

Data File : VX017274.D
Acq On : 08 Jul 2020 22:39
Operator : JC/SP
Sample : VX0708WBL02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0708WBL02

Quant Time: Jul 09 04:59:31 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X062520W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jun 26 09:03:25 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.99	128	48681	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	250227	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	241617	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	109545	28.91	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.37%
60) 4-Bromofluorobenzene	11.12	95	110719	27.48	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	91.60%
63) Toluene-d8	8.70	98	295990	27.79	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	92.63%

Target Compounds

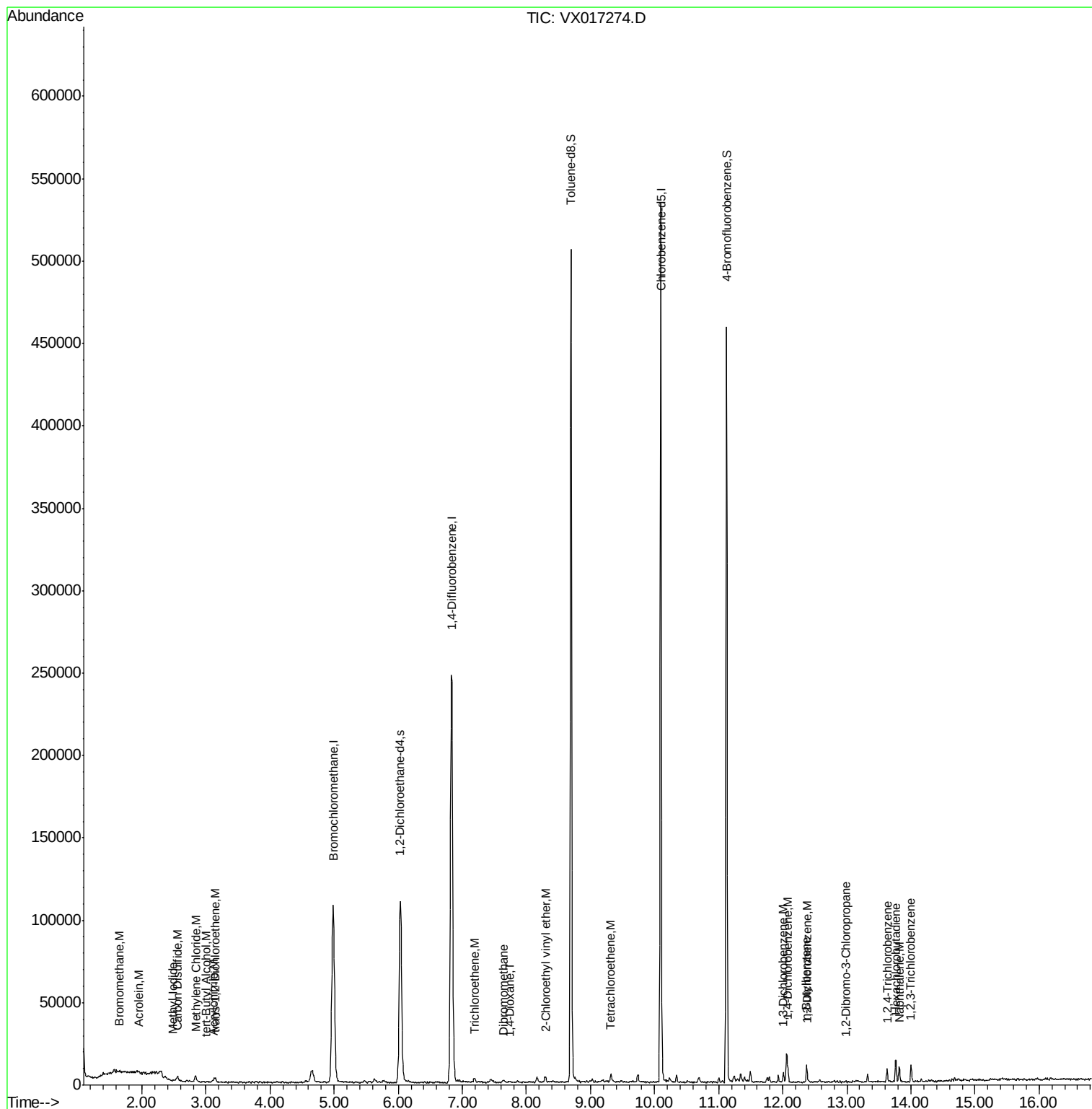
						Qvalue
5) Bromomethane	1.64	94	971	0.412	ug/l	81
11) Methyl Iodide	2.49	142	1130	0.304	ug/l	85
13) Acrolein	1.96	56	123	0.222	ug/l	89
14) Acrylonitrile	3.11	53	1384	0.831	ug/l #	65
16) Carbon Disulfide	2.55	76	4462	0.509	ug/l	95
18) Methylene Chloride	2.84	84	1643	0.489	ug/l #	72
19) trans-1,2-Dichloroethene	3.14	96	966	0.306	ug/l #	89
23) tert-Butyl Alcohol	3.01	59	278	0.377	ug/l #	23
37) Trichloroethene	7.20	130	935	0.289	ug/l #	60
40) Dibromomethane	7.65	93	573	0.269	ug/l	42
45) 1,4-Dioxane	7.74	88	21	0.287	ug/l #	1
55) 2-Chloroethyl vinyl ether	8.30	63	1261	0.525	ug/l #	85
61) Tetrachloroethene	9.32	164	783	0.254	ug/l #	80
83) 1,3-Dichlorobenzene	12.01	146	1612	0.247	ug/l	78
84) 1,4-Dichlorobenzene	12.08	146	1992	0.304	ug/l	95
85) n-Butylbenzene	12.37	91	2662	0.227	ug/l	97
87) 1,2-Dichlorobenzene	12.38	146	1304	0.214	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	12.97	75	226	0.225	ug/l #	79
89) 1,2,4-Trichlorobenzene	13.63	180	2181	0.530	ug/l	90
90) Hexachlorobutadiene	13.77	225	1813	1.159	ug/l	90
91) Naphthalene	13.82	128	5375	0.399	ug/l #	95
92) 1,2,3-Trichlorobenzene	14.00	180	1997	0.497	ug/l	81

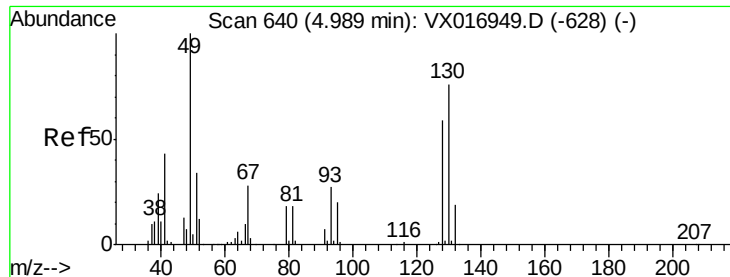
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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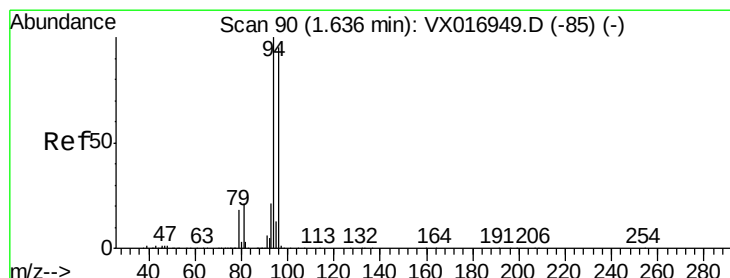
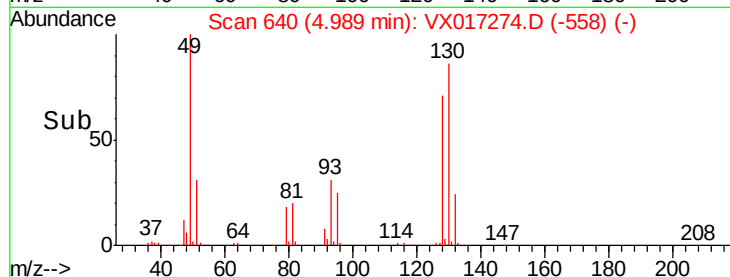
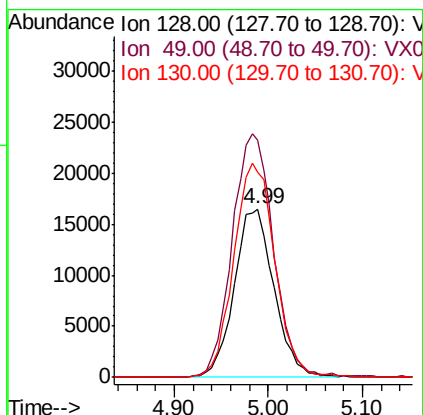
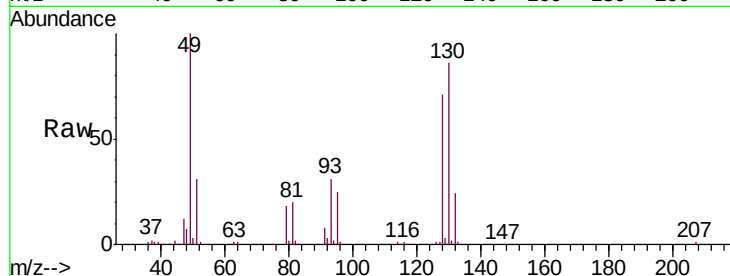




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.99 min Scan# 640
Delta R.T. -0.00 min
Lab File: VX017274.D
Acq: 08 Jul 2020 22:39

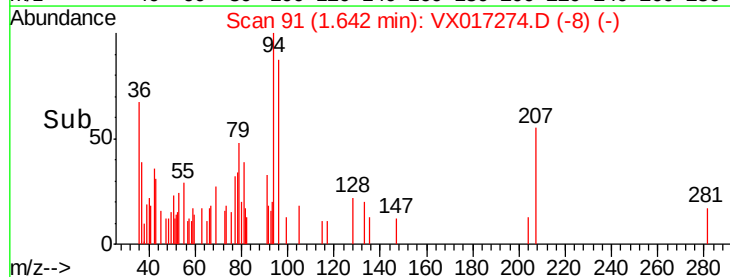
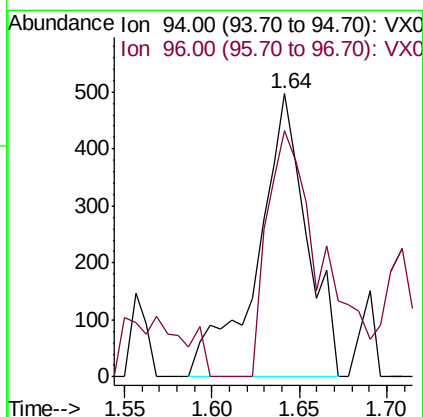
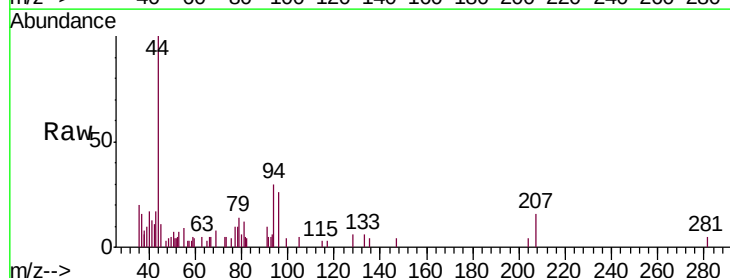
Instrument :
MSVOA_X
ClientSampleId :
VX0708WBL02

