

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080420\
 Data File : VX017763.D
 Acq On : 04 Aug 2020 12:22
 Operator : JC/SP
 Sample : L3512-04 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 05 01:46:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 24 05:48:09 2020
 Response via : Initial Calibration

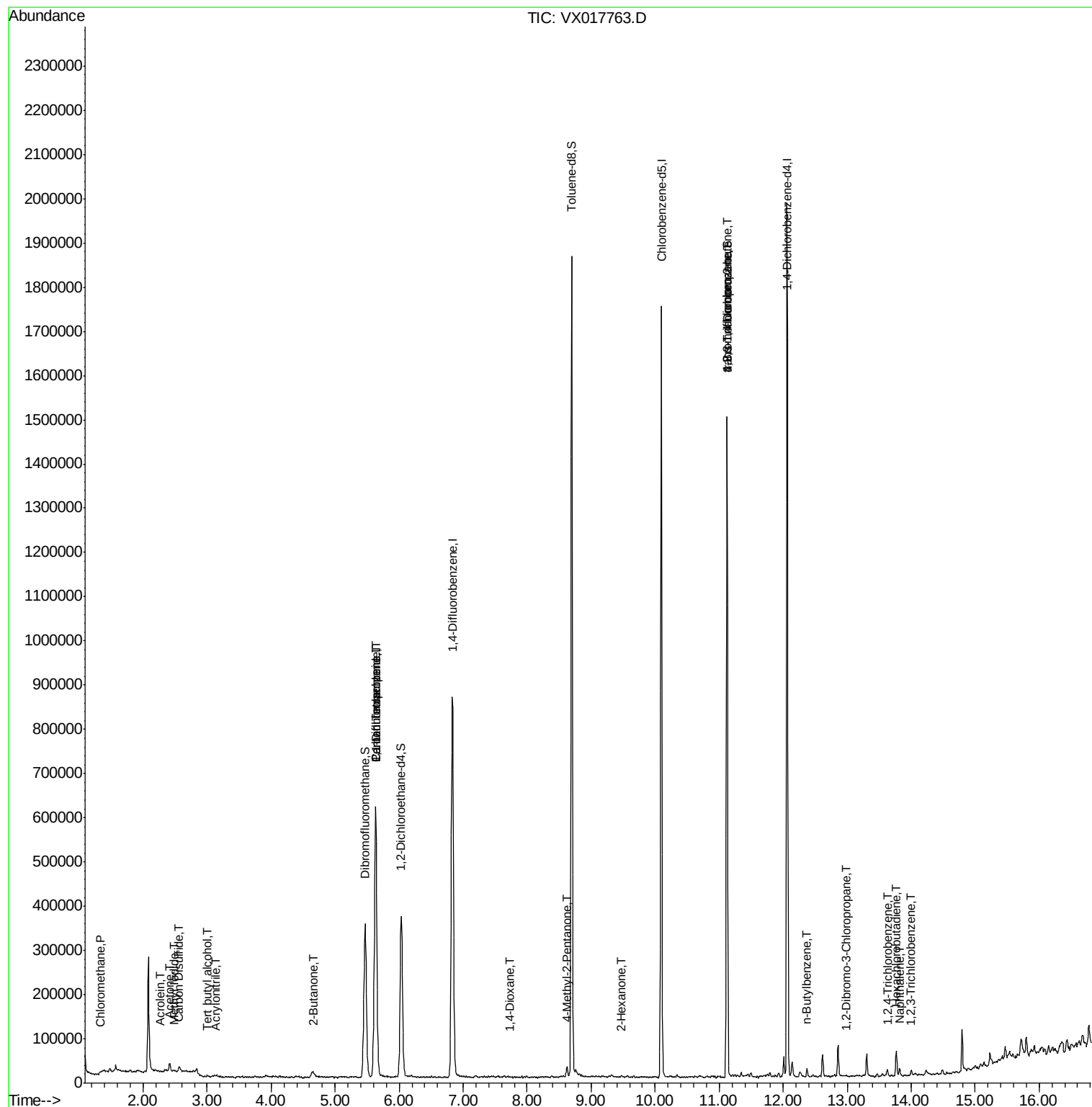
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	572309	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	862486	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	787162	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	403818	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	370672	50.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.84%	
35) Dibromofluoromethane	5.46	113	299584	51.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.88%	
50) Toluene-d8	8.70	98	1082975	52.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.08%	
62) 4-Bromofluorobenzene	11.12	95	375109	45.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.08%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.18	85	533	Below Cal		85
3) Chloromethane	1.32	50	1417	0.566 ug/l		97
5) Bromomethane	1.64	94	1133	Below Cal	#	76
6) Chloroethane	1.72	64	185	Below Cal	#	72
8) Diethyl Ether	2.17	74	45	Below Cal	#	1
10) Methyl Iodide	2.50	142	1897	0.239 ug/l	#	70
11) Tert butyl alcohol	3.01	59	2945	1.901 ug/l	#	75
13) Acrolein	2.26	56	406	4.486 ug/l	#	10
15) Acrylonitrile	3.12	53	1931	0.577 ug/l	#	75
16) Acetone	2.41	43	19207	5.936 ug/l	#	69
17) Carbon Disulfide	2.56	76	4941	0.275 ug/l		99
20) Methylene Chloride	2.83	84	3655	Below Cal	#	84
25) 2-Butanone	4.65	43	5287	1.150 ug/l	#	65
36) 1,1-Dichloropropene	5.63	75	42191	5.100 ug/l	#	51
38) Carbon Tetrachloride	5.63	117	57956	5.770 ug/l	#	18
49) 1,4-Dioxane	7.72	88	457	3.220 ug/l	#	33
51) 4-Methyl-2-Pentanone	8.62	43	13768	1.545 ug/l		93
59) 2-Hexanone	9.48	43	1630	0.243 ug/l		99
76) 1,2,3-Trichloropropane	11.12	75	193509	23.295 ug/l	#	35
81) trans-1,4-Dichloro-2-buten	11.12	75	193509	58.699 ug/l	#	12
89) n-Butylbenzene	12.37	91	6171	0.276 ug/l		99
92) 1,2-Dibromo-3-Chloropropan	12.98	75	118	2.622 ug/l	#	1
93) 1,2,4-Trichlorobenzene	13.63	180	3399	0.380 ug/l		88
94) Hexachlorobutadiene	13.76	225	2653	0.645 ug/l		96
95) Naphthalene	13.82	128	7539	0.283 ug/l	#	92
96) 1,2,3-Trichlorobenzene	14.01	180	2675	0.303 ug/l		84

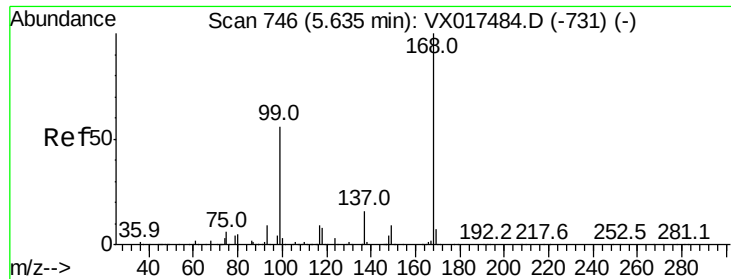
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Jul 24 05:48:09 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017763.D

Acq: 04 Aug 2020 12:22

Instrument :

MSVOA_X

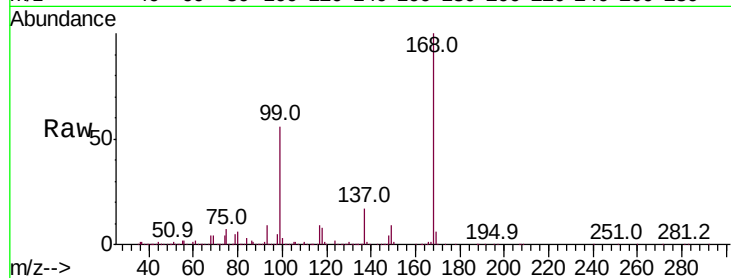
ClientSampleId :

Tot Ion:168 Resp: 572309

Ion Ratio Lower Upper

168 100

99 56.1 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

250000

200000

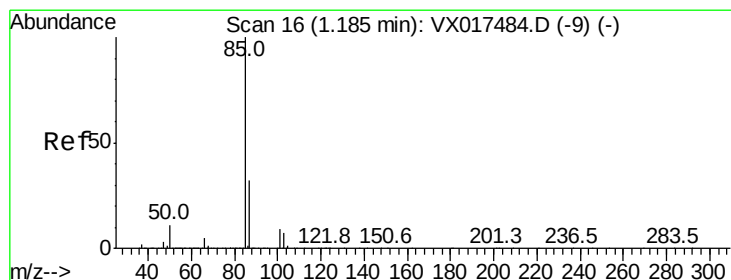
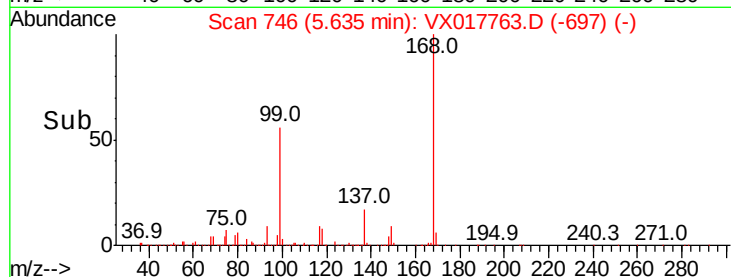
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 15

Delta R.T. -0.01 min

Lab File: VX017763.D

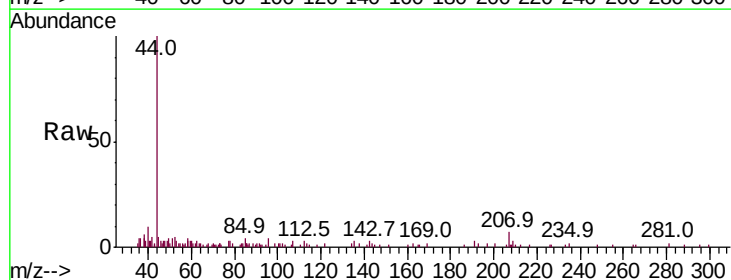
Acq: 04 Aug 2020 12:22

Tgt Ion: 85 Resp: 533

Ion Ratio Lower Upper

85 100

87 40.8 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

400

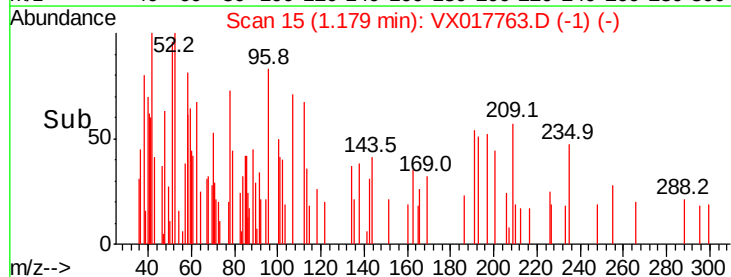
300

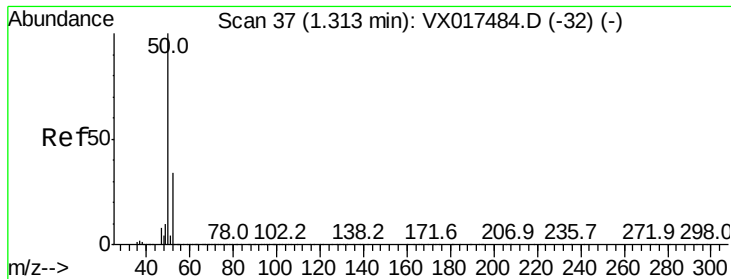
200

100

0

Time-->





#3

Chloromethane

Concen: 0.566 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017763.D

Acq: 04 Aug 2020 12:22

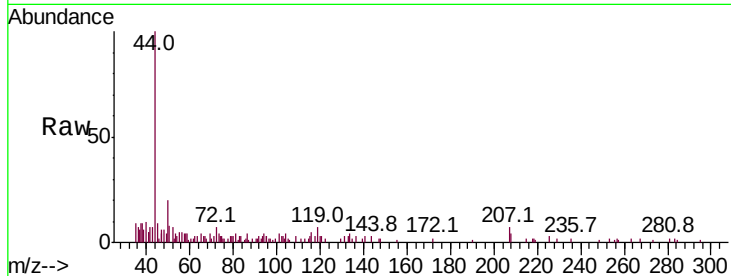
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 50 Resp: 1417

