

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081920\
 Data File : VX018003.D
 Acq On : 19 Aug 2020 23:41
 Operator : JC/SP
 Sample : L3694-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-BR1-081320

Quant Time: Aug 20 04:26:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081920W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 19 05:36:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	484563	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	783828	50.00	ug/l	-0.01
63) Chlorobenzene-d5	10.10	117	684610	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	343049	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	321650	45.28	ug/l	0.00
Spiked Amount			Recovery	=	90.56%	
35) Dibromofluoromethane	5.46	113	266898	45.72	ug/l	0.00
Spiked Amount			Recovery	=	91.44%	
50) Toluene-d8	8.70	98	892098	43.24	ug/l	0.00
Spiked Amount			Recovery	=	86.48%	
62) 4-Bromofluorobenzene	11.12	95	313751	41.17	ug/l	0.00
Spiked Amount			Recovery	=	82.34%	

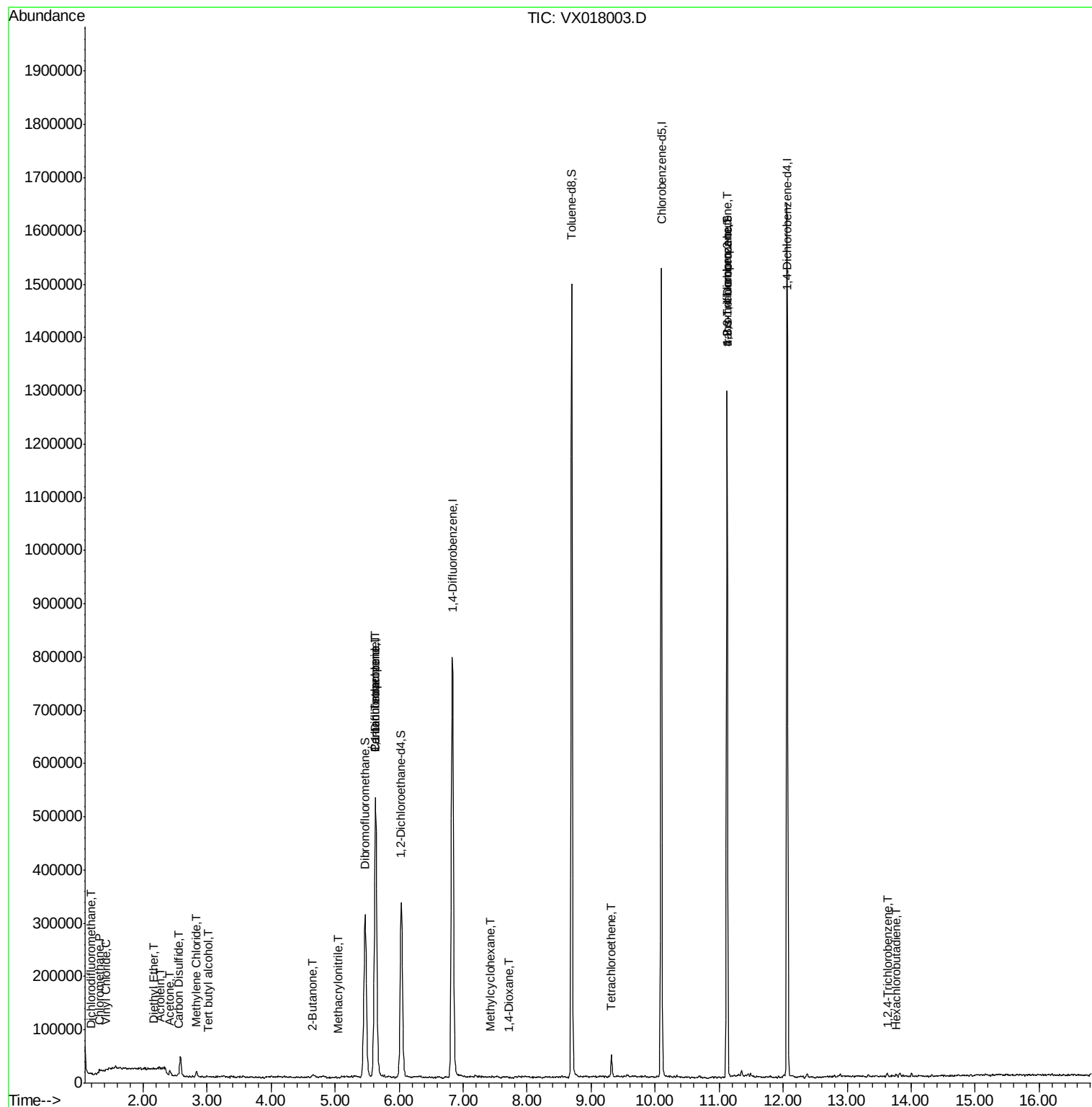
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	595	1.069	ug/l #	67
3) Chloromethane	1.31	50	3459	0.522	ug/l #	69
4) Vinyl Chloride	1.41	62	216	2.290	ug/l #	44
8) Diethyl Ether	2.17	74	865	0.292	ug/l	58
11) Tert butyl alcohol	3.01	59	670	0.489	ug/l #	74
13) Acrolein	2.26	56	738	1.019	ug/l	85
16) Acetone	2.42	43	11390	4.076	ug/l #	85
17) Carbon Disulfide	2.55	76	5329	0.503	ug/l	97
20) Methylene Chloride	2.83	84	4888	0.949	ug/l #	88
25) 2-Butanone	4.64	43	1016	0.240	ug/l #	54
36) 1,1-Dichloropropene	5.63	75	36514	5.566	ug/l #	51
38) Carbon Tetrachloride	5.62	117	50222	5.915	ug/l #	15
39) Methylcyclohexane	7.42	83	74	0.822	ug/l #	31
41) Methacrylonitrile	5.04	41	1026	0.228	ug/l #	24
49) 1,4-Dioxane	7.71	88	145	1.127	ug/l #	22
64) Tetrachloroethene	9.32	164	6821	1.305	ug/l #	89
76) 1,2,3-Trichloropropane	11.12	75	158106	21.672	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	158106	56.934	ug/l #	12
93) 1,2,4-Trichlorobenzene	13.63	180	1644	0.243	ug/l	92
94) Hexachlorobutadiene	13.77	225	659	0.228	ug/l	84

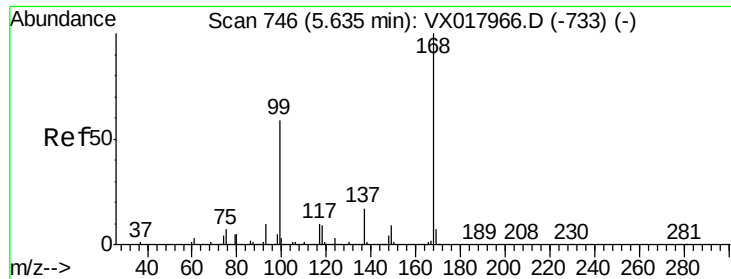
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Aug 19 05:36:51 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: VX018003.D

Acq: 19 Aug 2020 23:41

Instrument :

MSVOA_X

ClientSampleId :

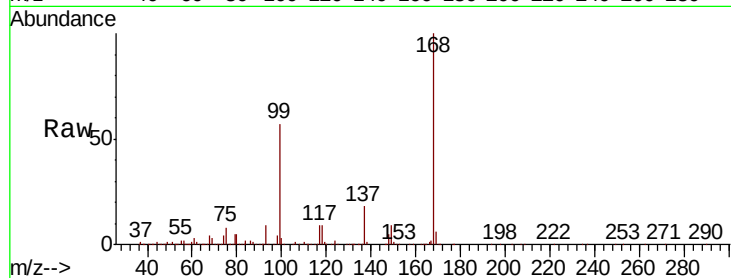
MW-BR1-081320

Tot Ion:168 Resp: 484563

Ion Ratio Lower Upper

168 100

99 57.1 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

200000

150000

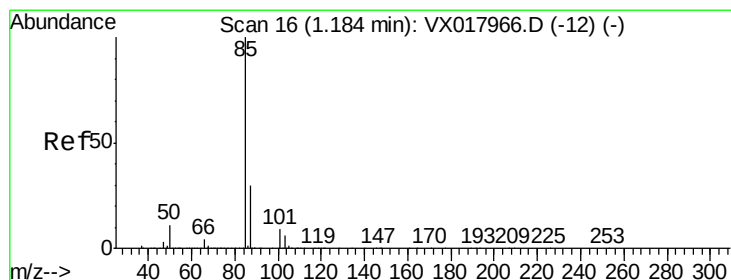
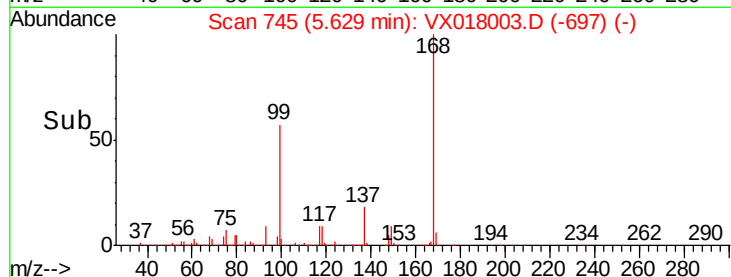
100000