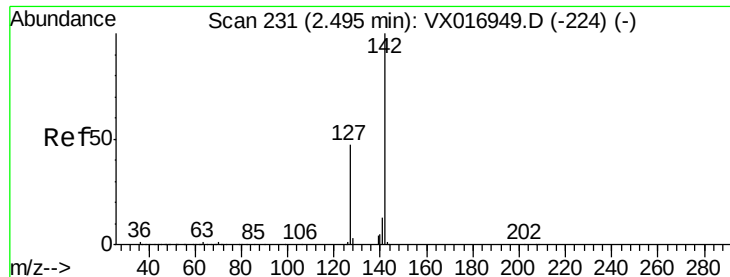
Tgt Ion:128 Resp: 48681
Ion Ratio Lower Upper
128 100
49 149.4 0.0 428.0
130 130.7 0.0 318.0



#5
Bromomethane
Concen: 0.412 ug/l
RT: 1.64 min Scan# 91
Delta R.T. 0.01 min
Lab File: VX017274.D
Acq: 08 Jul 2020 22:39

Tgt Ion: 94 Resp: 971
Ion Ratio Lower Upper
94 100
96 76.5 75.5 113.3

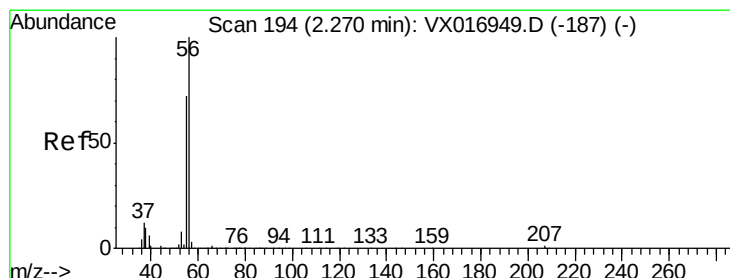
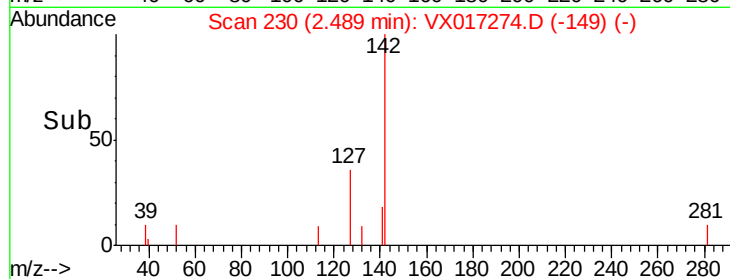
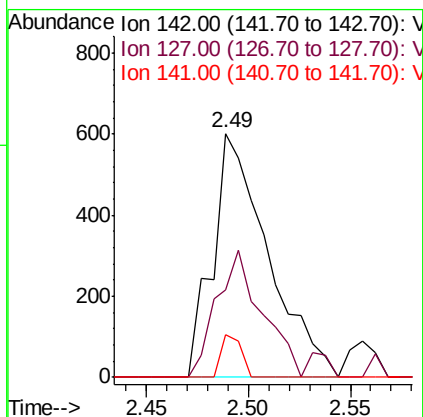
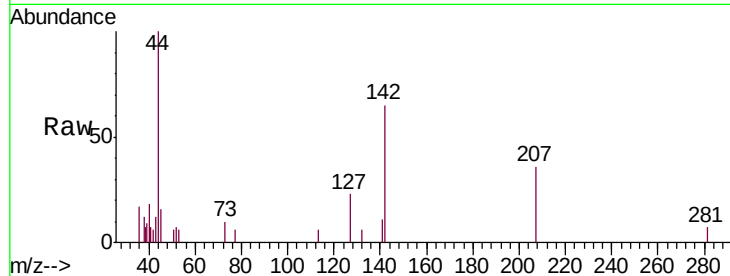




#11
Methyl Iodide
Concen: 0.304 ug/l
RT: 2.49 min Scan# 230
Delta R.T. -0.01 min
Lab File: VX017274.D
Acq: 08 Jul 2020 22:39

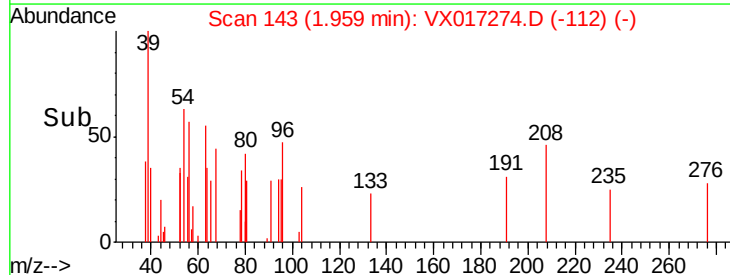
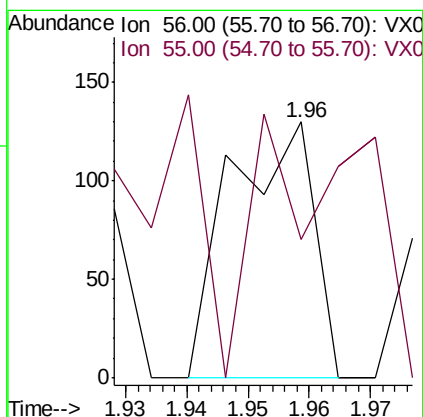
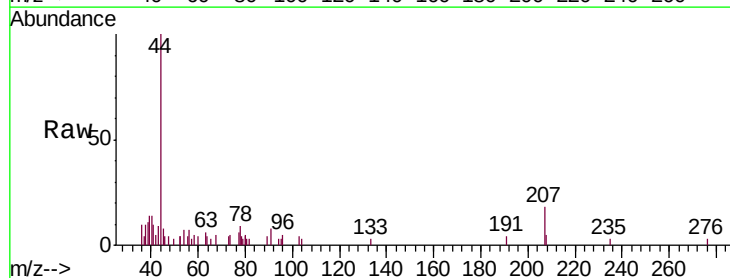
Instrument :
MSVOA_X
ClientSampleId :
VX0708WBL02

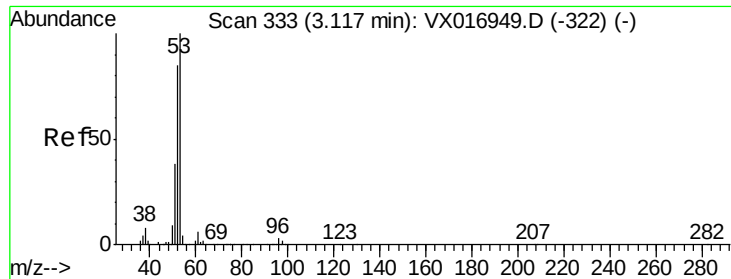
Tgt Ion: 142 Resp: 1130
Ion Ratio Lower Upper
142 100
127 35.8 23.3 69.9
141 17.6 6.7 20.1



#13
Acrolein
Concen: 0.222 ug/l
RT: 1.96 min Scan# 143
Delta R.T. -0.31 min
Lab File: VX017274.D
Acq: 08 Jul 2020 22:39

Tgt Ion: 56 Resp: 123
Ion Ratio Lower Upper
56 100
55 61.0 56.2 84.4





#14

Acrylonitrile

Concen: 0.831 ug/l

RT: 3.11 min Scan# 332

Delta R.T. -0.01 min

Lab File: VX017274.D

Acq: 08 Jul 2020 22:39

Instrument :

MSVOA_X

ClientSampleId :

VX0708WBL02

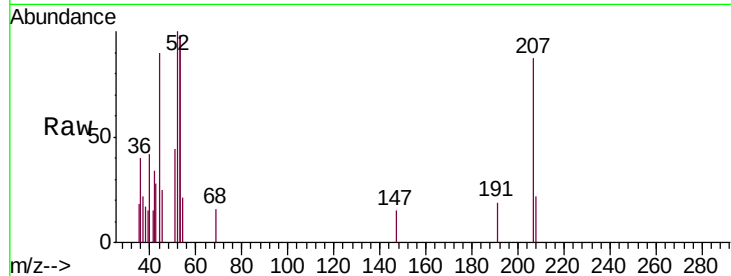
Tgt Ion: 53 Resp: 1384

Ion Ratio Lower Upper

53 100

52 36.3 40.6 121.8#

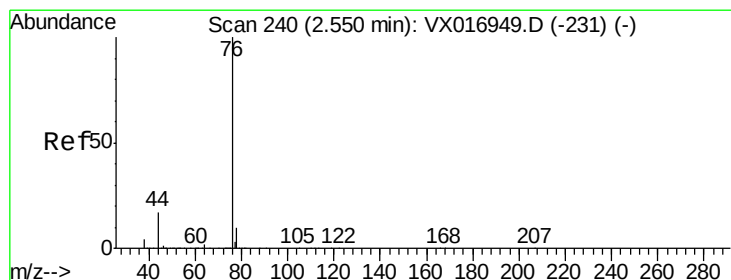
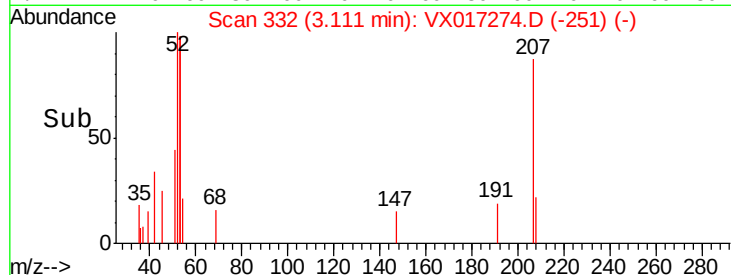
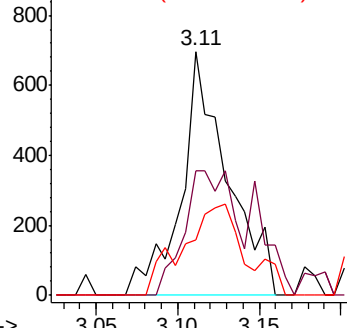
51 36.6 18.4 55.4



