

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX020720\
 Data File : VX014864.D
 Acq On : 07 Feb 2020 11:57
 Operator : JC/SP
 Sample : VX0207WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Feb 07 22:09:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 15 12:41:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	69910	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	390897	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	341821	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	153250	31.19	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.97%
60) 4-Bromofluorobenzene	11.13	95	152566	27.89	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	92.97%
63) Toluene-d8	8.71	98	454880	29.46	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.20%

Target Compounds

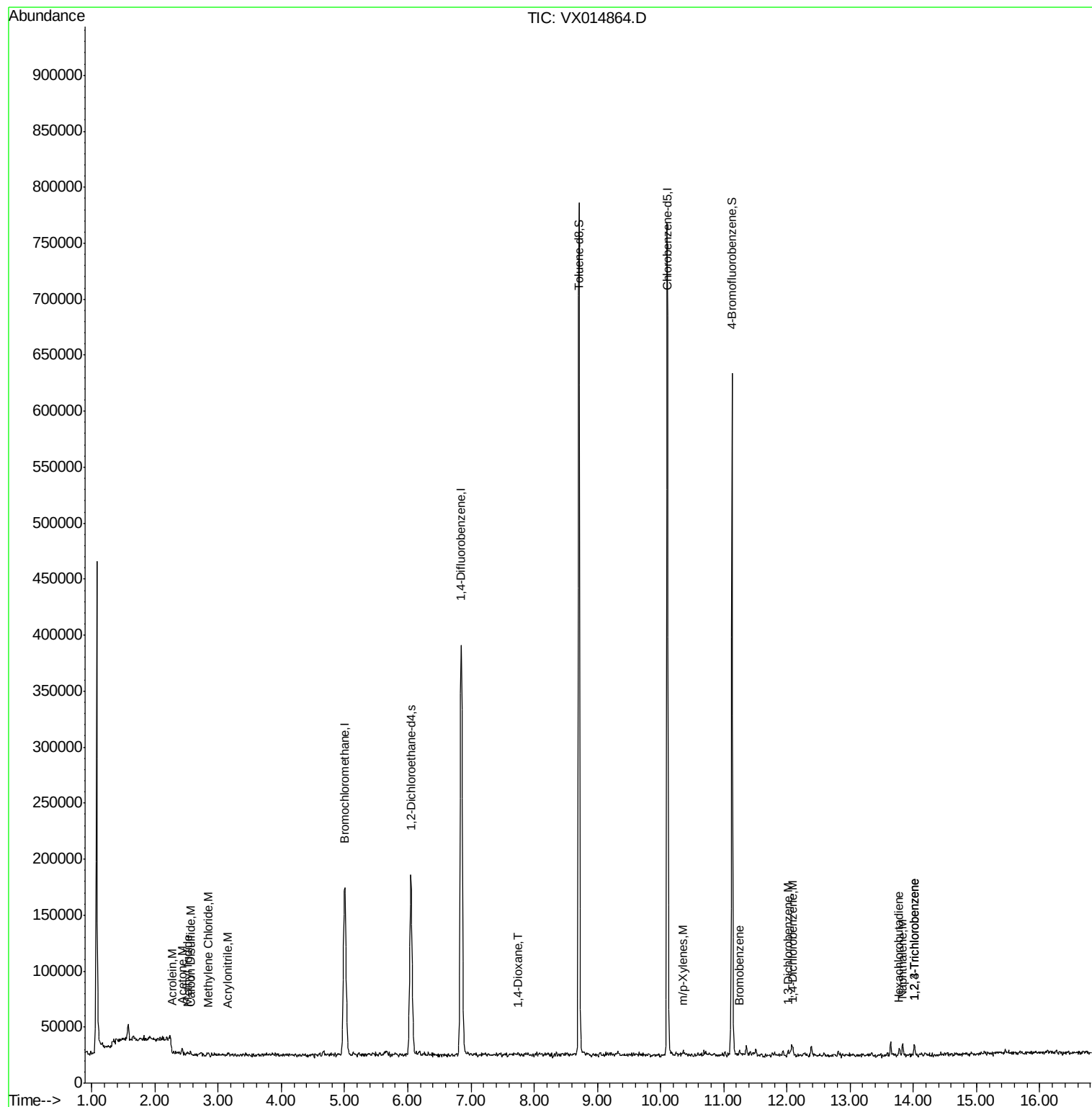
					Ovalue
11) Methyl Iodide	2.51	142	1794	0.346 ug/l #	67
13) Acrolein	2.28	56	236	0.321 ug/l	98
14) Acrylonitrile	3.14	53	666	0.278 ug/l	88
15) Acetone	2.43	58	1862	2.322 ug/l	97
16) Carbon Disulfide	2.56	76	2681	0.252 ug/l	98
18) Methylene Chloride	2.85	84	1008	0.223 ug/l #	78
45) 1,4-Dioxane	7.74	88	657	6.193 ug/l #	65
67) m/p-Xylenes	10.36	106	1525	0.202 ug/l	79
73) Bromobenzene	11.25	156	1217	0.238 ug/l	97
83) 1,3-Dichlorobenzene	12.02	146	2481	0.278 ug/l	83
84) 1,4-Dichlorobenzene	12.09	146	2741	0.309 ug/l	83
89) 1,2,4-Trichlorobenzene	14.01	180	2854	0.480 ug/l	94
90) Hexachlorobutadiene	13.78	225	1366	0.459 ug/l	93
91) Naphthalene	13.83	128	6799	0.379 ug/l #	87
92) 1,2,3-Trichlorobenzene	14.01	180	2854	0.471 ug/l	97

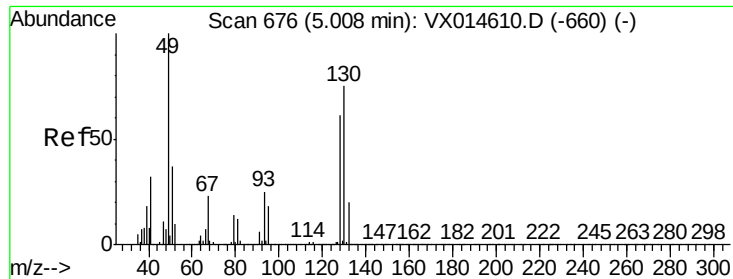
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 4 Sample Multiplier: 1

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MSVOA_X
ClientSampleId :

Quant Time: Feb 07 22:09:44 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jan 15 12:41:12 2020
Response via : Initial Calibration



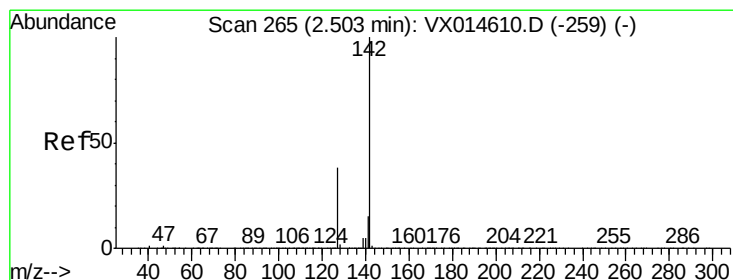
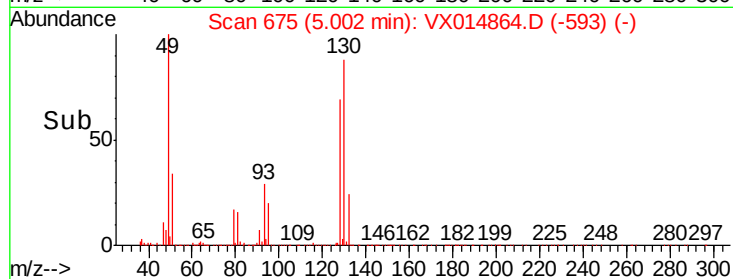
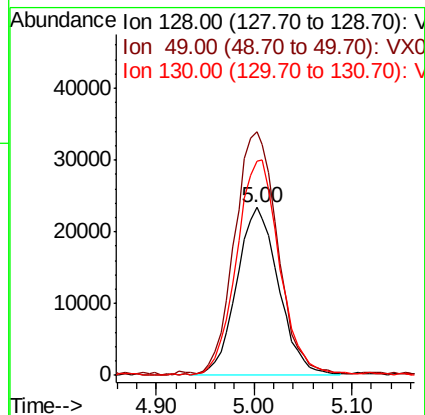
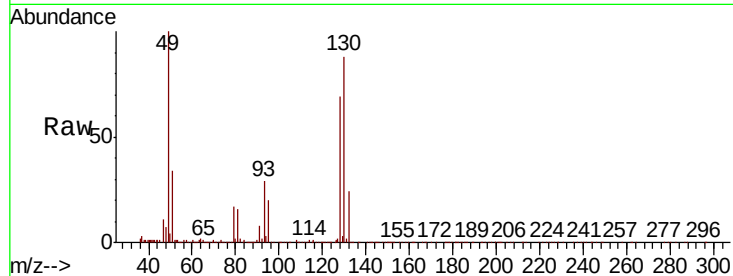


