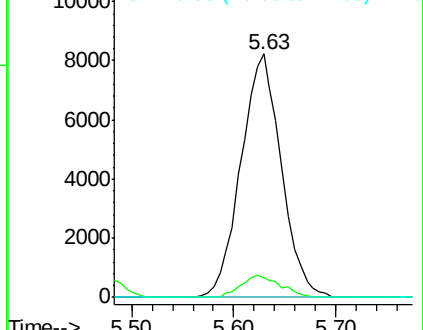
77 0.0 25.3 37.9#



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: 6.562 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX020078.D

Acq: 16 Dec 2020 20:13

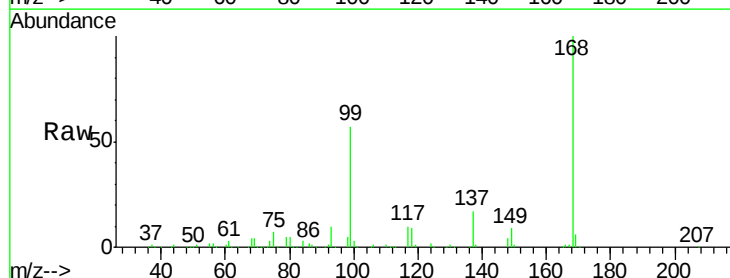
Tgt Ion: 117 Resp: 28489

Ion Ratio Lower Upper

117 100

119 5.3 76.2 114.2#

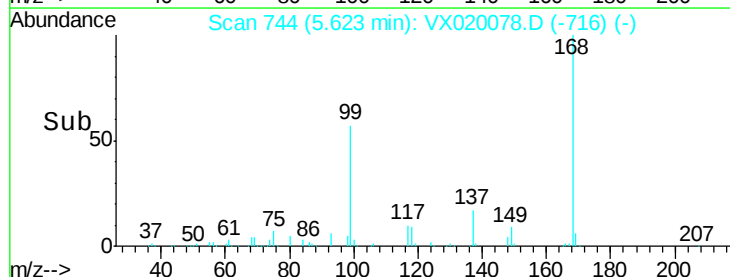
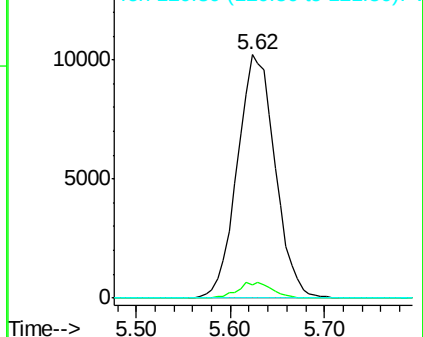
121 0.0 24.8 37.2#