50000

0

5.50 5.60 5.70

Time-->



#2

Dichlorodifluoromethane

Concen: 1.069 ug/l

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX018003.D

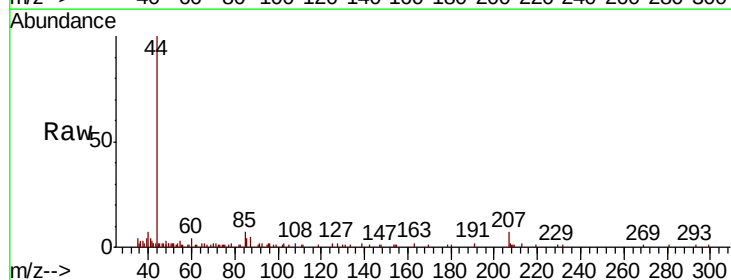
Acq: 19 Aug 2020 23:41

Tgt Ion: 85 Resp: 595

Ion Ratio Lower Upper

85 100

87 48.2 15.3 45.8#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

800

600

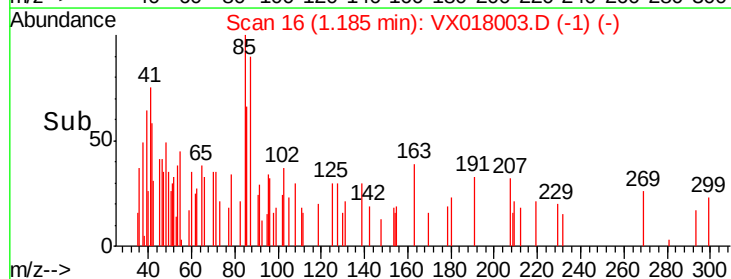
400

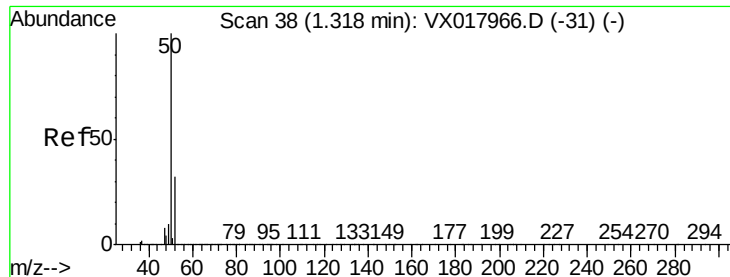
200

0

1.16 1.18 1.20 1.22

Time-->





#3

Chloromethane

Concen: 0.522 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.01 min

Lab File: VX018003.D

Acq: 19 Aug 2020 23:41

Instrument :

MSVOA_X

ClientSampleId :

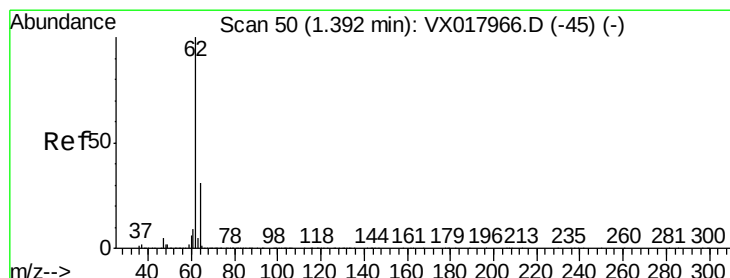
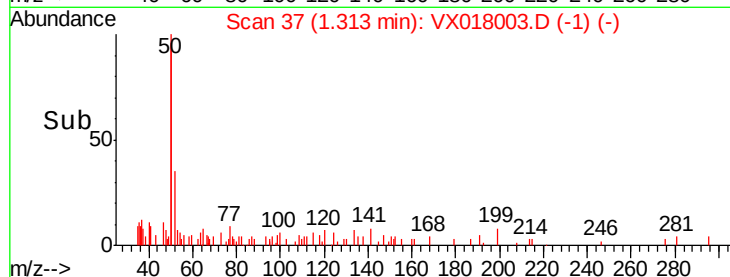
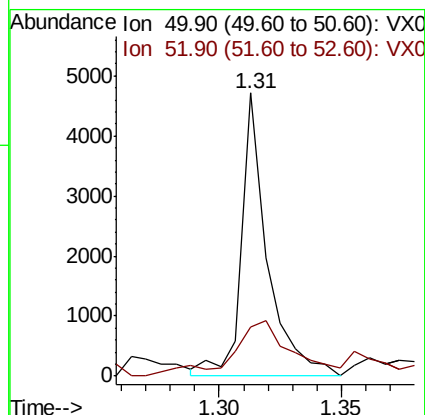
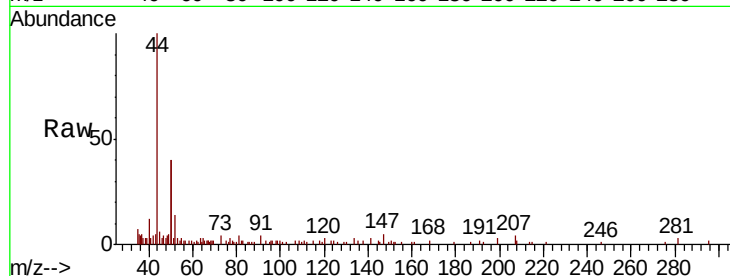
MW-BR1-081320

Tot Ion: 50 Resp: 3459

Ion Ratio Lower Upper

50 100

52 14.3 25.4 38.0#



#4

Vinyl Chloride

Concen: 2.290 ug/l

RT: 1.41 min Scan# 53

Delta R.T. 0.02 min

Lab File: VX018003.D

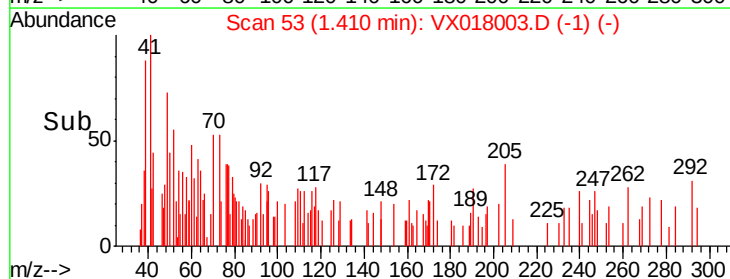
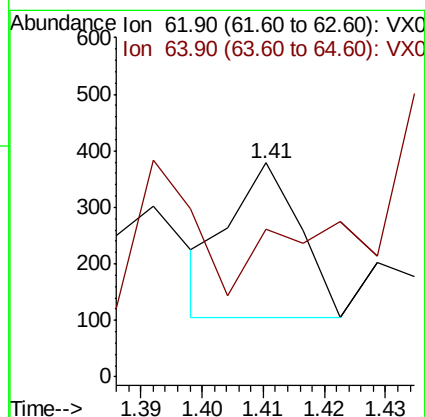
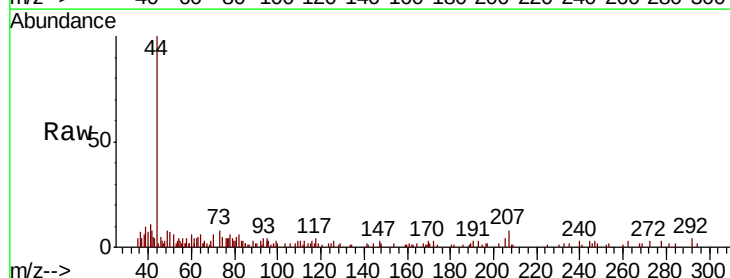
Acq: 19 Aug 2020 23:41

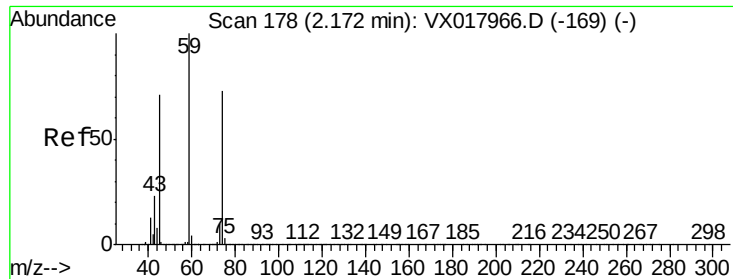
Tgt Ion: 62 Resp: 216

Ion Ratio Lower Upper

62 100

64 0.0 24.7 37.1#





#8

Diethyl Ether

Concen: 0.292 ug/l

RT: 2.17 min Scan# 178

Delta R.T. 0.00 min

Lab File: VX018003.D

Acq: 19 Aug 2020 23:41

Instrument :

MSVOA_X

ClientSampleId :

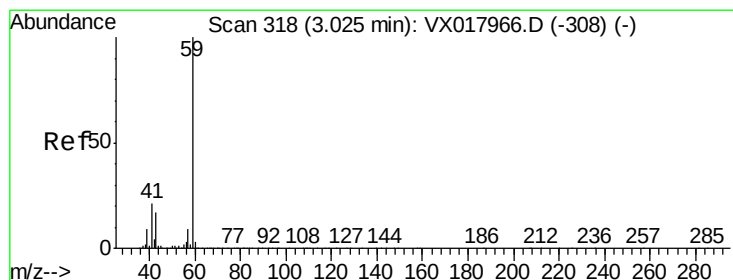
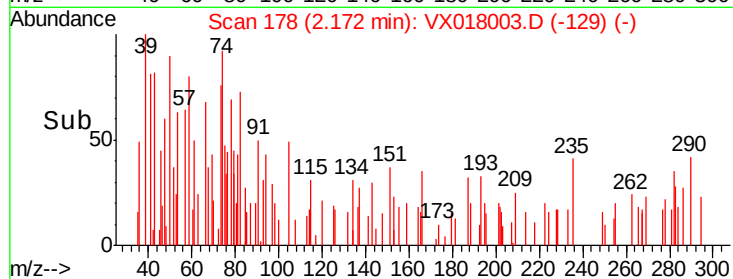
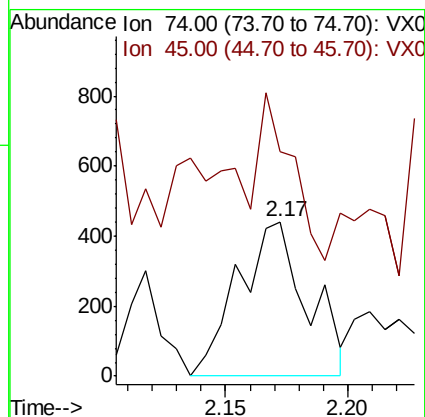
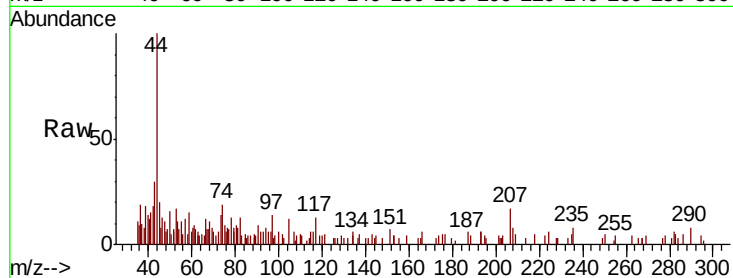
MW-BR1-081320