#1

Bromochloromethane
 Concen: 30.000 ug/l
 RT: 5.00 min Scan# 675
 Delta R.T. 0.00 min
 Lab File: VX014864.D
 Acq: 07 Feb 2020 11:57

Instrument :
 MSVOA_X
 ClientSampleId :

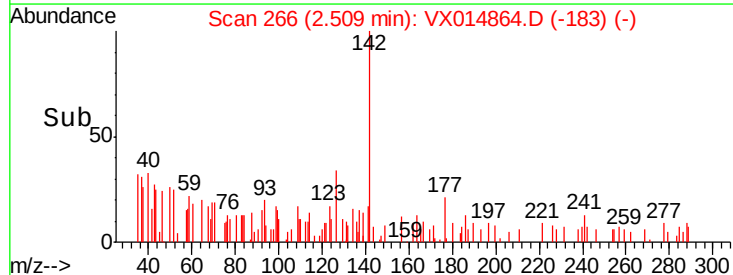
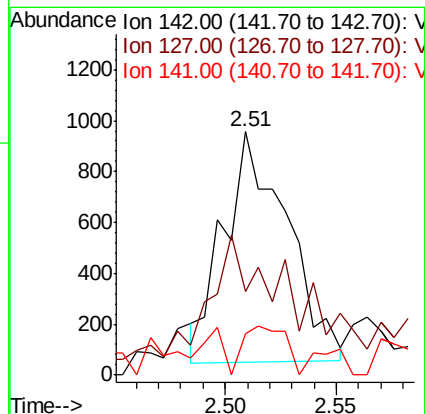
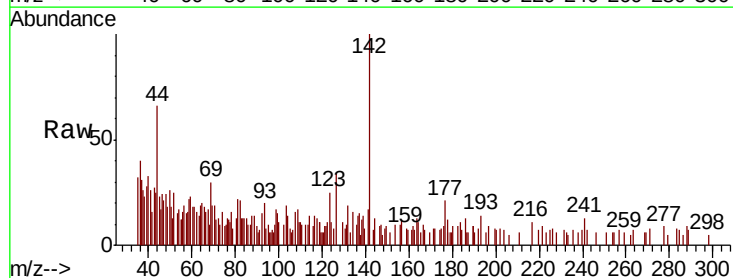
Tot Ion	Ratio	Lower	Upper
128	100		
49	146.4	0.0	405.0
130	130.4	0.0	321.5

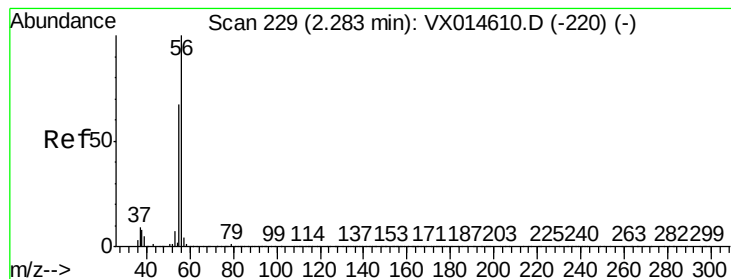


#11

Methyl Iodide
 Concen: 0.346 ug/l
 RT: 2.51 min Scan# 266
 Delta R.T. 0.01 min
 Lab File: VX014864.D
 Acq: 07 Feb 2020 11:57

Tgt Ion	Ratio	Lower	Upper
142	100		
127	19.3	19.5	58.5#
141	0.0	7.0	20.9#





#13

Acrolein

Concen: 0.321 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX014864.D

Acq: 07 Feb 2020 11:57

Instrument :

MSVOA_X

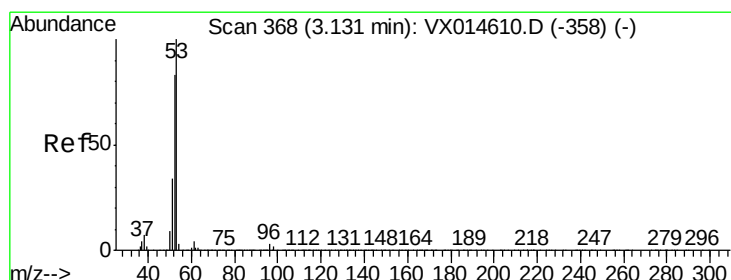
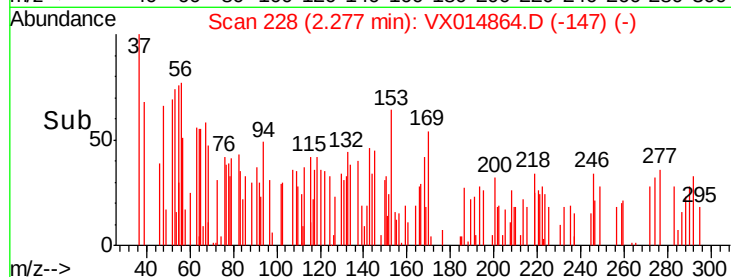
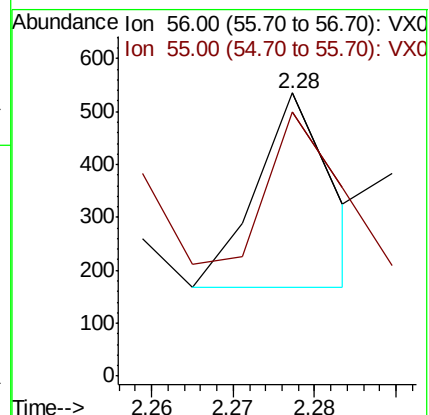
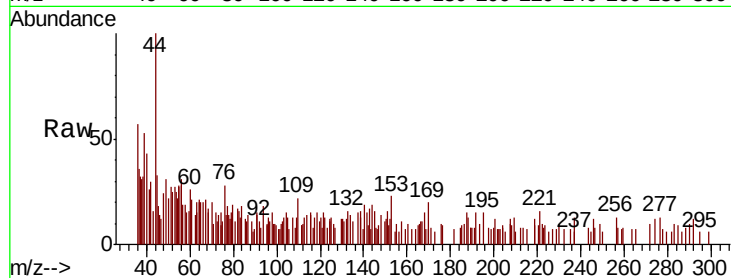
ClientSampled :

Tot Ion: 56 Resp: 236

Ion Ratio Lower Upper

56 100

55 70.3 54.9 82.3



#14

Acrylonitrile

Concen: 0.278 ug/l

RT: 3.14 min Scan# 370

Delta R.T. 0.01 min

Lab File: VX014864.D

Acq: 07 Feb 2020 11:57

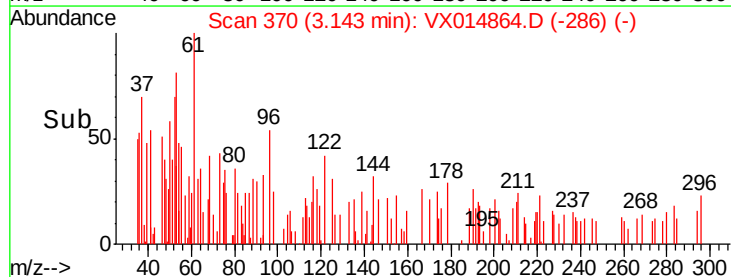
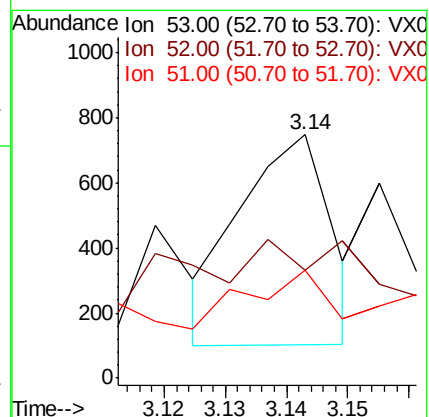
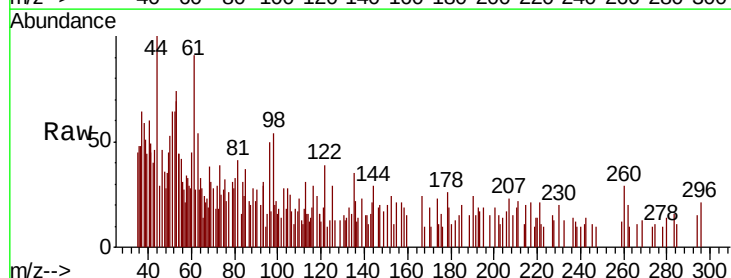
Tgt Ion: 53 Resp: 666