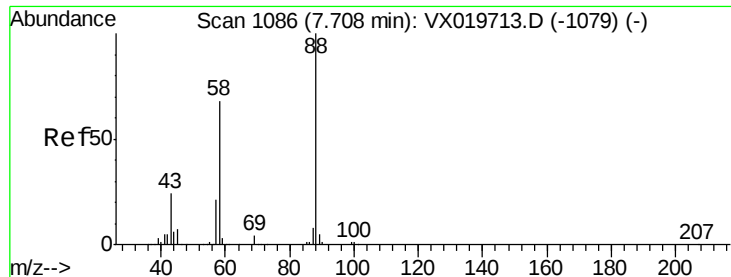


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

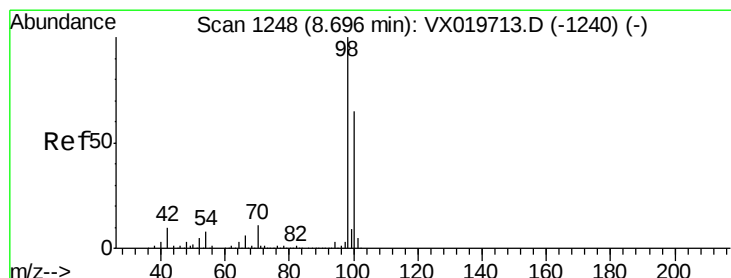
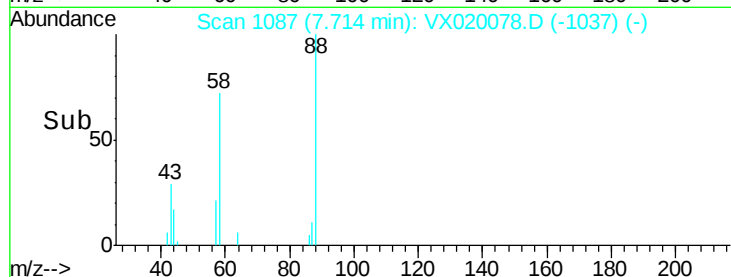
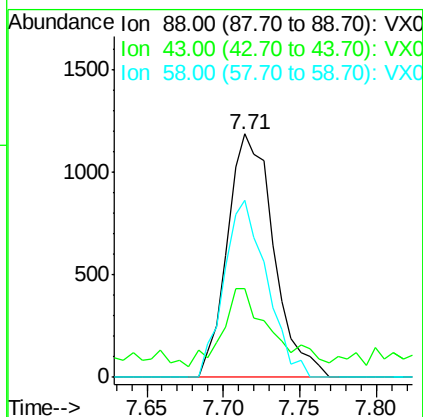
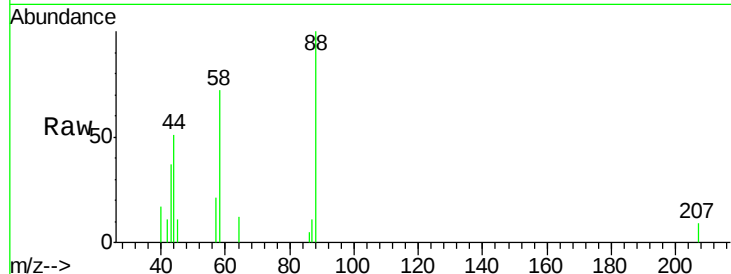




#49
1,4-Dioxane
Concen: 28.741 ug/l
RT: 7.71 min Scan# 1087
Delta R.T. 0.01 min
Lab File: VX020078.D
Acq: 16 Dec 2020 20:13

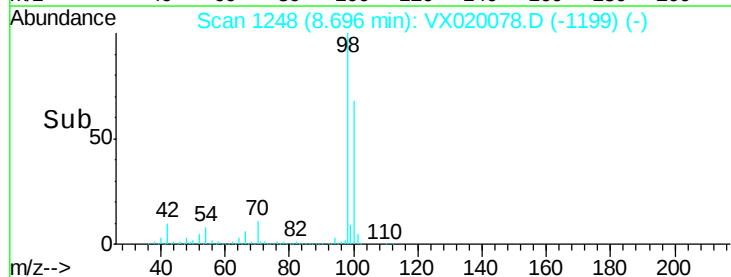
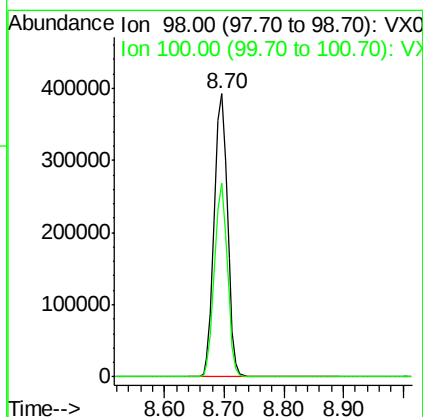
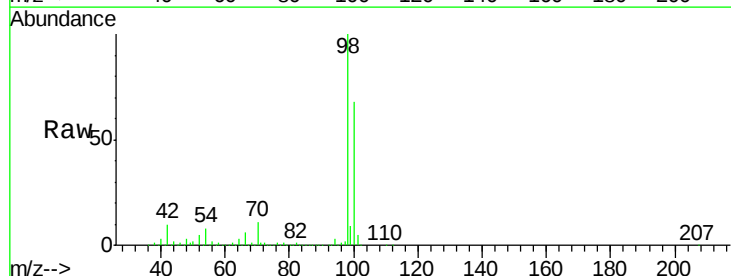
Instrument :
MSVOA_X
ClientSampled :
MW-4

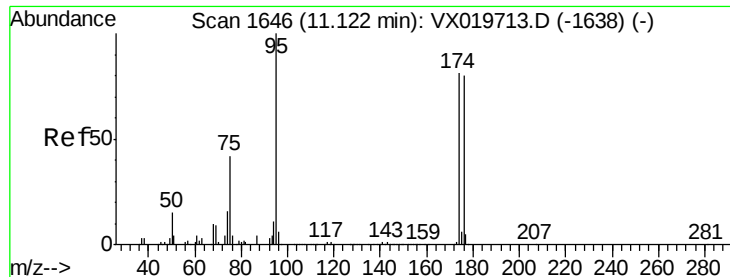
Tgt Ion: 88 Resp: 2492
Ion Ratio Lower Upper
88 100
43 33.5 23.2 34.8
58 67.0 55.0 82.4