Ion Ratio Lower Upper

50 100

52 30.6 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

1000

800

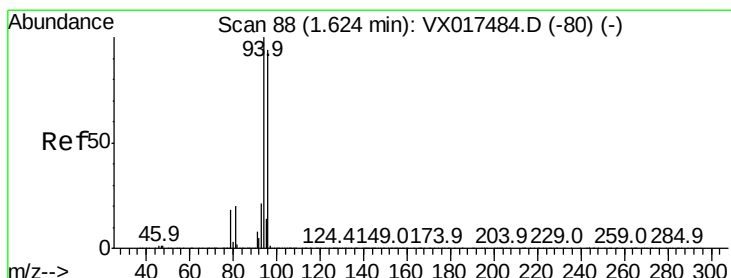
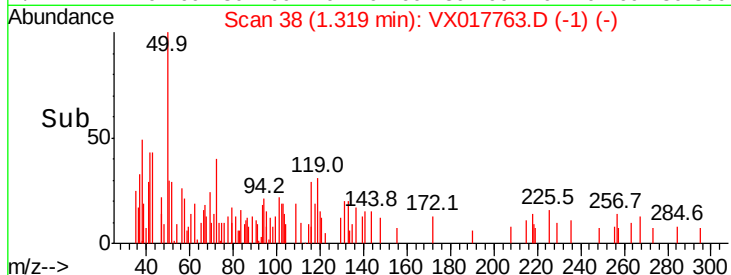
600

400

200

0

Time--> 1.25 1.30 1.35



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX017763.D

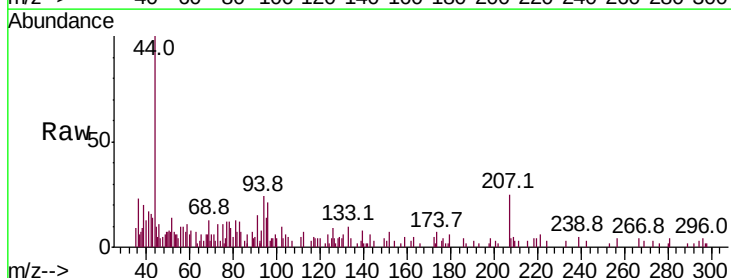
Acq: 04 Aug 2020 12:22

Tgt Ion: 94 Resp: 1133

Ion Ratio Lower Upper

94 100

96 69.4 74.1 111.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

800

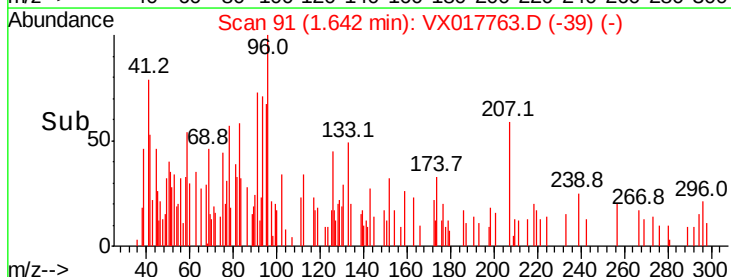
600

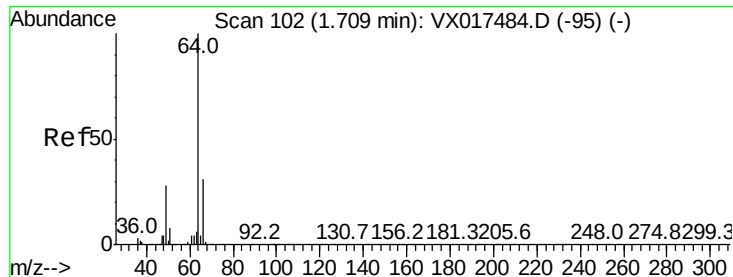
400

200

0

Time--> 1.60 1.65





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 104

Delta R.T. 0.01 min

Lab File: VX017763.D

Acq: 04 Aug 2020 12:22

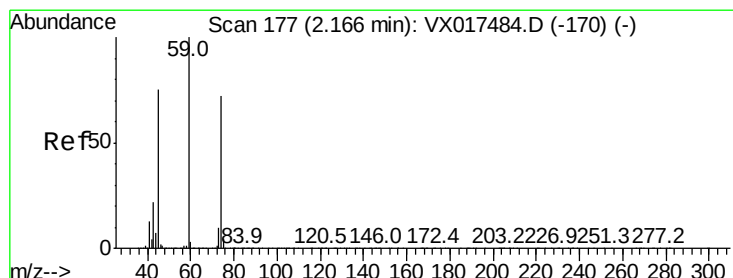
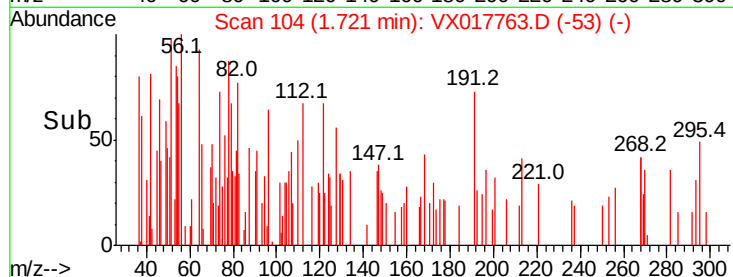
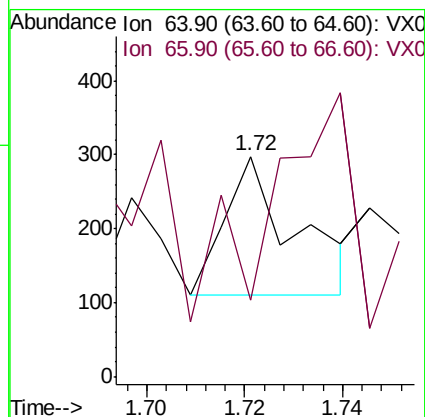
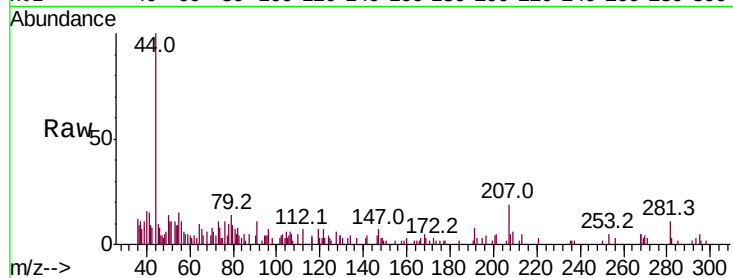
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 64 Resp: 185

Ion Ratio Lower Upper

64 100

66 15.5 24.9 37.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.17 min Scan# 178

Delta R.T. 0.01 min

Lab File: VX017763.D

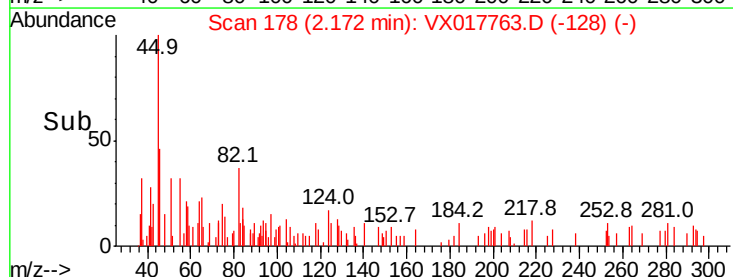
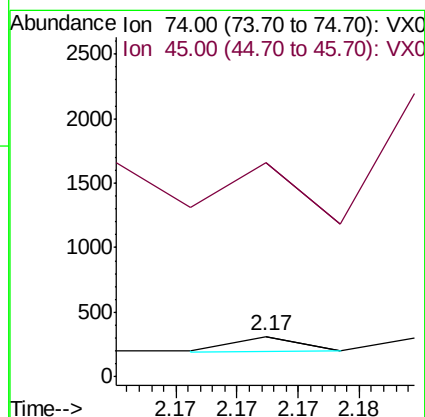
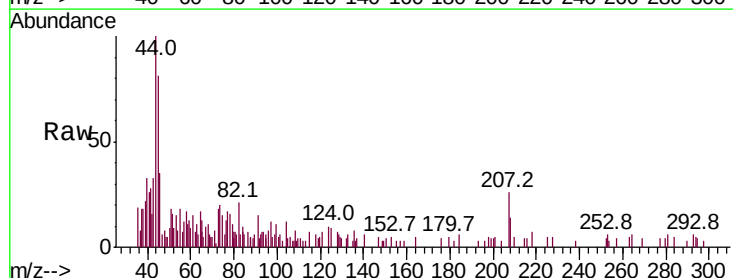
Acq: 04 Aug 2020 12:22

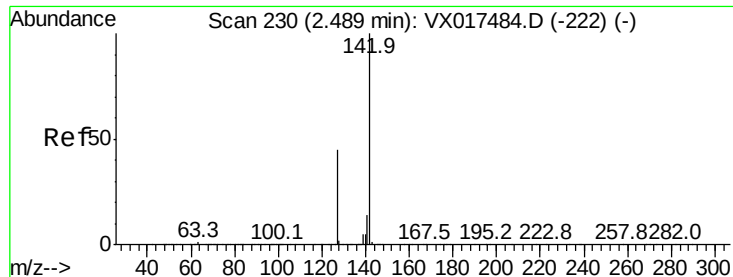
Tgt Ion: 74 Resp: 45

Ion Ratio Lower Upper

74 100

45 0.0 50.8 152.5#

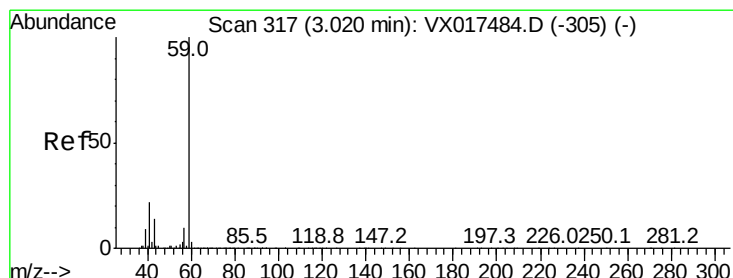
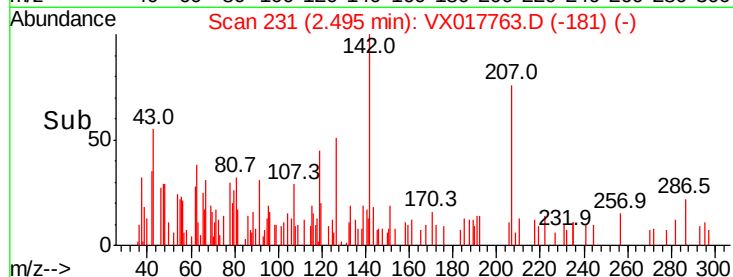
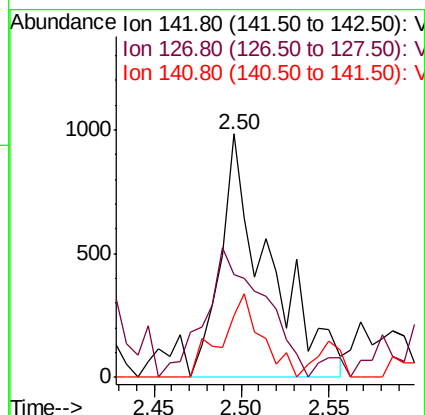
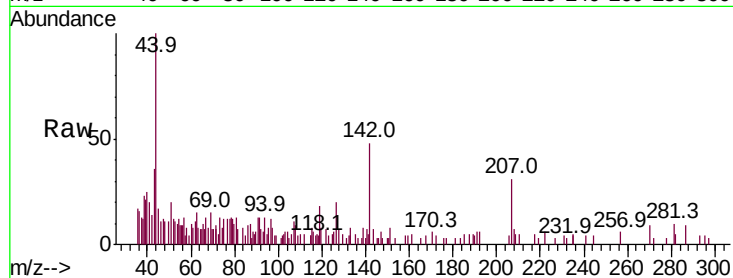




#10
Methyl Iodide
Concen: 0.239 ug/l
RT: 2.50 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX017763.D
Acq: 04 Aug 2020 12:22