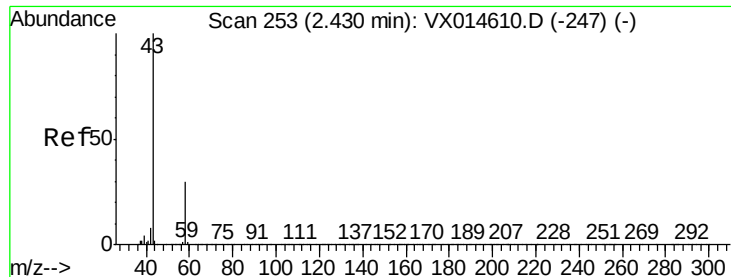
Ion Ratio Lower Upper

53 100

52 75.7 41.5 124.6

51 23.7 17.8 53.5

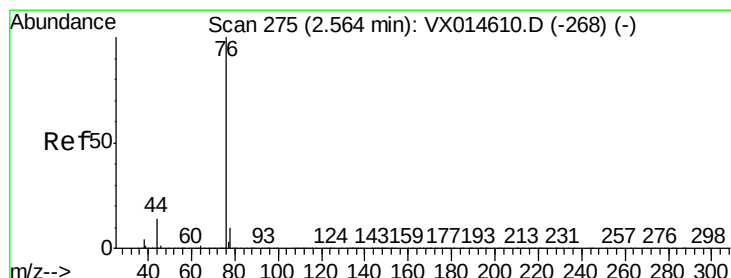
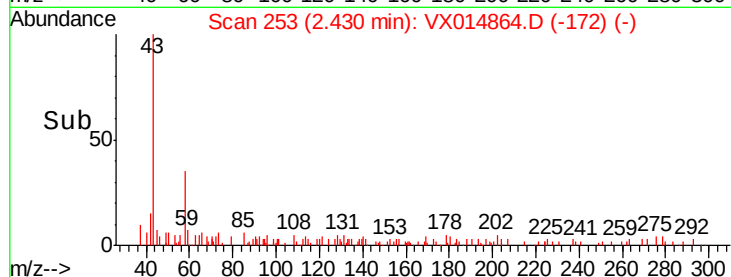
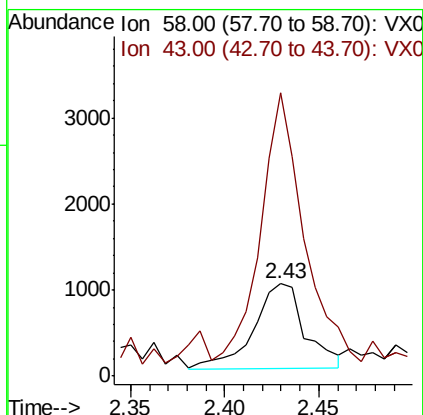
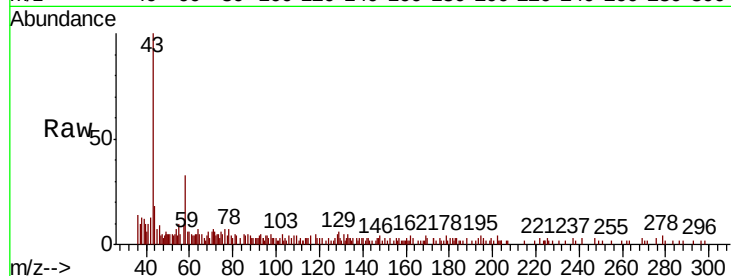




#15
Acetone
Concen: 2.322 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.01 min
Lab File: VX014864.D
Acq: 07 Feb 2020 11:57

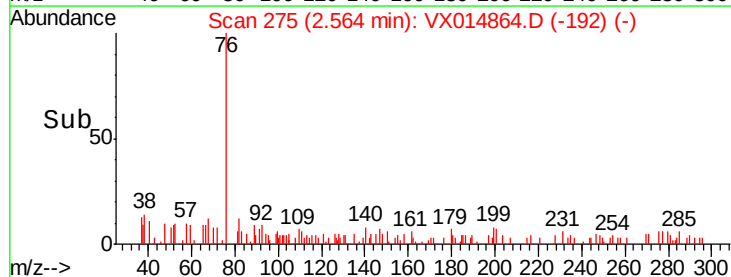
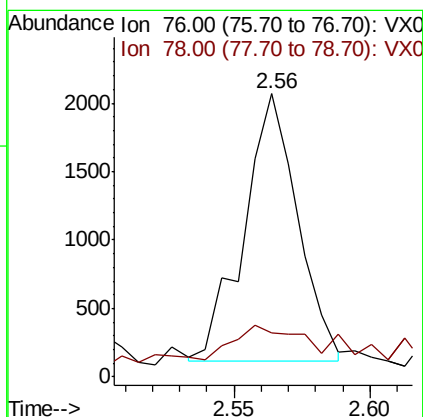
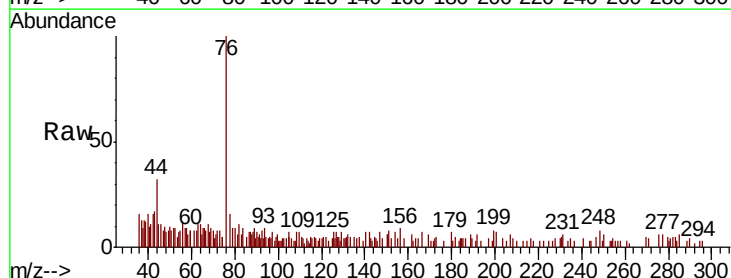
Instrument :
MSVOA_X
ClientSampleId :

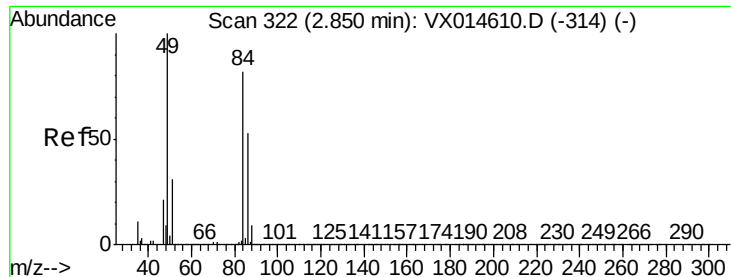
Tot Ion: 58 Resp: 1862
Ion Ratio Lower Upper
58 100
43 301.2 236.3 354.5



#16
Carbon Disulfide
Concen: 0.252 ug/l
RT: 2.56 min Scan# 275
Delta R.T. 0.01 min
Lab File: VX014864.D
Acq: 07 Feb 2020 11:57