#50
Toluene-d8
Concen: 49.671 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX020078.D
Acq: 16 Dec 2020 20:13

Tgt Ion: 98 Resp: 601283
Ion Ratio Lower Upper
98 100
100 66.3 51.9 77.9





#62

4-Bromofluorobenzene

Concen: 46.501 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX020078.D

Acq: 16 Dec 2020 20:13

Instrument :

MSVOA_X

ClientSampled :

MW-4

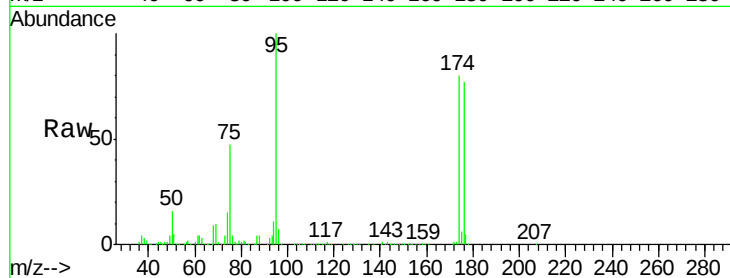
Tgt Ion: 95 Resp: 214252

Ion Ratio Lower Upper

95 100

174 76.5 0.0 154.6

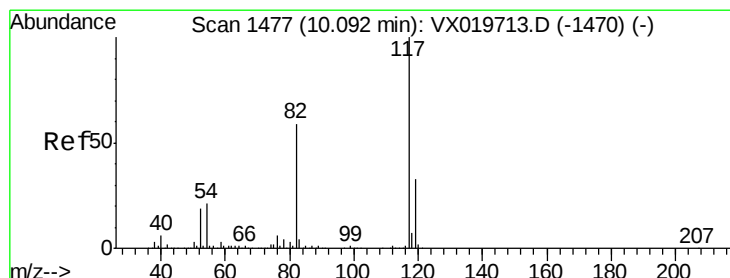
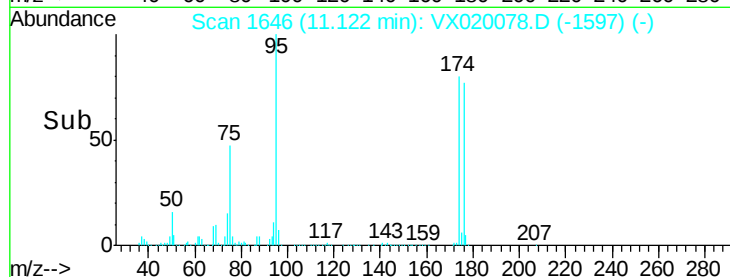
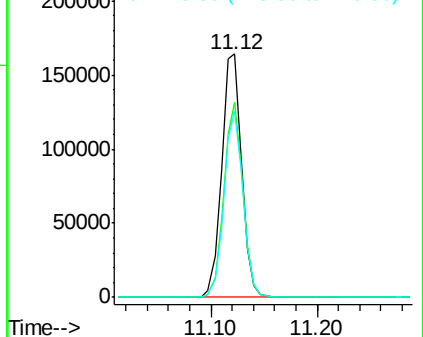
176 73.4 0.0 155.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.01 min

