

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122719\
 Data File : VX014331.D
 Acq On : 28 Dec 2019 01:03
 Operator : JC/SP
 Sample : VX1227WBL02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1227WBL02

Quant Time: Dec 30 05:42:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	528717	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	817504	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	726828	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	316782	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	295593	49.33	ug/l	0.00
Spiked Amount			Recovery	=	98.66%	
35) Dibromofluoromethane	5.49	113	241661	48.63	ug/l	0.00
Spiked Amount			Recovery	=	97.26%	
50) Toluene-d8	8.71	98	972392	50.26	ug/l	0.00
Spiked Amount			Recovery	=	100.52%	
62) 4-Bromofluorobenzene	11.13	95	322590	45.61	ug/l	0.00
Spiked Amount			Recovery	=	91.22%	

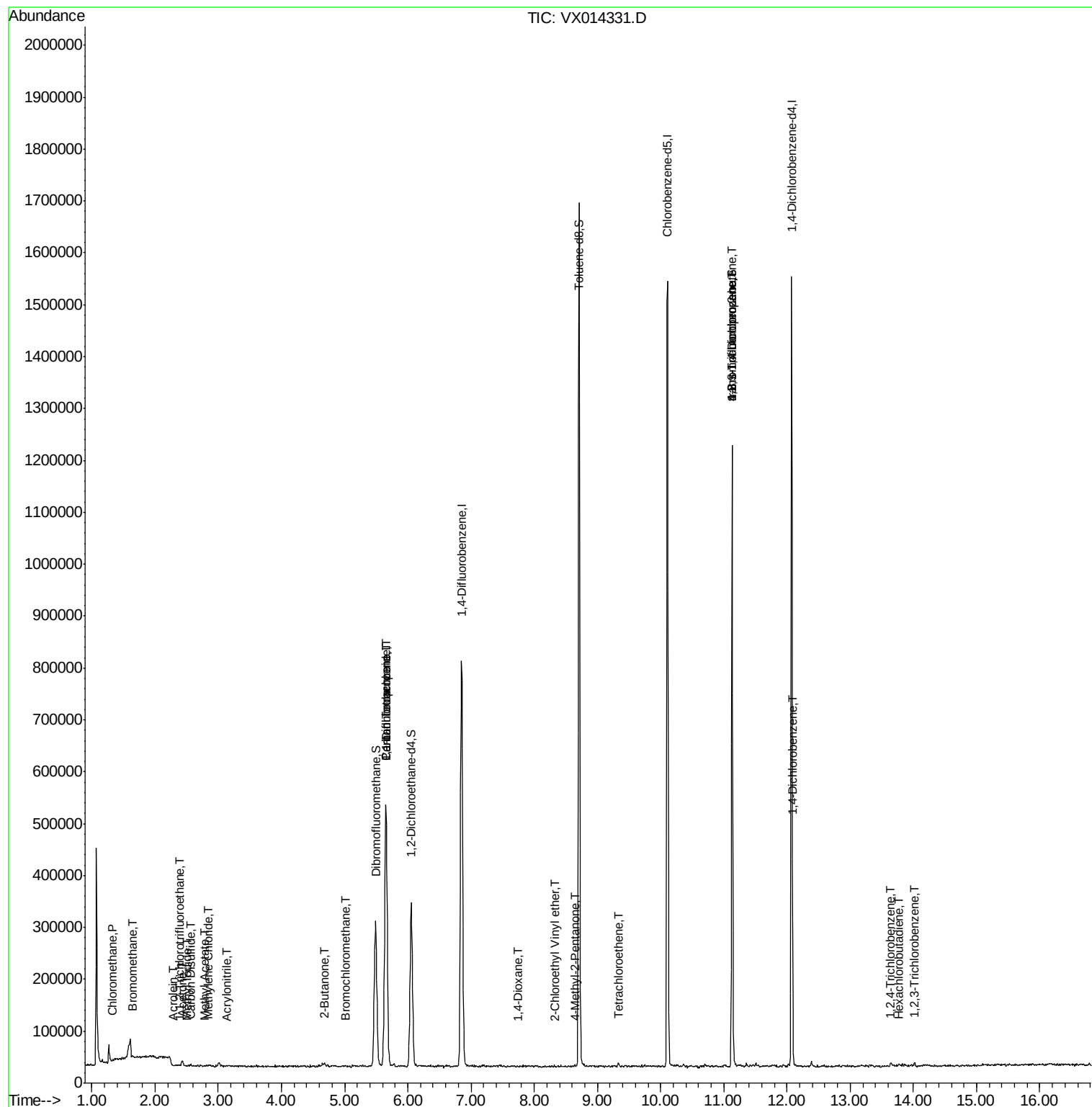
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1487	0.234	ug/l	89
5) Bromomethane	1.64	94	1889	0.397	ug/l	81
9) 1,1,2-Trichlorotrifluoroet	2.38	101	1084	0.217	ug/l #	78
10) Methyl Iodide	2.51	142	2244	2.943	ug/l #	89
13) Acrolein	2.30	56	650	0.877	ug/l #	14
15) Acrylonitrile	3.14	53	739	0.245	ug/l #	34
16) Acetone	2.44	43	10361	2.663	ug/l	96
17) Carbon Disulfide	2.56	76	3973	1.027	ug/l #	95
18) Methyl Acetate	2.77	43	2585	0.335	ug/l #	79
20) Methylene Chloride	2.85	84	2105	0.344	ug/l #	78
25) 2-Butanone	4.67	43	2931	0.611	ug/l	98
28) Bromochloromethane	5.03	49	189	0.502	ug/l #	68
36) 1,1-Dichloropropene	5.65	75	37420	4.989	ug/l #	49
38) Carbon Tetrachloride	5.65	117	46999	6.878	ug/l #	17
49) 1,4-Dioxane	7.75	88	550	4.026	ug/l #	62
51) 4-Methyl-2-Pentanone	8.64	43	2144	0.249	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.32	63	1236	0.356	ug/l #	87
64) Tetrachloroethene	9.33	164	1847	0.287	ug/l #	53
76) 1,2,3-Trichloropropane	11.13	75	153828	22.368	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	153828	63.133	ug/l #	11
88) 1,4-Dichlorobenzene	12.09	146	2265	0.207	ug/l #	1
93) 1,2,4-Trichlorobenzene	13.65	180	1751	0.249	ug/l #	86
94) Hexachlorobutadiene	13.78	225	926	0.274	ug/l	86
96) 1,2,3-Trichlorobenzene	14.02	180	1682	0.242	ug/l #	83

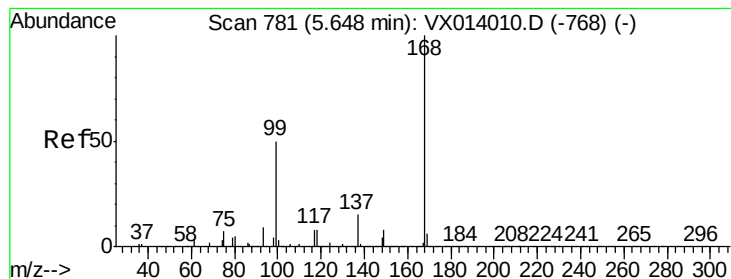
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX122719\
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Instrument :
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ClientSampleId :
VX1227WBL02

Quant Time: Dec 30 05:42:49 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 17 03:01:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014331.D

Acq: 28 Dec 2019 01:03

Instrument :

MSVOA_X

ClientSampleId :

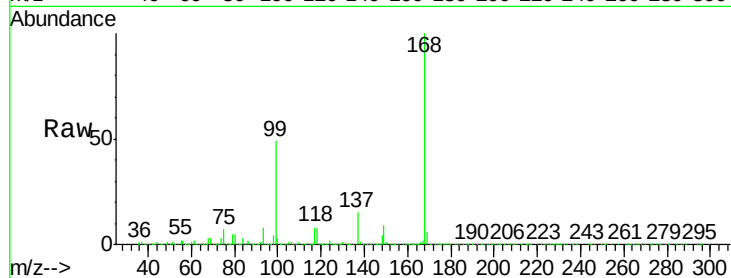
VX1227WBL02

Tgt Ion:168 Resp: 528717

Ion Ratio Lower Upper

168 100

99 49.2 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

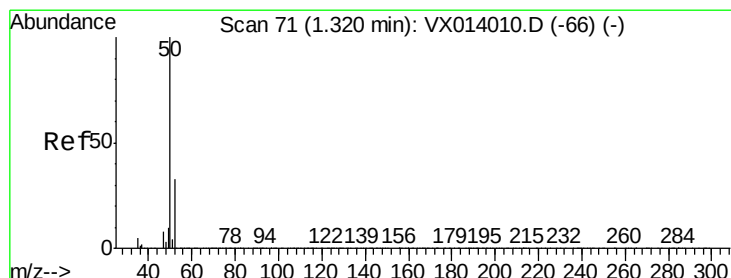
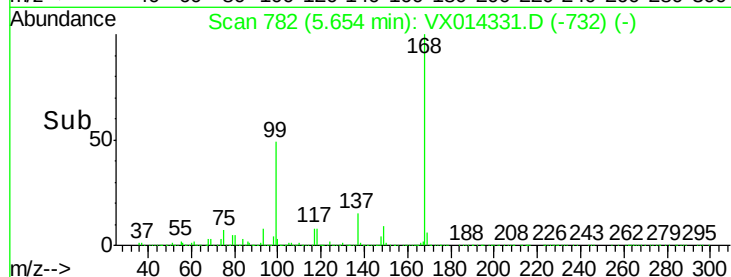
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.234 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX014331.D

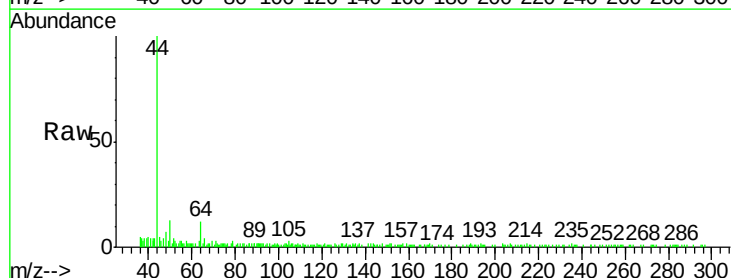
Acq: 28 Dec 2019 01:03

Tgt Ion: 50 Resp: 1487

Ion Ratio Lower Upper

50 100

52 26.8 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

1200

1000

800

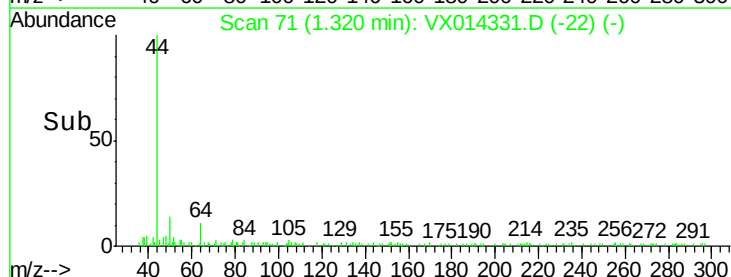
600

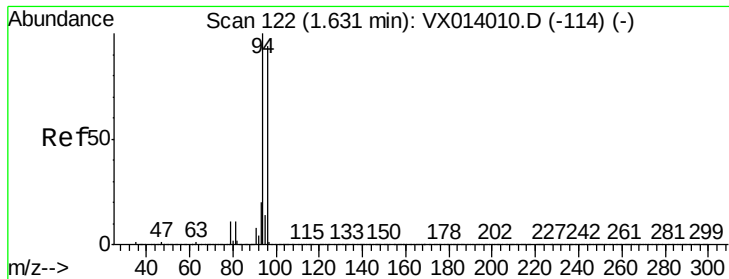
400

200

0

Time-->





#5

Bromomethane

Concen: 0.397 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014331.D

Acq: 28 Dec 2019 01:03

Instrument :

MSVOA_X

ClientSampleId :