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Carbon Disulfide

Concen: 0.509 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.00 min

Lab File: VX017274.D

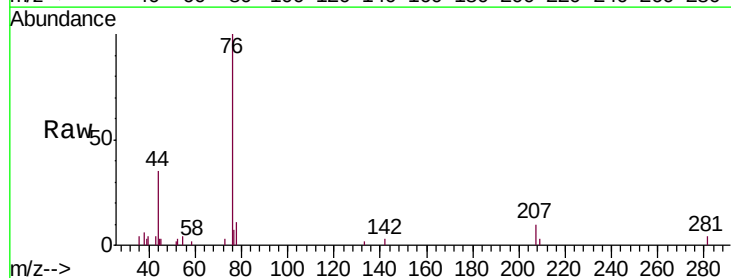
Acq: 08 Jul 2020 22:39

Tgt Ion: 76 Resp: 4462

Ion Ratio Lower Upper

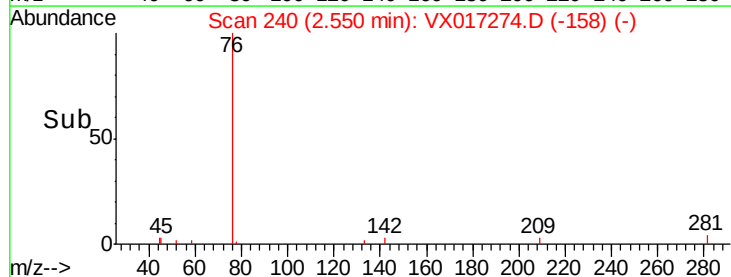
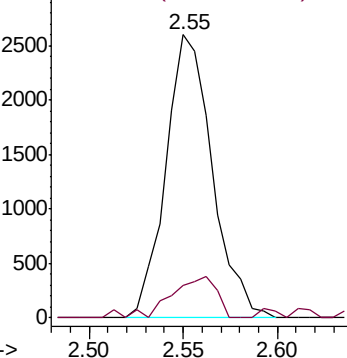
76 100

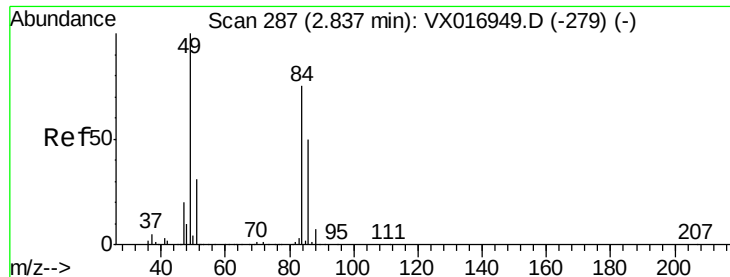
78 11.3 7.6 11.4



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0

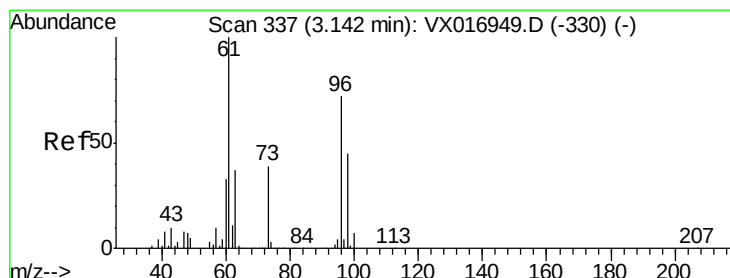
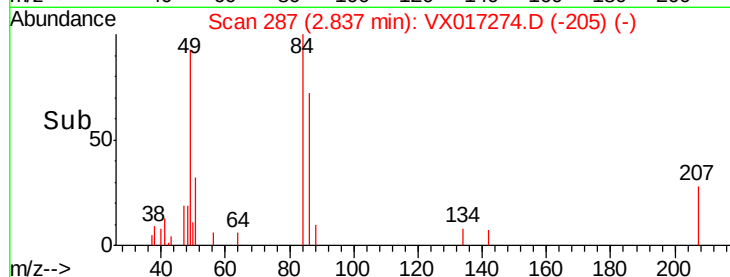
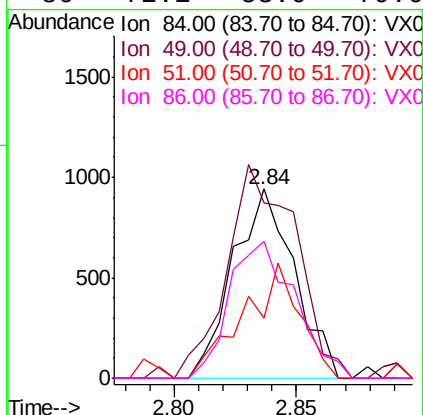
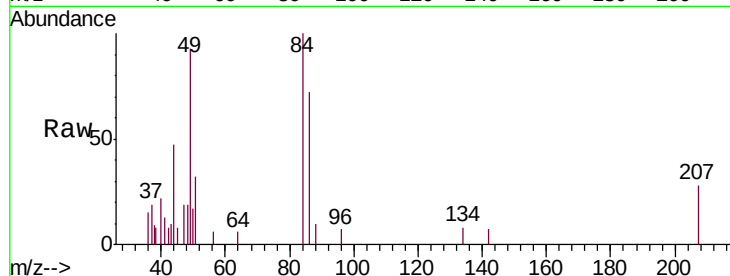




#18
Methylene Chloride
Concen: 0.489 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX017274.D
Acq: 08 Jul 2020 22:39

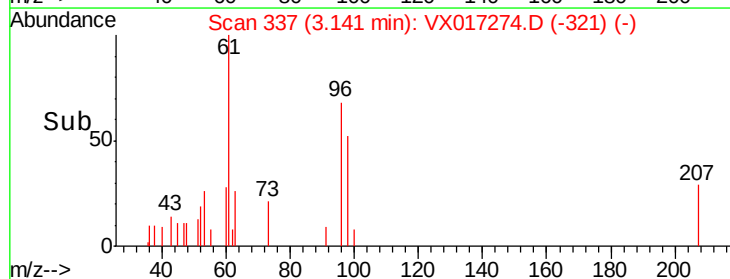
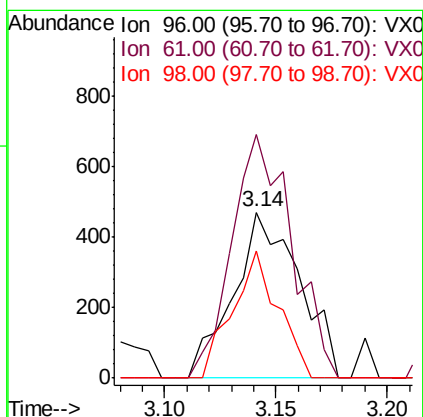
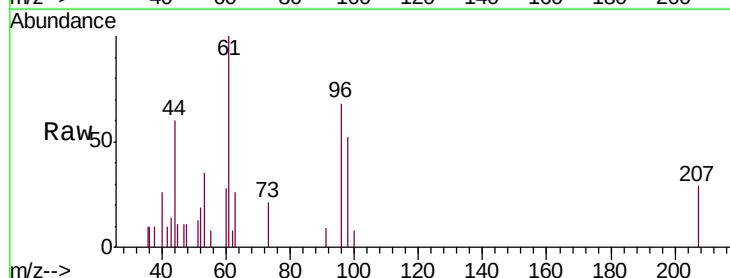
Instrument :
MSVOA_X
ClientSampleId :
VX0708WBL02

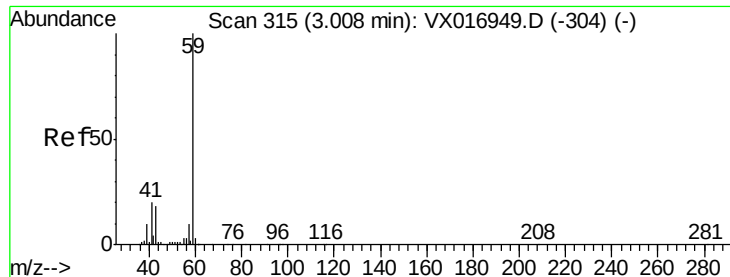
Tgt Ion:	84	Resp:	1643
Ion	Ratio	Lower	Upper
84	100		
49	82.6	106.6	159.8#
51	32.0	32.7	49.1#
86	72.1	53.0	79.6



#19
trans-1,2-Dichloroethene
Concen: 0.306 ug/l
RT: 3.14 min Scan# 337
Delta R.T. -0.00 min
Lab File: VX017274.D
Acq: 08 Jul 2020 22:39

Tgt Ion:	96	Resp:	966
Ion	Ratio	Lower	Upper
96	100		
61	146.8	110.6	165.8
98	76.4	49.8	74.6#

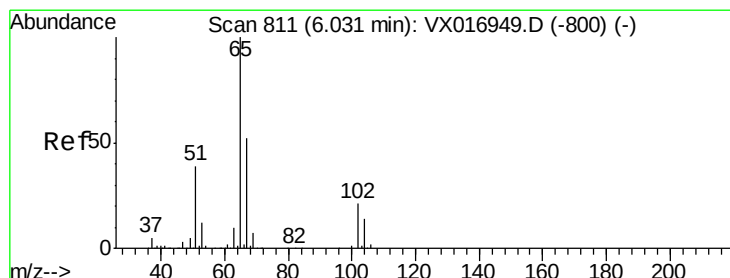
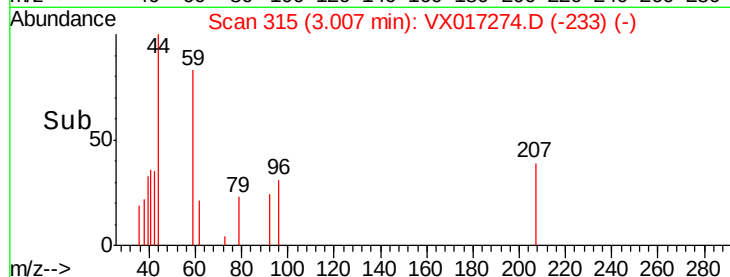
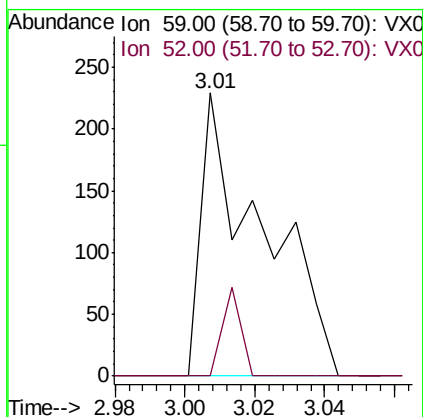
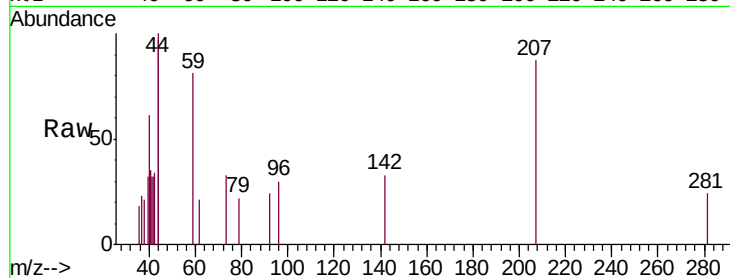