Tot Ion: 74 Resp: 865

Ion Ratio Lower Upper

74 100

45 59.1 50.5 151.6



#11

Tert butyl alcohol

Concen: 0.489 ug/l

RT: 3.01 min Scan# 316

Delta R.T. -0.01 min

Lab File: VX018003.D

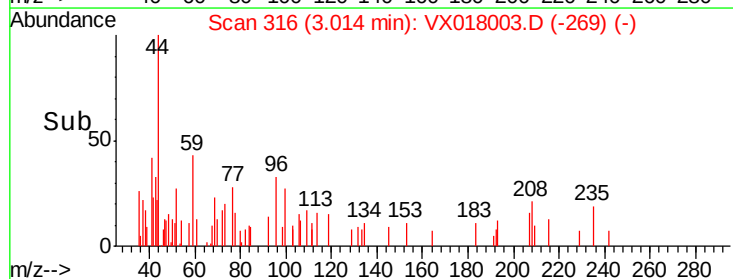
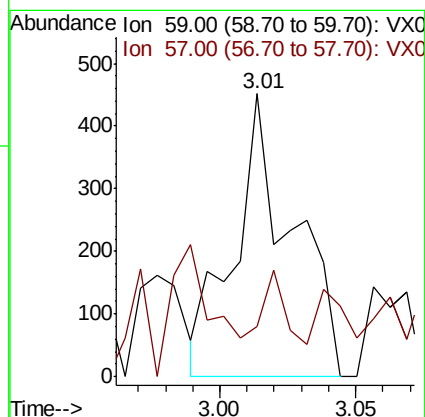
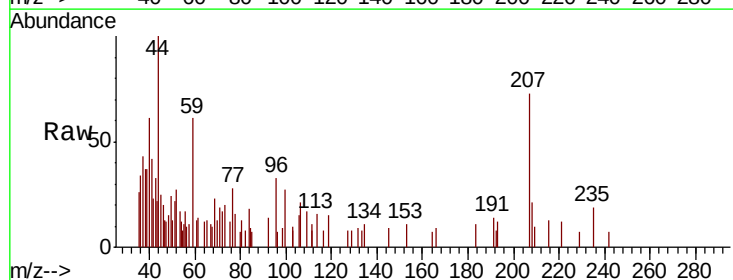
Acq: 19 Aug 2020 23:41

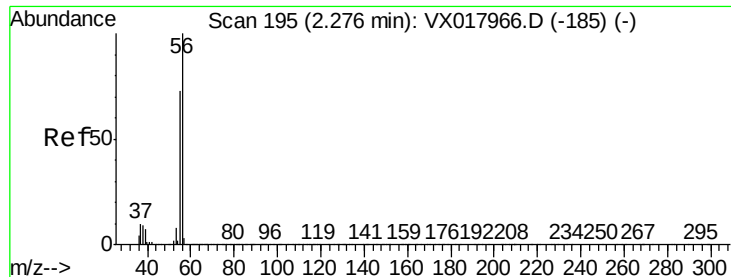
Tgt Ion: 59 Resp: 670

Ion Ratio Lower Upper

59 100

57 20.6 8.6 13.0#





#13

Acrolein

Concen: 1.019 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX018003.D

Acq: 19 Aug 2020 23:41

Instrument :

MSVOA_X

ClientSampleId :

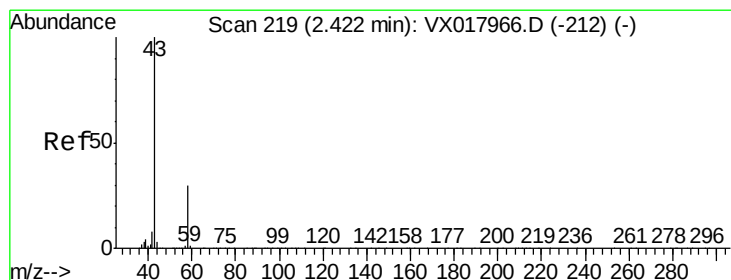
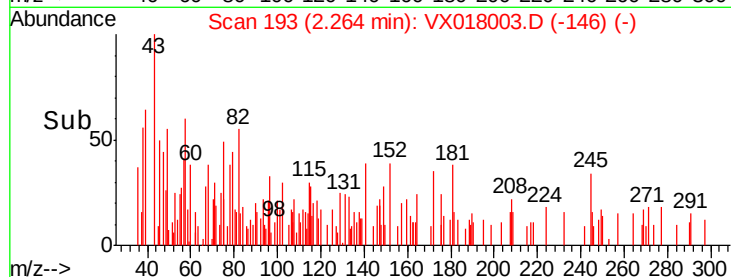
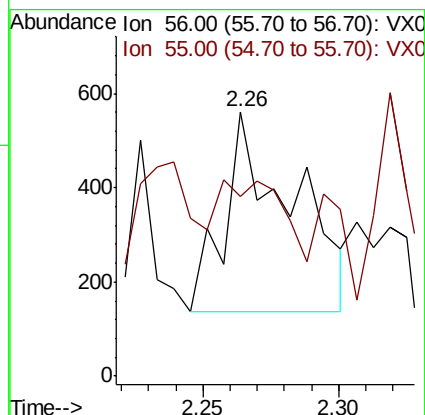
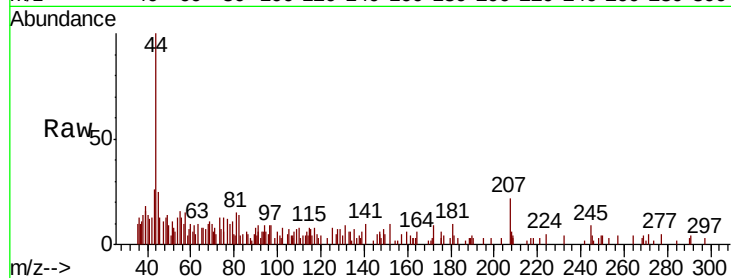
MW-BR1-081320

Tot Ion: 56 Resp: 738

Ion Ratio Lower Upper

56 100

55 60.2 58.2 87.4



#16

Acetone

Concen: 4.076 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX018003.D

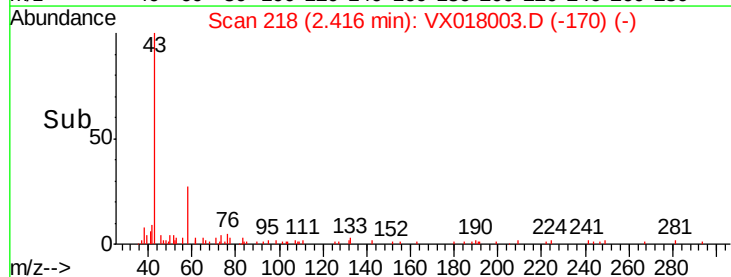
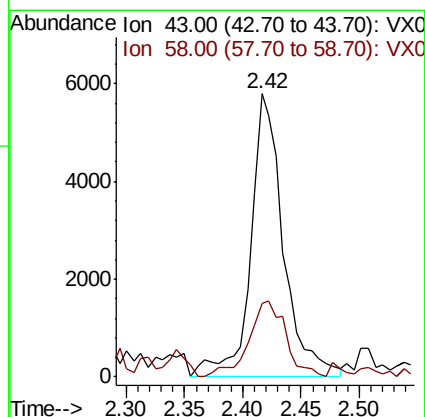
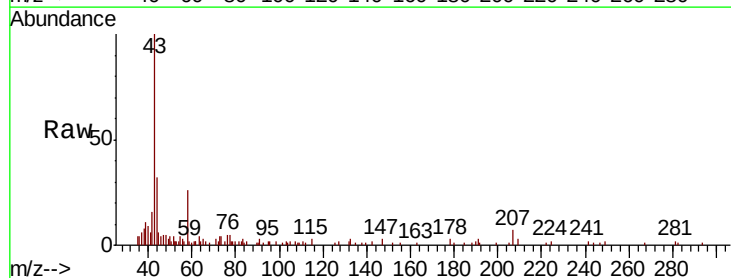
Acq: 19 Aug 2020 23:41

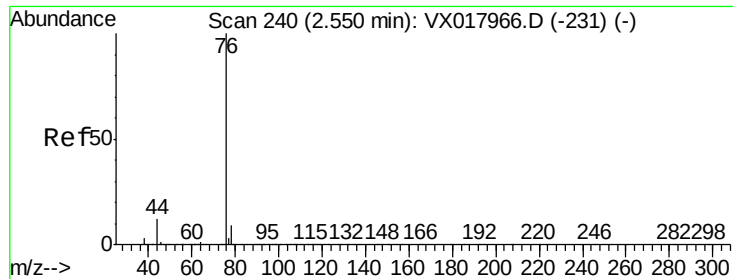
Tgt Ion: 43 Resp: 11390

Ion Ratio Lower Upper

43 100

58 21.7 23.8 35.8#

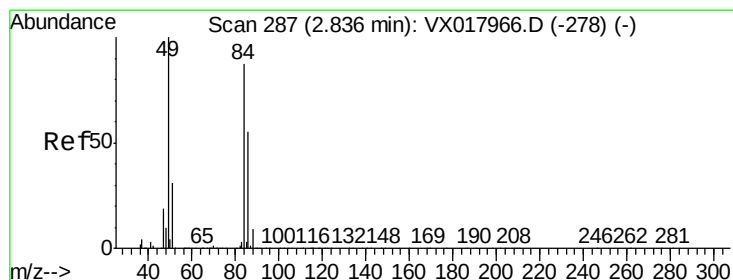
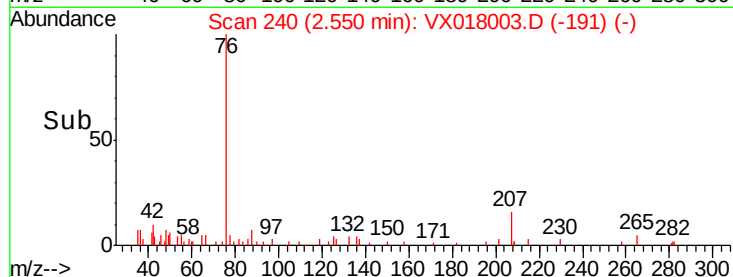
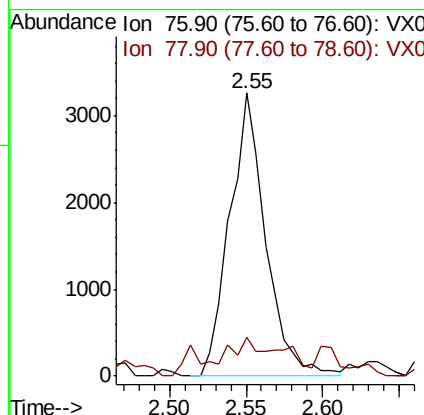
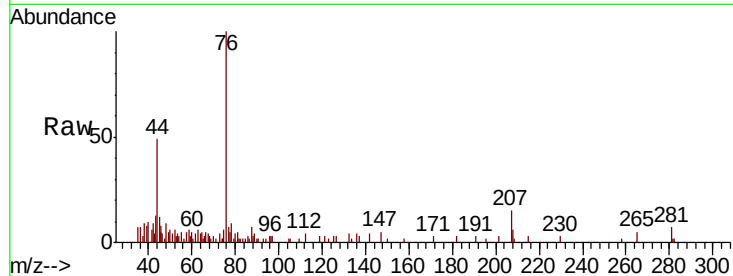