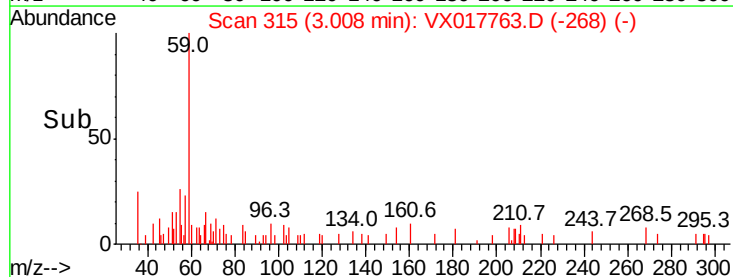
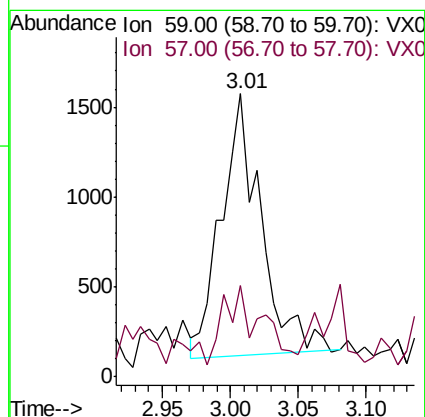
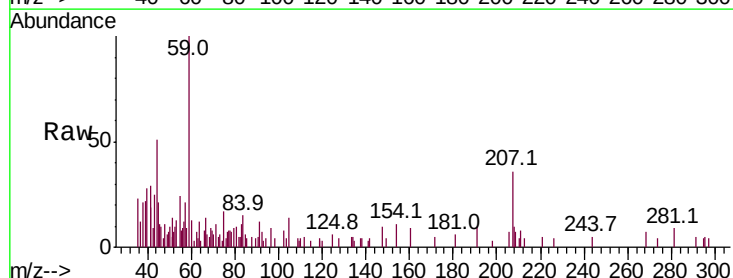
Instrument :
MSVOA_X
ClientSampled :

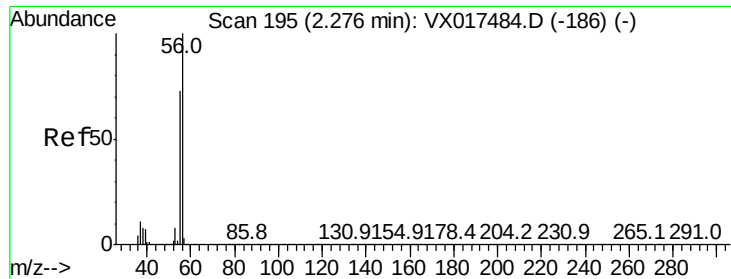
Tot Ion:142 Resp: 1897
Ion Ratio Lower Upper
142 100
127 63.4 35.9 53.9#
141 28.5 11.4 17.0#



#11
Tert butyl alcohol
Concen: 1.901 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX017763.D
Acq: 04 Aug 2020 12:22

Tgt Ion: 59 Resp: 2945
Ion Ratio Lower Upper
59 100
57 20.1 8.6 12.8#

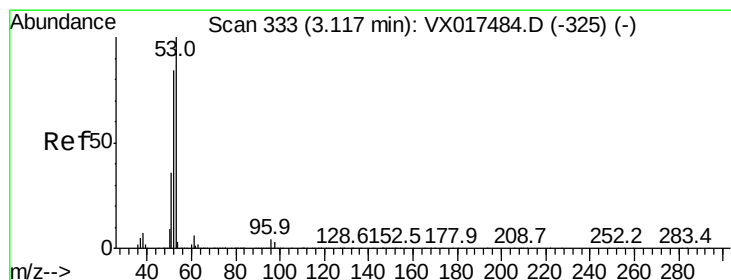
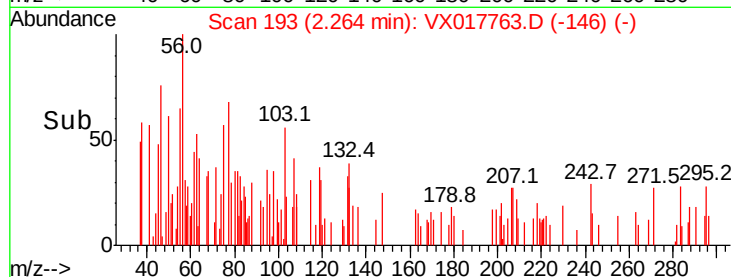
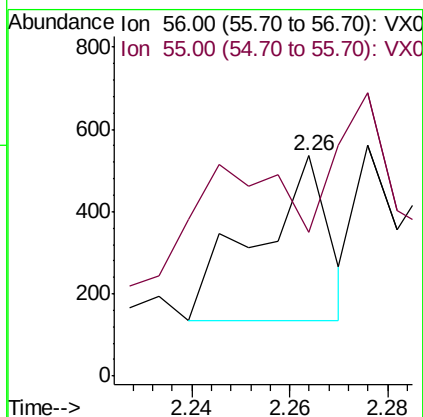
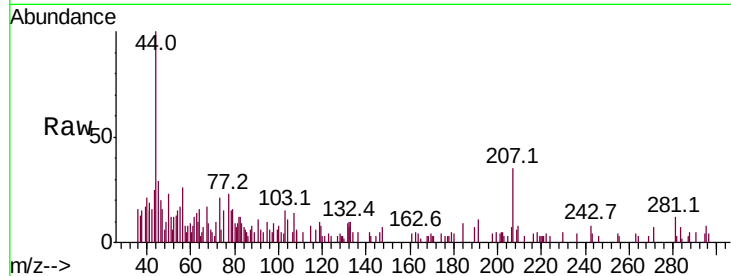




#13
Acrolein
Concen: 4.486 ug/l
RT: 2.26 min Scan# 193
Delta R.T. -0.01 min
Lab File: VX017763.D
Acq: 04 Aug 2020 12:22

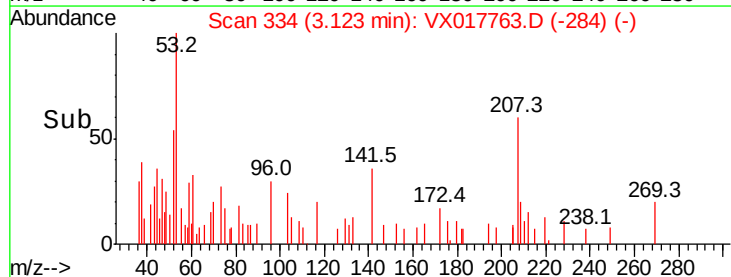
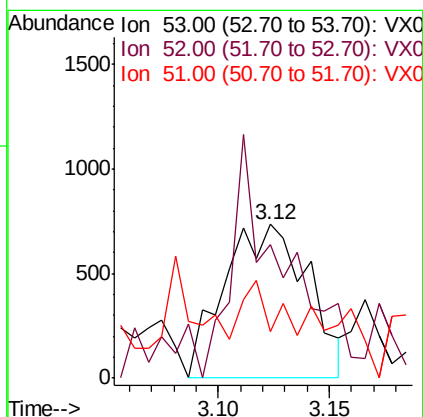
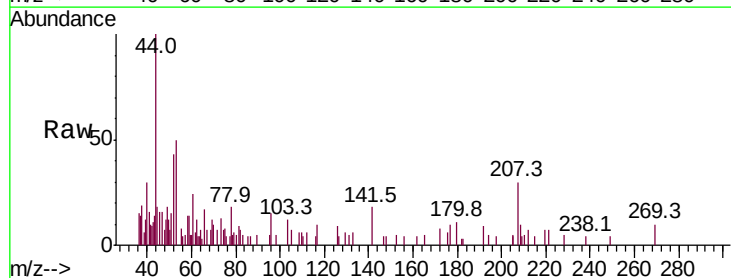
Instrument :
MSVOA_X
ClientSampled :

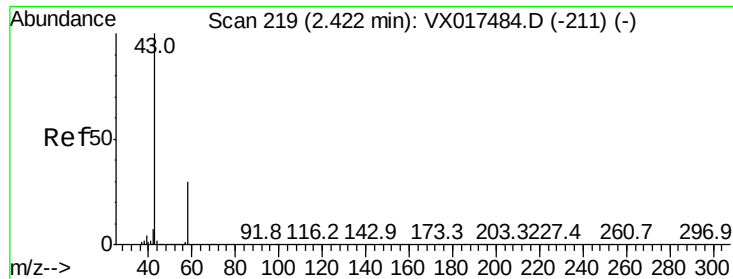
Tot Ion: 56 Resp: 406
Ion Ratio Lower Upper
56 100
55 146.8 57.4 86.2#



#15
Acrylonitrile
Concen: 0.577 ug/l
RT: 3.12 min Scan# 334
Delta R.T. 0.01 min
Lab File: VX017763.D
Acq: 04 Aug 2020 12:22

Tgt Ion: 53 Resp: 1931
Ion Ratio Lower Upper
53 100
52 100.4 66.6 99.8#
51 13.3 29.4 44.2#

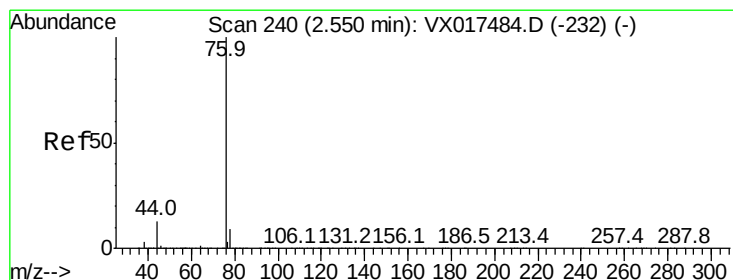
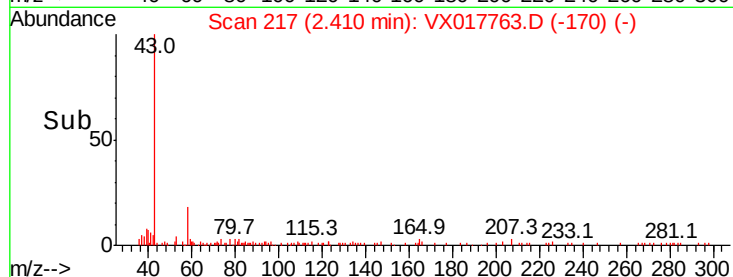
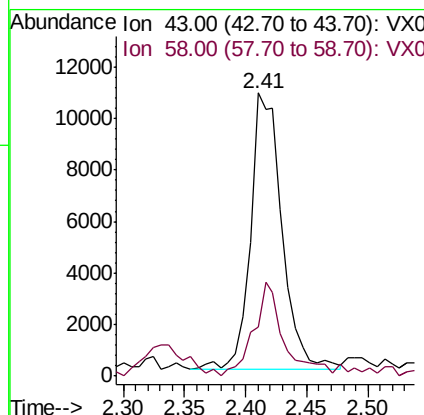
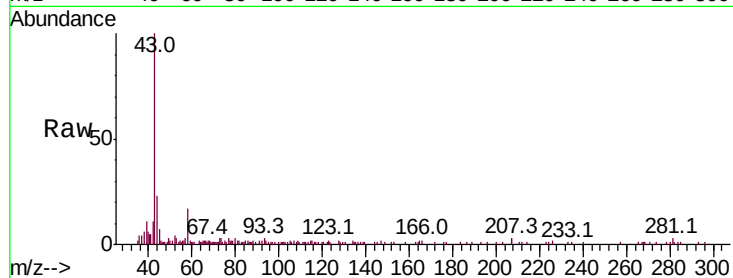




#16
Acetone
Concen: 5.936 ug/l
RT: 2.41 min Scan# 217
Delta R.T. -0.01 min
Lab File: VX017763.D
Acq: 04 Aug 2020 12:22