#23
 tert-Butyl Alcohol
 Concen: 0.377 ug/l
 RT: 3.01 min Scan# 315
 Delta R.T. -0.00 min
 Lab File: VX017274.D
 Acq: 08 Jul 2020 22:39

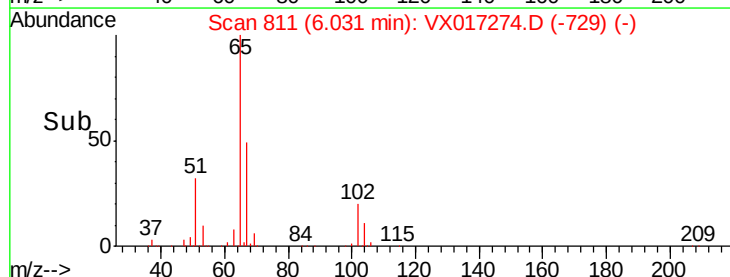
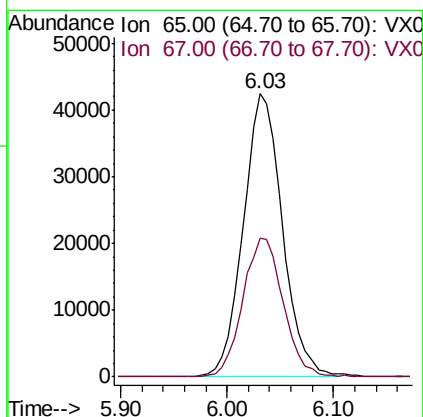
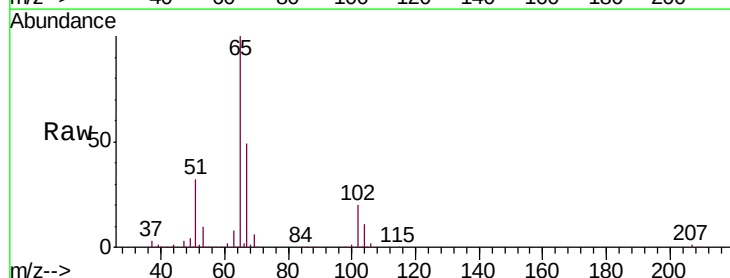
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0708WBL02

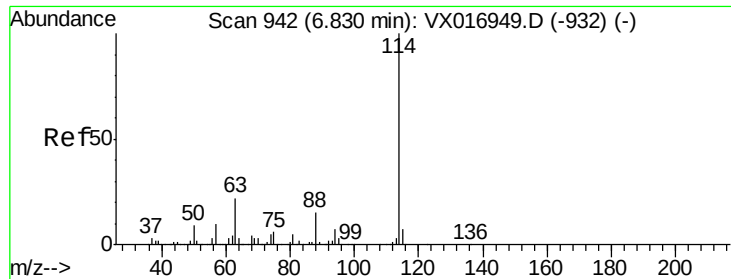
Tgt Ion: 59 Resp: 278
 Ion Ratio Lower Upper
 59 100
 52 180.6 0.1 0.1#



#27
 1,2-Dichloroethane-d4
 Concen: 28.911 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX017274.D
 Acq: 08 Jul 2020 22:39

Tgt Ion: 65 Resp: 109545
 Ion Ratio Lower Upper
 65 100
 67 50.3 41.5 62.3

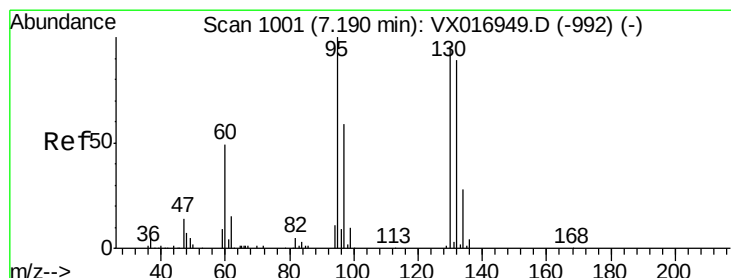
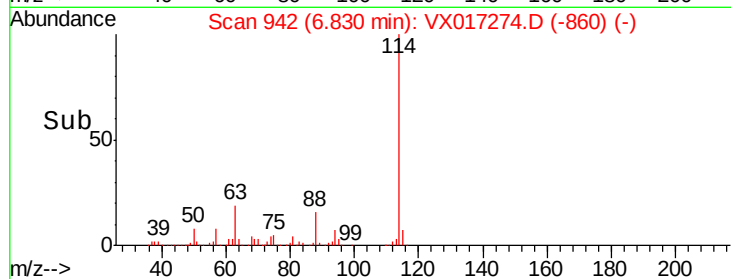
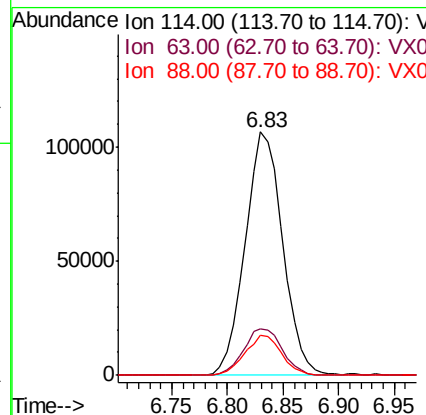
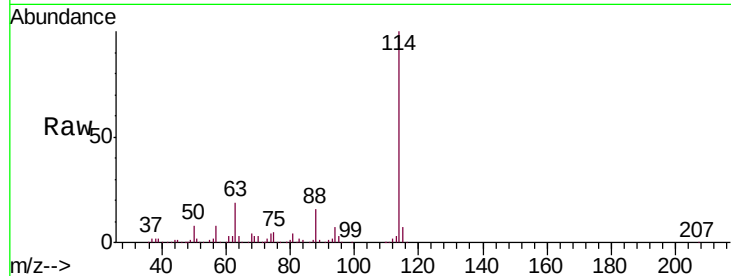




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX017274.D
 Acq: 08 Jul 2020 22:39

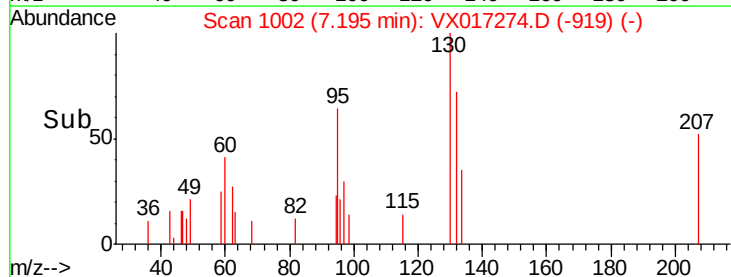
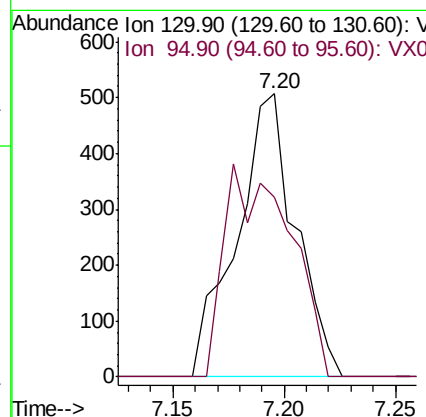
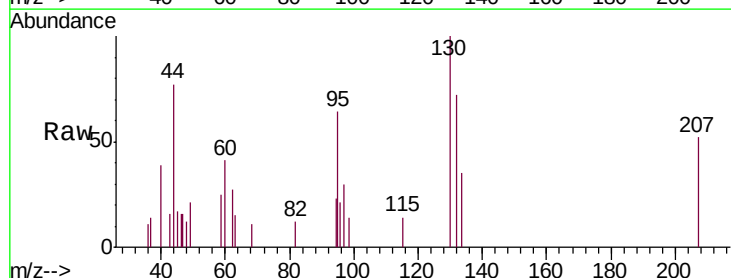
Instrument :
 MSVOA_X
 ClientSampled :
 VX0708WBL02

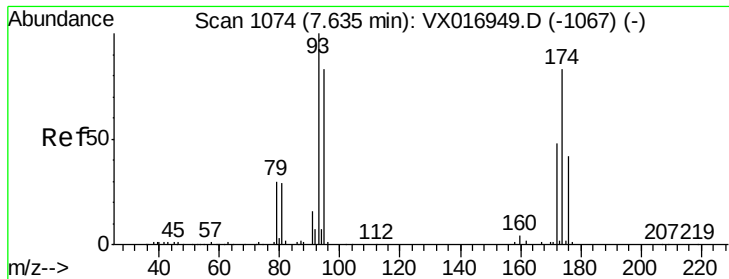
Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.9	17.4	26.2
88	15.8	13.0	19.6



#37
 Trichloroethene
 Concen: 0.289 ug/l
 RT: 7.20 min Scan# 1002
 Delta R.T. 0.01 min
 Lab File: VX017274.D
 Acq: 08 Jul 2020 22:39

Tgt Ion	Ratio	Lower	Upper
130	100		
95	63.5	83.1	124.7#





#40

Dibromomethane

Concen: 0.269 ug/l

RT: 7.65 min Scan# 1076

Delta R.T. 0.01 min

Lab File: VX017274.D

Acq: 08 Jul 2020 22:39

Instrument :

MSVOA_X

ClientSampleId :