#17
Carbon Disulfide
Concen: 0.503 ug/l
RT: 2.55 min Scan# 240
Delta R.T. 0.00 min
Lab File: VX018003.D
Acq: 19 Aug 2020 23:41

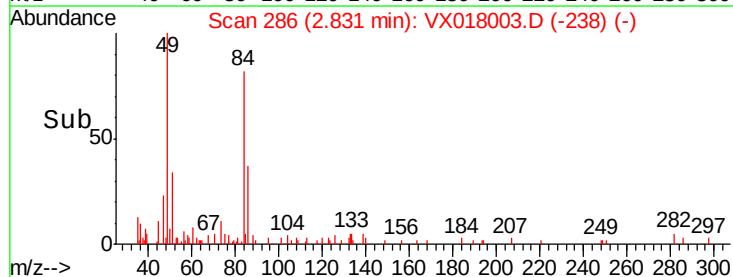
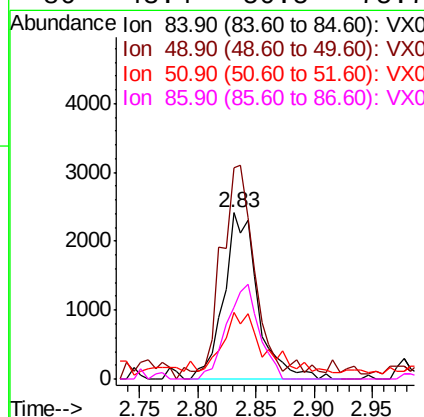
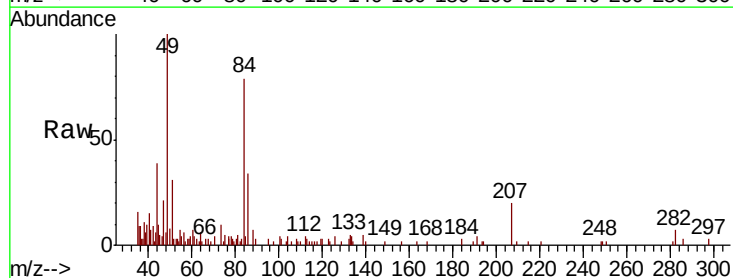
Instrument :
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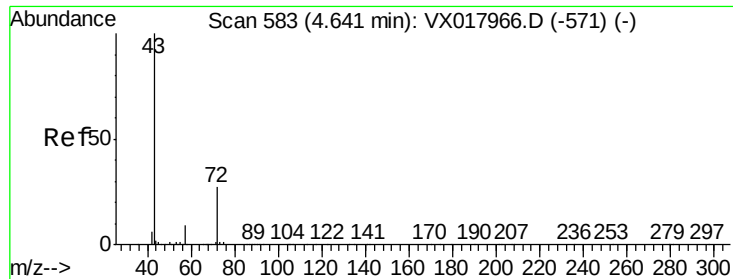
Tot Ion: 76 Resp: 5329
Ion Ratio Lower Upper
76 100
78 10.1 7.3 10.9



#20
Methylene Chloride
Concen: 0.949 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.01 min
Lab File: VX018003.D
Acq: 19 Aug 2020 23:41

Tgt Ion: 84 Resp: 4888
Ion Ratio Lower Upper
84 100
49 123.0 91.8 137.6
51 36.1 27.8 41.8
86 43.4 50.5 75.7#

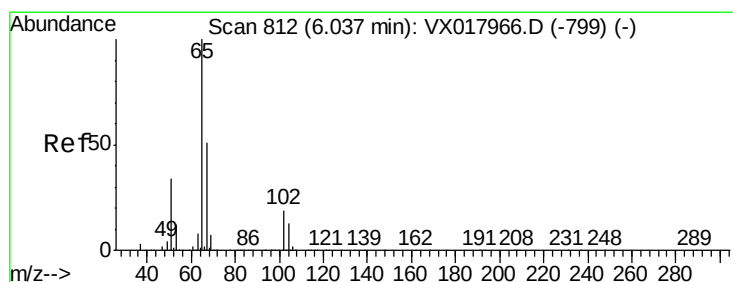
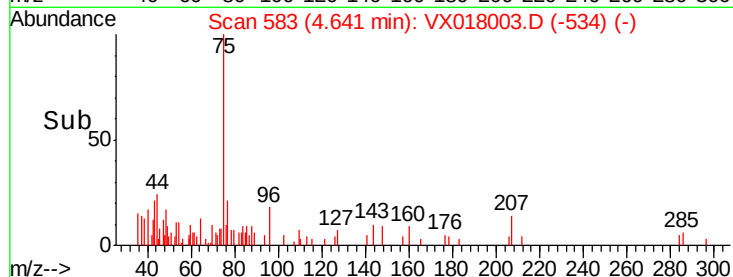
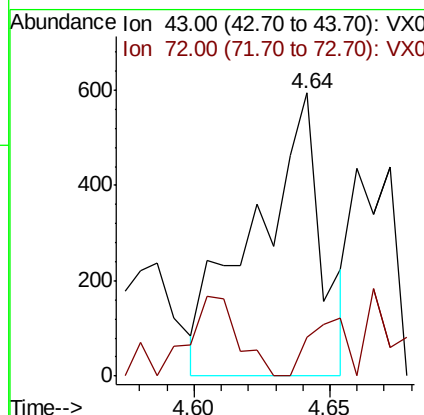
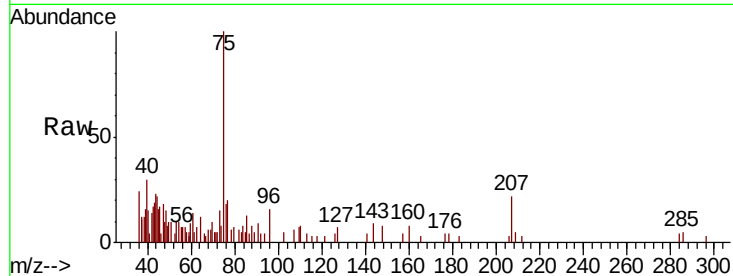




#25
2-Butanone
Concen: 0.240 ug/l
RT: 4.64 min Scan# 583
Delta R.T. 0.00 min
Lab File: VX018003.D
Acq: 19 Aug 2020 23:41

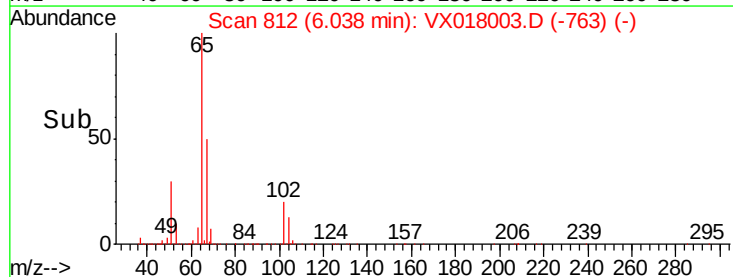
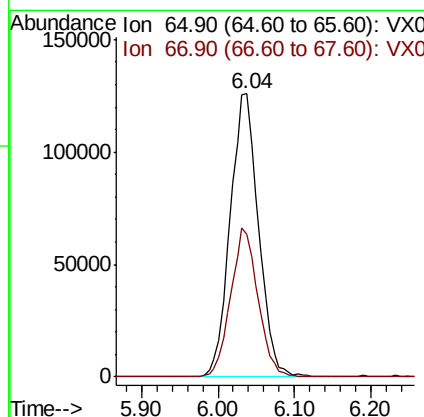
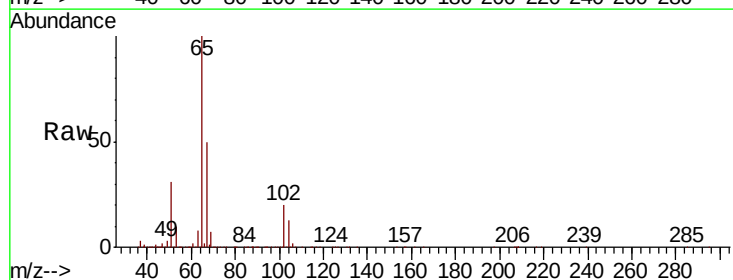
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MSVOA_X
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MW-BR1-081320

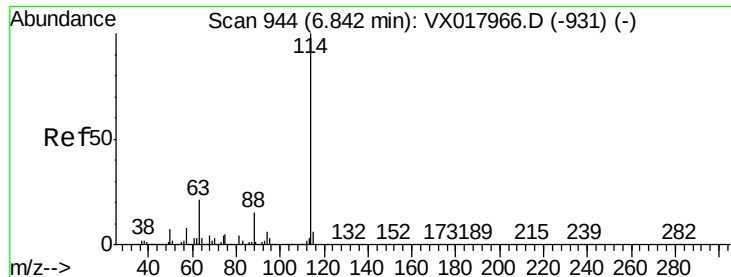
Tot Ion: 43 Resp: 1016
Ion Ratio Lower Upper
43 100
72 3.1 21.4 32.2#



#33
1,2-Dichloroethane-d4
Concen: 45.282 ug/l
RT: 6.04 min Scan# 812
Delta R.T. 0.00 min
Lab File: VX018003.D
Acq: 19 Aug 2020 23:41

Tgt Ion: 65 Resp: 321650
Ion Ratio Lower Upper
65 100
67 50.4 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.01 min

Lab File: VX018003.D

Acq: 19 Aug 2020 23:41

Instrument :

MSVOA_X

ClientSampleId :