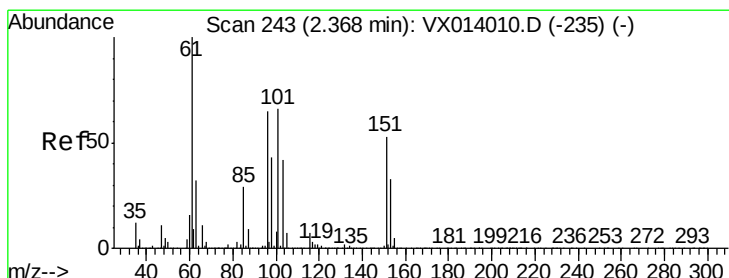
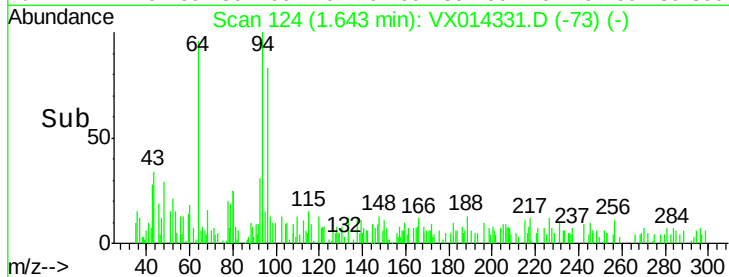
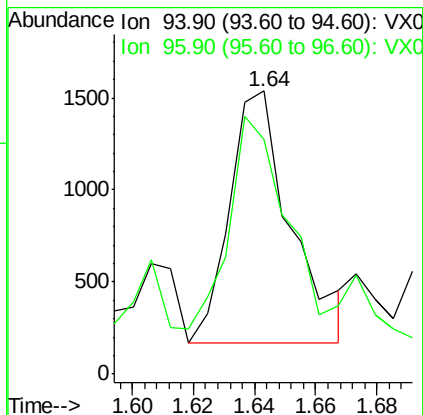
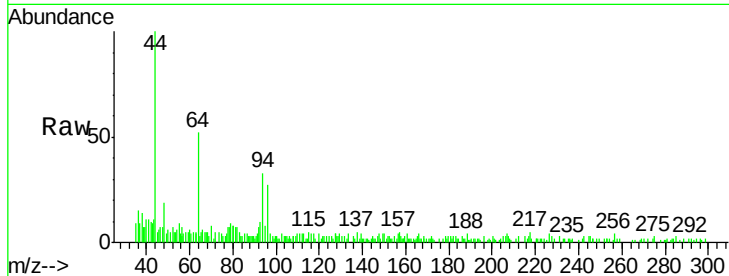
VX1227WBL02

Tgt Ion: 94 Resp: 1889

Ion Ratio Lower Upper

94 100

96 75.3 75.2 112.8



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.217 ug/l

RT: 2.38 min Scan# 245

Delta R.T. 0.01 min

Lab File: VX014331.D

Acq: 28 Dec 2019 01:03

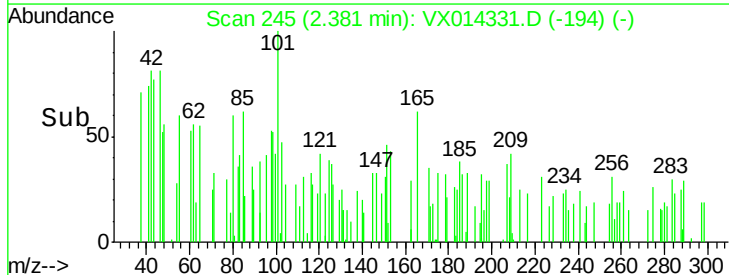
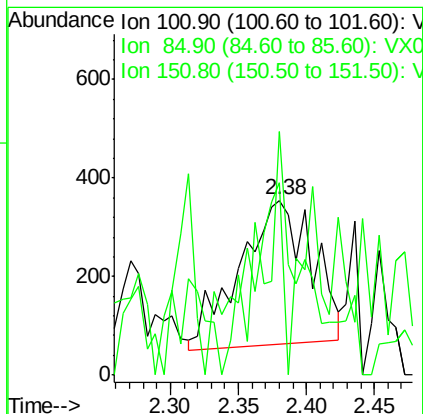
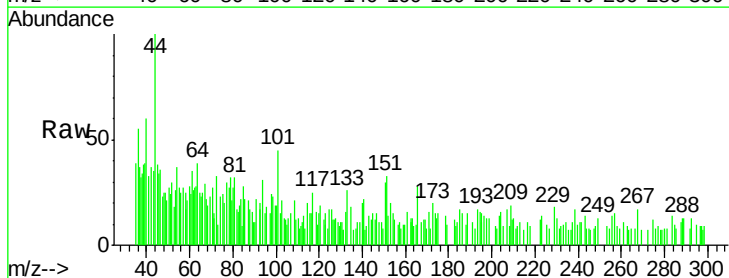
Tgt Ion: 101 Resp: 1084

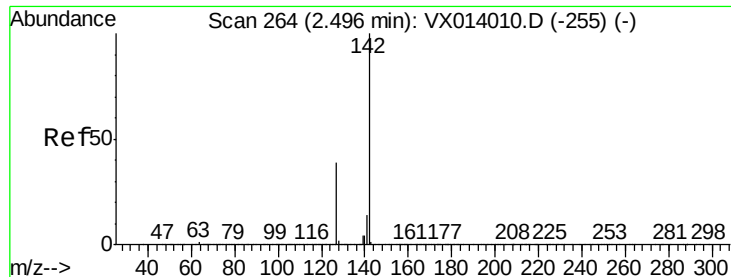
Ion Ratio Lower Upper

101 100

85 69.6 33.7 50.5#

151 90.3 64.5 96.7

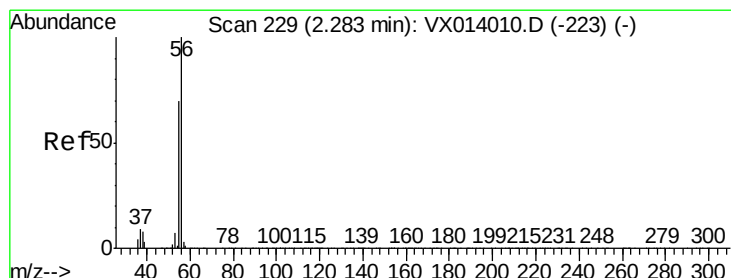
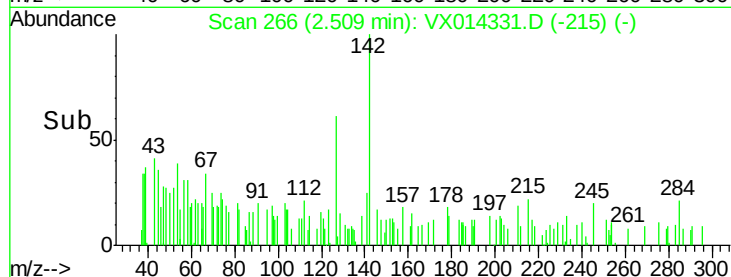
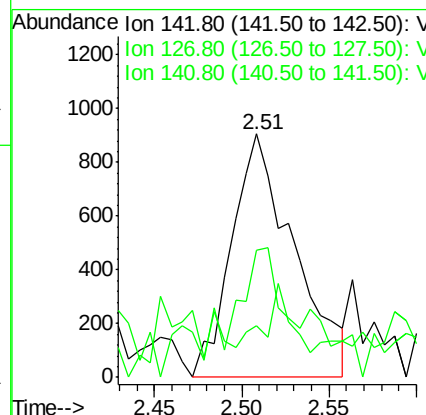
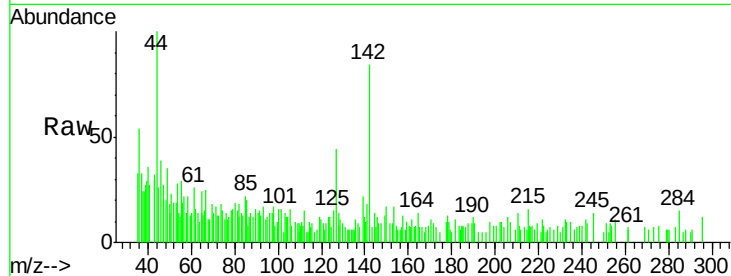




#10
Methyl Iodide
Concen: 2.943 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX014331.D
Acq: 28 Dec 2019 01:03

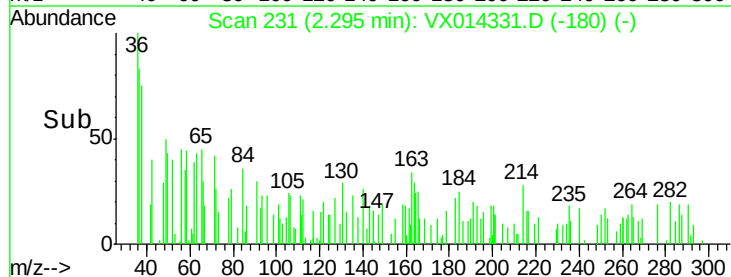
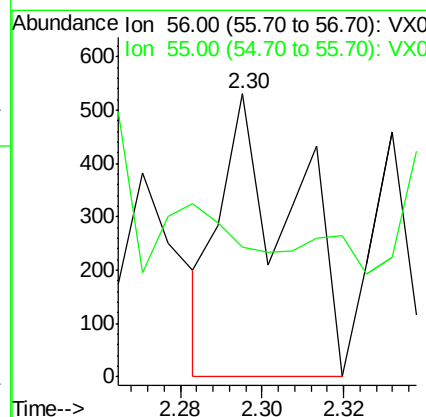
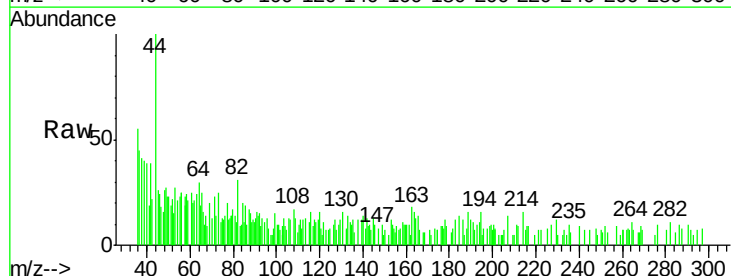
Instrument :
MSVOA_X
ClientSampleId :
VX1227WBL02

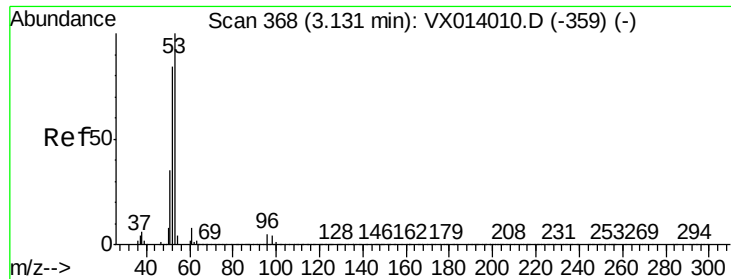
Tgt Ion: 142 Resp: 2244
Ion Ratio Lower Upper
142 100
127 32.2 31.6 47.4
141 11.1 11.6 17.4#



#13
Acrolein
Concen: 0.877 ug/l
RT: 2.30 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX014331.D
Acq: 28 Dec 2019 01:03

Tgt Ion: 56 Resp: 650
Ion Ratio Lower Upper
56 100
55 0.0 56.9 85.3#





#15

Acrylonitrile

Concen: 0.245 ug/l

RT: 3.14 min Scan# 369

Delta R.T. 0.01 min

Lab File: VX014331.D

Acq: 28 Dec 2019 01:03

Instrument :

MSVOA_X

ClientSampleId :