VX0708WBL02

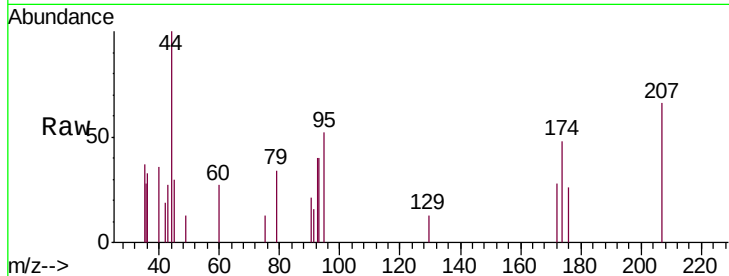
Tgt Ion: 93 Resp: 573

Ion Ratio Lower Upper

93 100

95 28.3 0.0 165.4

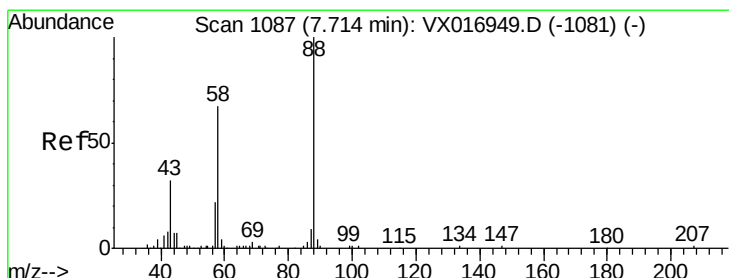
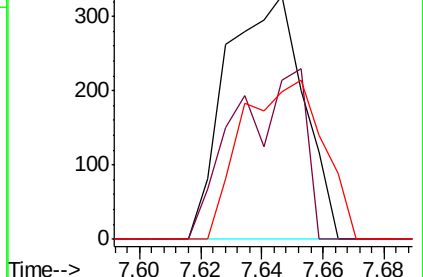
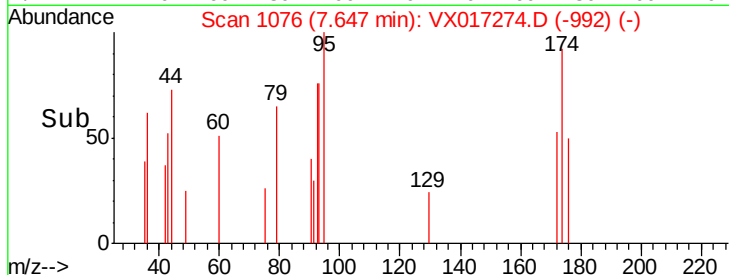
174 40.8 0.0 192.0



Abundance Ion 93.00 (92.70 to 93.70): VX0

Ion 95.00 (94.70 to 95.70): VX0

Ion 174.00 (173.70 to 174.70): V



#45

1,4-Dioxane

Concen: 0.287 ug/l

RT: 7.74 min Scan# 1091

Delta R.T. 0.02 min

Lab File: VX017274.D

Acq: 08 Jul 2020 22:39

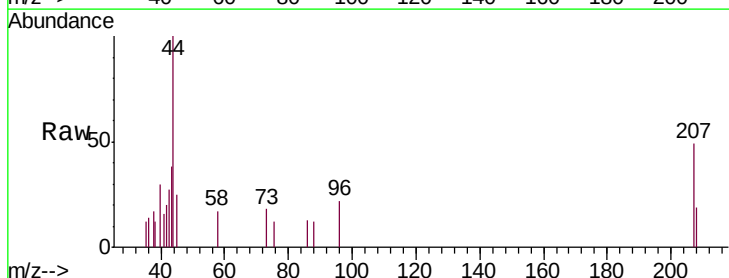
Tgt Ion: 88 Resp: 21

Ion Ratio Lower Upper

88 100

43 457.1 28.9 43.3#

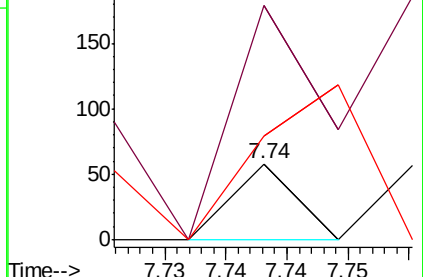
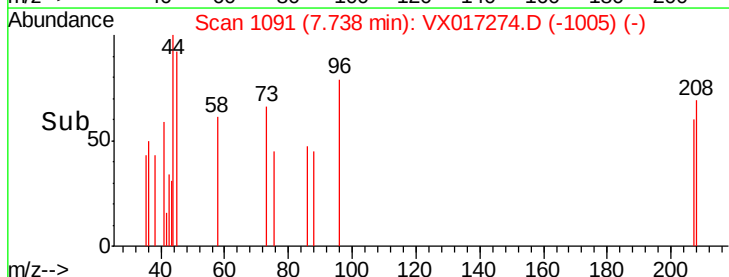
58 342.9 56.7 85.1#

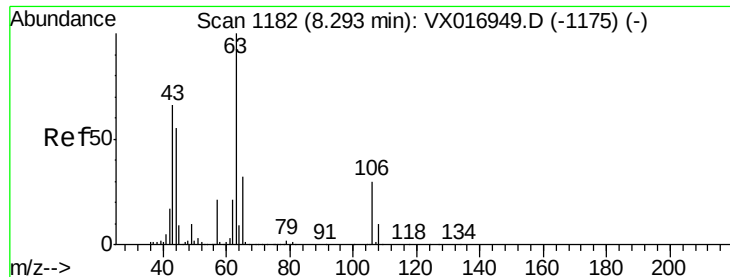


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

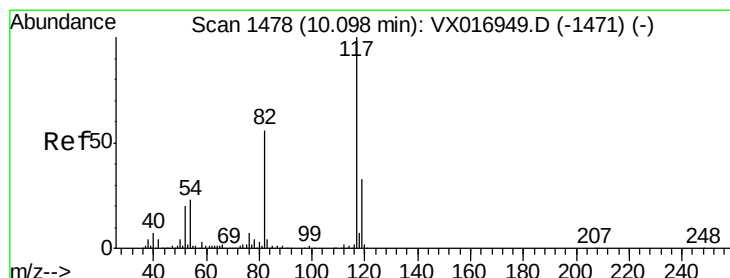
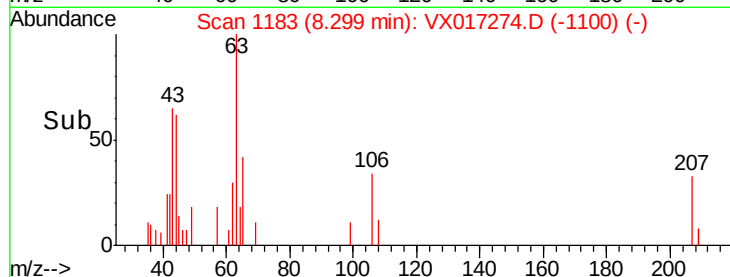
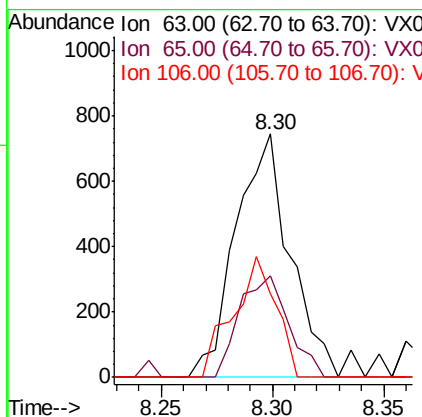
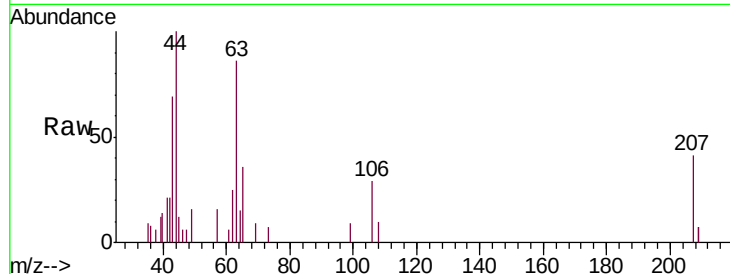




#55
 2-Chloroethyl vinyl ether
 Concen: 0.525 ug/l
 RT: 8.30 min Scan# 1183
 Delta R.T. 0.01 min
 Lab File: VX017274.D
 Acq: 08 Jul 2020 22:39

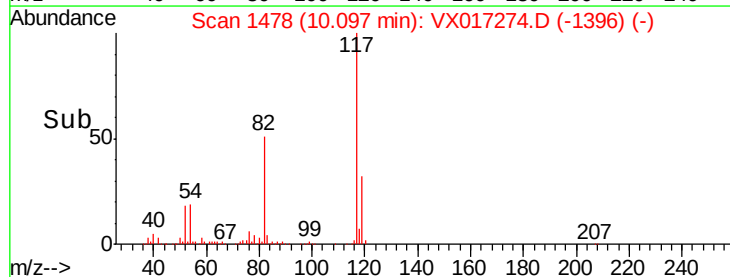
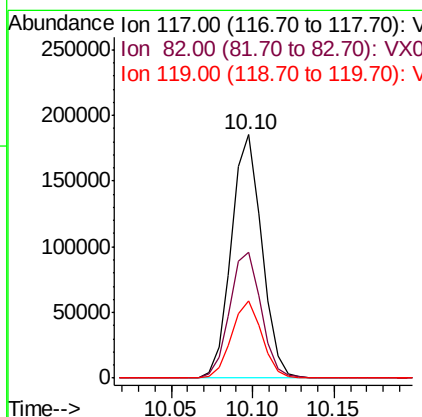
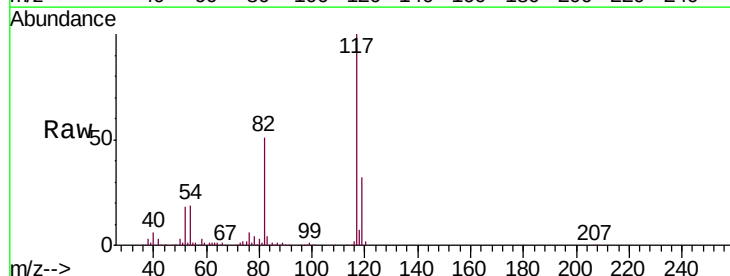
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0708WBL02

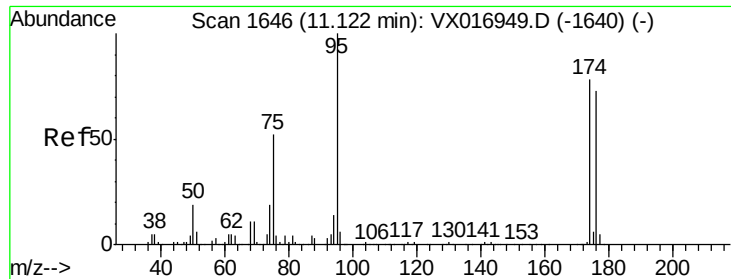
Tgt Ion: 63 Resp: 1261
 Ion Ratio Lower Upper
 63 100
 65 38.0 25.9 38.9
 106 39.3 22.6 33.8#



#57
 Chlorobenzene-d5
 Concen: 30.000 ug/l
 RT: 10.10 min Scan# 1478
 Delta R.T. -0.00 min
 Lab File: VX017274.D
 Acq: 08 Jul 2020 22:39

Tgt Ion: 117 Resp: 241617
 Ion Ratio Lower Upper
 117 100
 82 53.3 44.9 67.3
 119 31.8 25.8 38.8