Tgt Ion: 76 Resp: 2681
Ion Ratio Lower Upper
76 100
78 9.0 7.8 11.8

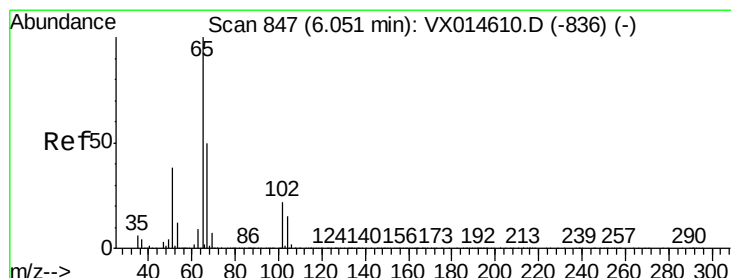
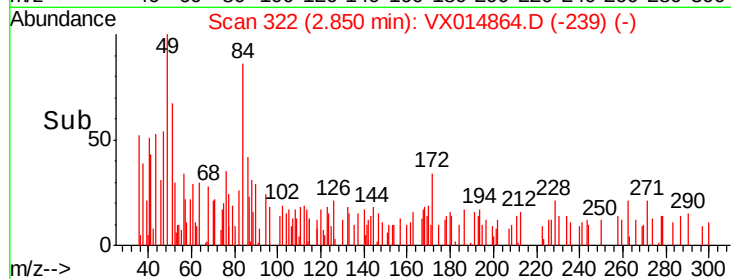
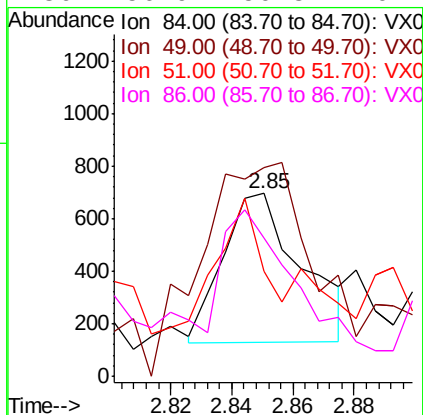
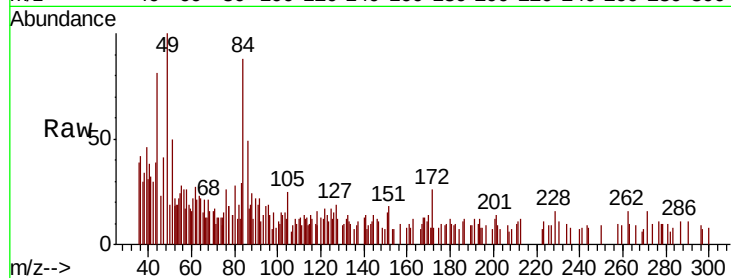




#18
Methylene Chloride
Concen: 0.223 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX014864.D
Acq: 07 Feb 2020 11:57

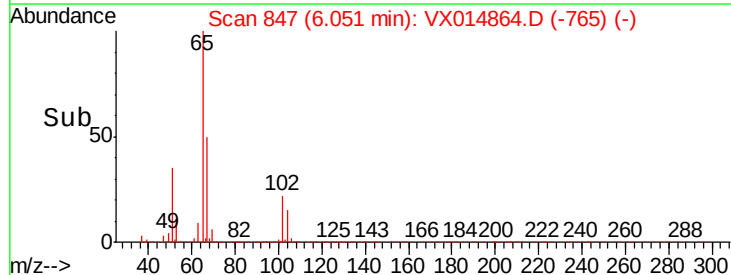
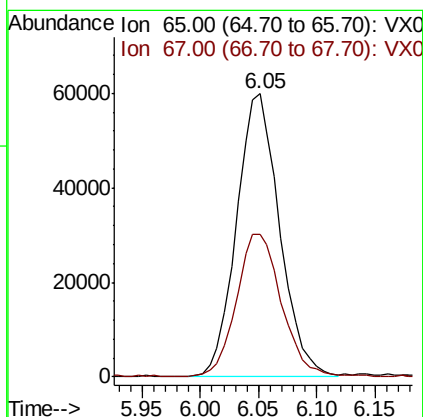
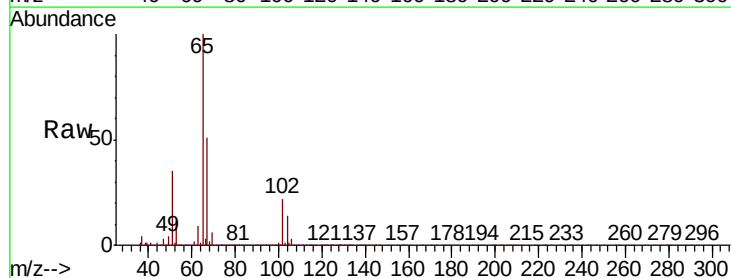
Instrument :
MSVOA_X
ClientSampled :

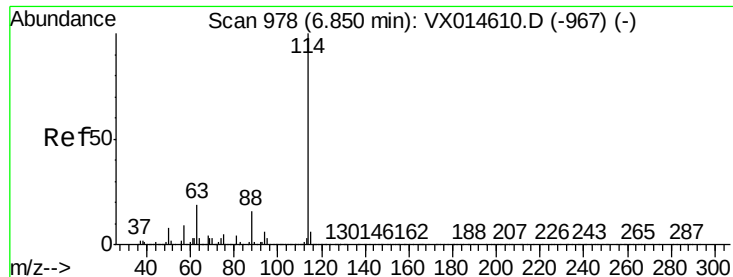
Tot Ion:	84	Resp:	1008
Ion	Ratio	Lower	Upper
84	100		
49	89.4	102.2	153.2#
51	34.5	31.4	47.0
86	56.9	50.8	76.2



#27
1,2-Dichloroethane-d4
Concen: 31.187 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX014864.D
Acq: 07 Feb 2020 11:57

Tgt Ion:	65	Resp:	153250
Ion	Ratio	Lower	Upper
65	100		
67	52.4	43.1	64.7

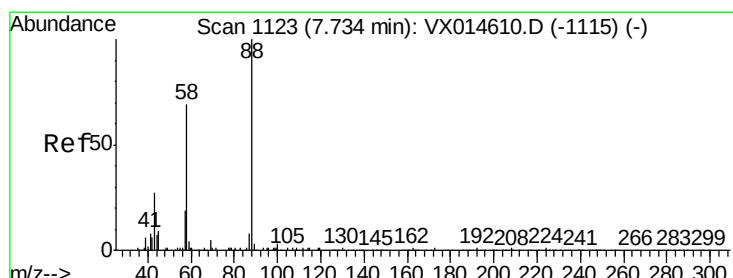
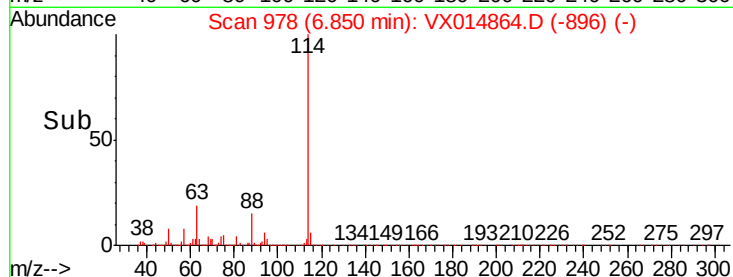
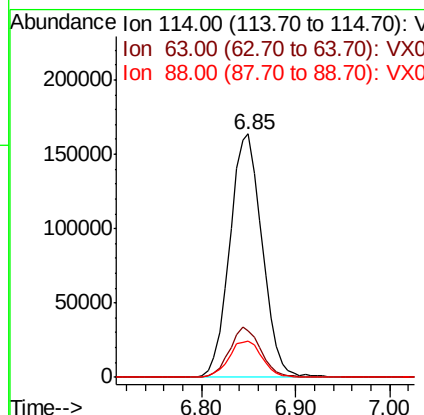
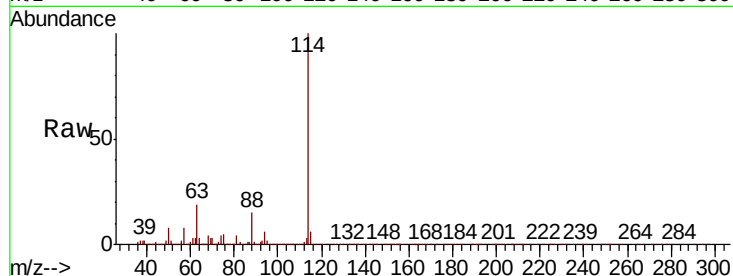




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX014864.D
 Acq: 07 Feb 2020 11:57