VX1227WBL02

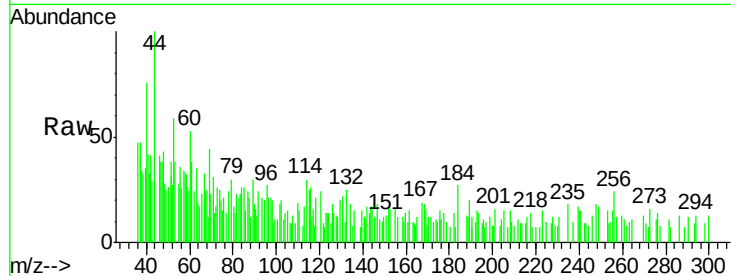
Tgt Ion: 53 Resp: 739

Ion Ratio Lower Upper

53 100

52 0.0 66.5 99.7#

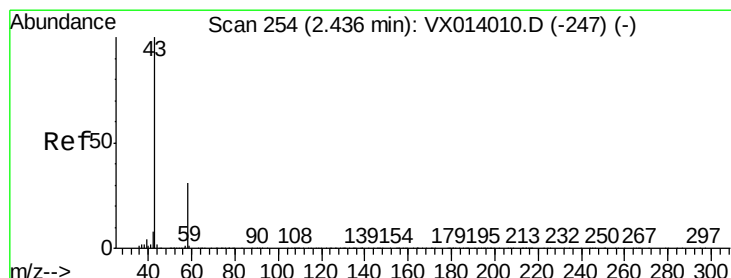
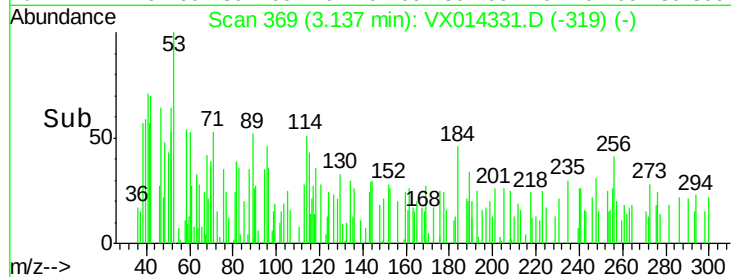
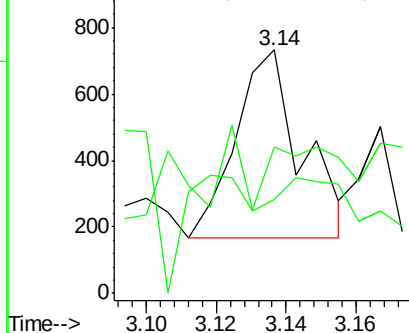
51 33.7 28.1 42.1



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

Acetone

Concen: 2.663 ug/l

RT: 2.44 min Scan# 254

Delta R.T. -0.00 min

Lab File: VX014331.D

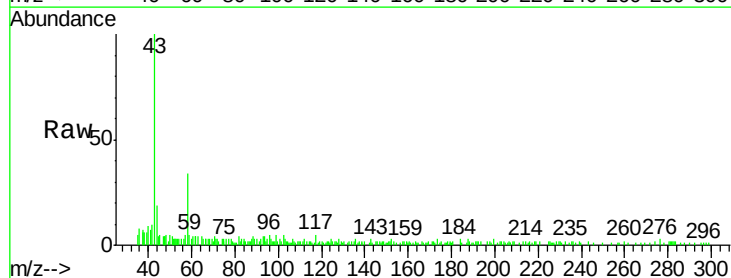
Acq: 28 Dec 2019 01:03

Tgt Ion: 43 Resp: 10361

Ion Ratio Lower Upper

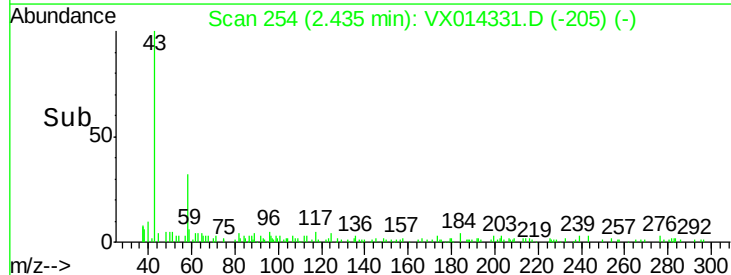
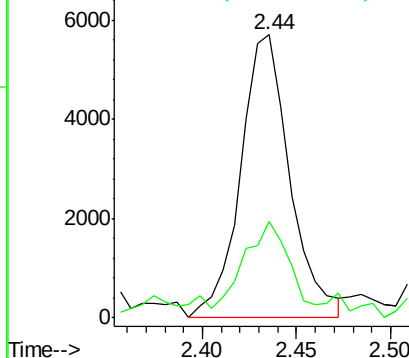
43 100

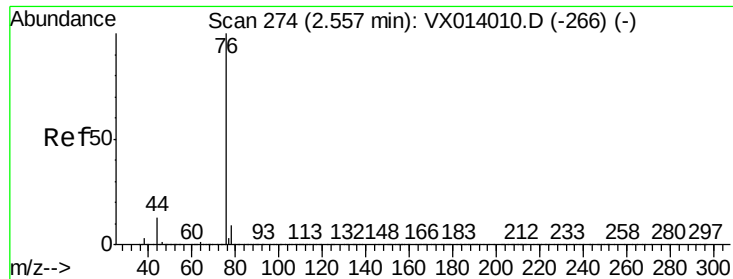
58 29.0 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 1.027 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014331.D

Acq: 28 Dec 2019 01:03

Instrument :

MSVOA_X

ClientSampleId :

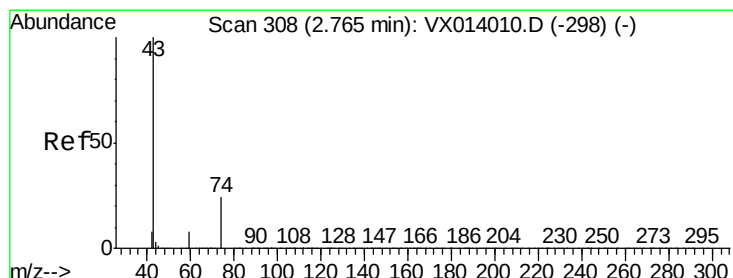
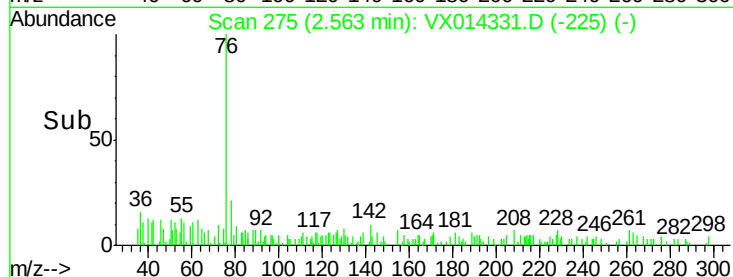
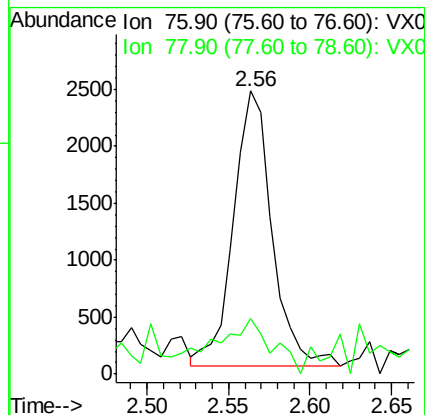
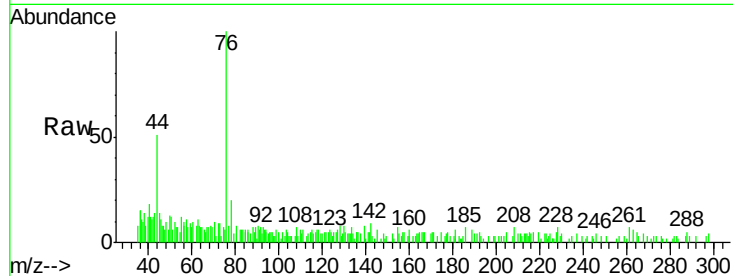
VX1227WBL02

Tgt Ion: 76 Resp: 3973

Ion Ratio Lower Upper

76 100

78 10.9 7.2 10.8#



#18

Methyl Acetate

Concen: 0.335 ug/l

RT: 2.77 min Scan# 309

Delta R.T. 0.01 min

Lab File: VX014331.D

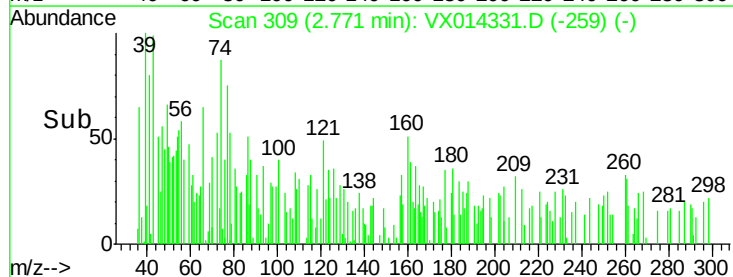
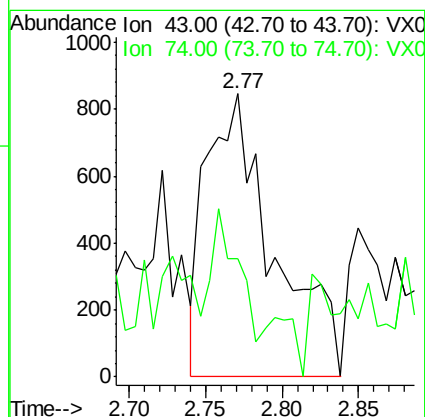
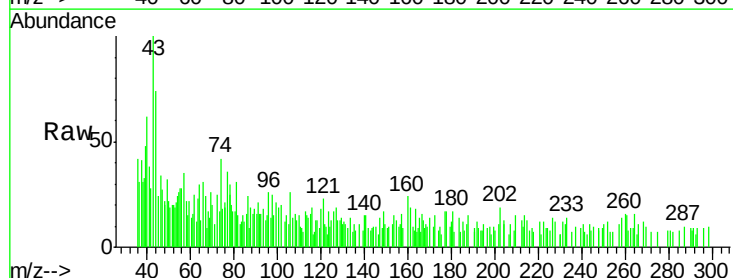
Acq: 28 Dec 2019 01:03