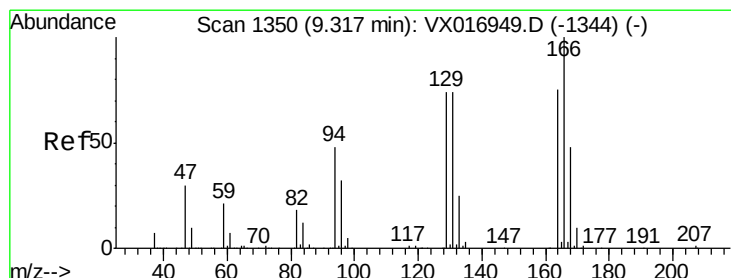
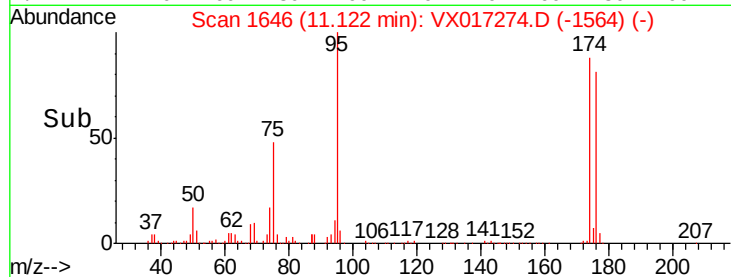
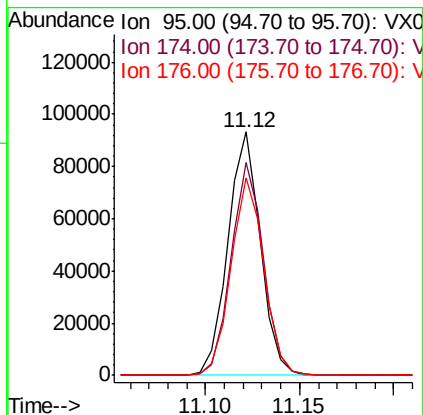
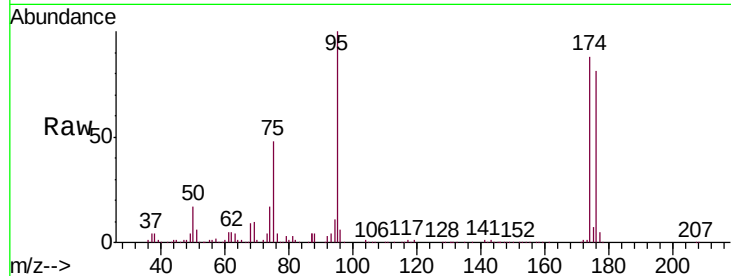




#60
4-Bromofluorobenzene
Concen: 27.477 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017274.D
Acq: 08 Jul 2020 22:39

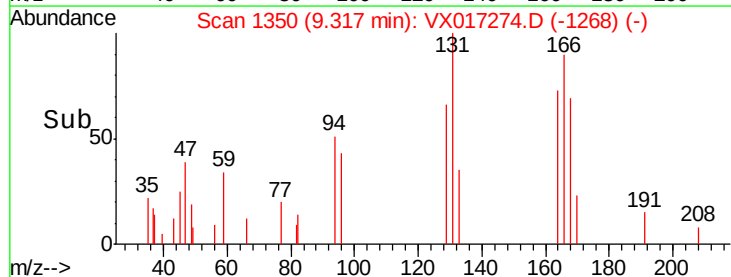
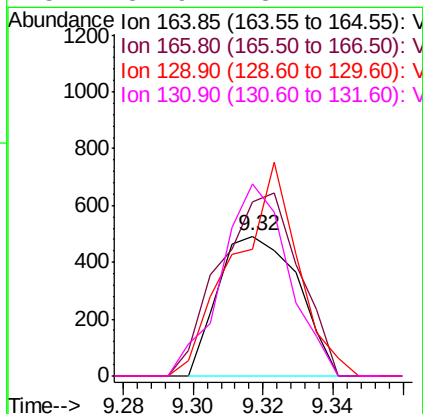
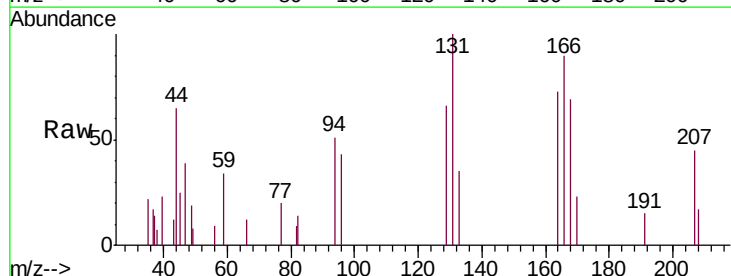
Instrument :
MSVOA_X
ClientSampleId :
VX0708WBL02

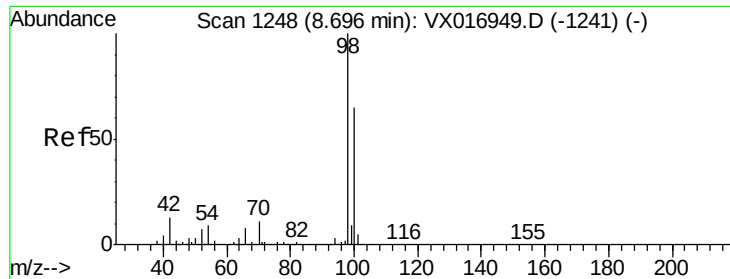
Tgt Ion: 95 Resp: 110719
Ion Ratio Lower Upper
95 100
174 87.5 62.2 93.4
176 82.4 58.9 88.3



#61
Tetrachloroethene
Concen: 0.254 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. -0.00 min
Lab File: VX017274.D
Acq: 08 Jul 2020 22:39

Tgt Ion: 164 Resp: 783
Ion Ratio Lower Upper
164 100
166 124.6 106.3 159.5
129 80.0 78.9 118.3
131 137.9 78.2 117.4#





#63

Toluene-d8

Concen: 27.791 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017274.D

Acq: 08 Jul 2020 22:39

Instrument :

MSVOA_X

ClientSampleId :

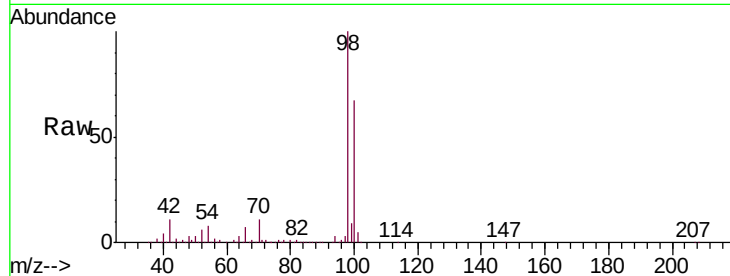
VX0708WBL02

Tgt Ion: 98 Resp: 295990

Ion Ratio Lower Upper

98 100

100 65.9 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.70

200000

150000

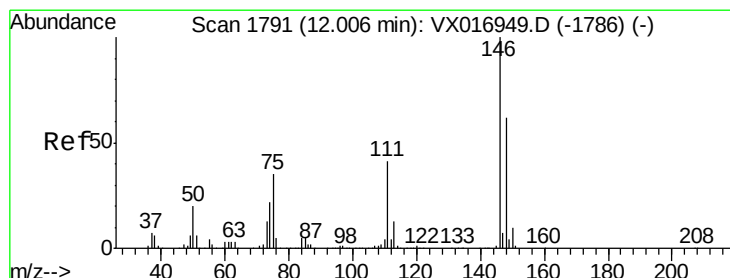
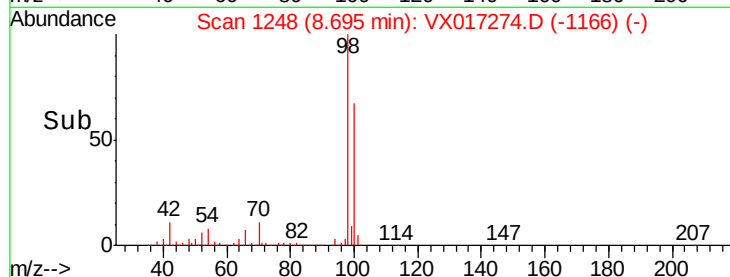
100000