MW-BR1-081320

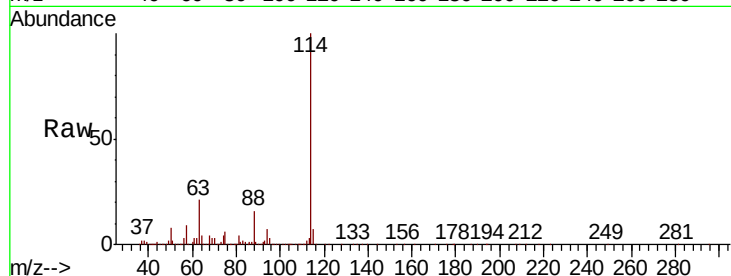
Tot Ion:114 Resp: 783828

Ion Ratio Lower Upper

114 100

63 20.5 0.0 42.6

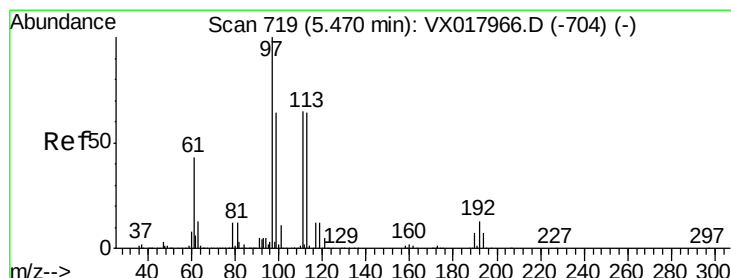
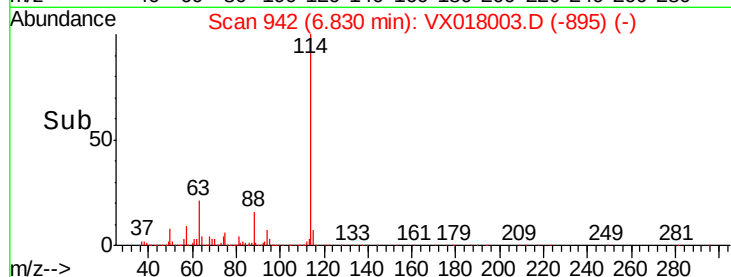
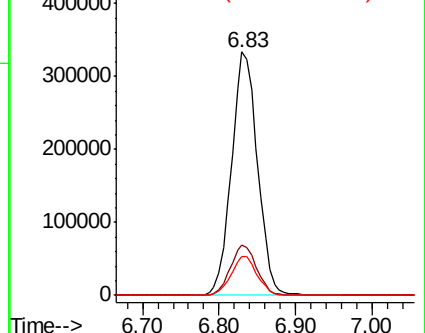
88 16.0 0.0 30.2



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: 45.725 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX018003.D

Acq: 19 Aug 2020 23:41

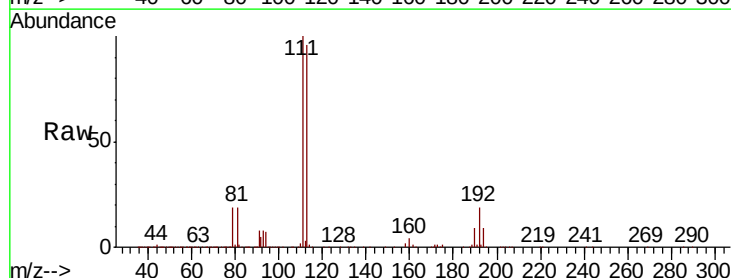
Tgt Ion:113 Resp: 266898

Ion Ratio Lower Upper

113 100

111 101.3 83.5 125.3

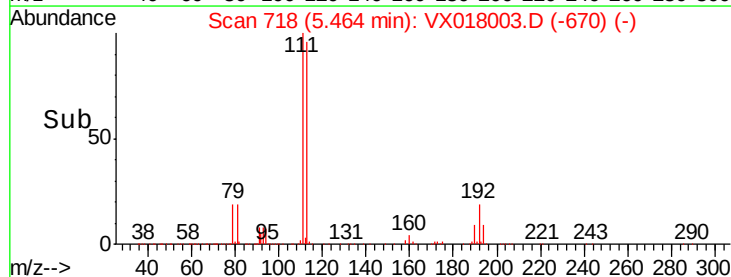
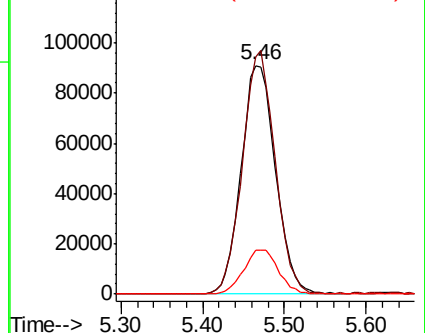
192 19.5 16.2 24.4

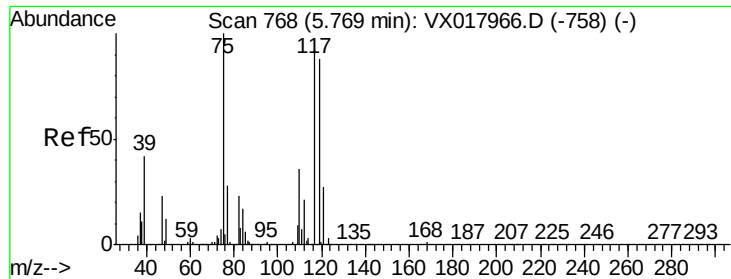


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.566 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX018003.D

Acq: 19 Aug 2020 23:41

Instrument :

MSVOA_X

ClientSampleId :

MW-BR1-081320

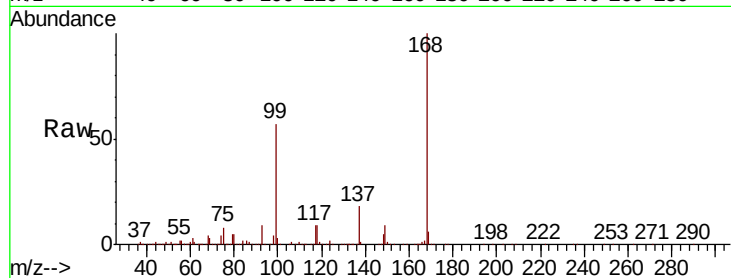
Tot Ion: 75 Resp: 36514

Ion Ratio Lower Upper

75 100

110 10.3 18.7 56.1#

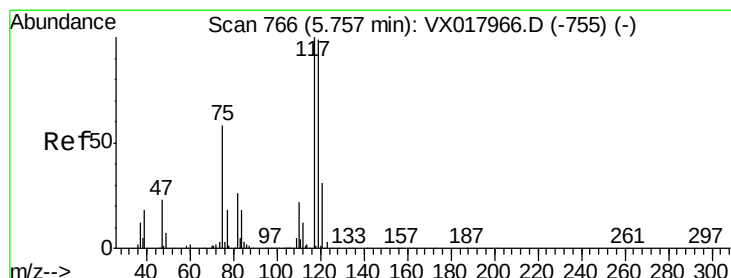
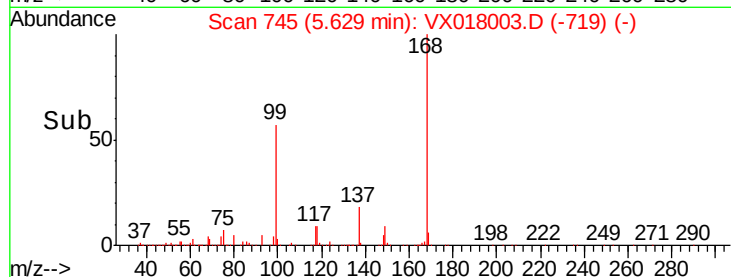
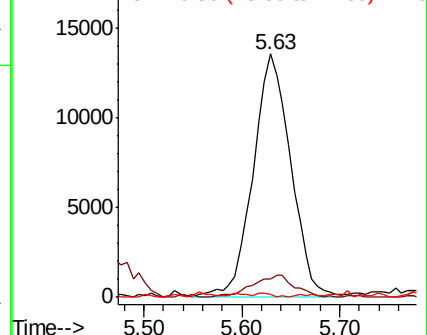
77 0.8 24.4 36.6#



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: 5.915 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX018003.D

Acq: 19 Aug 2020 23:41

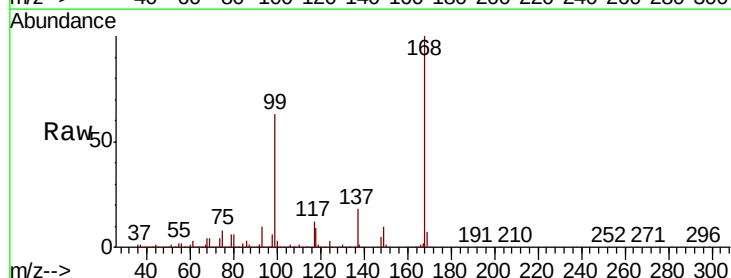
Tgt Ion:117 Resp: 50222

Ion Ratio Lower Upper

117 100

119 5.7 79.0 118.6#

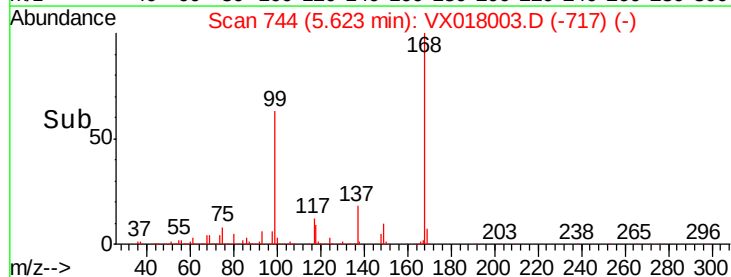
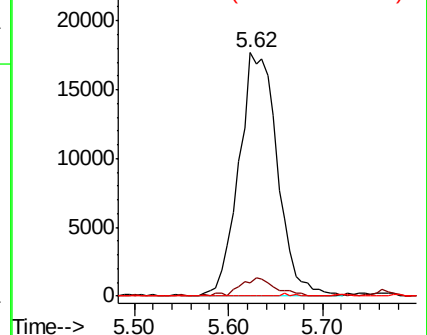
121 0.0 24.7 37.1#