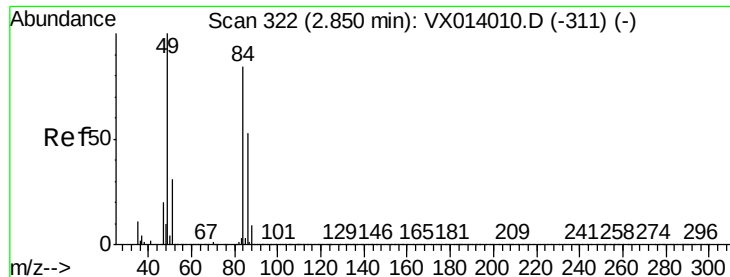
Tgt Ion: 43 Resp: 2585

Ion Ratio Lower Upper

43 100

74 14.1 19.5 29.3#

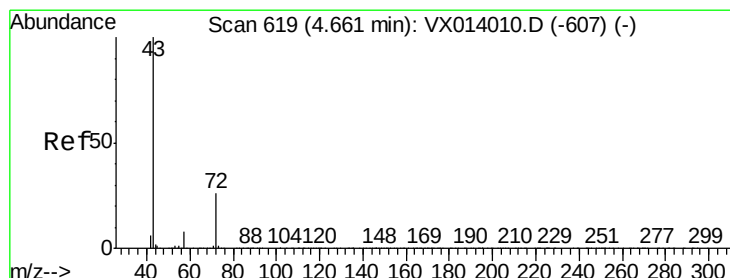
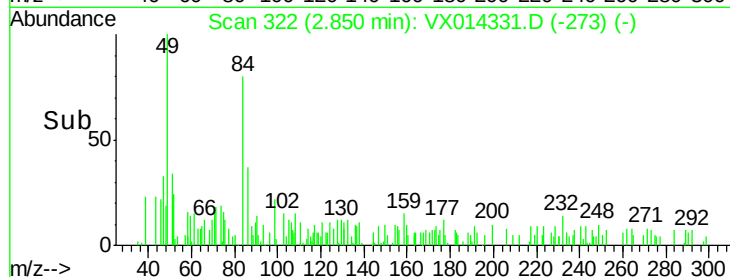
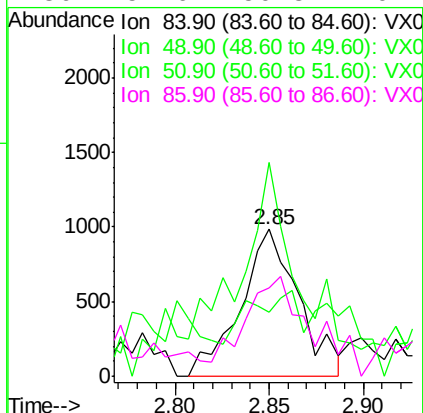
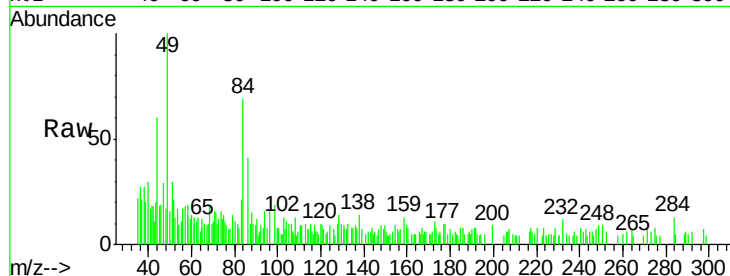




#20
Methylene Chloride
Concen: 0.344 ug/l
RT: 2.85 min Scan# 322
Delta R.T. -0.00 min
Lab File: VX014331.D
Acq: 28 Dec 2019 01:03

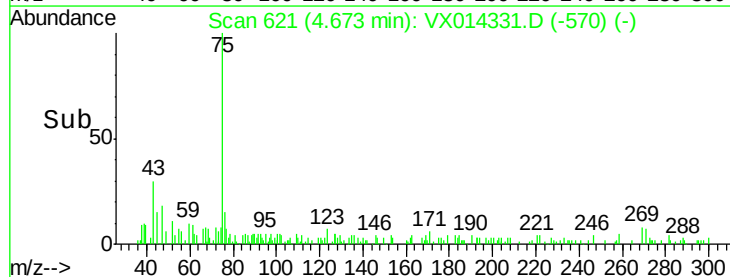
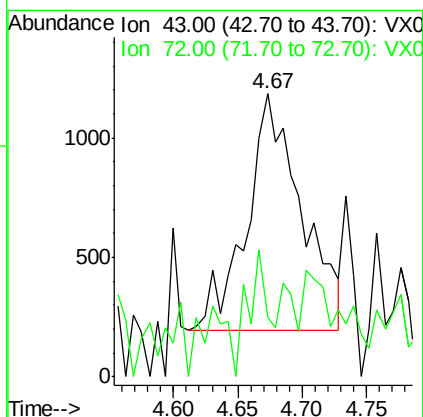
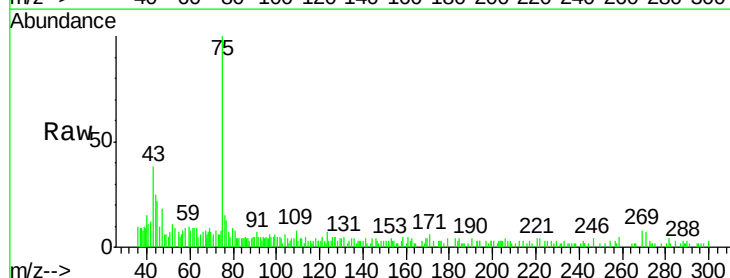
Instrument :
MSVOA_X
ClientSampleId :
VX1227WBL02

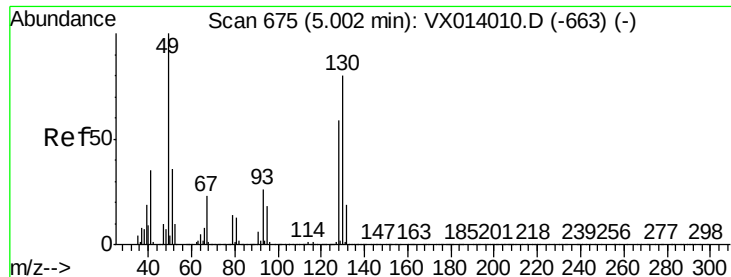
Tgt Ion:	84	Resp:	2105
Ion	Ratio	Lower	Upper
84	100		
49	136.3	95.8	143.6
51	4.8	29.8	44.8#
86	51.6	50.8	76.2



#25
2-Butanone
Concen: 0.611 ug/l
RT: 4.67 min Scan# 621
Delta R.T. 0.01 min
Lab File: VX014331.D
Acq: 28 Dec 2019 01:03

Tgt Ion:	43	Resp:	2931
Ion	Ratio	Lower	Upper
43	100		
72	24.9	21.0	31.4





#28

Bromochloromethane

Concen: 0.502 ug/l

RT: 5.03 min Scan# 679

Delta R.T. 0.02 min

Lab File: VX014331.D

Acq: 28 Dec 2019 01:03

Instrument :

MSVOA_X

ClientSampleId :

VX1227WBL02

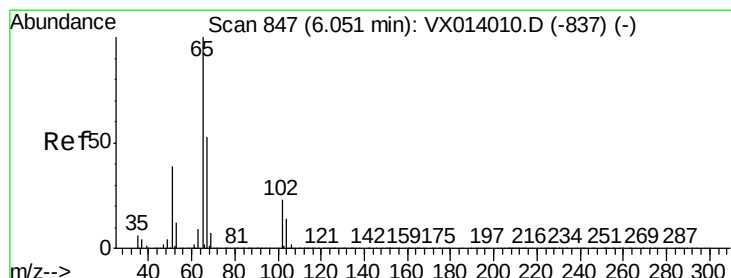
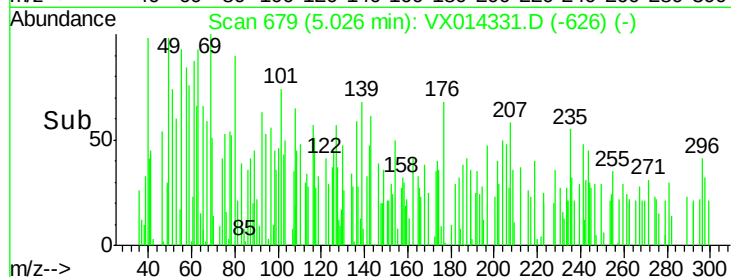
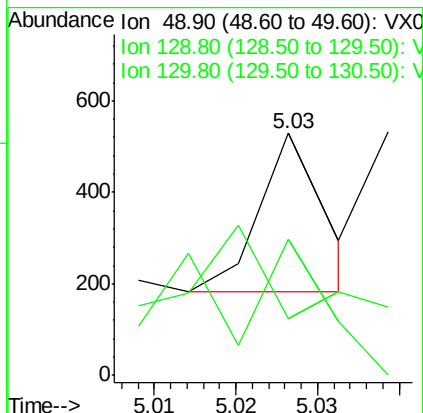
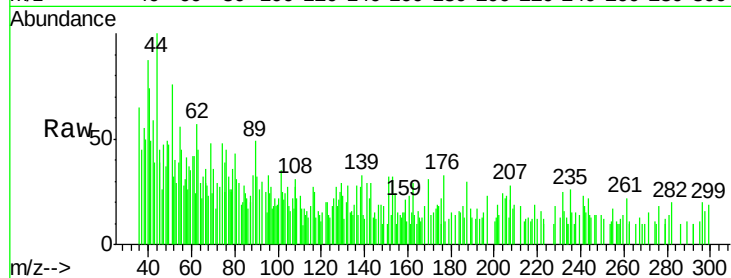
Tgt Ion: 49 Resp: 189

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.0

130 109.5 64.6 97.0#



#33

1,2-Dichloroethane-d4

Concen: 49.329 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX014331.D

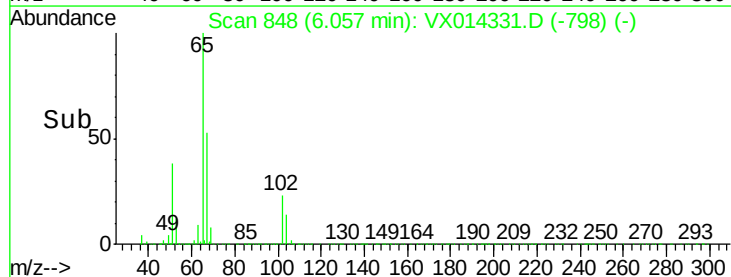
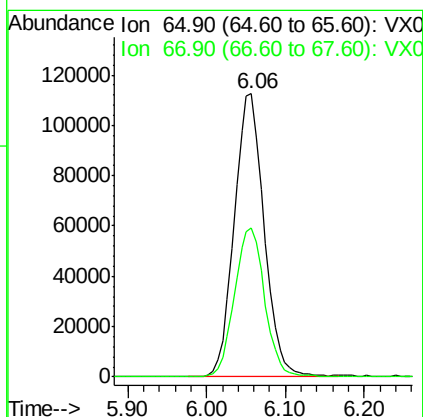
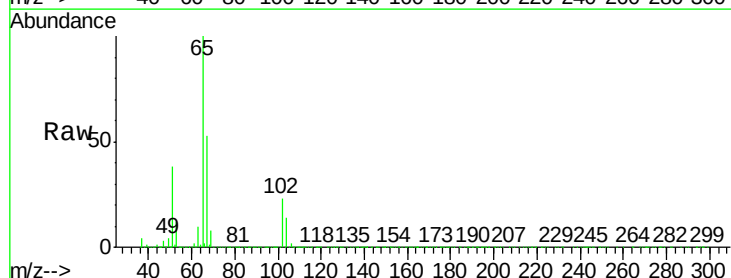
Acq: 28 Dec 2019 01:03

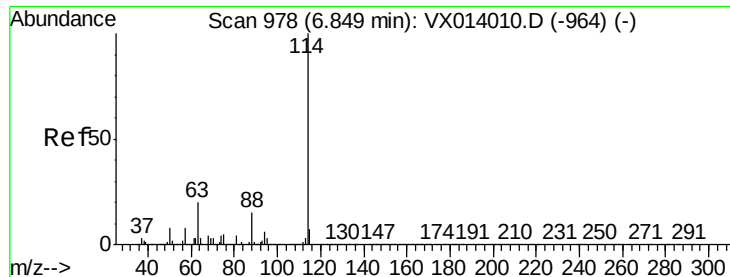
Tgt Ion: 65 Resp: 295593

Ion Ratio Lower Upper

65 100

67 52.7 0.0 106.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX014331.D

Acq: 28 Dec 2019 01:03

Instrument :

MSVOA_X

ClientSampleId :