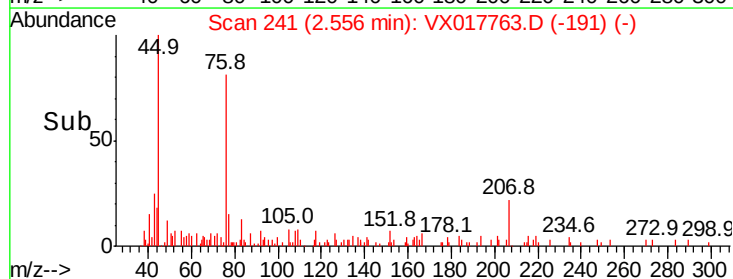
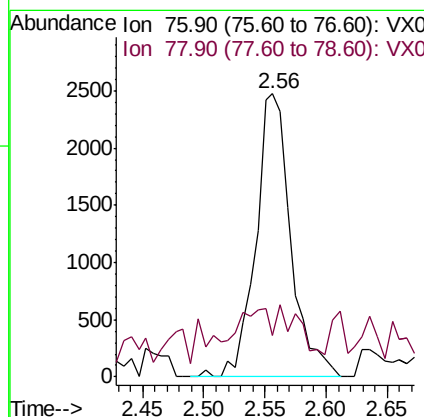
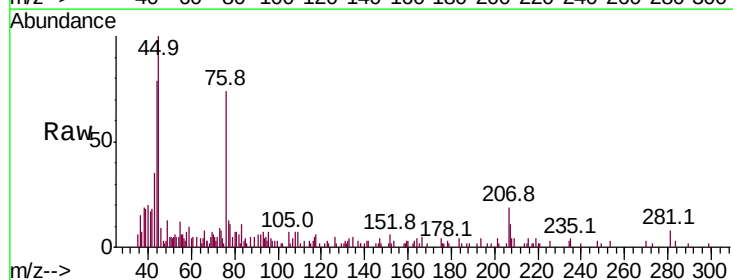
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MSVOA_X
ClientSampleId :

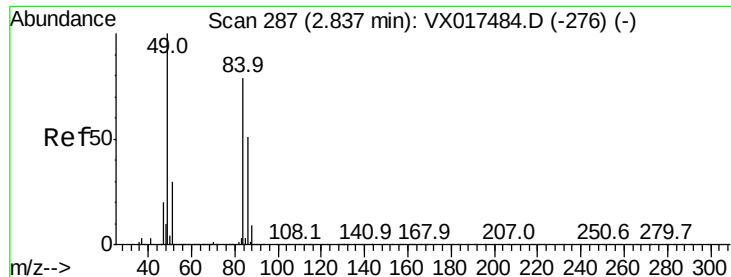
Tot Ion: 43 Resp: 19207
Ion Ratio Lower Upper
43 100
58 13.4 24.2 36.4#



#17
Carbon Disulfide
Concen: 0.275 ug/l
RT: 2.56 min Scan# 241
Delta R.T. 0.01 min
Lab File: VX017763.D
Acq: 04 Aug 2020 12:22

Tgt Ion: 76 Resp: 4941
Ion Ratio Lower Upper
76 100
78 9.9 7.5 11.3

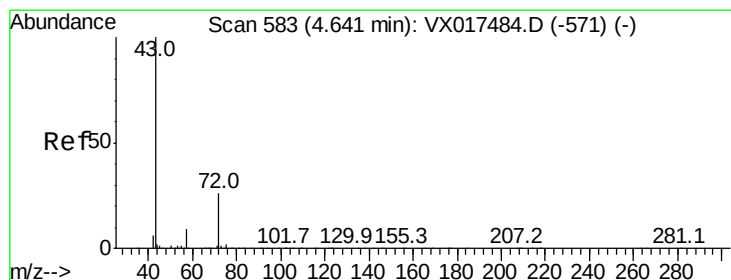
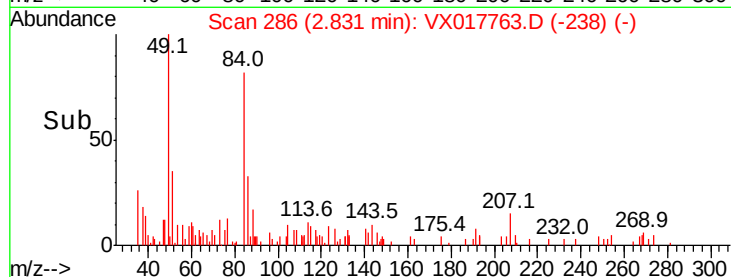
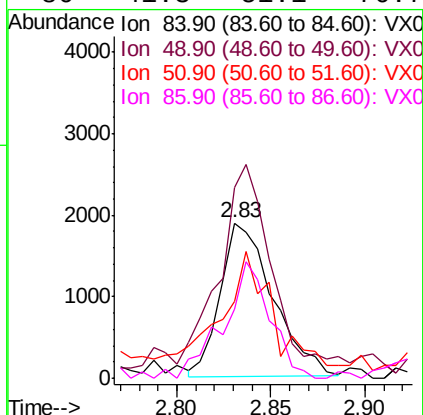
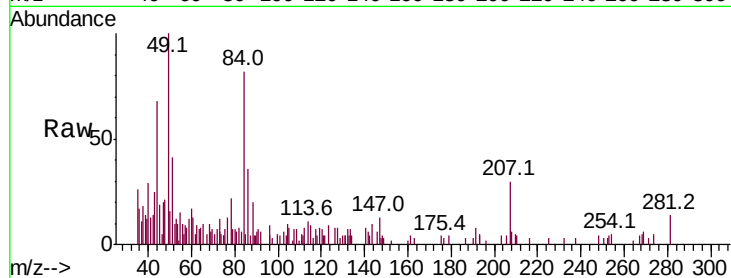




#20
Methylene Chloride
Concen: Below Cal
RT: 2.83 min Scan# 286
Delta R.T. -0.01 min
Lab File: VX017763.D
Acq: 04 Aug 2020 12:22

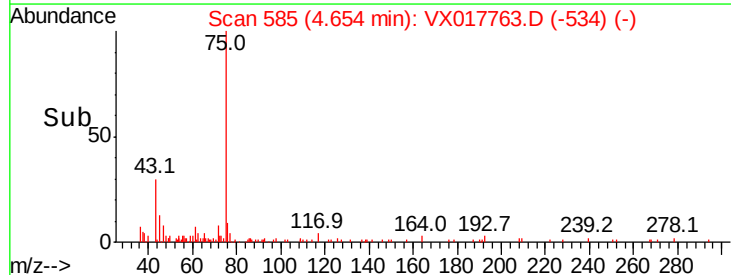
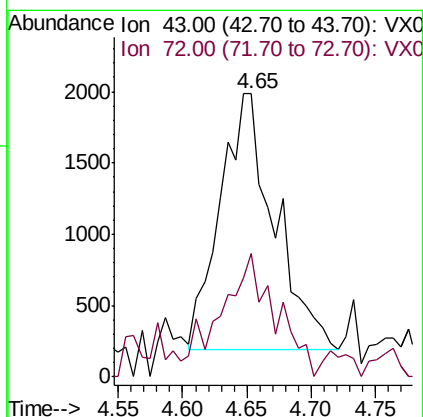
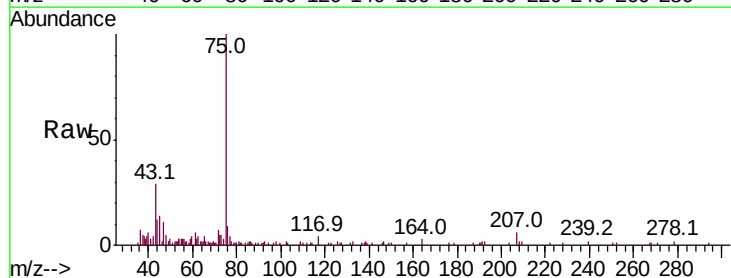
Instrument :
MSVOA_X
ClientSampleId :

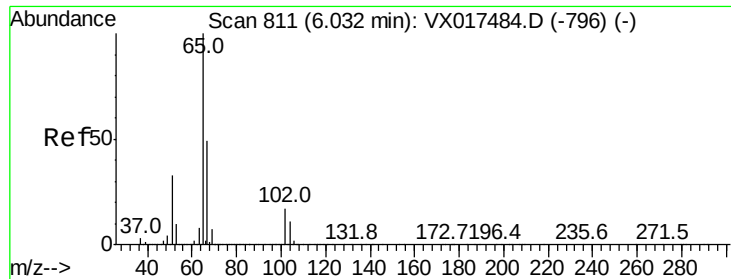
Tot Ion: 84 Resp: 3655
Ion Ratio Lower Upper
84 100
49 111.5 100.3 150.5
51 42.9 30.5 45.7
86 41.3 51.1 76.7#



#25
2-Butanone
Concen: 1.150 ug/l
RT: 4.65 min Scan# 585
Delta R.T. 0.01 min
Lab File: VX017763.D
Acq: 04 Aug 2020 12:22

Tgt Ion: 43 Resp: 5287
Ion Ratio Lower Upper
43 100
72 40.9 19.0 28.4#





#33

1,2-Dichloroethane-d4

Concen: 50.421 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017763.D

Acq: 04 Aug 2020 12:22

Instrument :

MSVOA_X

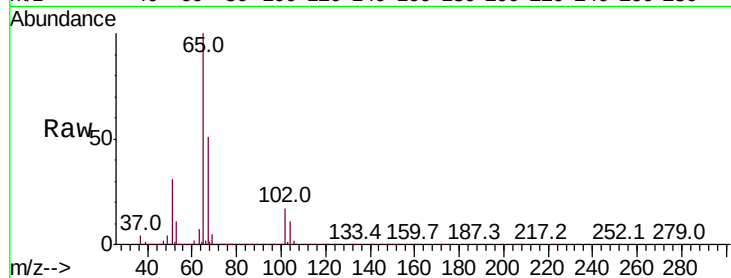
ClientSampleId :

Tot Ion: 65 Resp: 370672

Ion Ratio Lower Upper

65 100

67 50.4 0.0 102.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.03

150000

100000

50000

0

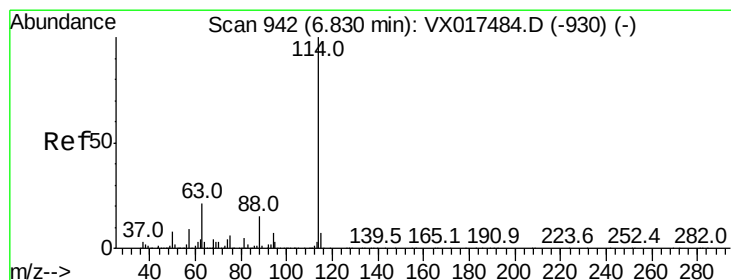
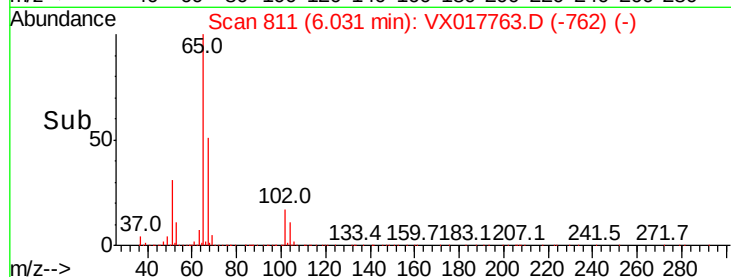
Time-->