Lab File: VX020078.D

Acq: 16 Dec 2020 20:13

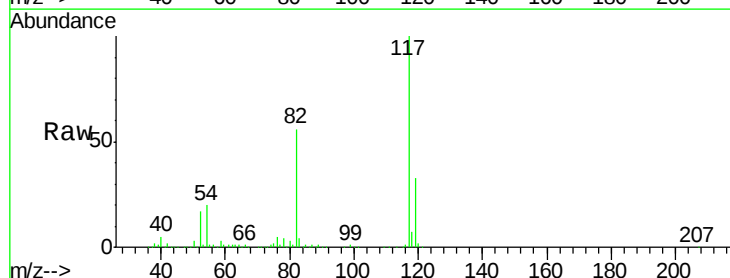
Tgt Ion: 117 Resp: 456748

Ion Ratio Lower Upper

117 100

82 56.0 47.4 71.2

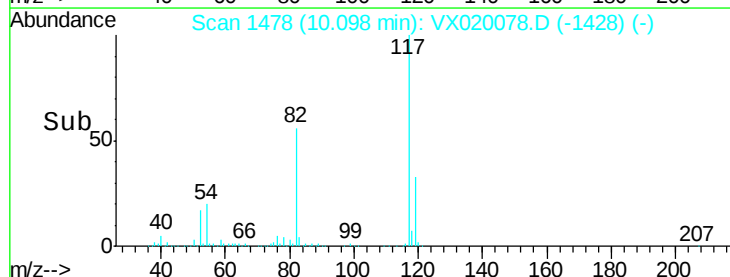
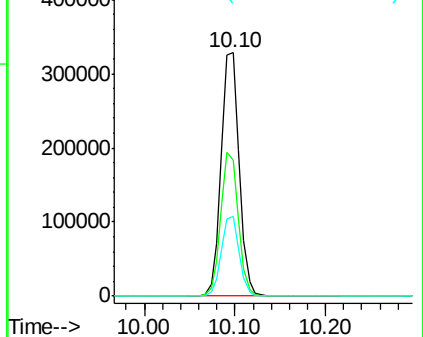
119 32.6 26.6 39.8

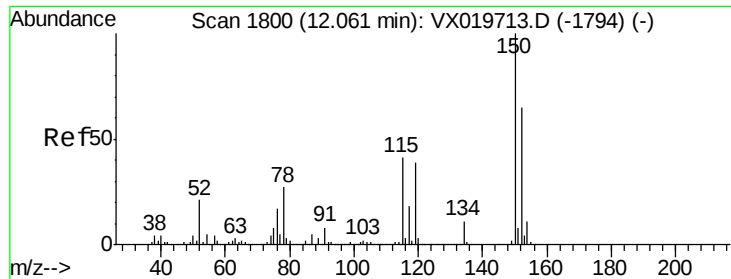


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX020078.D

Acq: 16 Dec 2020 20:13

Instrument :

MSVOA_X

ClientSampleId :

MW-4

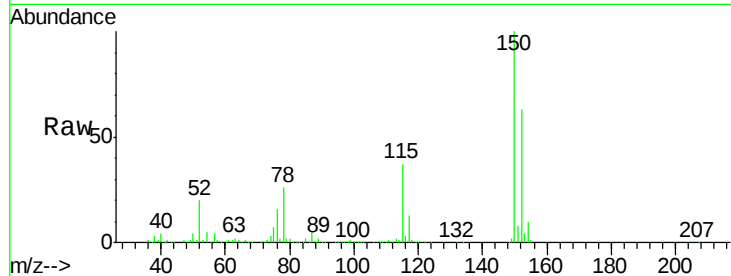
Tgt Ion:152 Resp: 201245

Ion Ratio Lower Upper

152 100

115 59.3 41.1 123.3

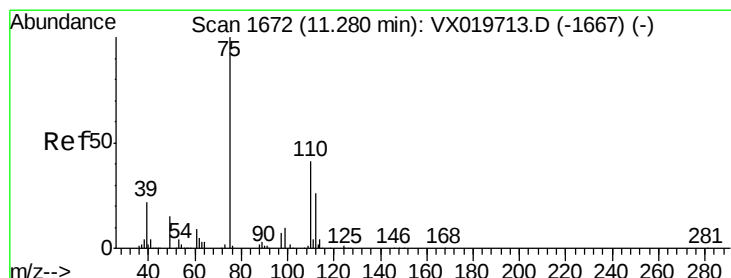
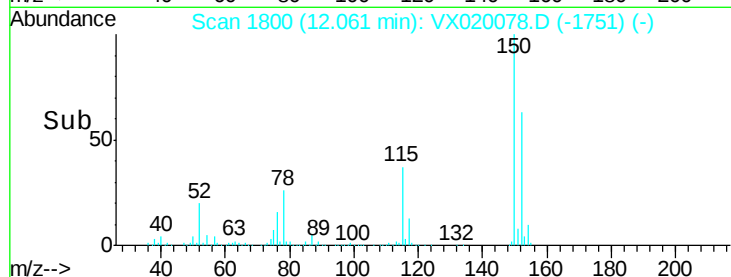
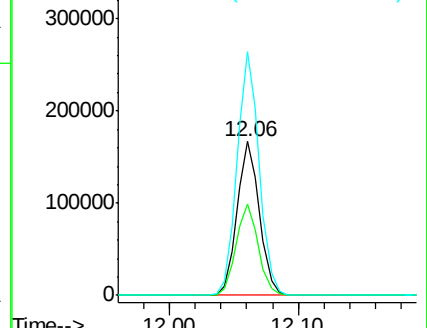
150 157.2 0.0 349.0