VX1227WBL02

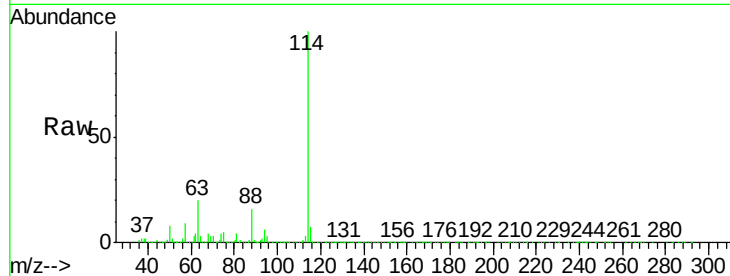
Tgt Ion:114 Resp: 817504

Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.8

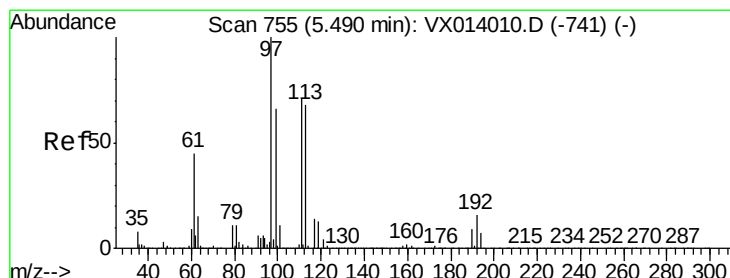
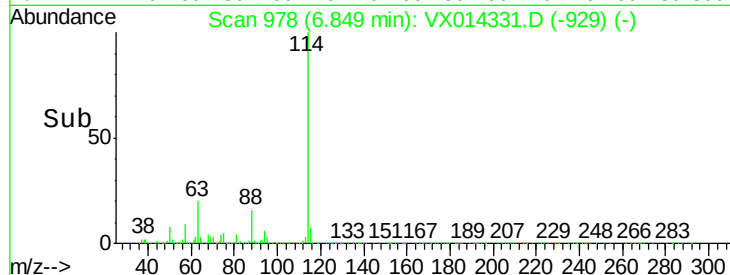
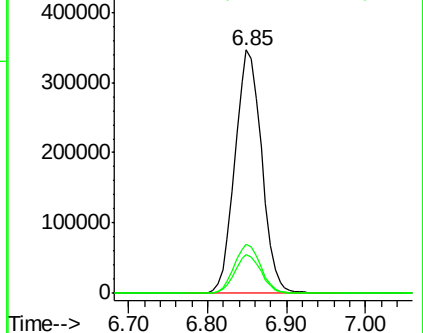
88 15.9 0.0 30.4



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



#35

Dibromofluoromethane

Concen: 48.629 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX014331.D

Acq: 28 Dec 2019 01:03

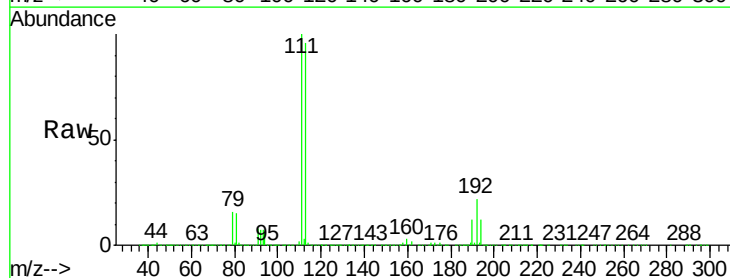
Tgt Ion:113 Resp: 241661

Ion Ratio Lower Upper

113 100

111 104.4 82.0 123.0

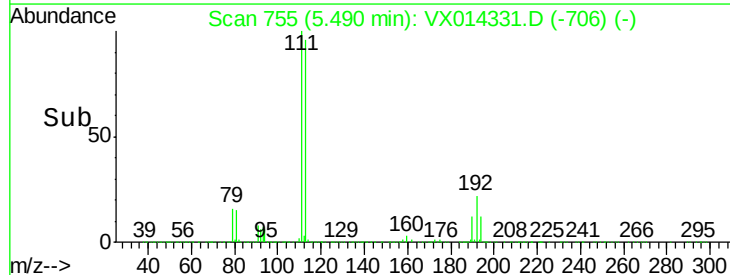
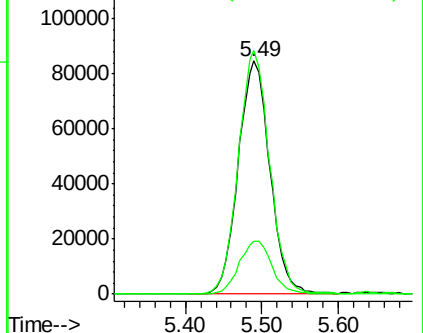
192 23.6 19.3 28.9

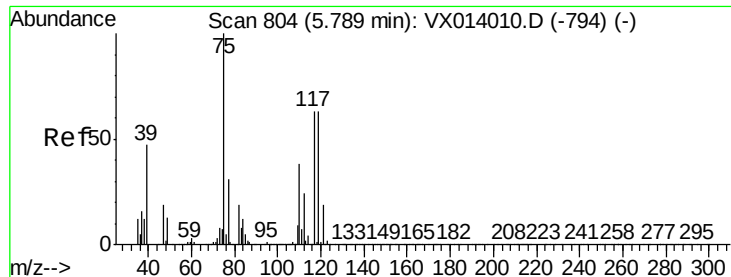


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

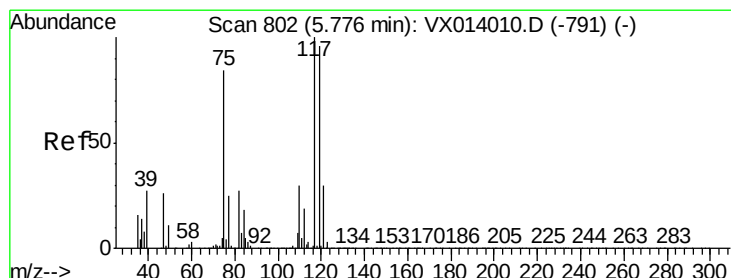
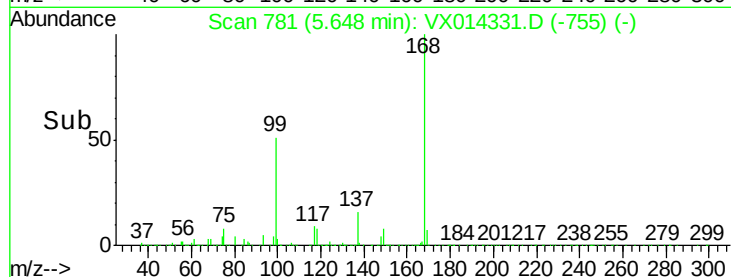
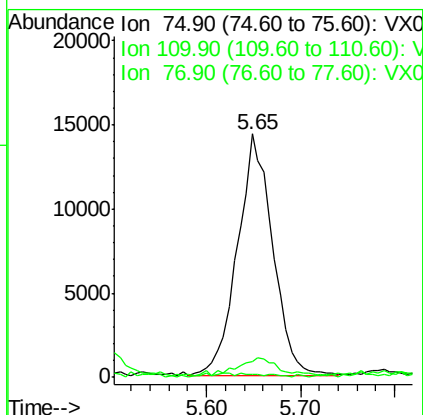
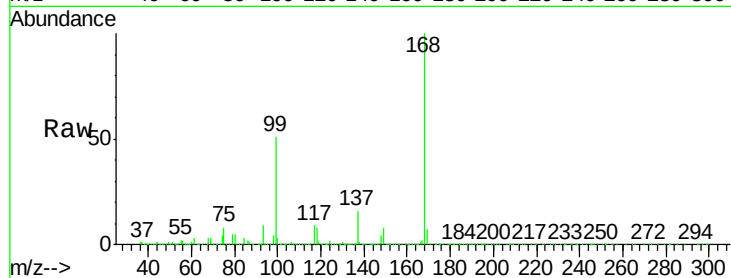




#36
 1,1-Dichloropropene
 Concen: 4.989 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX014331.D
 Acq: 28 Dec 2019 01:03

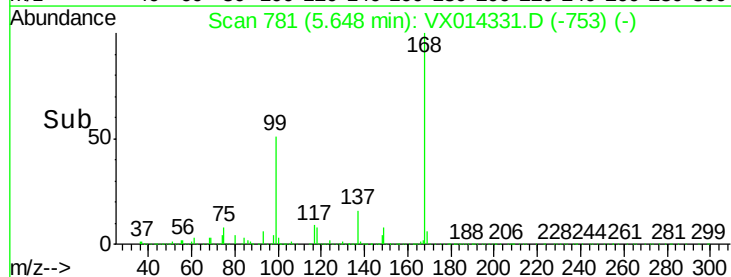
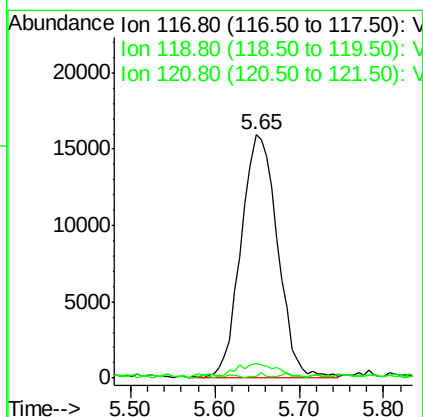
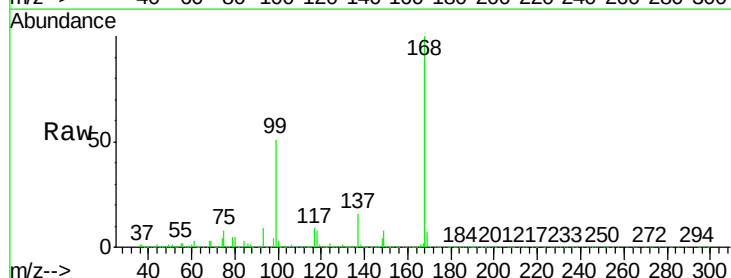
Instrument :
 MSVOA_X
 ClientSampleId :
 VX1227WBL02

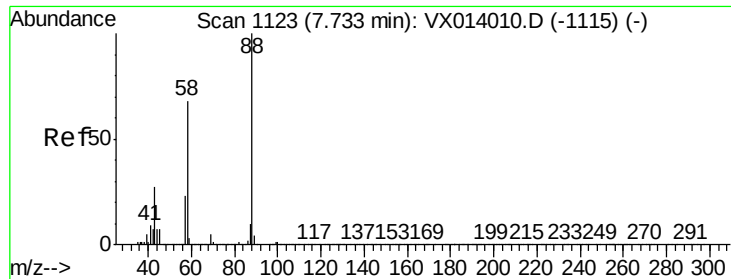
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.5	18.3	54.9#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.878 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX014331.D
 Acq: 28 Dec 2019 01:03

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.0	76.2	114.4#
121	0.9	23.6	35.4#





#49

1,4-Dioxane

Concen: 4.026 ug/l

RT: 7.75 min Scan# 1126

Delta R.T. 0.02 min

Lab File: VX014331.D

Acq: 28 Dec 2019 01:03

Instrument :

MSVOA_X

ClientSampleId :

VX1227WBL02

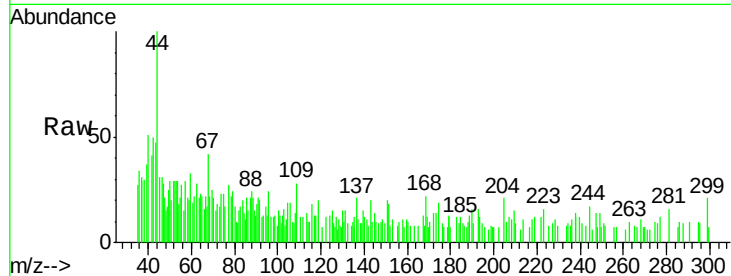
Tgt Ion: 88 Resp: 550

Ion Ratio Lower Upper

88 100

43 72.4 26.5 39.7#

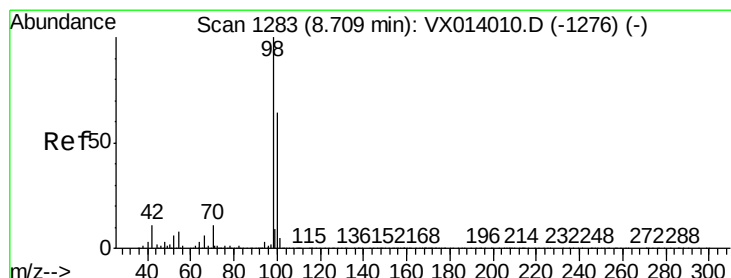
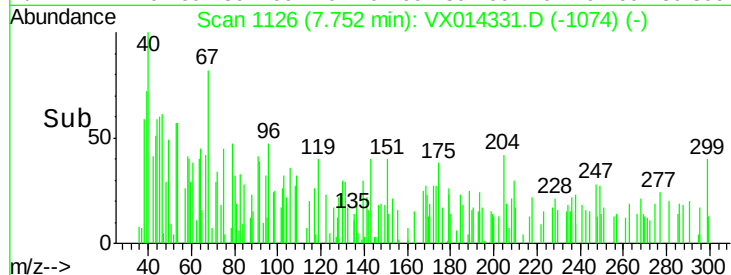
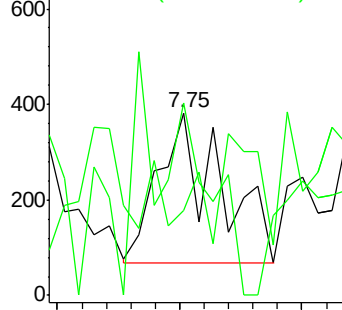
58 51.5 56.8 85.2#