5.90

6.00

6.10

6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017763.D

Acq: 04 Aug 2020 12:22

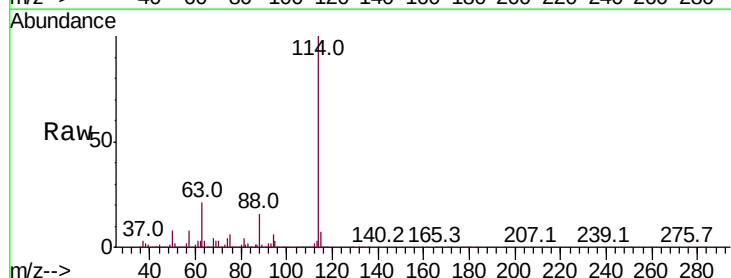
Tgt Ion: 114 Resp: 862486

Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.6

88 15.9 0.0 33.4



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

6.83

500000

400000

300000

200000

100000

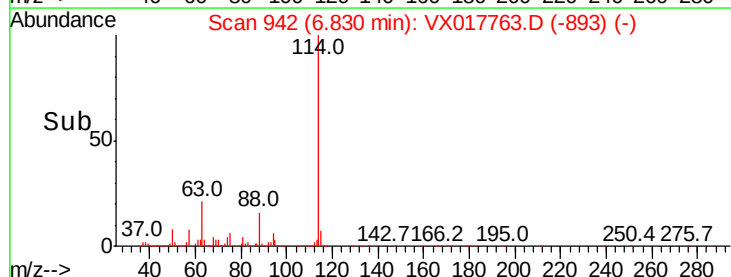
0

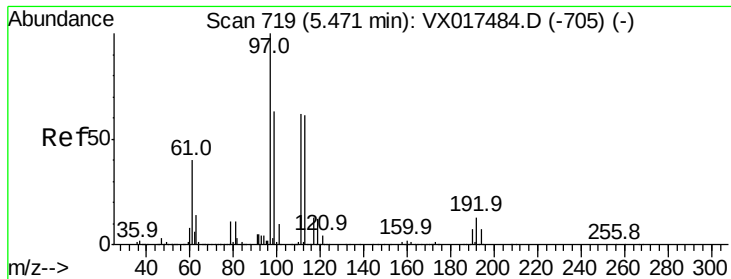
Time-->

6.70

6.80

6.90

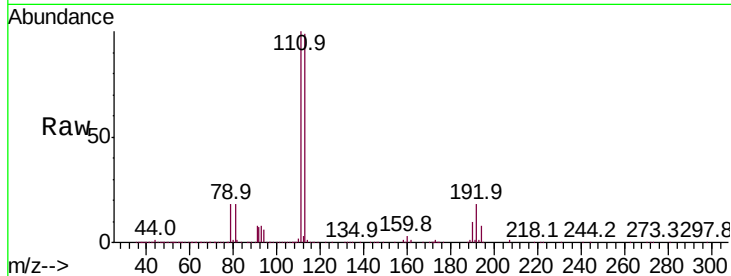




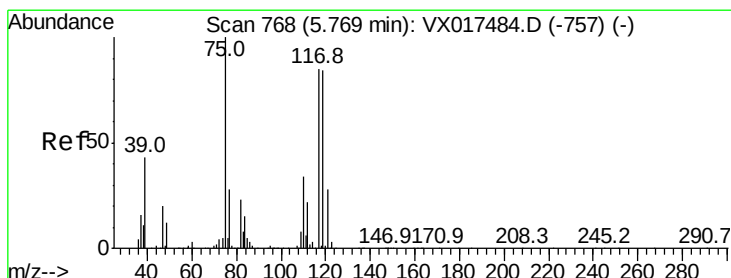
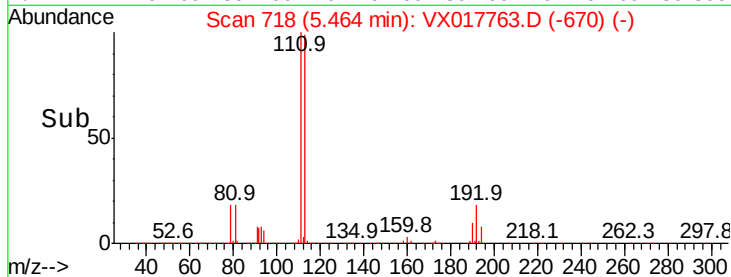
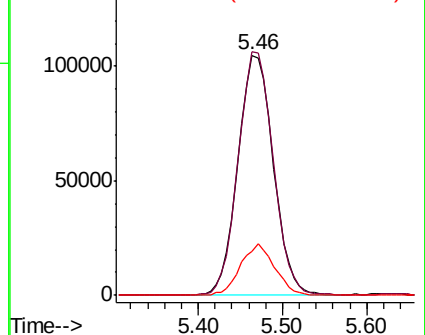
#35
 Dibromofluoromethane
 Concen: 51.936 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. -0.01 min
 Lab File: VX017763.D
 Acq: 04 Aug 2020 12:22

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	100.4	80.7	121.1
192	20.6	16.9	25.3

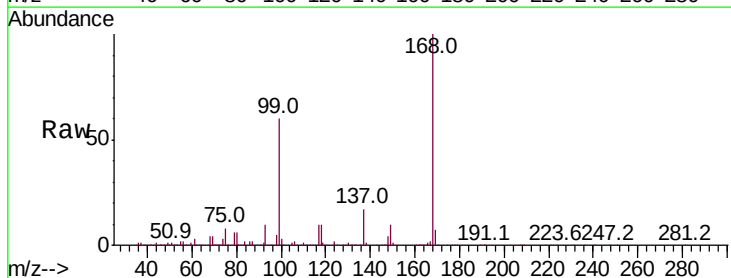


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

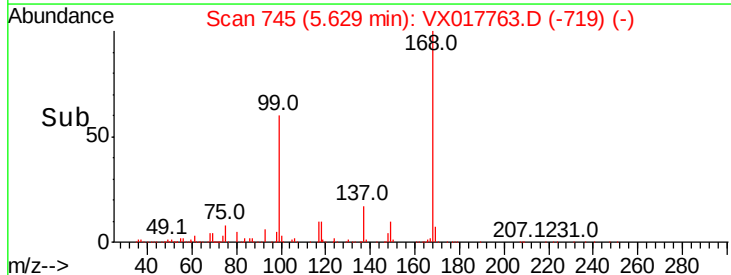
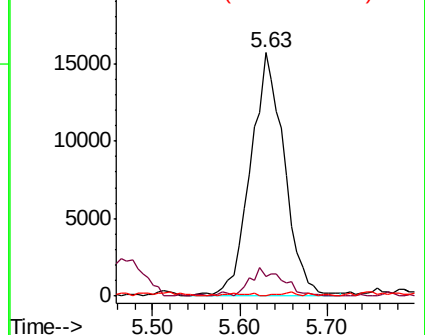


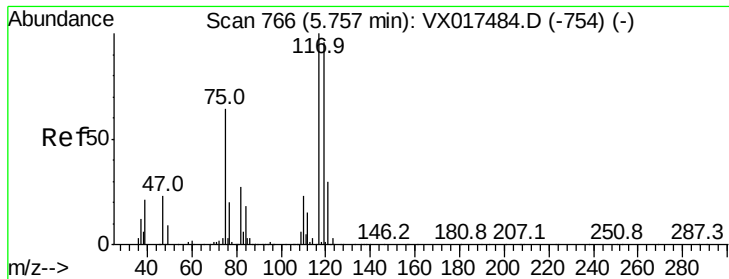
#36
 1,1-Dichloropropene
 Concen: 5.100 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX017763.D
 Acq: 04 Aug 2020 12:22

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.9	18.1	54.3#
77	0.0	24.6	37.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.770 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX017763.D

Acq: 04 Aug 2020 12:22

Instrument :

MSVOA_X

ClientSampled :

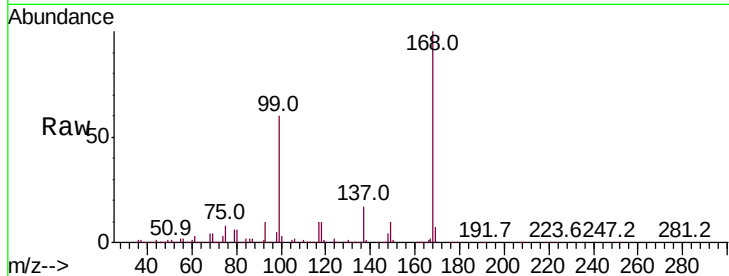
Tot Ion:117 Resp: 57956

Ion Ratio Lower Upper

117 100

119 6.2 75.4 113.0#

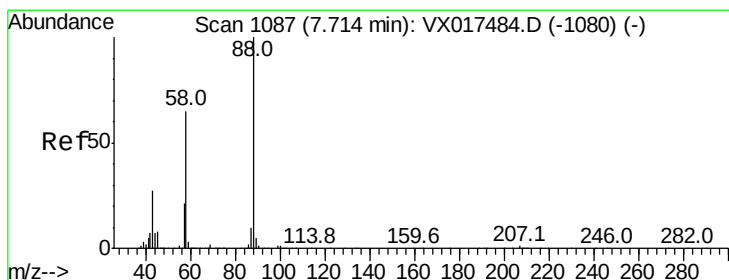
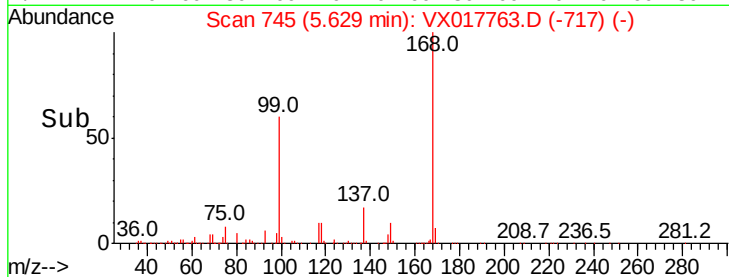
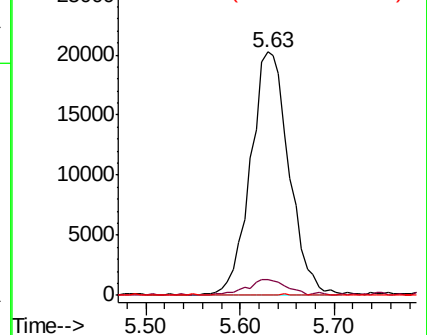
121 0.0 24.3 36.5#



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: 3.220 ug/l

RT: 7.72 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX017763.D

Acq: 04 Aug 2020 12:22

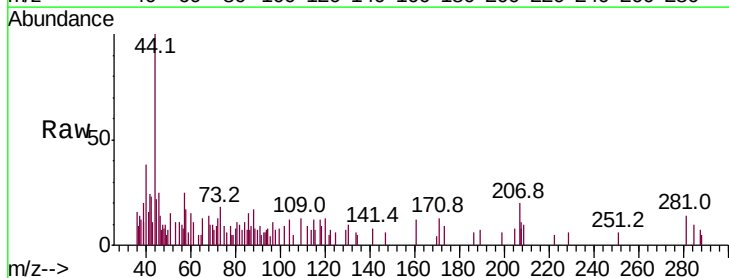
Tgt Ion: 88 Resp: 457

Ion Ratio Lower Upper

88 100

43 80.5 27.8 41.6#

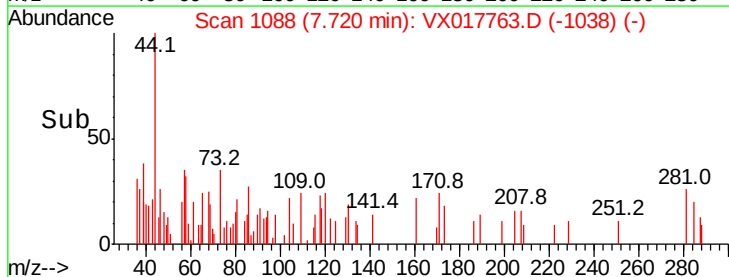
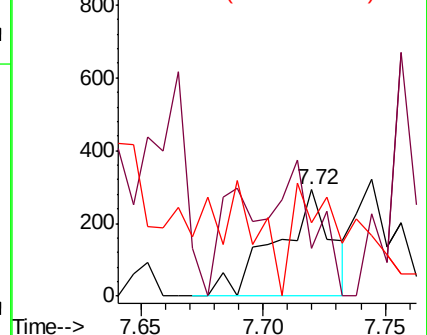
58 123.6 58.3 87.5#

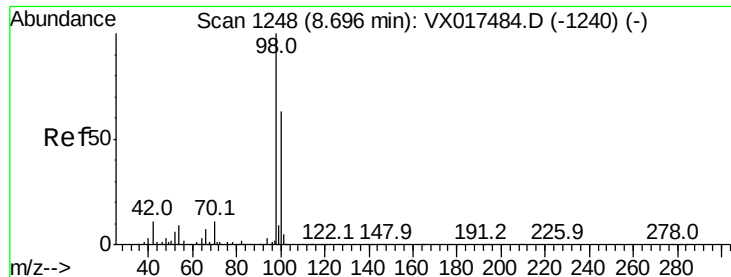


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 52.043 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017763.D

Acq: 04 Aug 2020 12:22

Instrument :