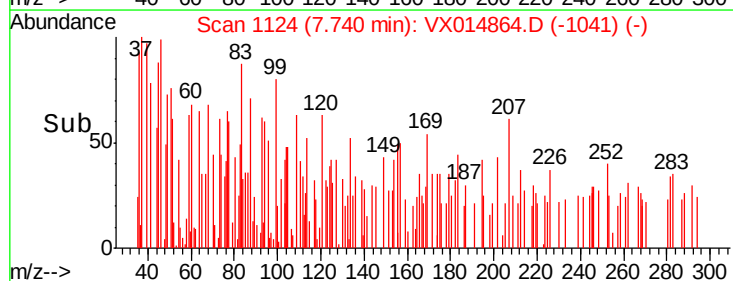
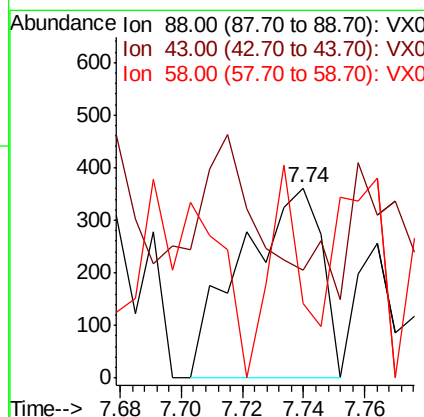
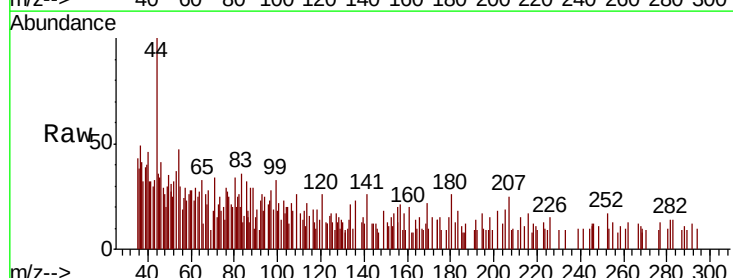
Instrument :
 MSVOA_X
 ClientSampleId :

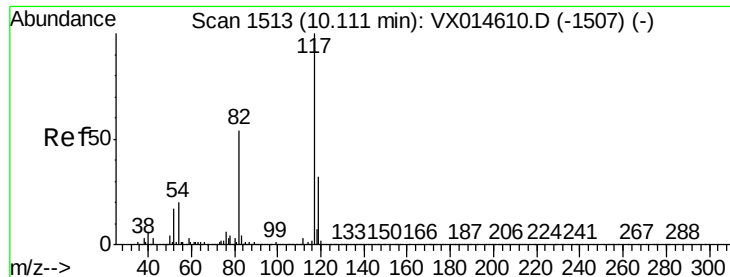
Tot Ion	Ratio	Lower	Upper
114	100		
63	19.3	16.1	24.1
88	15.3	12.5	18.7



#45
 1,4-Dioxane
 Concen: 6.193 ug/l
 RT: 7.74 min Scan# 1124
 Delta R.T. 0.01 min
 Lab File: VX014864.D
 Acq: 07 Feb 2020 11:57

Tgt Ion	Ratio	Lower	Upper
88	100		
43	6.2	25.4	38.2#
58	45.8	56.5	84.7#

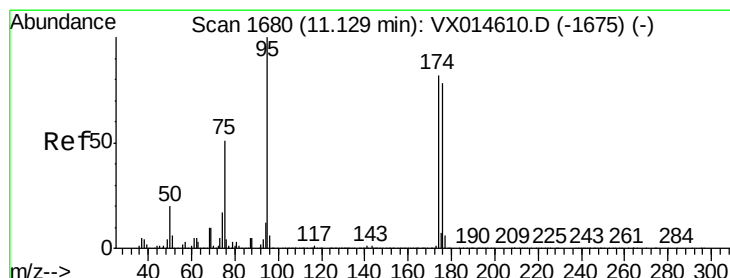
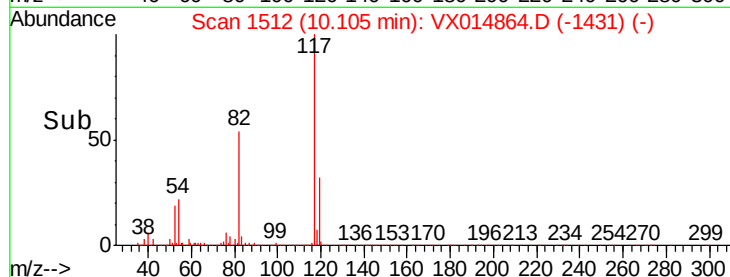
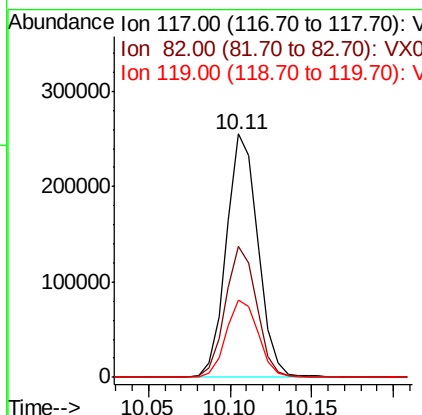
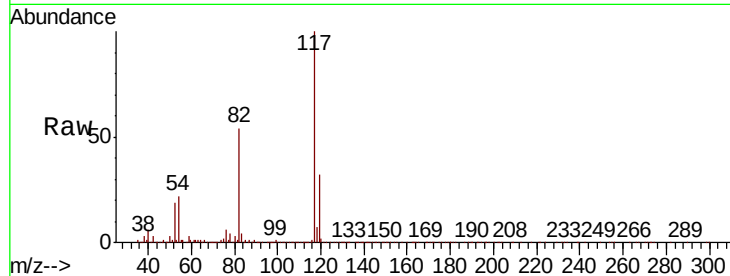




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX014864.D
Acq: 07 Feb 2020 11:57

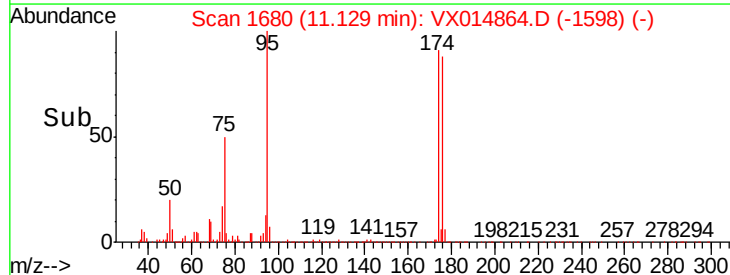
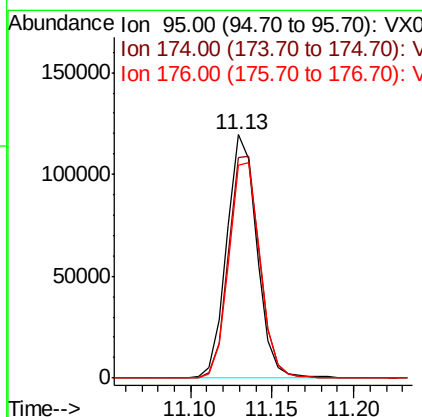
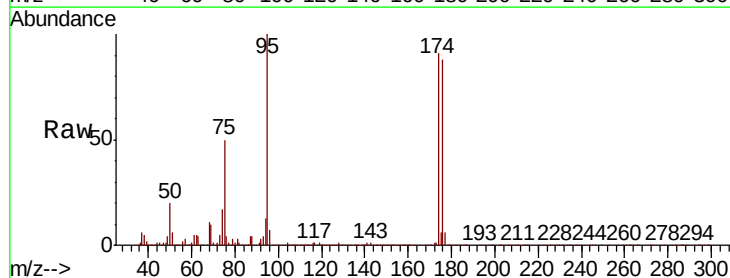
Instrument :
MSVOA_X
ClientSampleId :