50000

0

Time-->

8.65 8.70 8.75



#83

1,3-Dichlorobenzene

Concen: 0.247 ug/l

RT: 12.01 min Scan# 1792

Delta R.T. 0.01 min

Lab File: VX017274.D

Acq: 08 Jul 2020 22:39

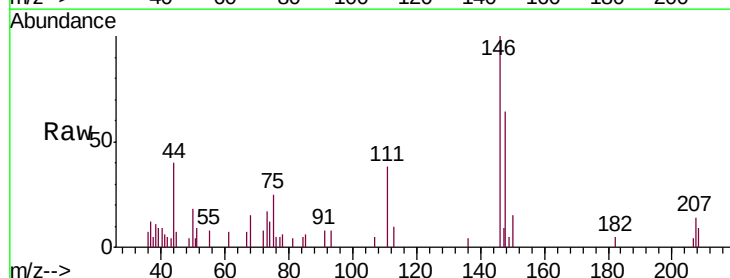
Tgt Ion: 146 Resp: 1612

Ion Ratio Lower Upper

146 100

111 43.9 19.5 58.5

148 87.2 31.8 95.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

12.01

1500

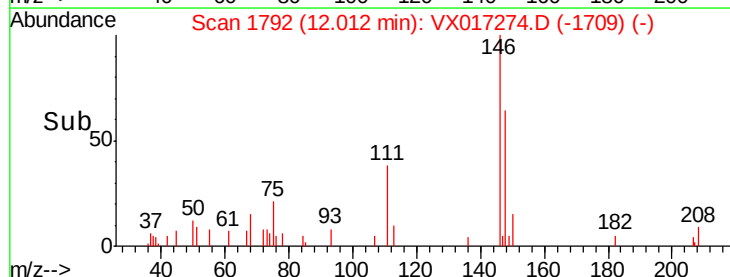
1000

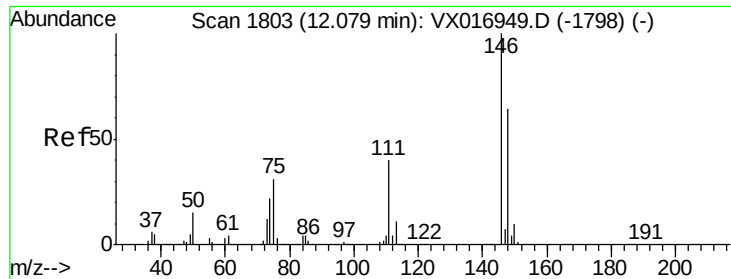
500

0

Time-->

12.00 12.05

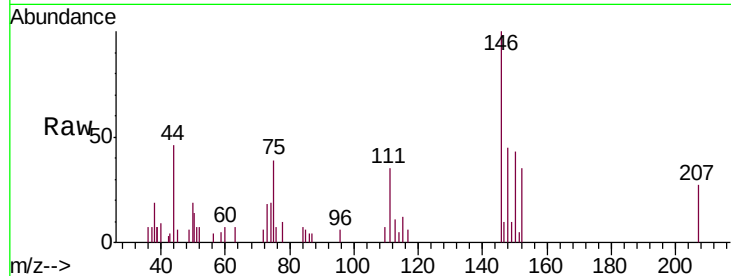




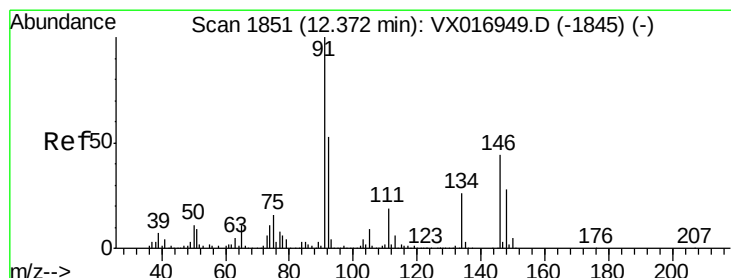
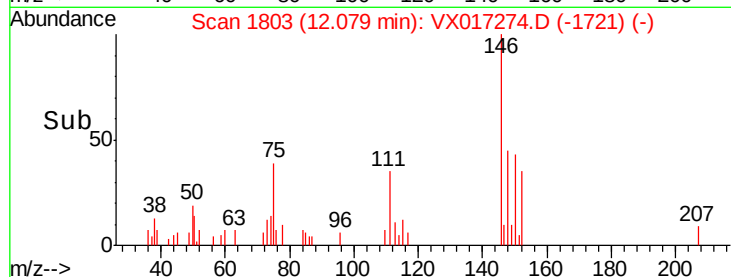
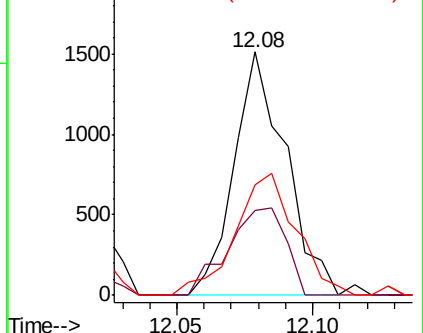
#84
 1,4-Dichlorobenzene
 Concen: 0.304 ug/l
 RT: 12.08 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VX017274.D
 Acq: 08 Jul 2020 22:39

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0708WBL02

Tgt Ion: 146 Resp: 1992
 Ion Ratio Lower Upper
 146 100
 111 40.2 19.4 58.2
 148 59.0 32.1 96.3

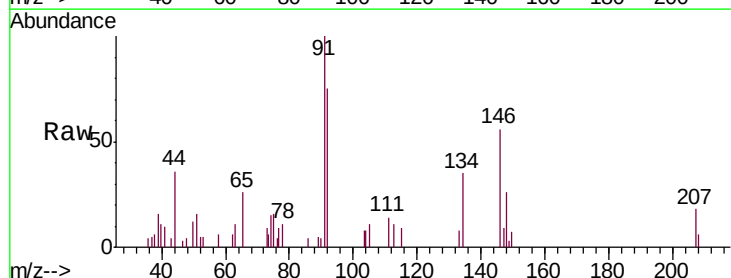


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

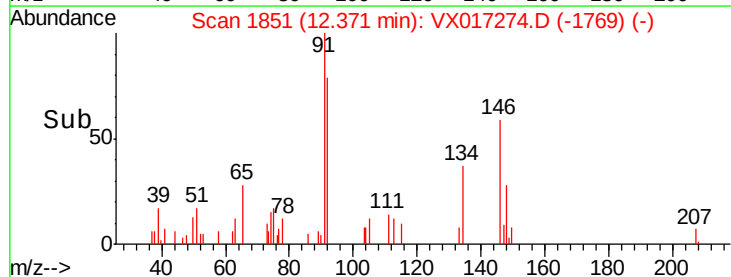
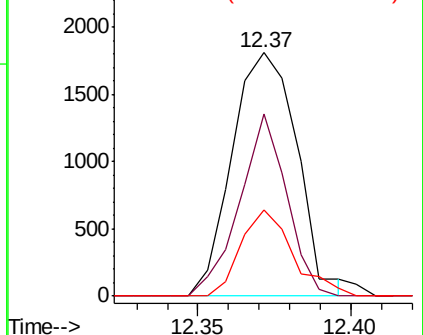


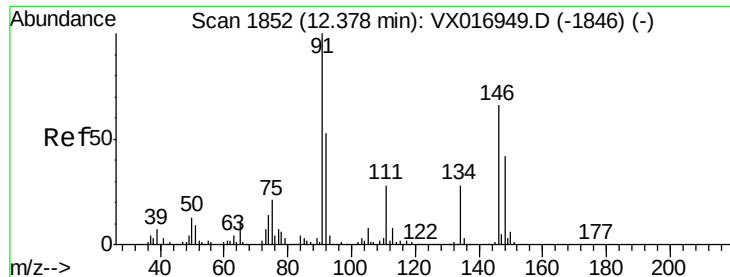
#85
 n-Butylbenzene
 Concen: 0.227 ug/l
 RT: 12.37 min Scan# 1851
 Delta R.T. -0.00 min
 Lab File: VX017274.D
 Acq: 08 Jul 2020 22:39

Tgt Ion: 91 Resp: 2662
 Ion Ratio Lower Upper
 91 100
 92 54.4 0.0 105.8
 134 28.4 0.0 52.2



Abundance Ion 91.00 (90.70 to 91.70): VX0
 Ion 92.00 (91.70 to 92.70): VX0
 Ion 134.00 (133.70 to 134.70): V

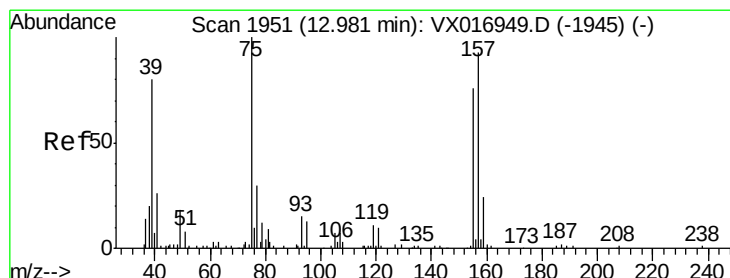
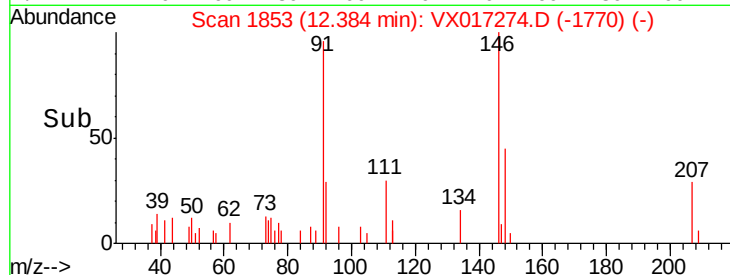
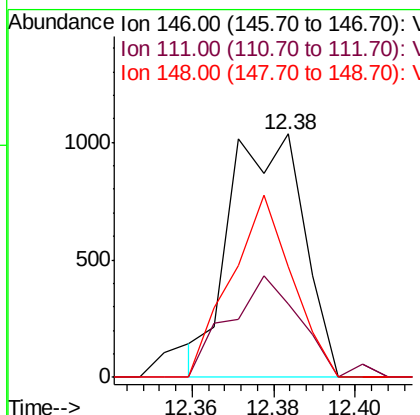
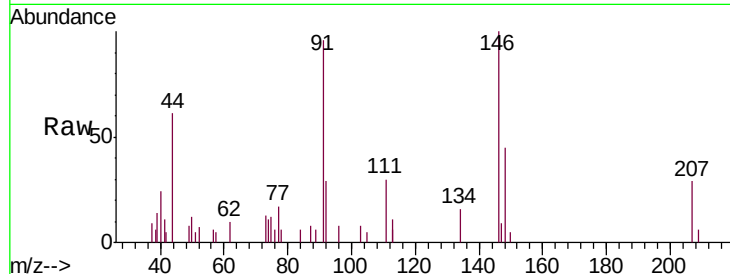




#87
 1,2-Dichlorobenzene
 Concen: 0.214 ug/l
 RT: 12.38 min Scan# 1853
 Delta R.T. 0.01 min
 Lab File: VX017274.D
 Acq: 08 Jul 2020 22:39

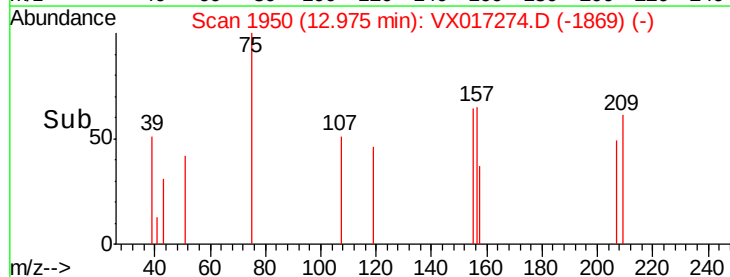
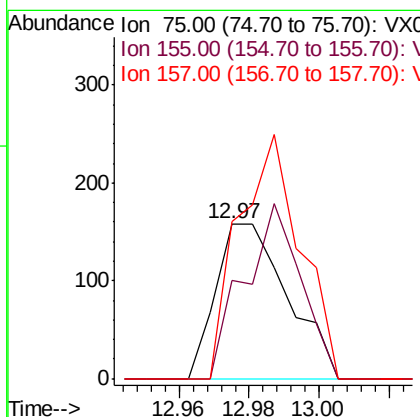
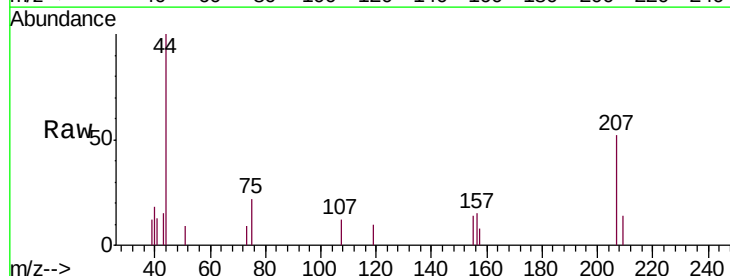
Instrument :
 MSVOA_X
 ClientSampled :
 VX0708WBL02