MSVOA_X

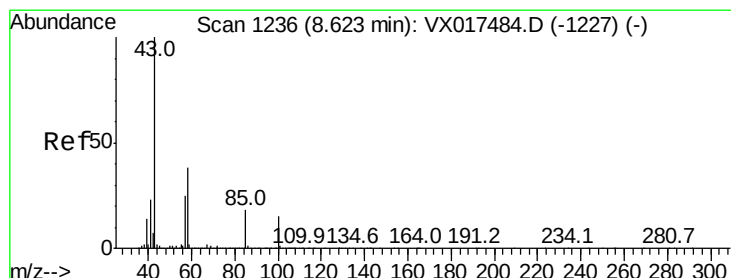
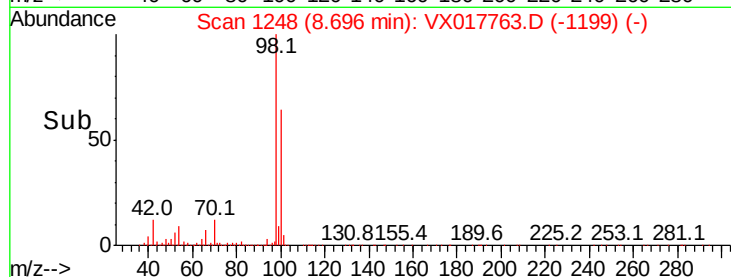
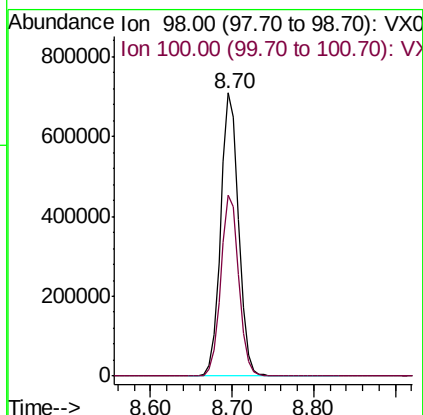
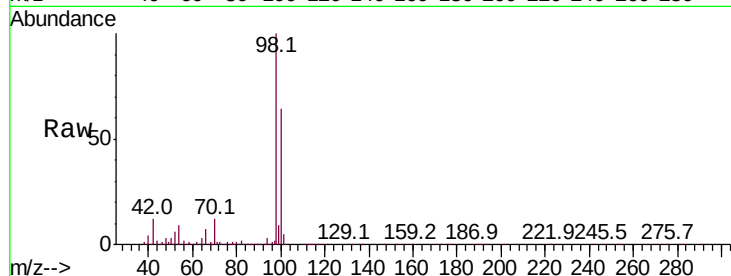
ClientSampleId :

Tot Ion: 98 Resp: 1082975

Ion Ratio Lower Upper

98 100

100 64.0 52.3 78.5



#51

4-Methyl-2-Pentanone

Concen: 1.545 ug/l

RT: 8.62 min Scan# 1236

Delta R.T. -0.00 min

Lab File: VX017763.D

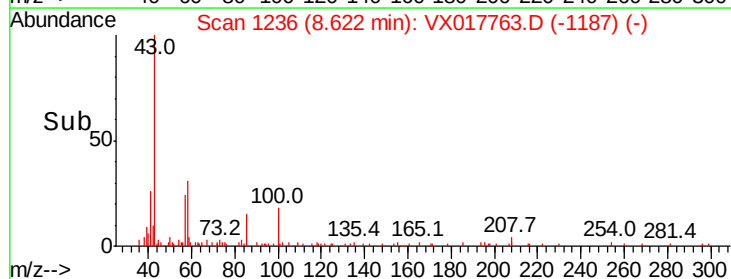
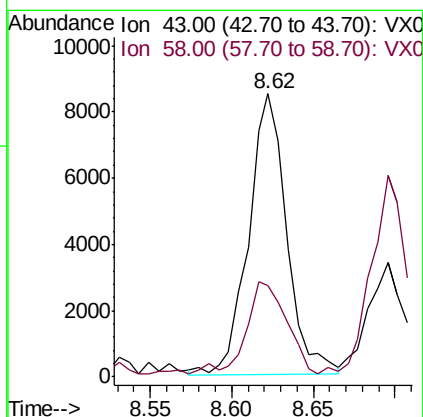
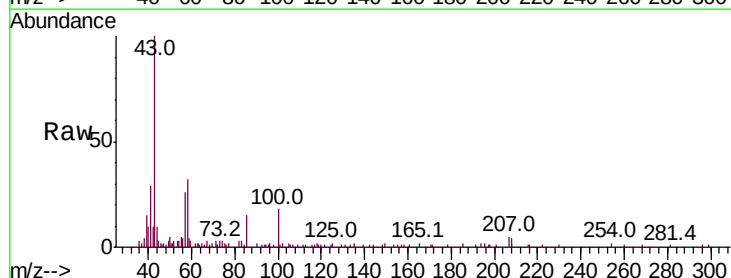
Acq: 04 Aug 2020 12:22

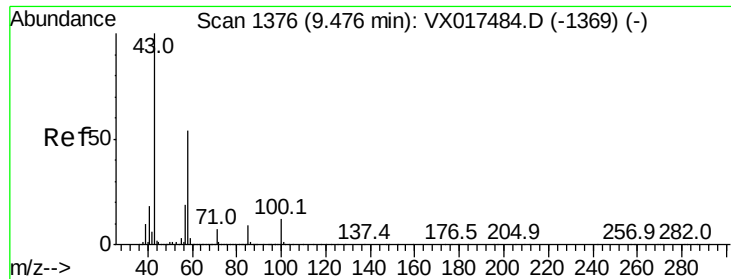
Tgt Ion: 43 Resp: 13768

Ion Ratio Lower Upper

43 100

58 34.5 31.0 46.4

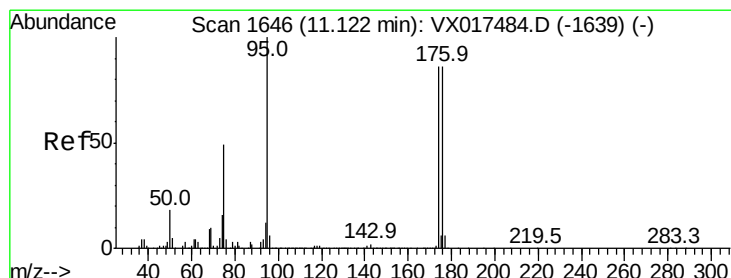
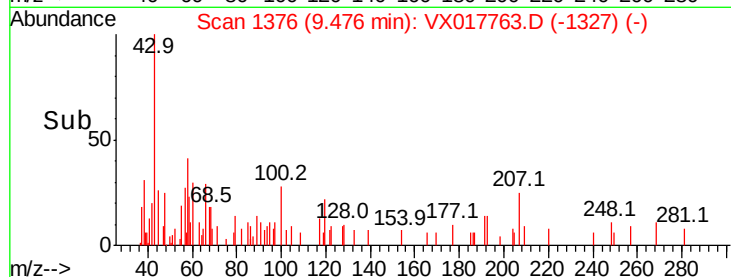
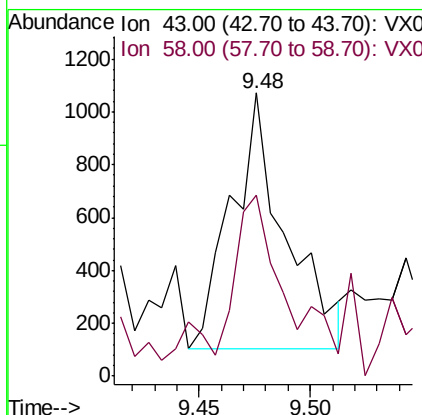
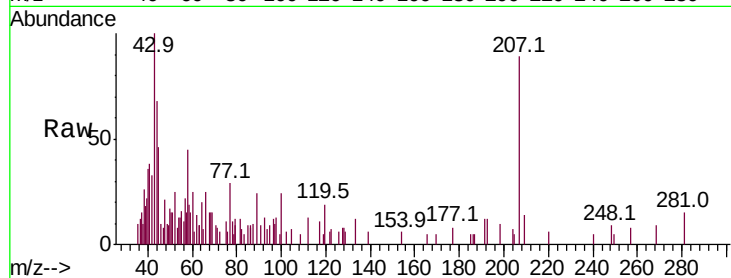




#59
 2-Hexanone
 Concen: 0.243 ug/l
 RT: 9.48 min Scan# 1376
 Delta R.T. -0.00 min
 Lab File: VX017763.D
 Acq: 04 Aug 2020 12:22

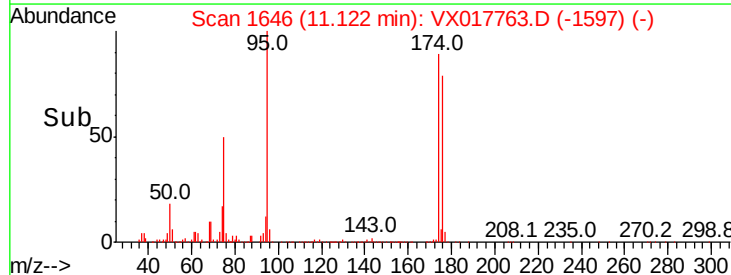
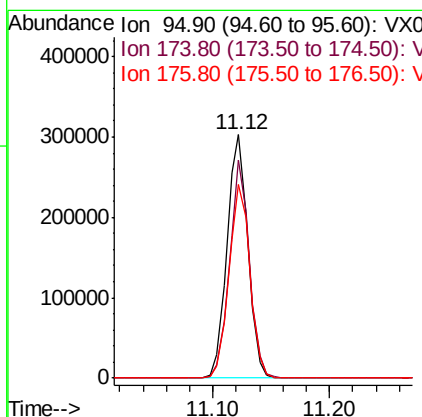
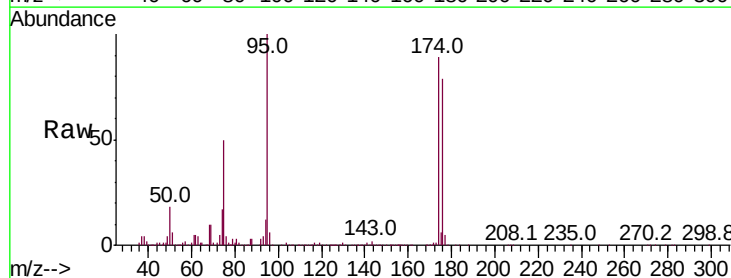
Instrument :
 MSVOA_X
 ClientSampled :

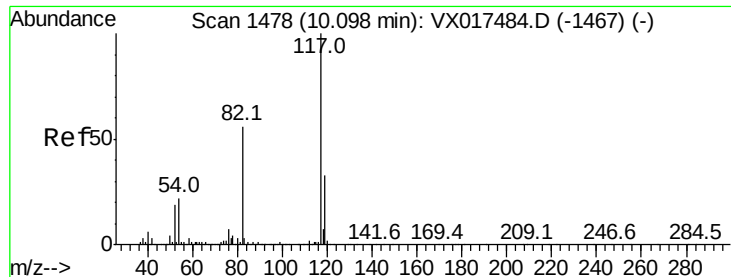
Tot Ion: 43 Resp: 1630
 Ion Ratio Lower Upper
 43 100
 58 52.5 26.6 79.8



#62
 4-Bromofluorobenzene
 Concen: 45.043 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. -0.00 min
 Lab File: VX017763.D
 Acq: 04 Aug 2020 12:22

Tgt Ion: 95 Resp: 375109
 Ion Ratio Lower Upper
 95 100
 174 85.1 0.0 169.0
 176 80.2 0.0 161.0

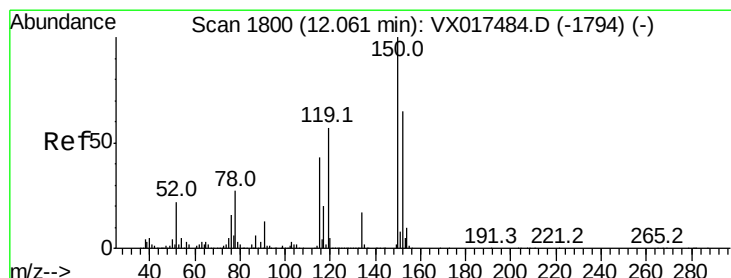
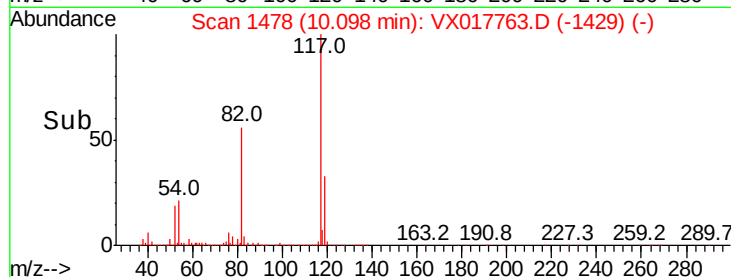
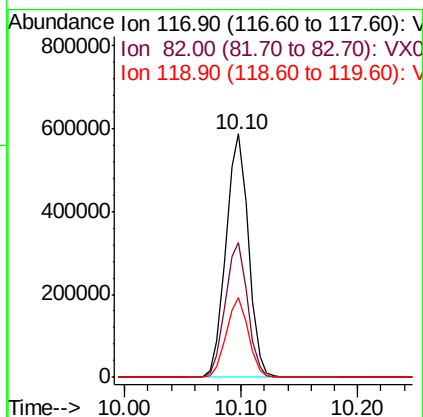
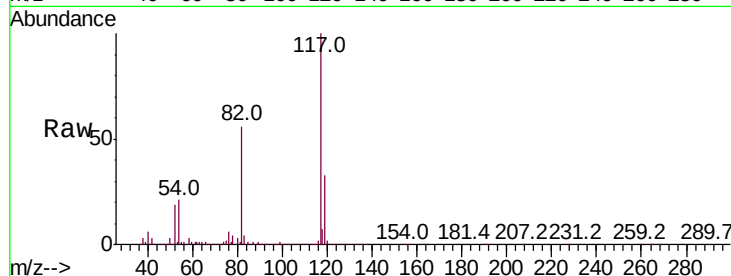