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: 50.259 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX014331.D

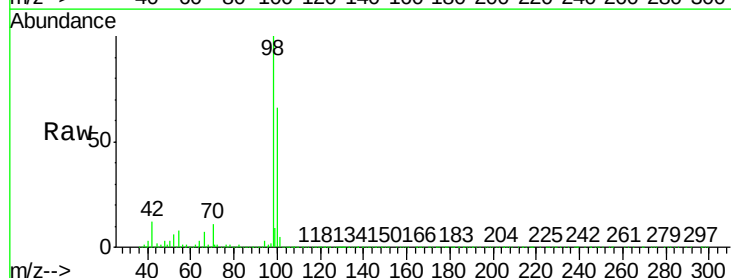
Acq: 28 Dec 2019 01:03

Tgt Ion: 98 Resp: 972392

Ion Ratio Lower Upper

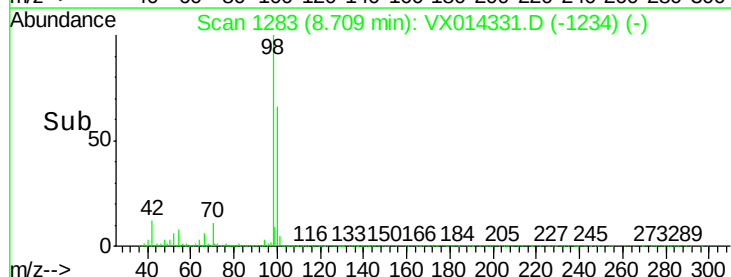
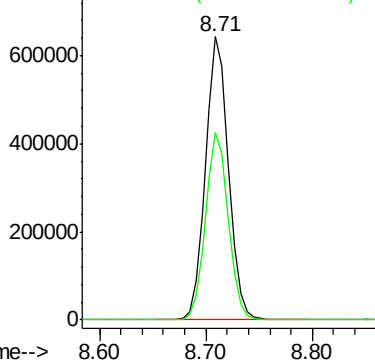
98 100

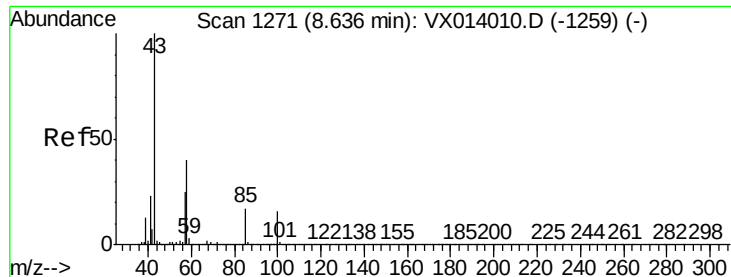
100 65.7 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

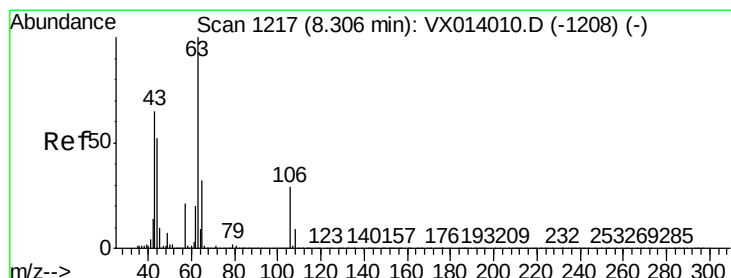
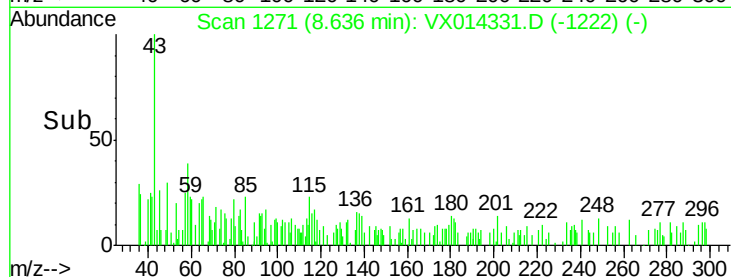
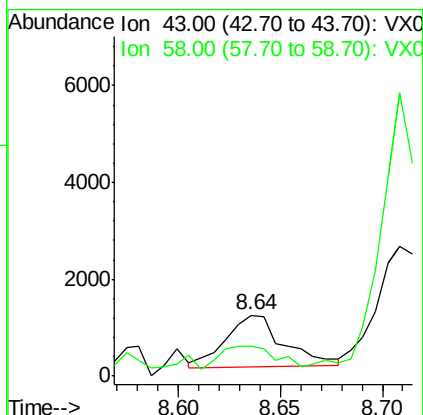
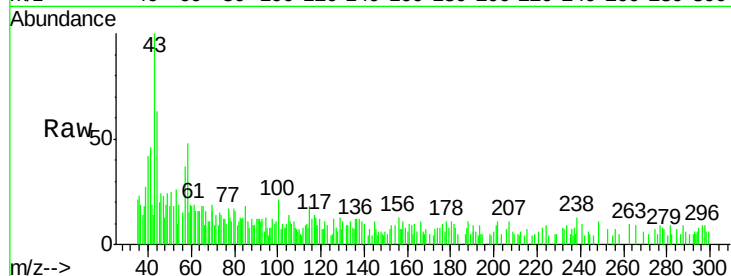




#51
 4-Methyl-2-Pentanone
 Concen: 0.249 ug/l
 RT: 8.64 min Scan# 1271
 Delta R.T. -0.00 min
 Lab File: VX014331.D
 Acq: 28 Dec 2019 01:03

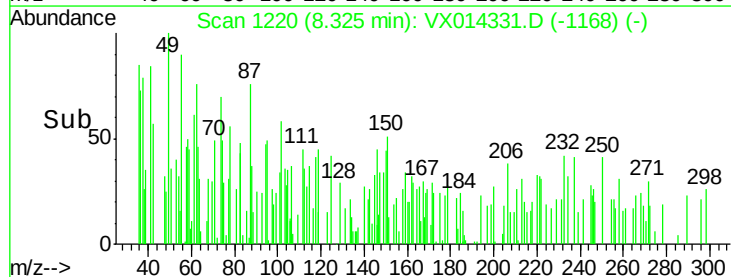
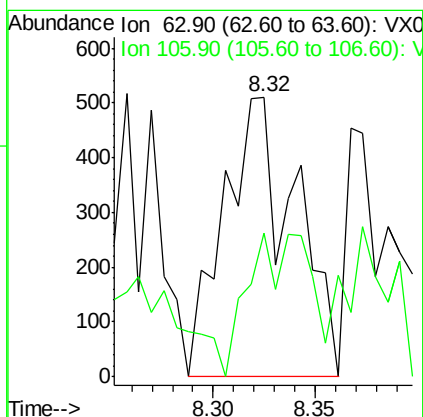
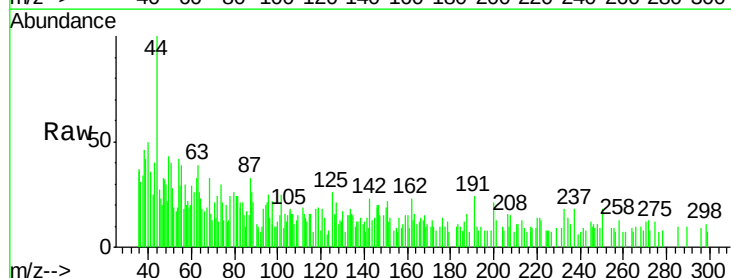
Instrument :
 MSVOA_X
 ClientSampleId :
 VX1227WBL02

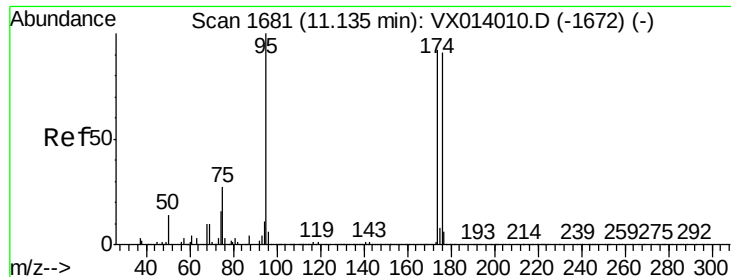
Tgt Ion: 43 Resp: 2144
 Ion Ratio Lower Upper
 43 100
 58 40.5 32.2 48.2



#58
 2-Chloroethyl Vinyl ether
 Concen: 0.356 ug/l
 RT: 8.32 min Scan# 1220
 Delta R.T. 0.02 min
 Lab File: VX014331.D
 Acq: 28 Dec 2019 01:03

Tgt Ion: 63 Resp: 1236
 Ion Ratio Lower Upper
 63 100
 106 21.7 23.0 34.6#





#62

4-Bromofluorobenzene

Concen: 45.613 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014331.D

Acq: 28 Dec 2019 01:03

Instrument :

MSVOA_X

ClientSampleId :

VX1227WBL02

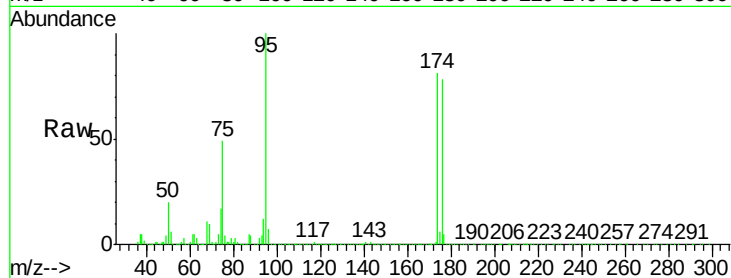
Tgt Ion: 95 Resp: 322590

Ion Ratio Lower Upper

95 100

174 88.6 0.0 175.8

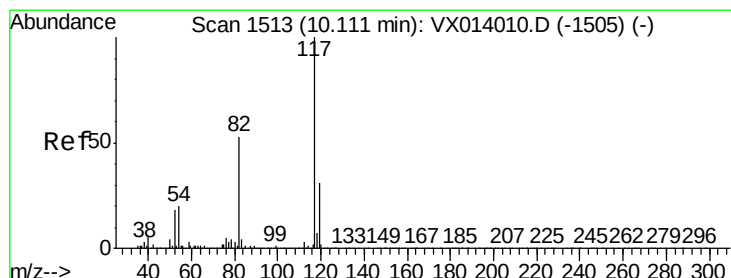
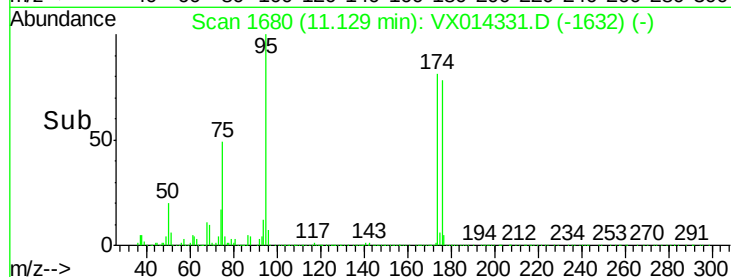
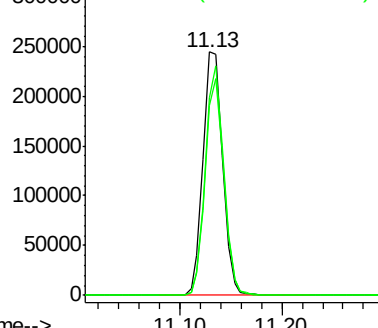
176 84.9 0.0 173.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX014331.D