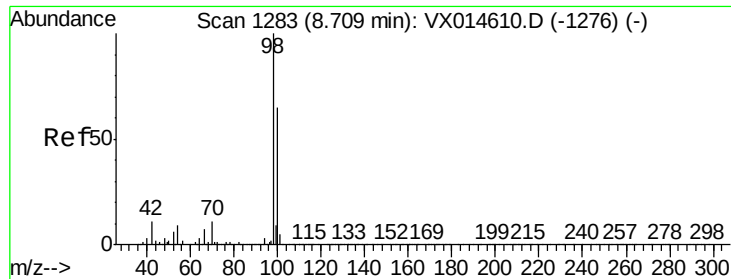
Tot Ion	Ratio	Lower	Upper
117	100		
82	53.7	43.8	65.6
119	32.4	25.8	38.6



#60
4-Bromofluorobenzene
Concen: 27.892 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX014864.D
Acq: 07 Feb 2020 11:57

Tgt Ion	Ratio	Lower	Upper
95	100		
174	95.0	70.2	105.2
176	92.1	68.3	102.5

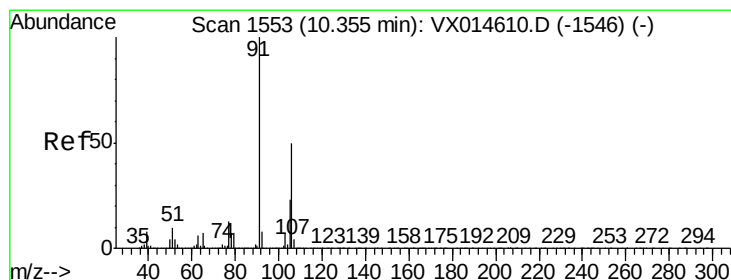
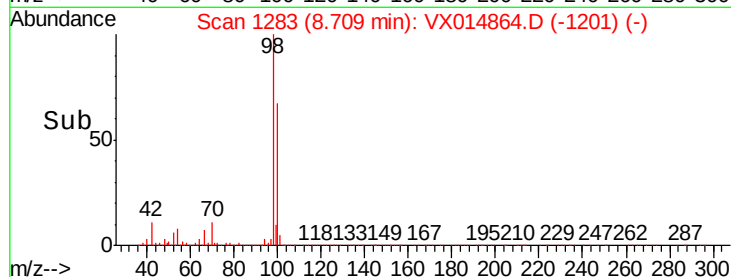
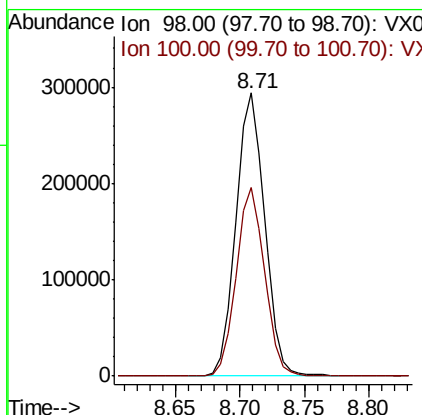
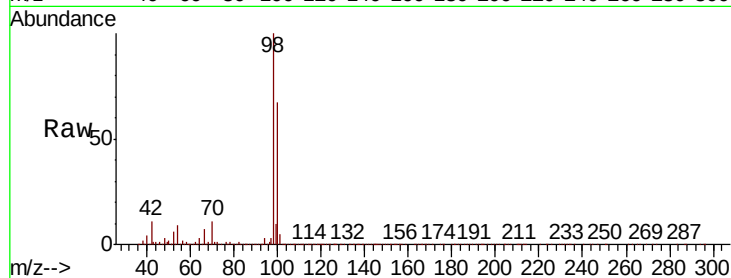




#63
Toluene-d8
Concen: 29.461 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX014864.D
Acq: 07 Feb 2020 11:57

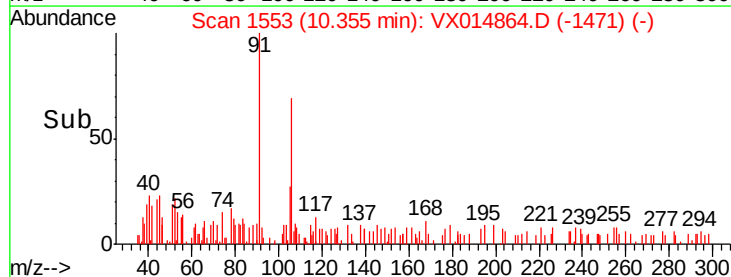
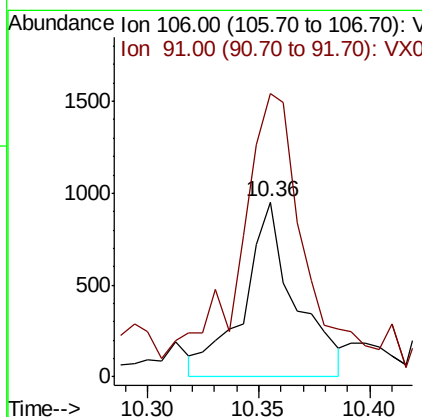
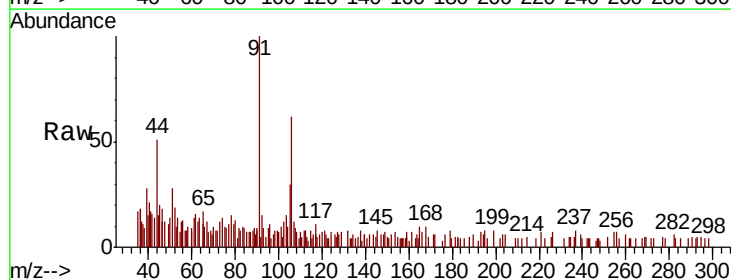
Instrument :
MSVOA_X
ClientSampleId :

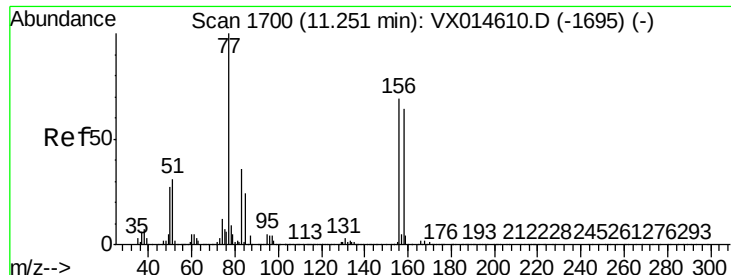
Tot Ion: 98 Resp: 454880
Ion Ratio Lower Upper
98 100
100 65.6 52.2 78.2



#67
m/p-Xylenes
Concen: 0.202 ug/l
RT: 10.36 min Scan# 1553
Delta R.T. 0.00 min
Lab File: VX014864.D
Acq: 07 Feb 2020 11:57

Tgt Ion: 106 Resp: 1525
Ion Ratio Lower Upper
106 100
91 167.3 159.3 238.9





#73

Bromobenzene

Concen: 0.238 ug/l

RT: 11.25 min Scan# 1699

Delta R.T. -0.01 min

Lab File: VX014864.D

Acq: 07 Feb 2020 11:57

Instrument :

MSVOA_X

ClientSampleId :