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017763.D
Acq: 04 Aug 2020 12:22

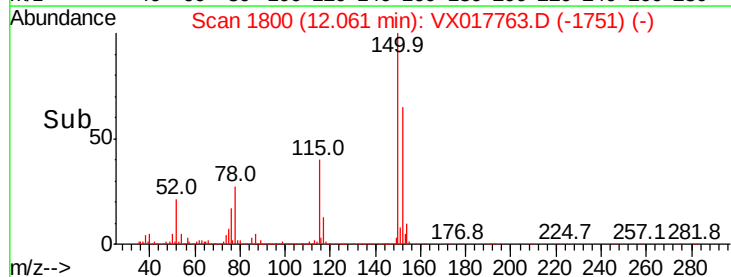
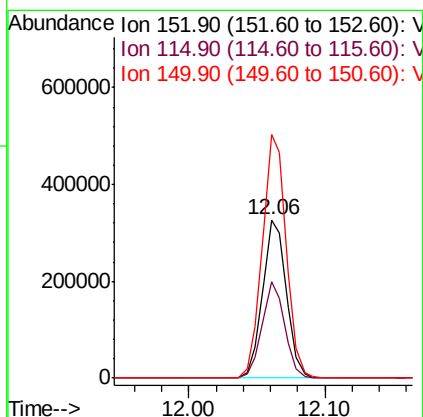
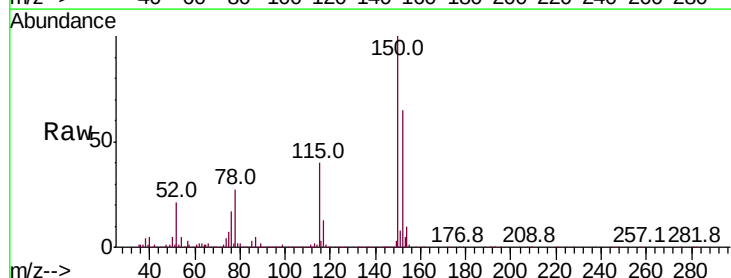
Instrument :
MSVOA_X
ClientSampleId :

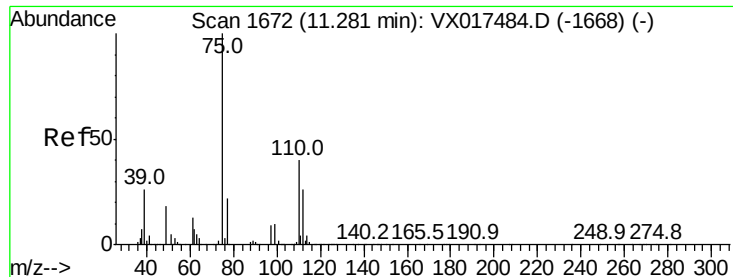
Tot Ion	Ratio	Lower	Upper
117	100		
82	55.6	44.0	66.0
119	32.6	25.4	38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017763.D
Acq: 04 Aug 2020 12:22

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.9	65.5	196.6#
150	154.5	0.0	412.6





#76

1,2,3-Trichloropropane

Concen: 23.295 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017763.D

Acq: 04 Aug 2020 12:22

Instrument :

MSVOA_X

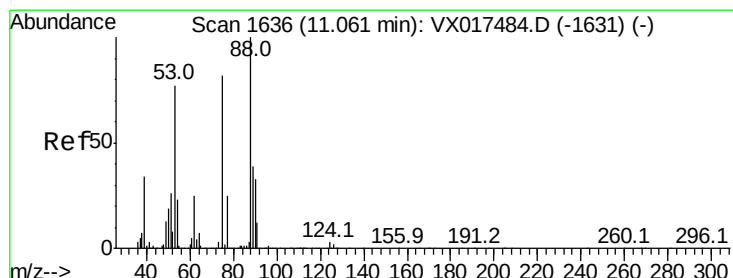
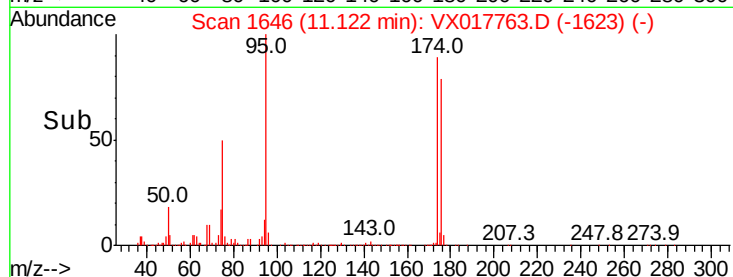
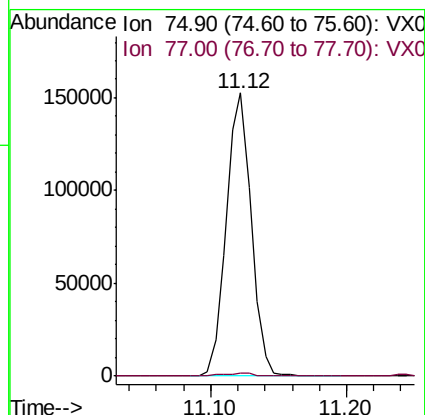
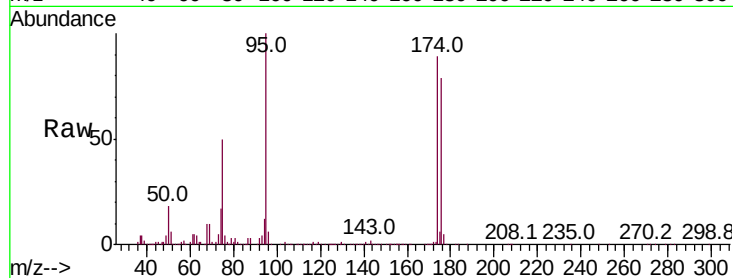
ClientSampleId :

Tot Ion: 75 Resp: 193509

Ion Ratio Lower Upper

75 100

77 1.4 21.8 65.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 58.699 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017763.D

Acq: 04 Aug 2020 12:22

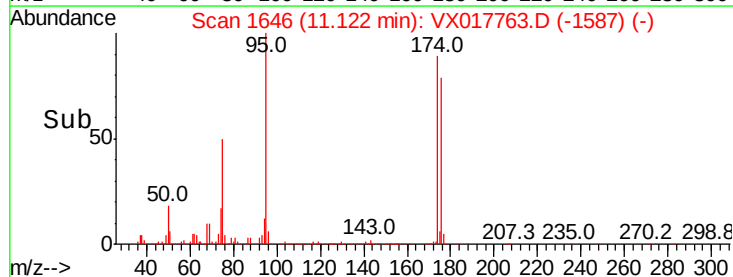
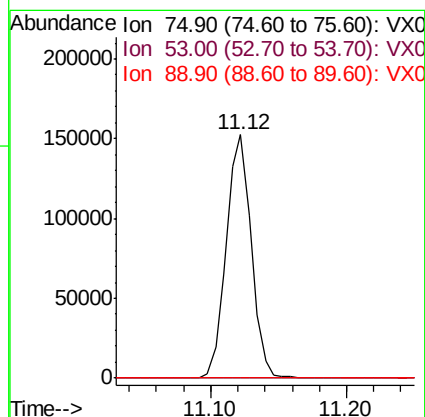
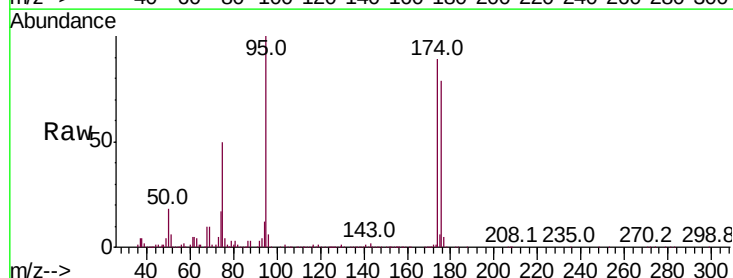
Tgt Ion: 75 Resp: 193509

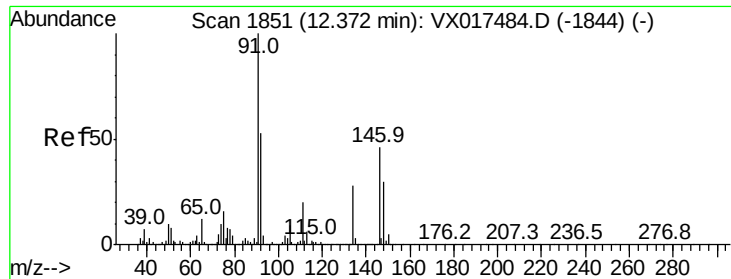
Ion Ratio Lower Upper

75 100

53 0.4 75.9 113.9#

89 0.1 37.8 56.6#

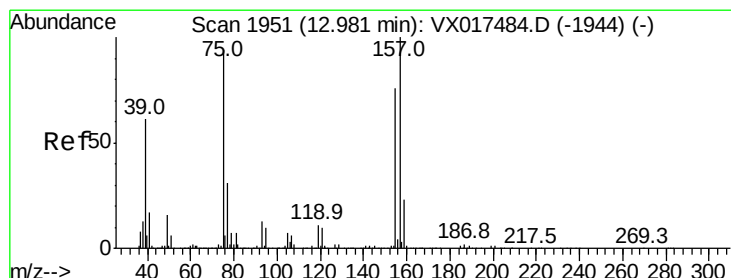
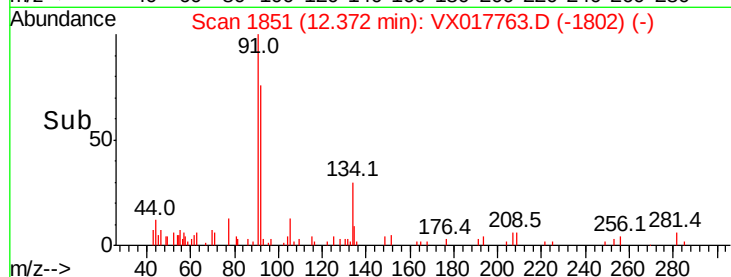
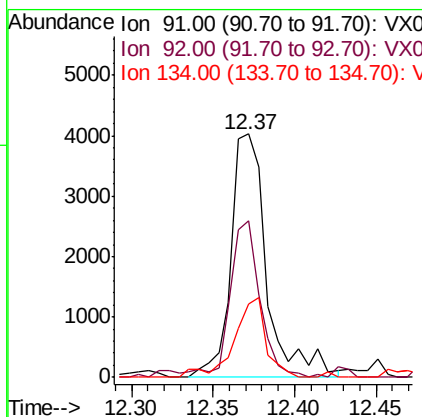
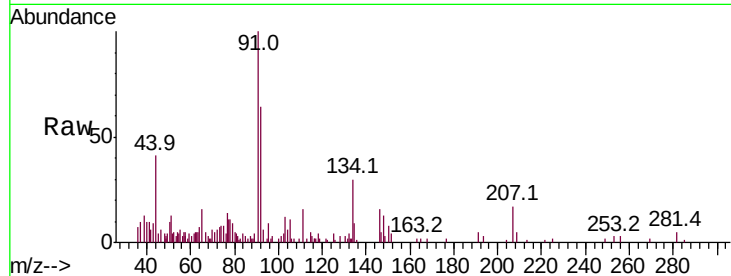