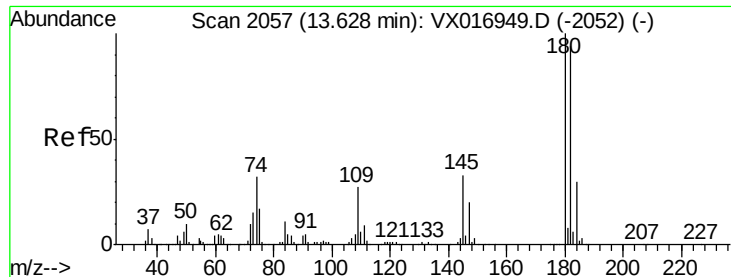
Tgt Ion:146 Resp: 1304
 Ion Ratio Lower Upper
 146 100
 111 39.2 21.1 63.1
 148 62.0 32.1 96.3



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 0.225 ug/l
 RT: 12.97 min Scan# 1950
 Delta R.T. -0.01 min
 Lab File: VX017274.D
 Acq: 08 Jul 2020 22:39

Tgt Ion: 75 Resp: 226
 Ion Ratio Lower Upper
 75 100
 155 88.9 65.0 97.6
 157 135.0 83.0 124.4#

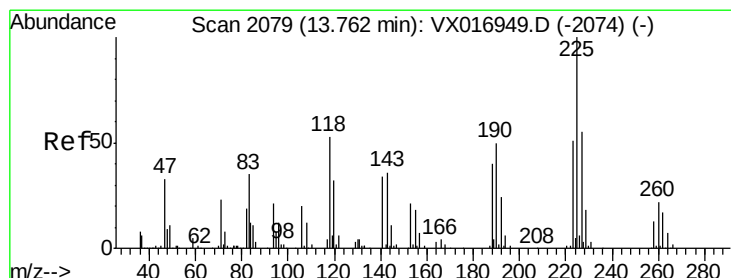
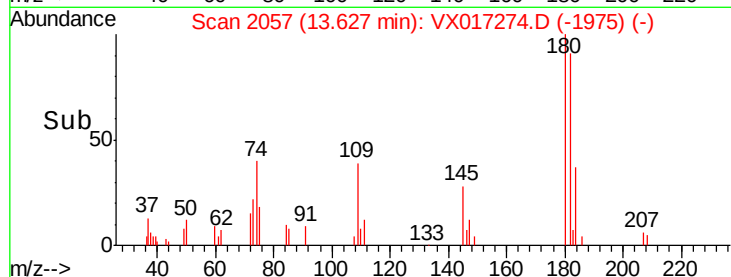
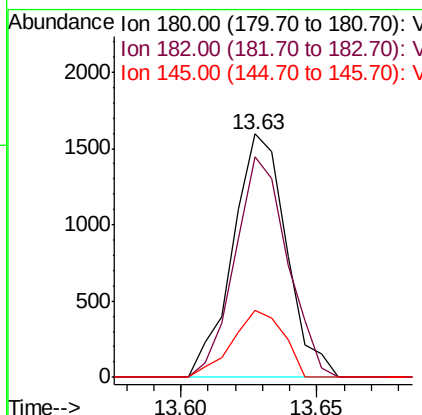
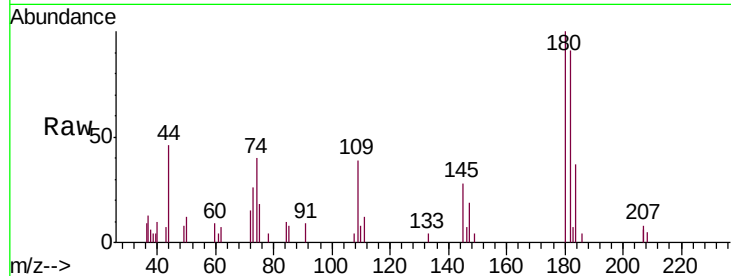




#89
 1,2,4-Trichlorobenzene
 Concen: 0.530 ug/l
 RT: 13.63 min Scan# 2057
 Delta R.T. -0.00 min
 Lab File: VX017274.D
 Acq: 08 Jul 2020 22:39

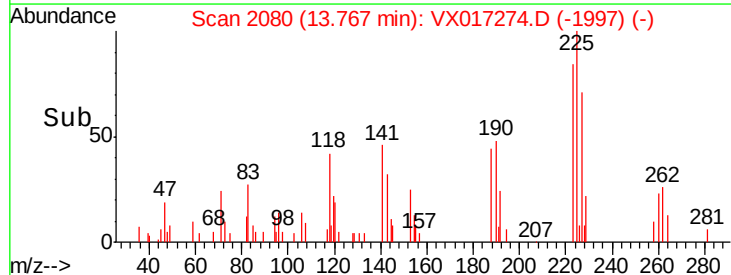
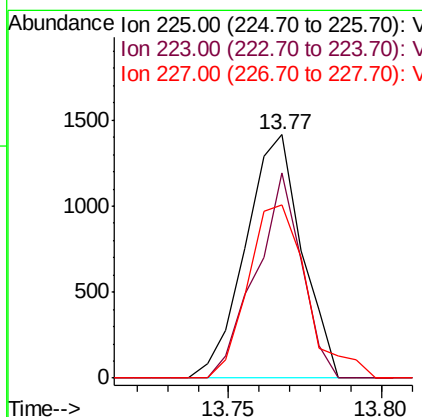
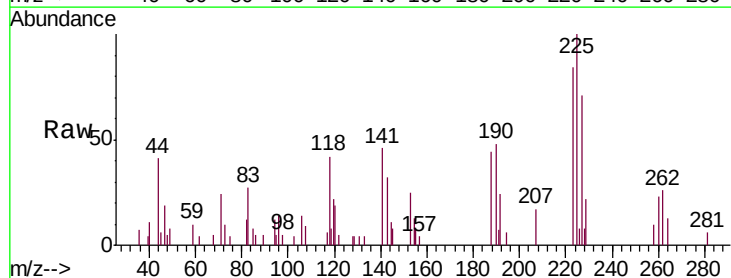
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0708WBL02

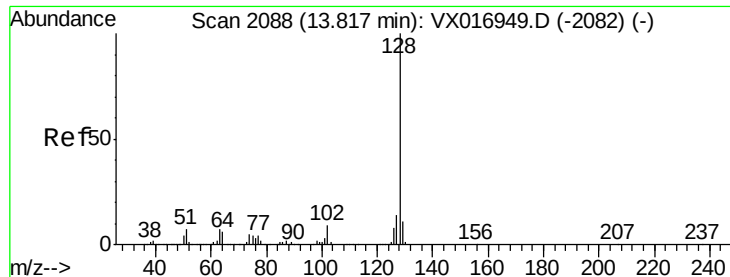
Tgt Ion:180 Resp: 2181
 Ion Ratio Lower Upper
 180 100
 182 88.3 77.7 116.5
 145 26.5 26.2 39.2



#90
 Hexachlorobutadiene
 Concen: 1.159 ug/l
 RT: 13.77 min Scan# 2080
 Delta R.T. 0.01 min
 Lab File: VX017274.D
 Acq: 08 Jul 2020 22:39

Tgt Ion:225 Resp: 1813
 Ion Ratio Lower Upper
 225 100
 223 68.6 0.0 125.0
 227 71.8 0.0 124.0

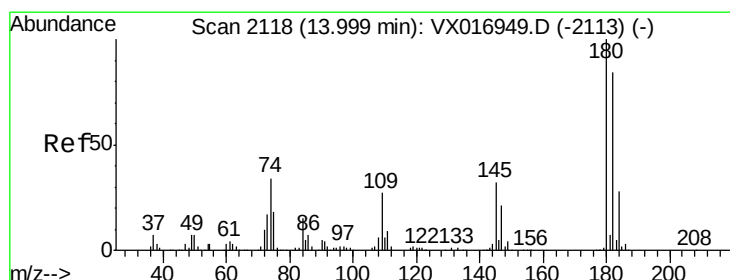
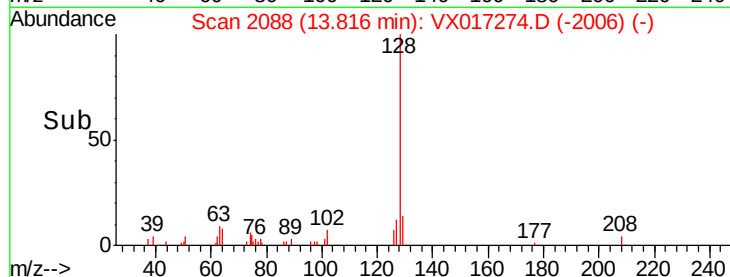
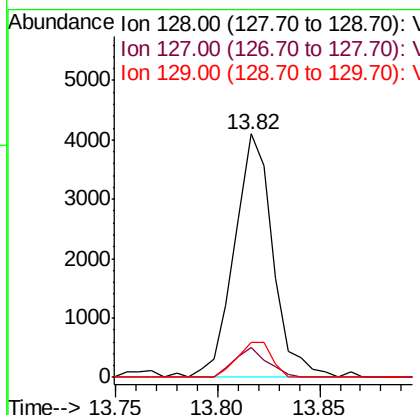
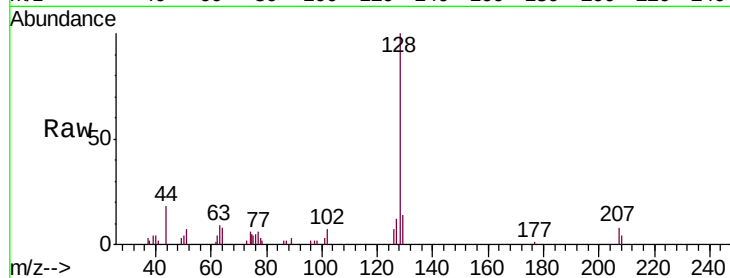




#91
Naphthalene
Concen: 0.399 ug/l
RT: 13.82 min Scan# 2088
Delta R.T. -0.00 min
Lab File: VX017274.D
Acq: 08 Jul 2020 22:39

Instrument :
MSVOA_X
ClientSampleId :
VX0708WBL02

Tgt Ion:128 Resp: 5375
Ion Ratio Lower Upper
128 100
127 10.5 10.5 15.7#
129 12.7 9.0 13.4



#92
1,2,3-Trichlorobenzene
Concen: 0.497 ug/l
RT: 14.00 min Scan# 2118
Delta R.T. -0.00 min
Lab File: VX017274.D
Acq: 08 Jul 2020 22:39

Tgt Ion:180 Resp: 1997
Ion Ratio Lower Upper
180 100
182 113.3 0.0 184.8
145 41.0 0.0 68.0