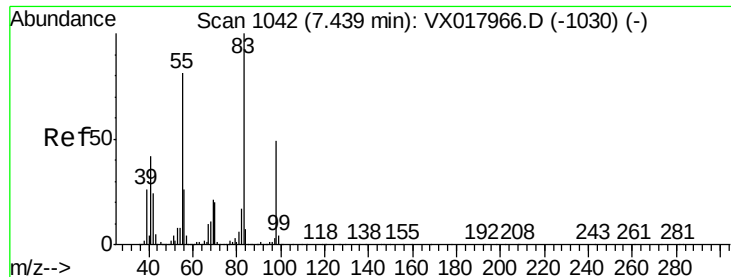


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#39

Methylcyclohexane

Concen: 0.822 ug/l

RT: 7.42 min Scan# 1039

Delta R.T. -0.02 min

Lab File: VX018003.D

Acq: 19 Aug 2020 23:41

Instrument :

MSVOA_X

ClientSampleId :

MW-BR1-081320

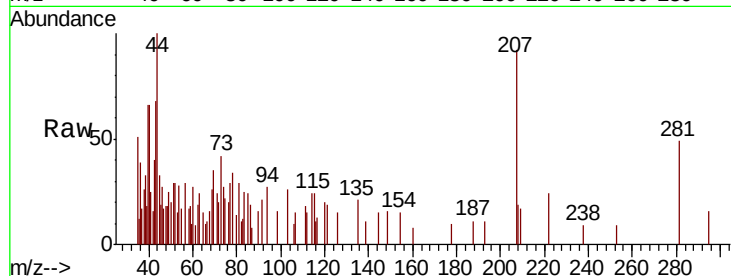
Tot Ion: 83 Resp: 74

Ion Ratio Lower Upper

83 100

55 0.0 64.5 96.7#

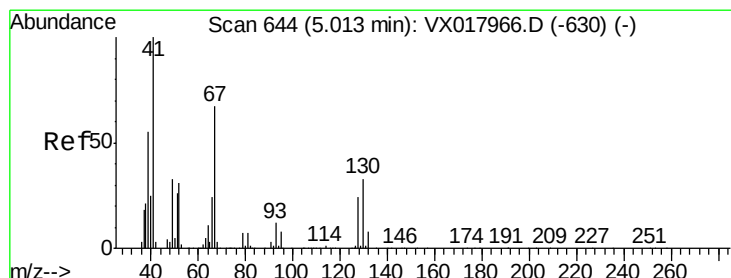
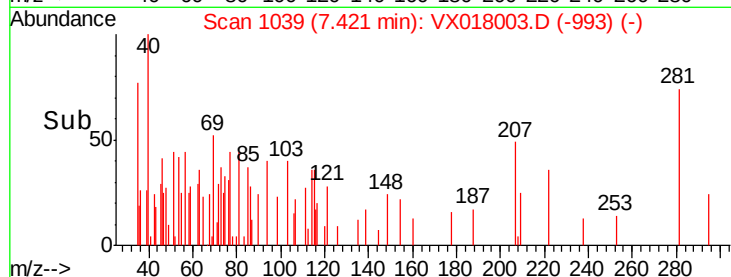
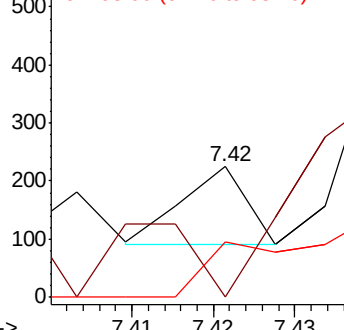
98 70.4 39.0 58.6#



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0



#41

Methacrylonitrile

Concen: 0.228 ug/l

RT: 5.04 min Scan# 648

Delta R.T. 0.02 min

Lab File: VX018003.D

Acq: 19 Aug 2020 23:41

Tgt Ion: 41 Resp: 1026

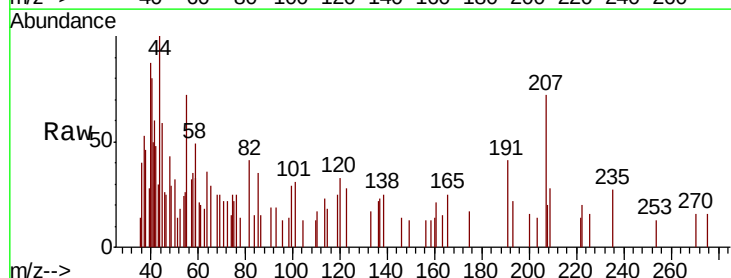
Ion Ratio Lower Upper

41 100

39 0.0 44.8 67.2#

67 0.0 57.5 86.3#

52 4.6 25.6 38.4#

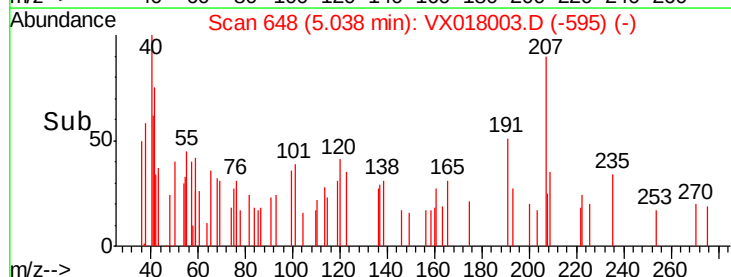
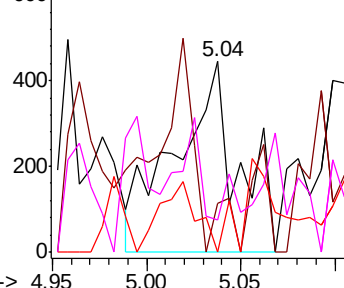


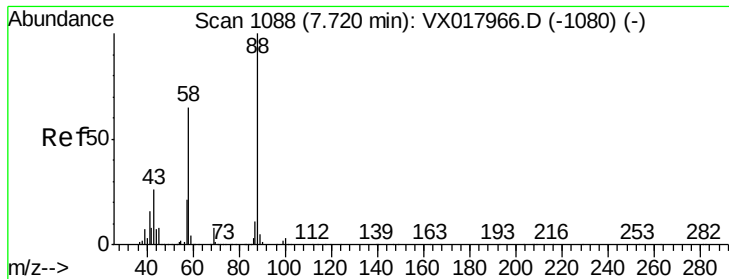
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#49

1,4-Dioxane

Concen: 1.127 ug/l

RT: 7.71 min Scan# 1086

Delta R.T. -0.01 min

Lab File: VX018003.D

Acq: 19 Aug 2020 23:41

Instrument :

MSVOA_X

ClientSampleId :

MW-BR1-081320

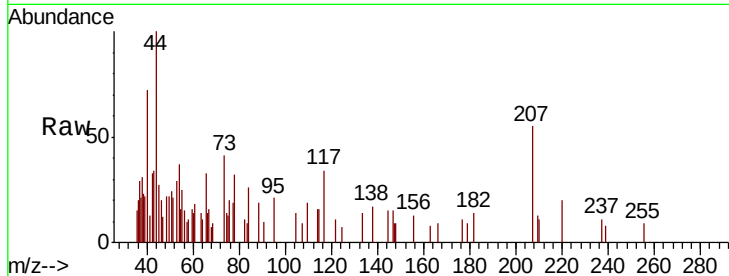
Tot Ion: 88 Resp: 145

Ion Ratio Lower Upper

88 100

43 0.0 27.3 40.9#

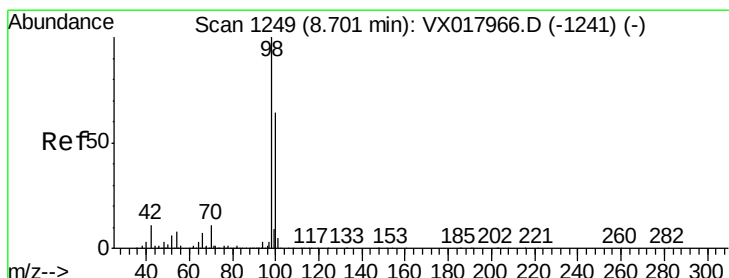
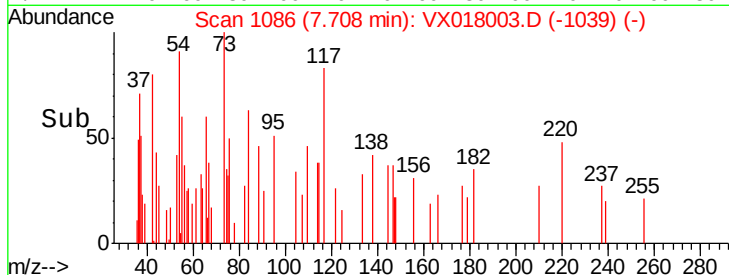
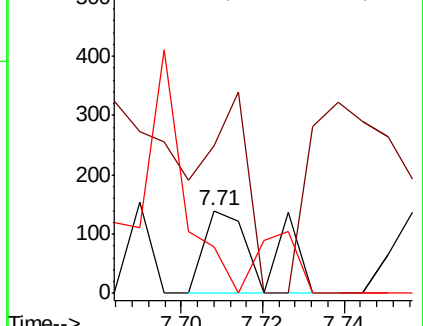
58 0.0 57.7 86.5#



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: 43.237 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.01 min

Lab File: VX018003.D

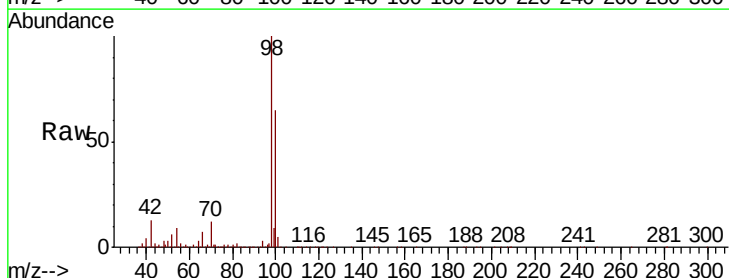
Acq: 19 Aug 2020 23:41

Tgt Ion: 98 Resp: 892098

Ion Ratio Lower Upper

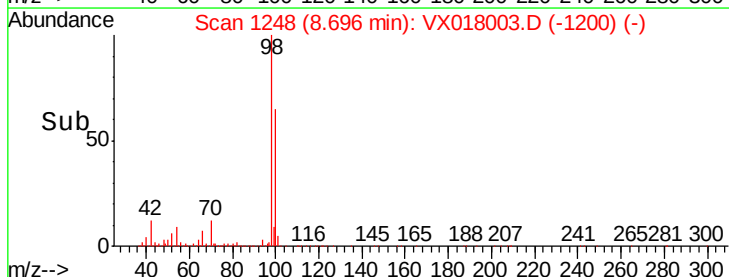
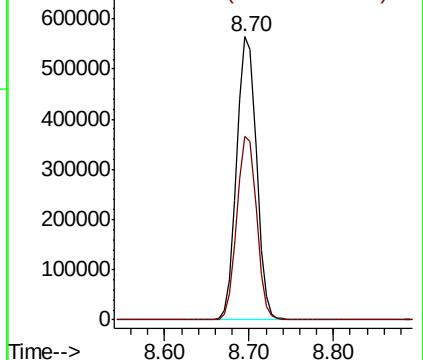
98 100