#89
n-Butylbenzene
Concen: 0.276 ug/l
RT: 12.37 min Scan# 1851
Delta R.T. -0.00 min
Lab File: VX017763.D
Acq: 04 Aug 2020 12:22

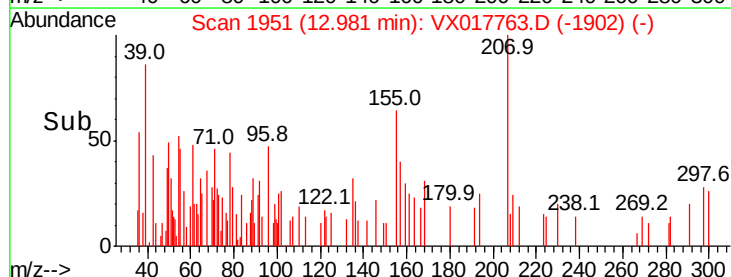
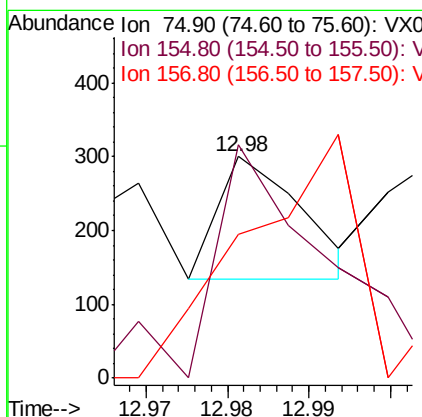
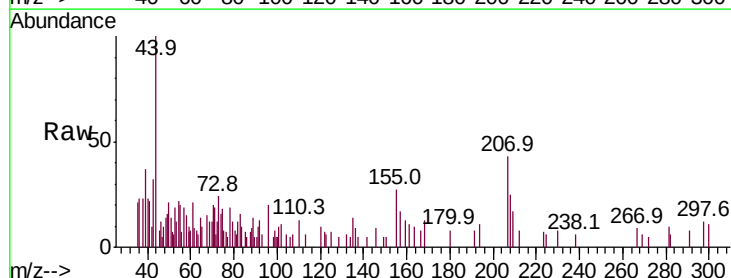
Instrument :
MSVOA_X
ClientSampled :

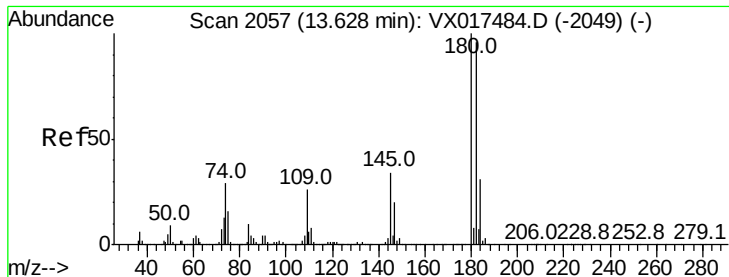
Tot Ion: 91 Resp: 6171
Ion Ratio Lower Upper
91 100
92 53.4 26.7 80.1
134 29.1 13.6 40.7



#92
1,2-Dibromo-3-Chloropropane
Concen: 2.622 ug/l
RT: 12.98 min Scan# 1951
Delta R.T. 0.00 min
Lab File: VX017763.D
Acq: 04 Aug 2020 12:22

Tgt Ion: 75 Resp: 118
Ion Ratio Lower Upper
75 100
155 266.1 42.3 126.8#
157 287.3 54.3 162.9#

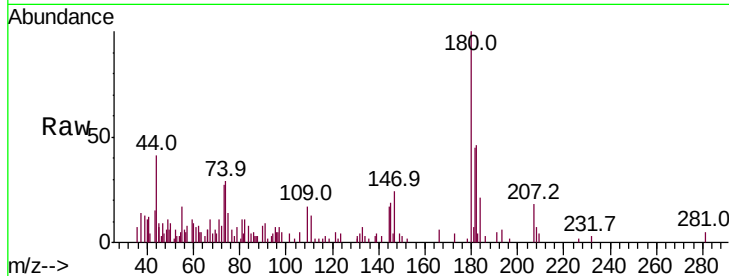




#93
 1,2,4-Trichlorobenzene
 Concen: 0.380 ug/l
 RT: 13.63 min Scan# 2057
 Delta R.T. -0.00 min
 Lab File: VX017763.D
 Acq: 04 Aug 2020 12:22

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	107.6	47.5	142.6
145	35.7	15.4	46.4

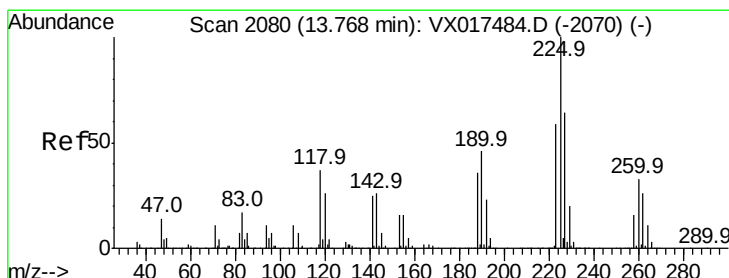
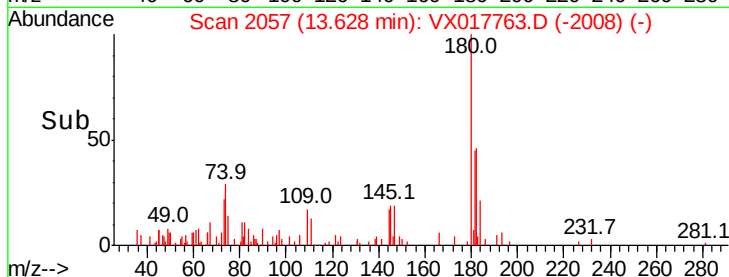
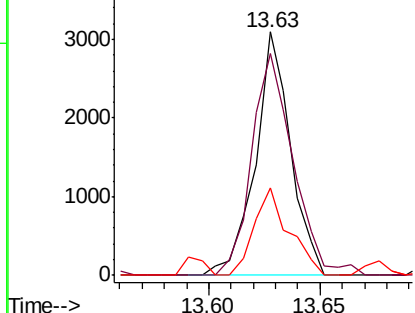


Abundance

Ion 179.80 (179.50 to 180.50): V

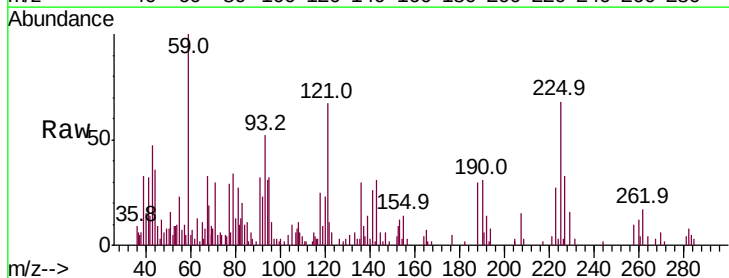
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 0.645 ug/l
 RT: 13.76 min Scan# 2079
 Delta R.T. -0.01 min
 Lab File: VX017763.D
 Acq: 04 Aug 2020 12:22

Tgt Ion	Ratio	Lower	Upper
225	100		
223	59.5	30.3	90.9
227	56.6	31.1	93.2

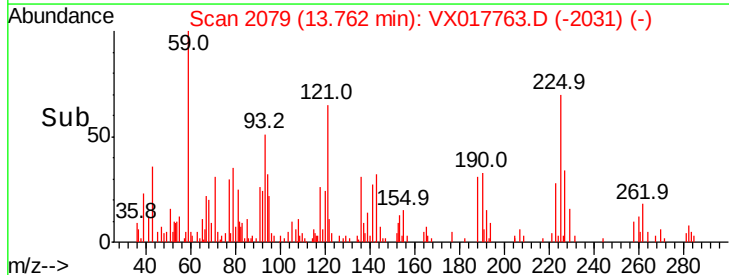
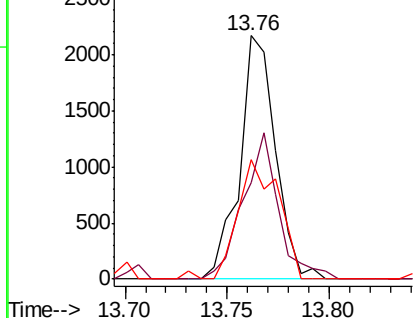


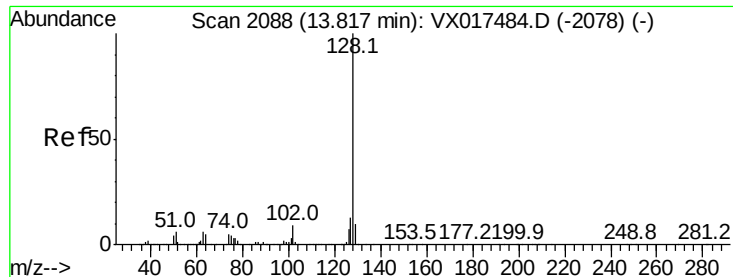
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

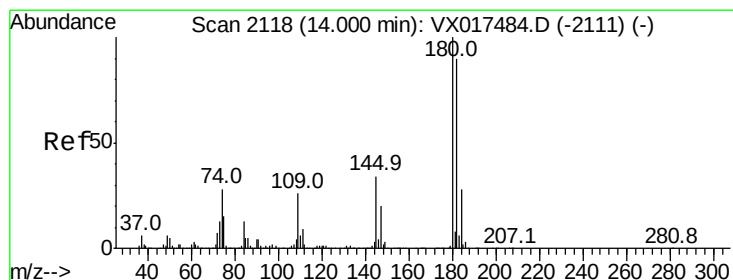
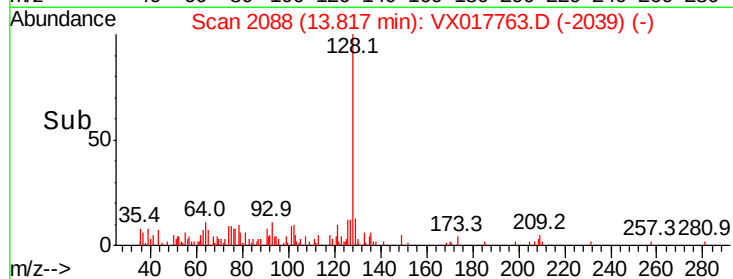
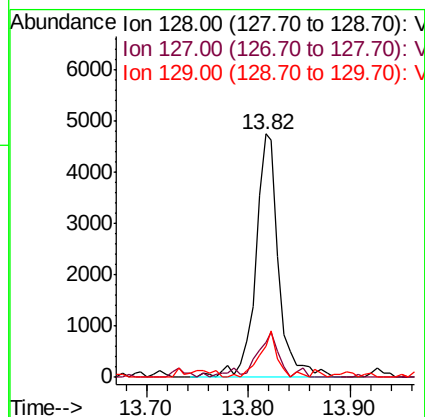
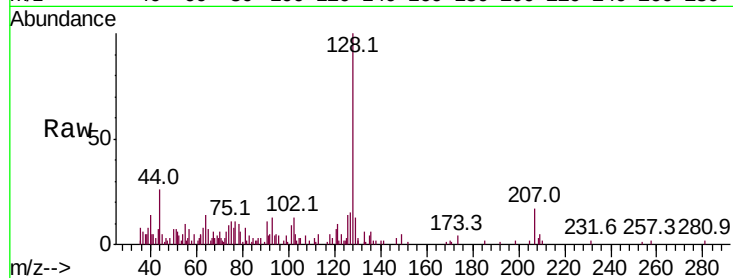




#95
Naphthalene
Concen: 0.283 ug/l
RT: 13.82 min Scan# 2088
Delta R.T. -0.00 min
Lab File: VX017763.D
Acq: 04 Aug 2020 12:22

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:128 Resp: 7539
Ion Ratio Lower Upper
128 100
127 15.9 10.4 15.6#
129 14.9 8.9 13.3#



#96
1,2,3-Trichlorobenzene
Concen: 0.303 ug/l
RT: 14.01 min Scan# 2119
Delta R.T. 0.01 min
Lab File: VX017763.D
Acq: 04 Aug 2020 12:22

Tgt Ion:180 Resp: 2675
Ion Ratio Lower Upper
180 100
182 107.1 47.4 142.3
145 47.2 16.3 48.9