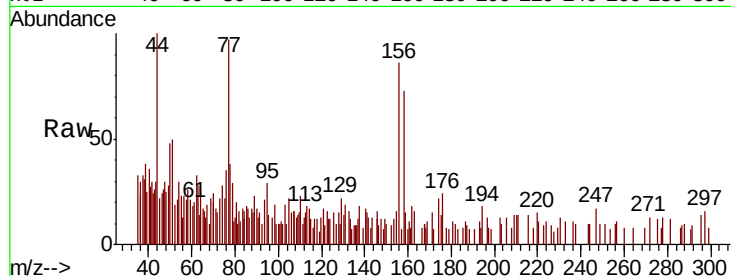
Tot Ion:156 Resp: 1217

Ion Ratio Lower Upper

156 100

77 150.0 0.0 304.6

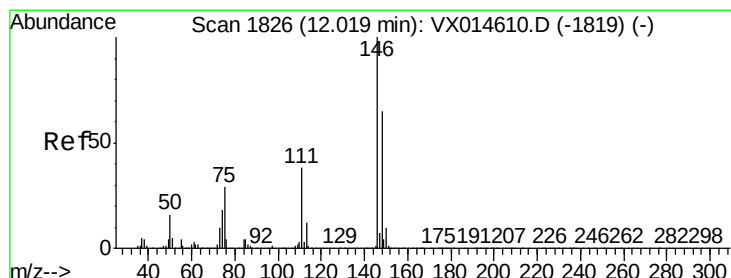
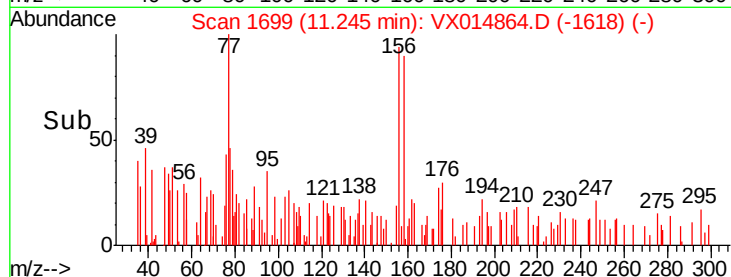
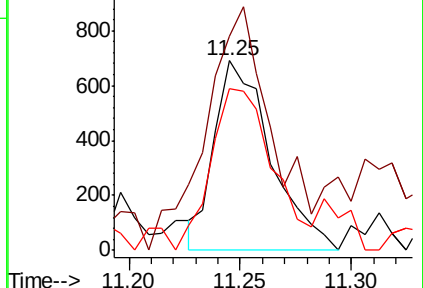
158 93.3 0.0 195.2



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VX0

Ion 158.00 (157.70 to 158.70): V



#83

1,3-Dichlorobenzene

Concen: 0.278 ug/l

RT: 12.02 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VX014864.D

Acq: 07 Feb 2020 11:57

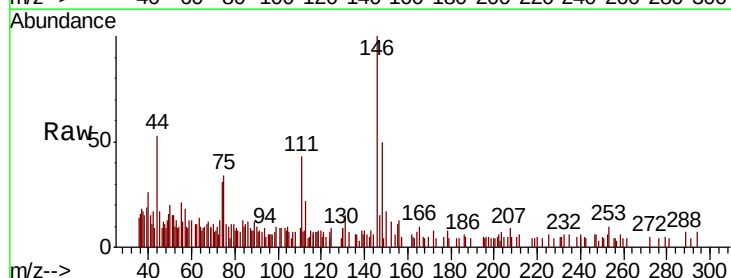
Tgt Ion:146 Resp: 2481

Ion Ratio Lower Upper

146 100

111 25.0 19.3 57.9

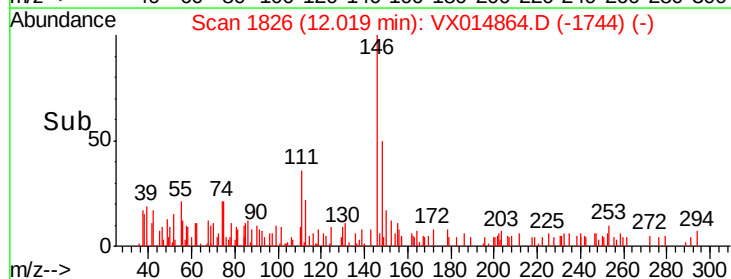
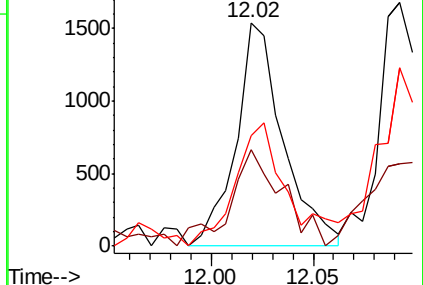
148 53.0 32.2 96.6

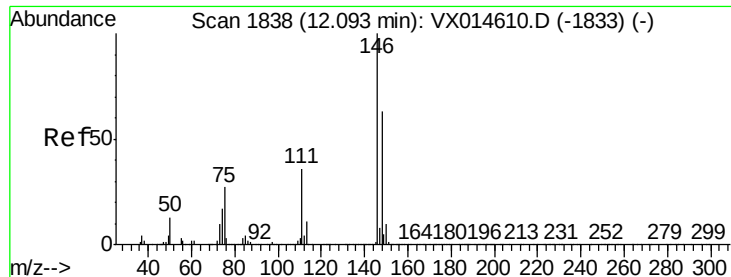


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

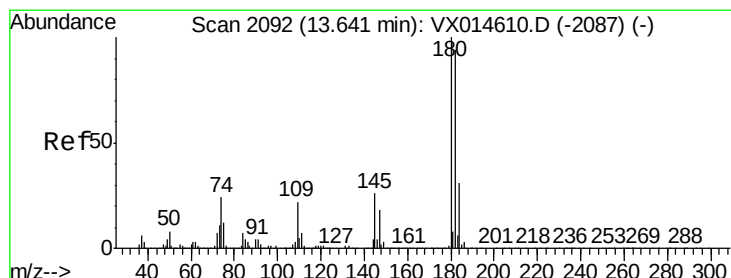
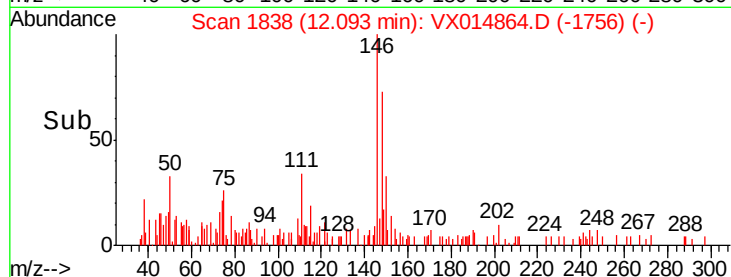
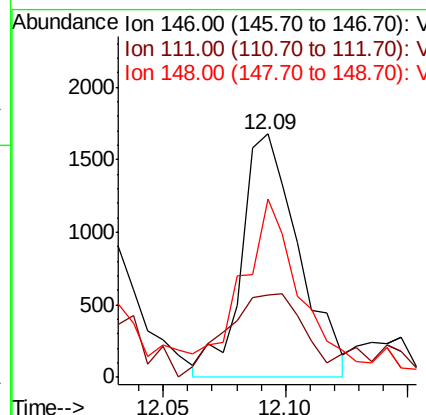
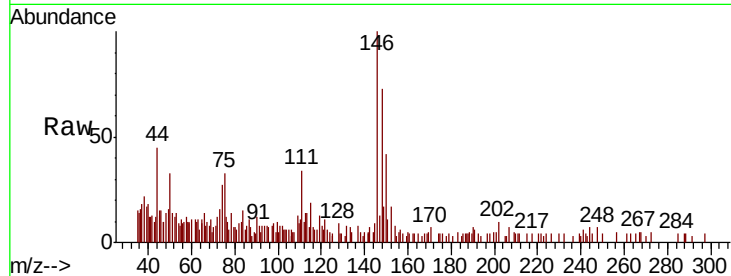




#84
 1,4-Dichlorobenzene
 Concen: 0.309 ug/l
 RT: 12.09 min Scan# 1838
 Delta R.T. 0.00 min
 Lab File: VX014864.D
 Acq: 07 Feb 2020 11:57

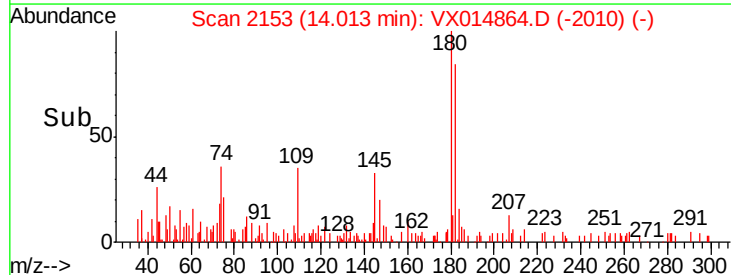
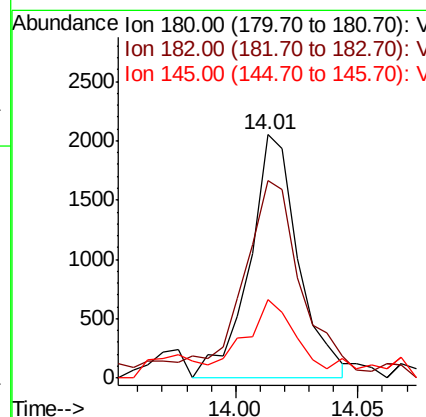
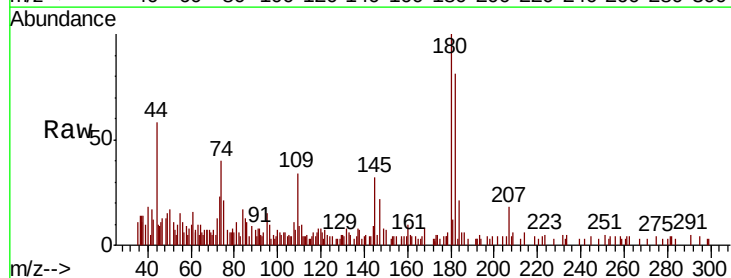
Instrument :
 MSVOA_X
 ClientSampleId :