Acq: 28 Dec 2019 01:03

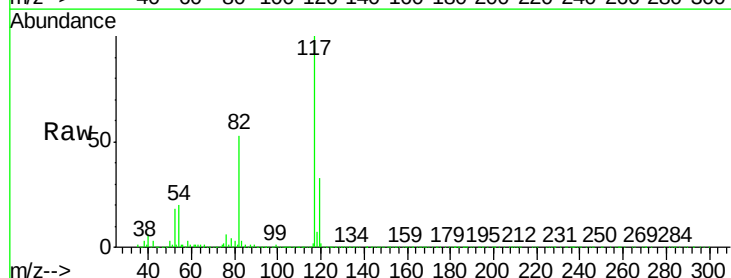
Tgt Ion: 117 Resp: 726828

Ion Ratio Lower Upper

117 100

82 52.8 42.2 63.4

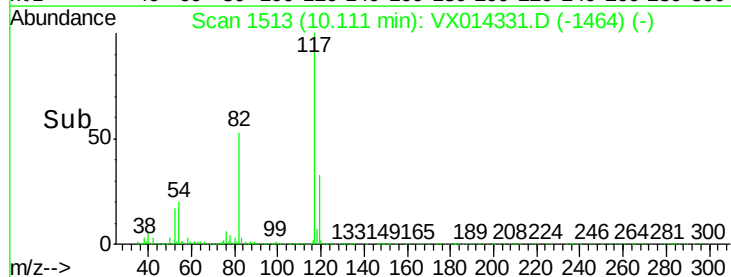
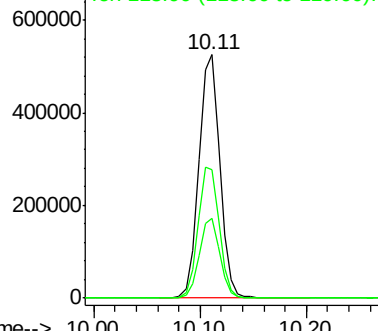
119 32.8 25.1 37.7

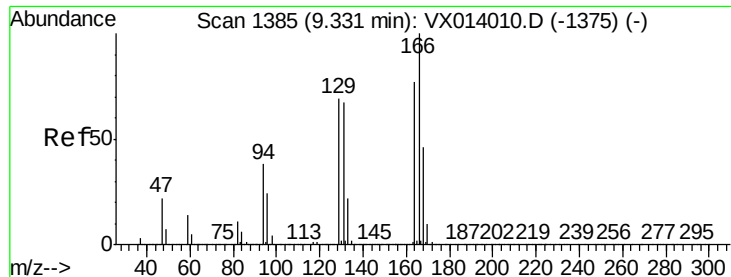


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 0.287 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VX014331.D

Acq: 28 Dec 2019 01:03

Instrument :

MSVOA_X

ClientSampleId :

VX1227WBL02

Tgt Ion:164 Resp: 1847

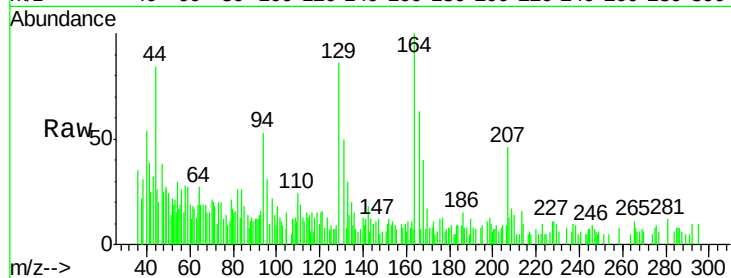
Ion Ratio Lower Upper

164 100

166 57.4 104.0 156.0#

129 75.5 72.2 108.4

131 36.0 69.6 104.4#

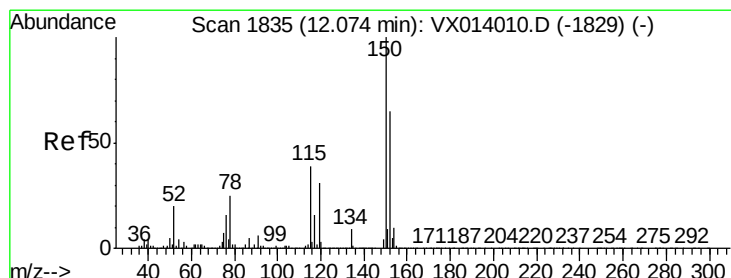
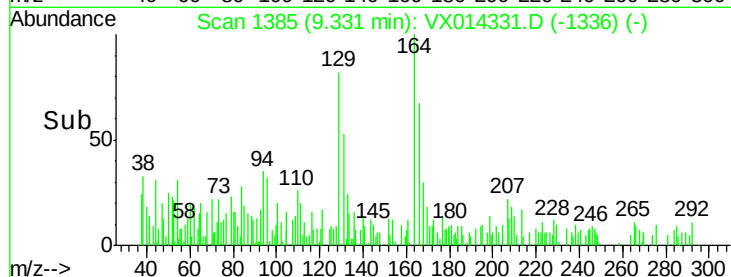
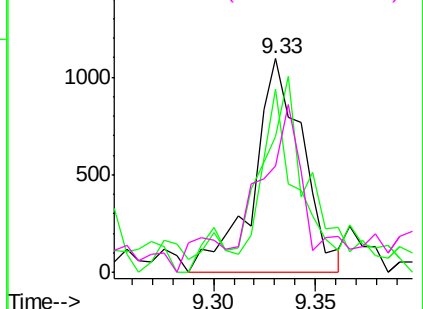


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX014331.D

Acq: 28 Dec 2019 01:03

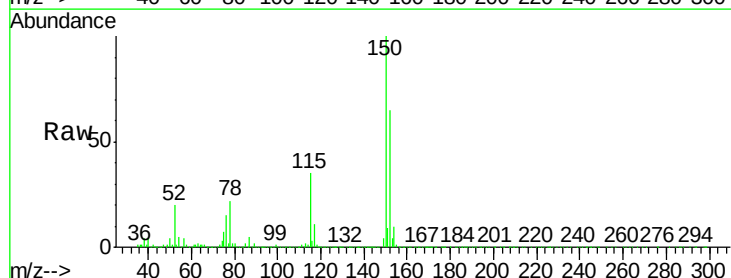
Tgt Ion:152 Resp: 316782

Ion Ratio Lower Upper

152 100

115 56.1 38.3 114.9

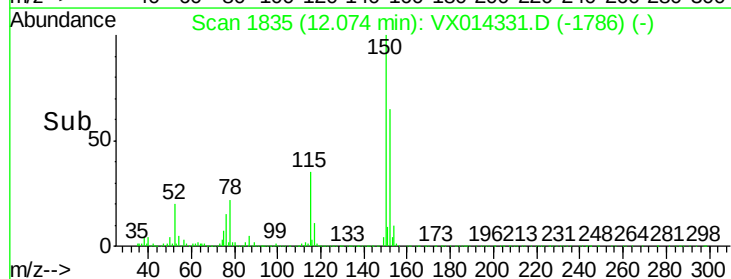
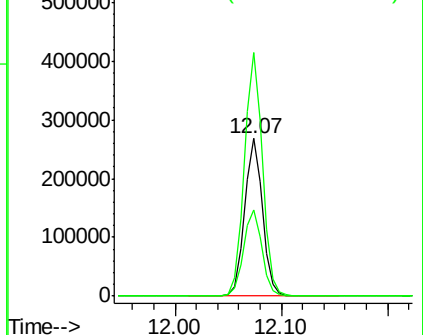
150 155.8 0.0 345.4

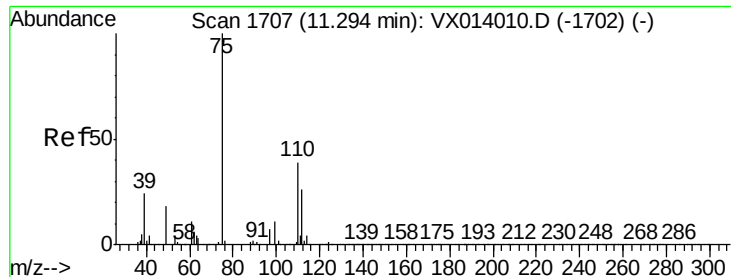


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.368 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014331.D

Acq: 28 Dec 2019 01:03

Instrument :

MSVOA_X

ClientSampleId :

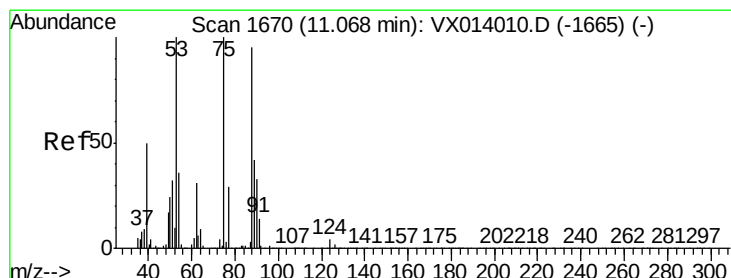
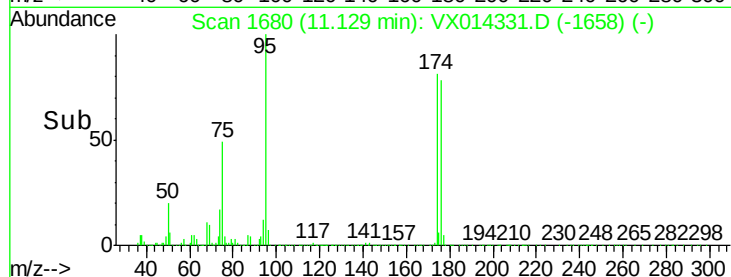
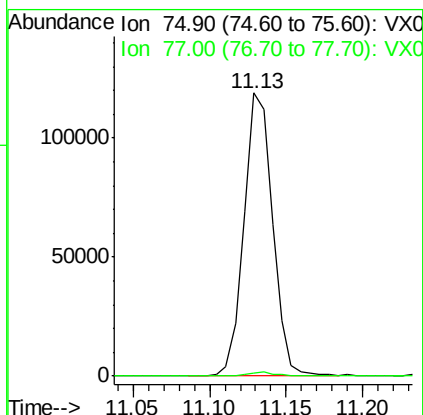
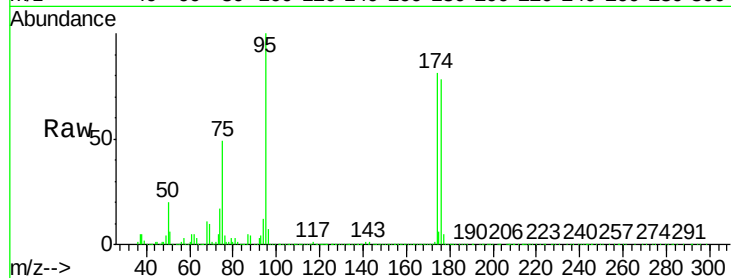
VX1227WBL02

Tgt Ion: 75 Resp: 153828

Ion Ratio Lower Upper

75 100

77 1.4 19.3 57.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 63.133 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014331.D