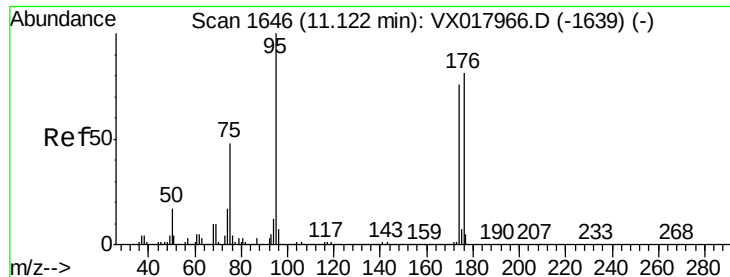
100 64.7 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 41.172 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX018003.D

Acq: 19 Aug 2020 23:41

Instrument :

MSVOA_X

ClientSampleId :

MW-BR1-081320

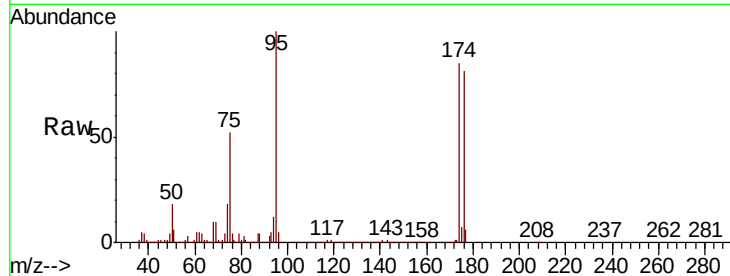
Tot Ion: 95 Resp: 313751

Ion Ratio Lower Upper

95 100

174 84.0 0.0 166.0

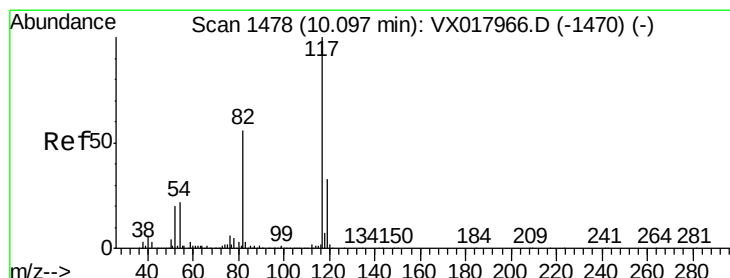
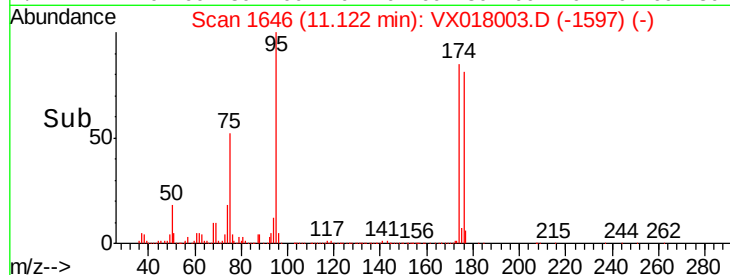
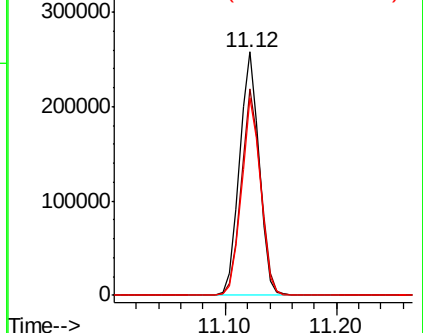
176 79.1 0.0 161.0



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: VX018003.D

Acq: 19 Aug 2020 23:41

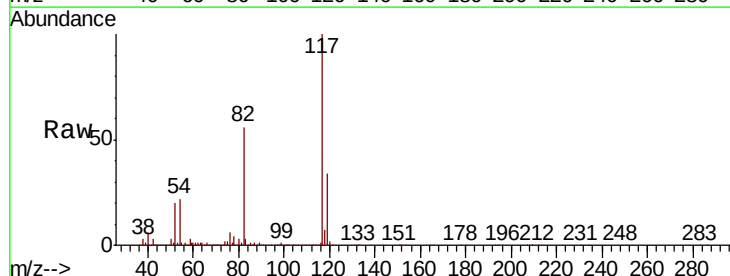
Tgt Ion: 117 Resp: 684610

Ion Ratio Lower Upper

117 100

82 55.6 44.6 66.8

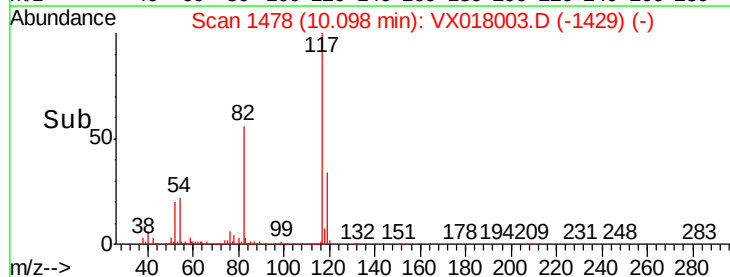
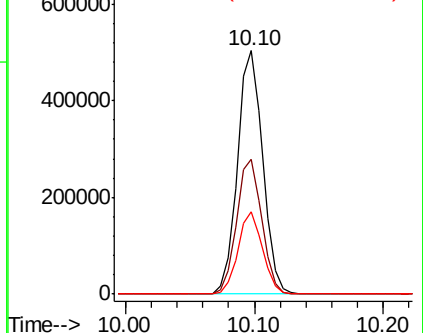
119 33.7 26.2 39.4

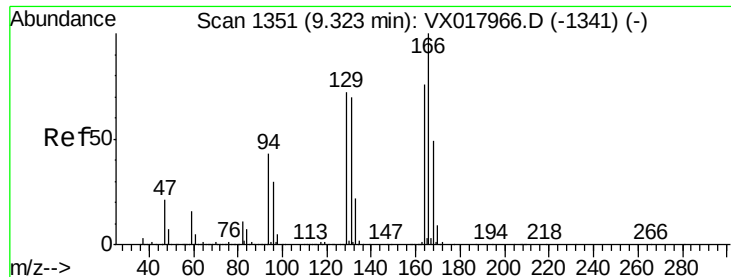


Abundance Ion 116.90 (116.60 to 117.60): VX0

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0





#64

Tetrachloroethene

Concen: 1.305 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.01 min

Lab File: VX018003.D

Acq: 19 Aug 2020 23:41

Instrument :

MSVOA_X

ClientSampleId :

MW-BR1-081320

Tot Ion:164 Resp: 6821

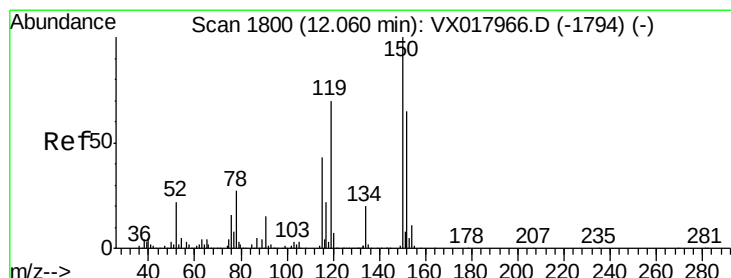
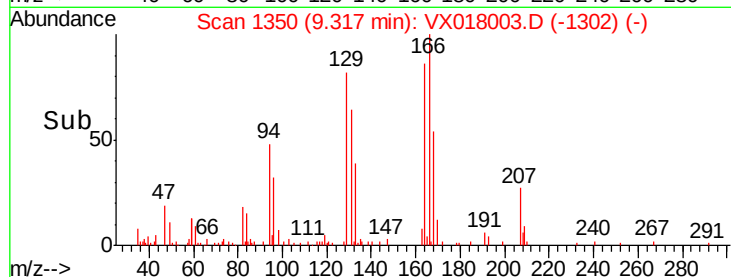
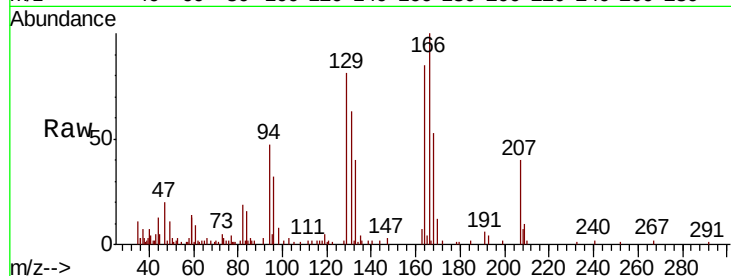
Ion Ratio Lower Upper

164 100

166 117.6 105.7 158.5

129 95.1 75.8 113.8

131 73.8 74.2 111.4#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX018003.D

Acq: 19 Aug 2020 23:41

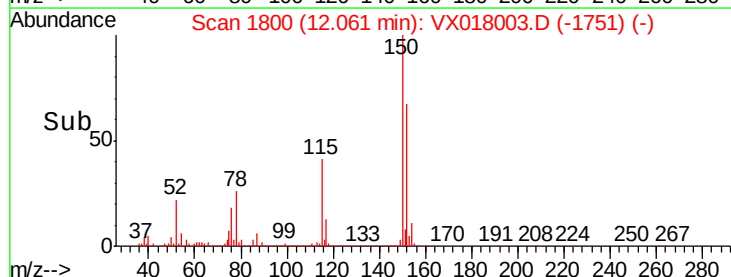
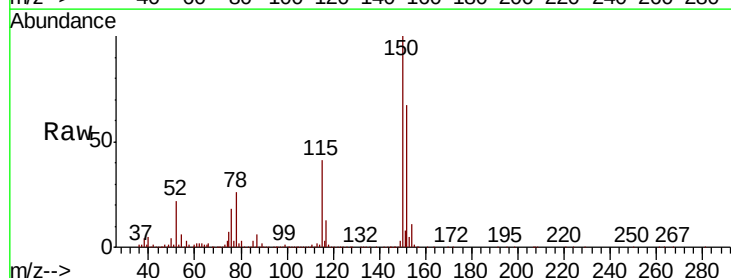
Tgt Ion:152 Resp: 343049