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: 23.017 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.16 min

Lab File: VX020078.D

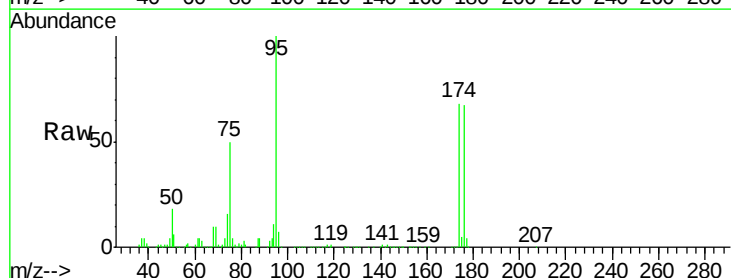
Acq: 16 Dec 2020 20:13

Tgt Ion: 75 Resp: 103891

Ion Ratio Lower Upper

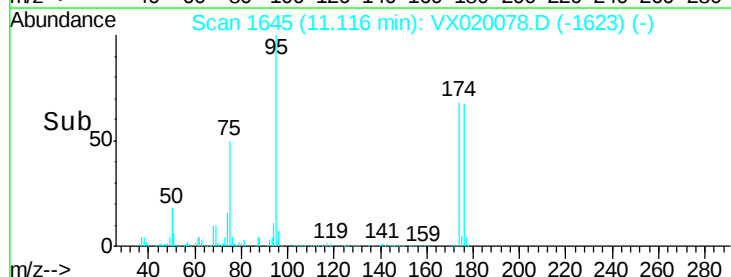
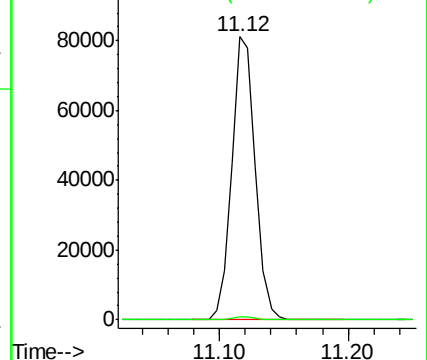
75 100

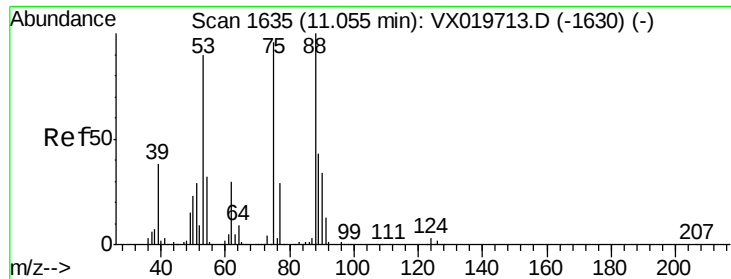
77 1.2 19.1 57.5#



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: 66.539 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. 0.06 min

Lab File: VX020078.D

Acq: 16 Dec 2020 20:13

Instrument :

MSVOA_X

ClientSampleId :

MW-4

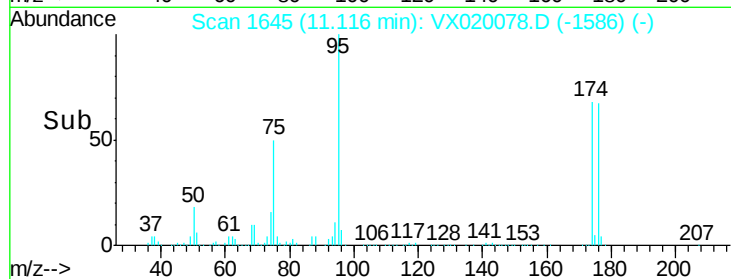
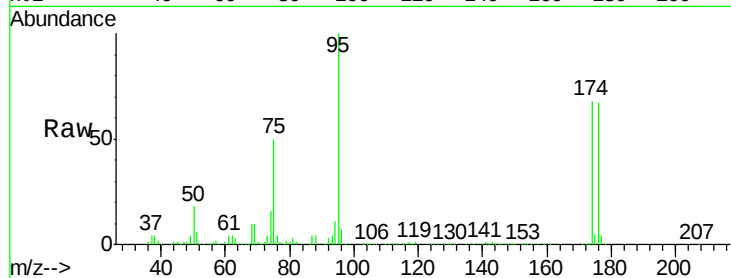
Tgt Ion: 75 Resp: 103891

Ion Ratio Lower Upper

75 100

53 0.1 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