Acq: 28 Dec 2019 01:03

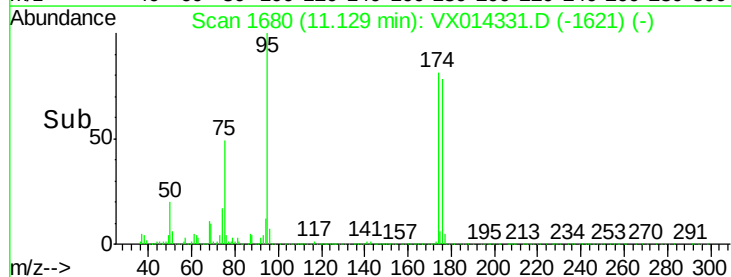
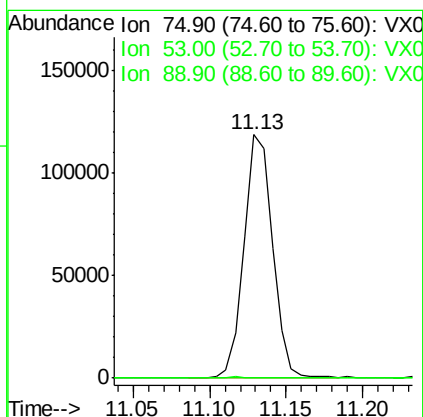
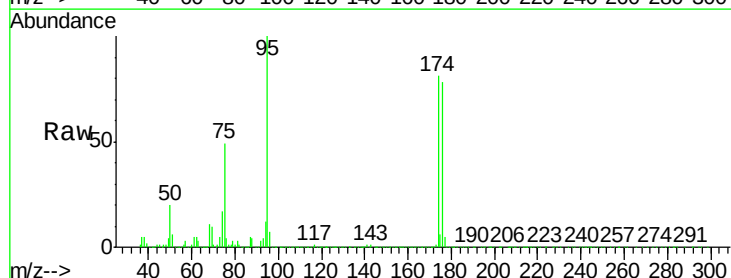
Tgt Ion: 75 Resp: 153828

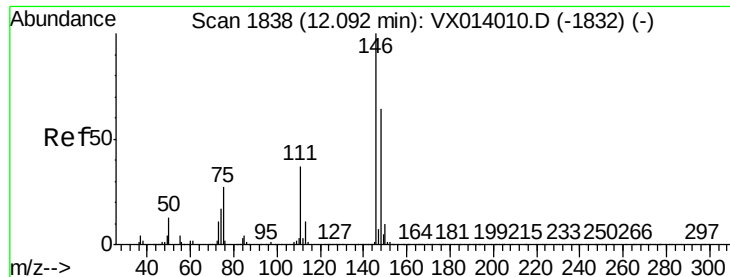
Ion Ratio Lower Upper

75 100

53 0.1 76.7 115.1#

89 0.0 34.6 51.8#





#88

1,4-Dichlorobenzene

Concen: 0.207 ug/l

RT: 12.09 min Scan# 1838

Delta R.T. -0.00 min

Lab File: VX014331.D

Acq: 28 Dec 2019 01:03

Instrument :

MSVOA_X

ClientSampleId :

VX1227WBL02

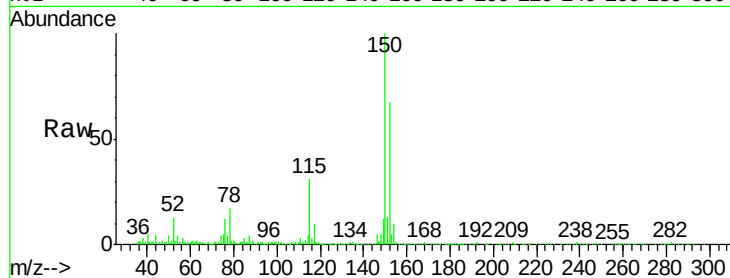
Tgt Ion:146 Resp: 2265

Ion Ratio Lower Upper

146 100

111 206.7 18.7 56.1#

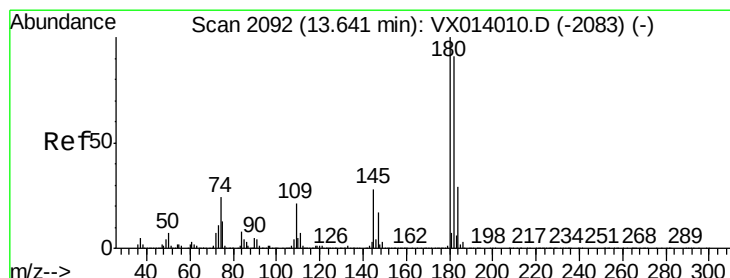
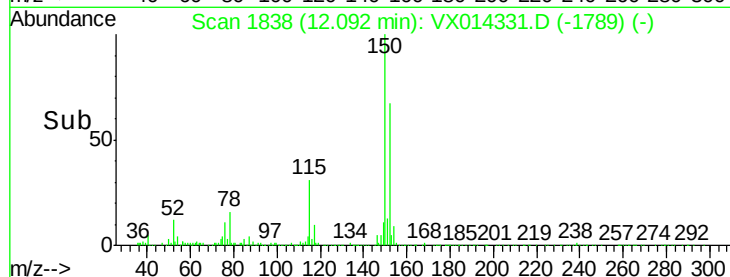
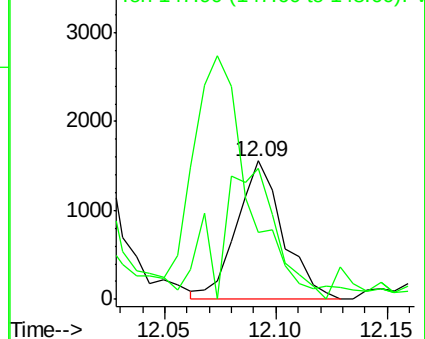
148 117.1 31.9 95.9#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#93

1,2,4-Trichlorobenzene

Concen: 0.249 ug/l

RT: 13.65 min Scan# 2093

Delta R.T. 0.01 min

Lab File: VX014331.D

Acq: 28 Dec 2019 01:03

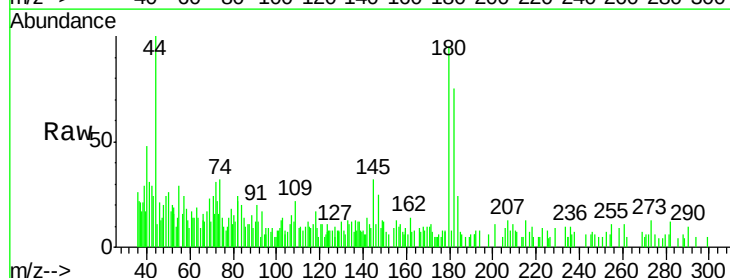
Tgt Ion:180 Resp: 1751

Ion Ratio Lower Upper

180 100

182 103.4 46.6 139.8

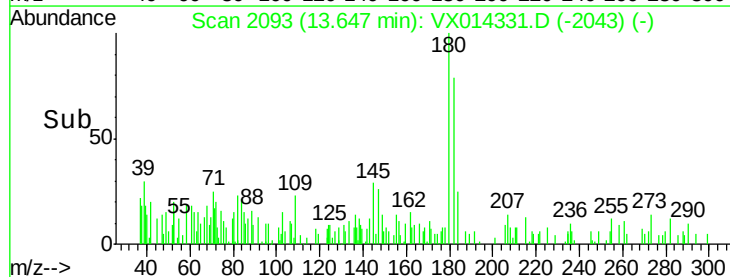
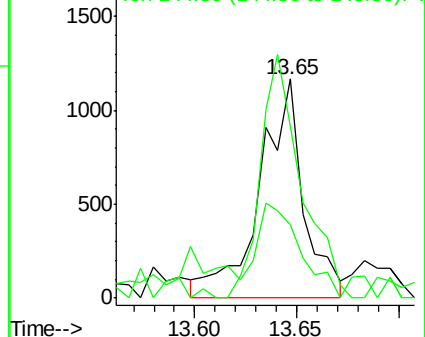
145 42.7 14.2 42.6#

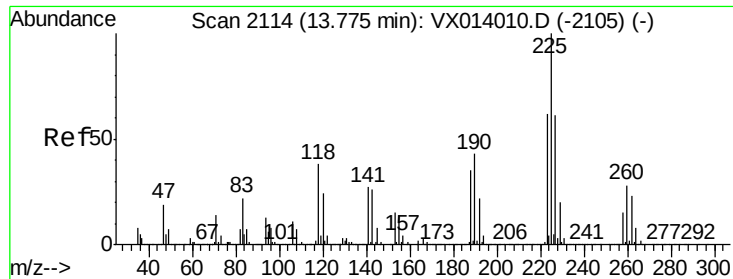


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.274 ug/l

RT: 13.78 min Scan# 2115

Delta R.T. 0.01 min

Lab File: VX014331.D

Acq: 28 Dec 2019 01:03

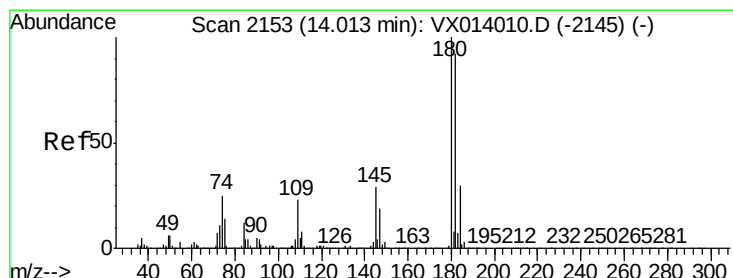
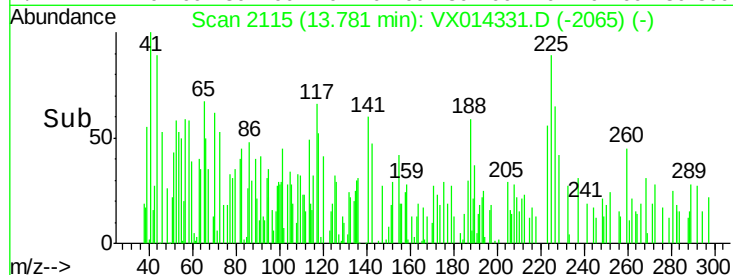
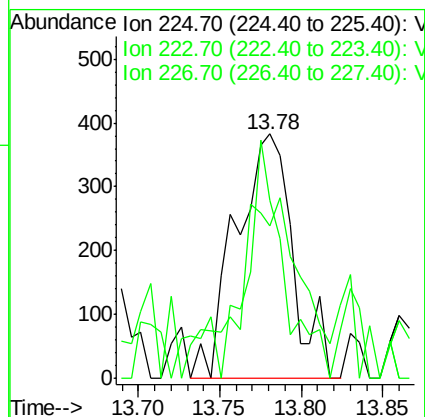
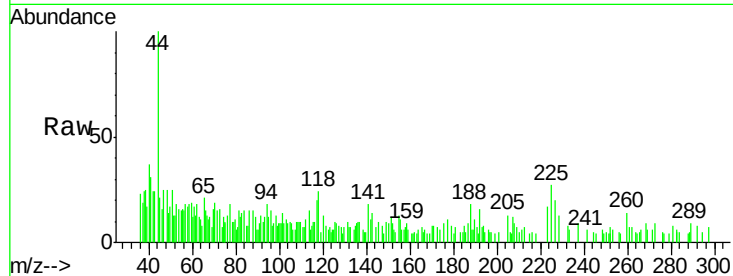
Instrument :

MSVOA_X

ClientSampled :

VX1227WBL02

Tgt Ion:	225	Resp:	926
Ion	Ratio	Lower	Upper
225	100		
223	83.6	30.9	92.5
227	61.8	30.9	92.7



#96

1,2,3-Trichlorobenzene

Concen: 0.242 ug/l

RT: 14.02 min Scan# 2154

Delta R.T. 0.01 min

Lab File: VX014331.D

Acq: 28 Dec 2019 01:03

Tgt Ion:	180	Resp:	1682
Ion	Ratio	Lower	Upper
180	100		
182	99.6	46.8	140.3
145	56.3	14.8	44.4#