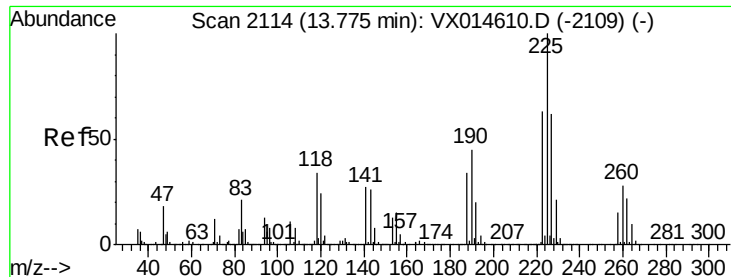
Tot Ion:146 Resp: 2741
 Ion Ratio Lower Upper
 146 100
 111 46.6 18.4 55.4
 148 77.0 32.0 96.0



#89
 1,2,4-Trichlorobenzene
 Concen: 0.480 ug/l
 RT: 14.01 min Scan# 2153
 Delta R.T. 0.37 min
 Lab File: VX014864.D
 Acq: 07 Feb 2020 11:57

Tgt Ion:180 Resp: 2854
 Ion Ratio Lower Upper
 180 100
 182 88.6 76.4 114.6
 145 28.2 21.9 32.9





#90

Hexachlorobutadiene

Concen: 0.459 ug/l

RT: 13.78 min Scan# 2115

Delta R.T. 0.01 min

Lab File: VX014864.D

Acq: 07 Feb 2020 11:57

Instrument :

MSVOA_X

ClientSampled :

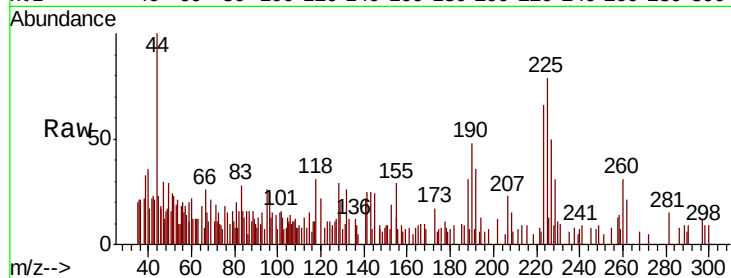
Tot Ion:225 Resp: 1366

Ion Ratio Lower Upper

225 100

223 67.3 0.0 127.4

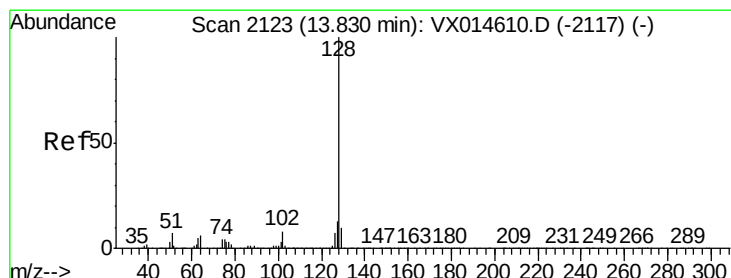
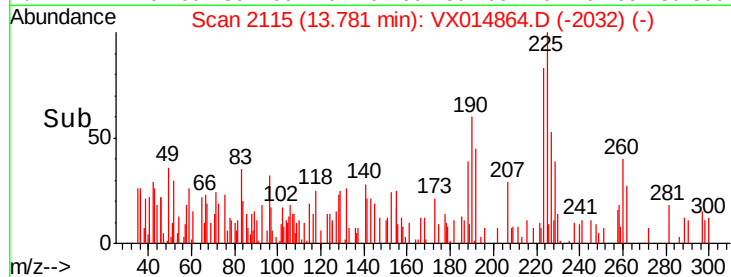
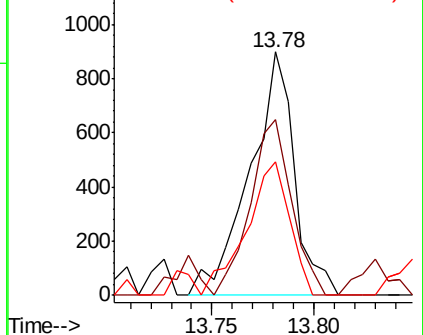
227 53.4 0.0 122.8



Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V



#91

Naphthalene

Concen: 0.379 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX014864.D

Acq: 07 Feb 2020 11:57

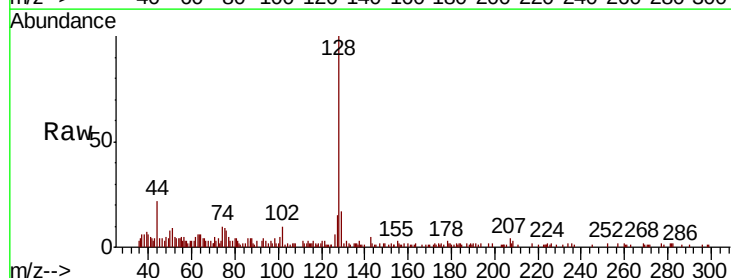
Tgt Ion:128 Resp: 6799

Ion Ratio Lower Upper

128 100

127 18.3 10.4 15.6#

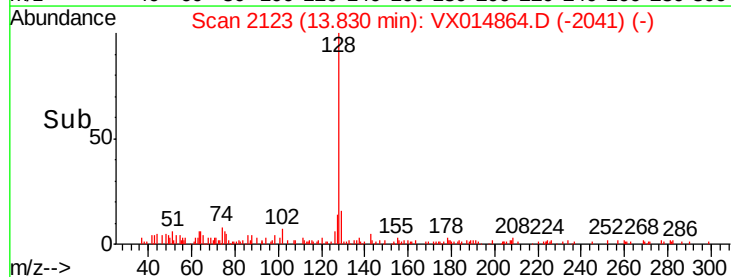
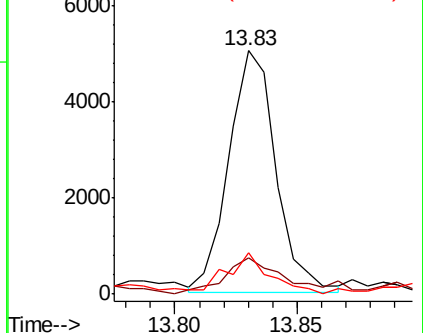
129 15.9 8.9 13.3#

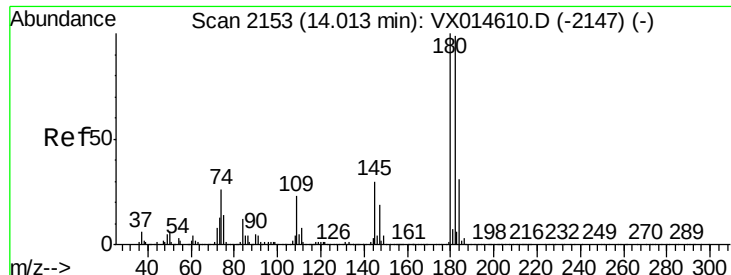


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#92
 1,2,3-Trichlorobenzene
 Concen: 0.471 ug/l
 RT: 14.01 min Scan# 2153
 Delta R.T. 0.00 min
 Lab File: VX014864.D
 Acq: 07 Feb 2020 11:57

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	98.3	0.0	192.8
145	33.8	0.0	60.0