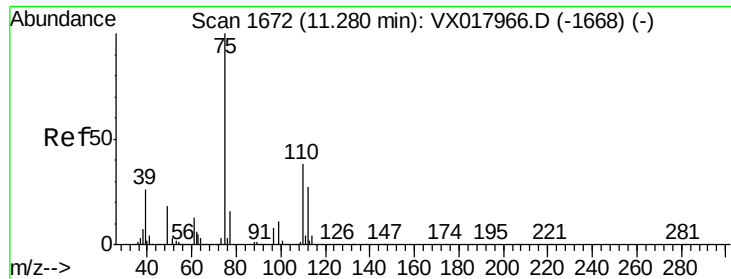
Ion Ratio Lower Upper

152 100

115 58.1 40.6 121.7

150 153.4 0.0 346.4





#76

1,2,3-Trichloropropane

Concen: 21.672 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018003.D

Acq: 19 Aug 2020 23:41

Instrument :

MSVOA_X

ClientSampleId :

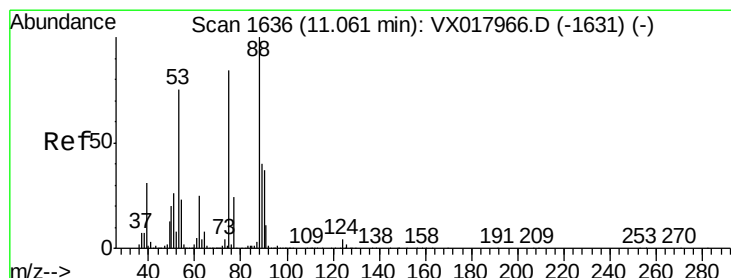
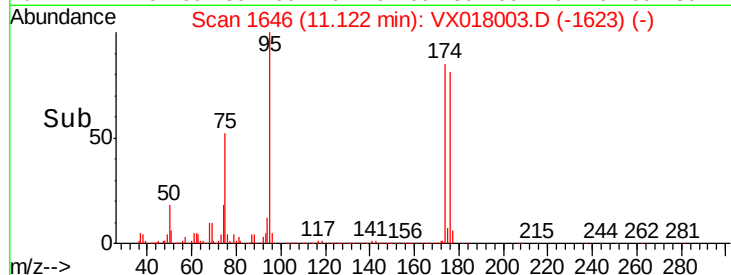
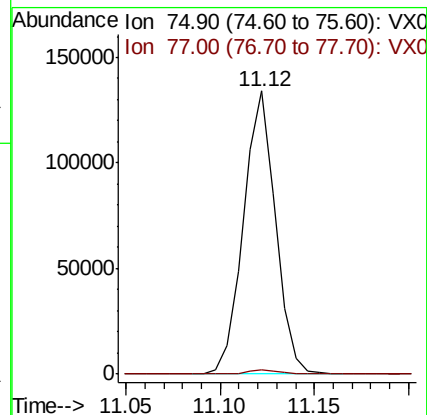
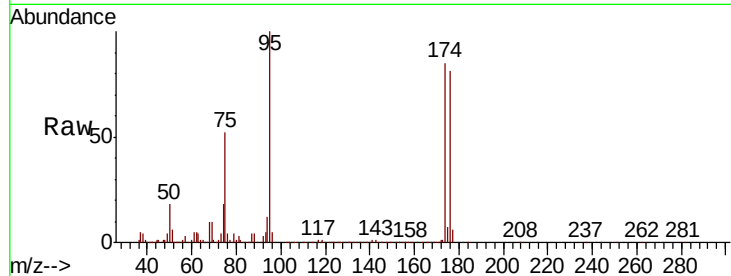
MW-BR1-081320

Tot Ion: 75 Resp: 158106

Ion Ratio Lower Upper

75 100

77 1.6 21.1 63.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 56.934 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018003.D

Acq: 19 Aug 2020 23:41

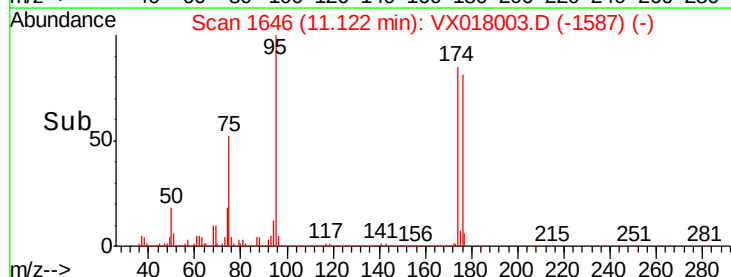
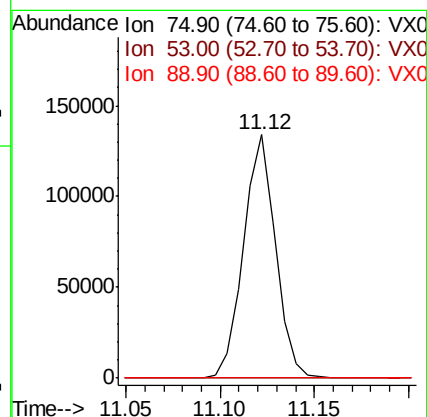
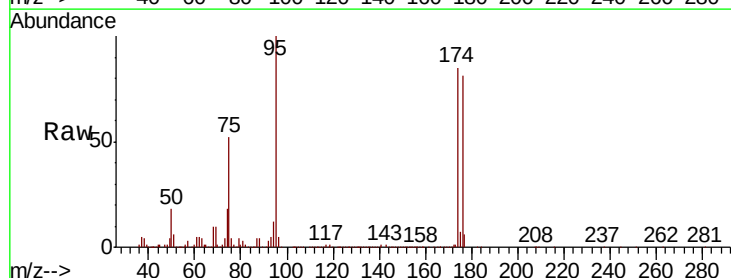
Tgt Ion: 75 Resp: 158106

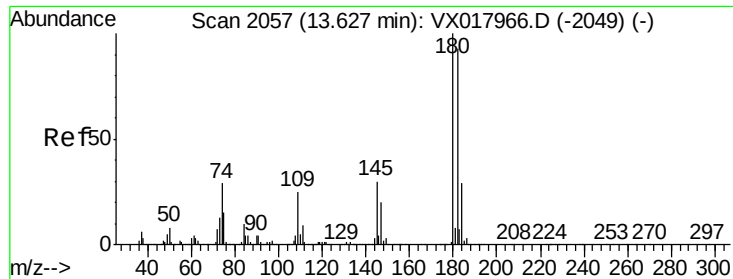
Ion Ratio Lower Upper

75 100

53 0.5 75.2 112.8#

89 0.1 38.4 57.6#

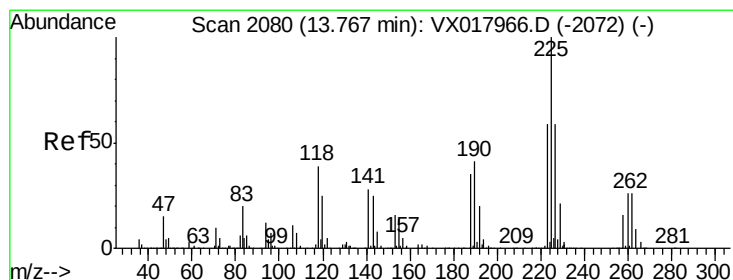
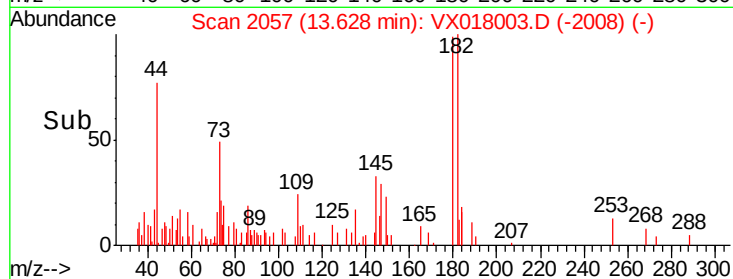
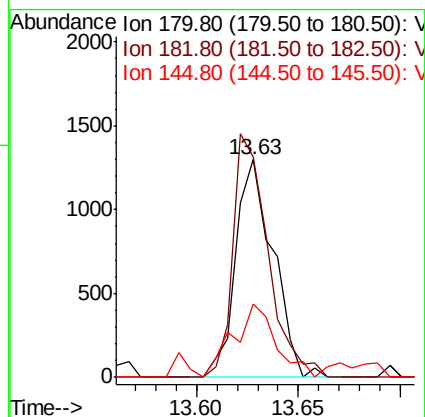
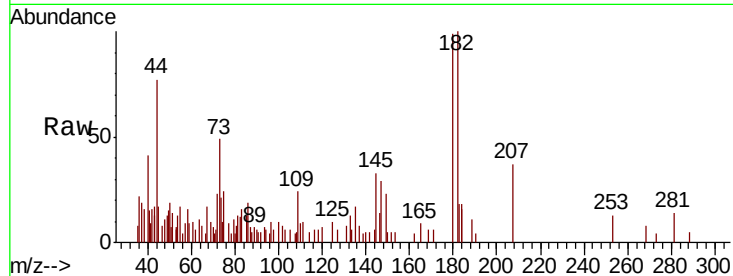




#93
 1,2,4-Trichlorobenzene
 Concen: 0.243 ug/l
 RT: 13.63 min Scan# 2057
 Delta R.T. 0.00 min
 Lab File: VX018003.D
 Acq: 19 Aug 2020 23:41

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-BR1-081320

Tot Ion:180 Resp: 1644
 Ion Ratio Lower Upper
 180 100
 182 104.7 48.8 146.4
 145 38.5 16.0 48.0



#94
 Hexachlorobutadiene
 Concen: 0.228 ug/l
 RT: 13.77 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VX018003.D
 Acq: 19 Aug 2020 23:41

Tgt Ion:225 Resp: 659
 Ion Ratio Lower Upper
 225 100
 223 85.0 32.1 96.3
 227 56.6 29.8 89.5

