

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX033020\
 Data File : VX015428.D
 Acq On : 30 Mar 2020 15:19
 Operator : JC/SP
 Sample : L2021-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 31 07:54:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 09:35:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	1153787	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.84	114	1879524	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1781058	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	933794	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	766911	47.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.26%	
35) Dibromofluoromethane	5.47	113	596632	49.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.32%	
50) Toluene-d8	8.70	98	2286920	51.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.40%	
62) 4-Bromofluorobenzene	11.12	95	967987	53.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.70%	

Target Compounds

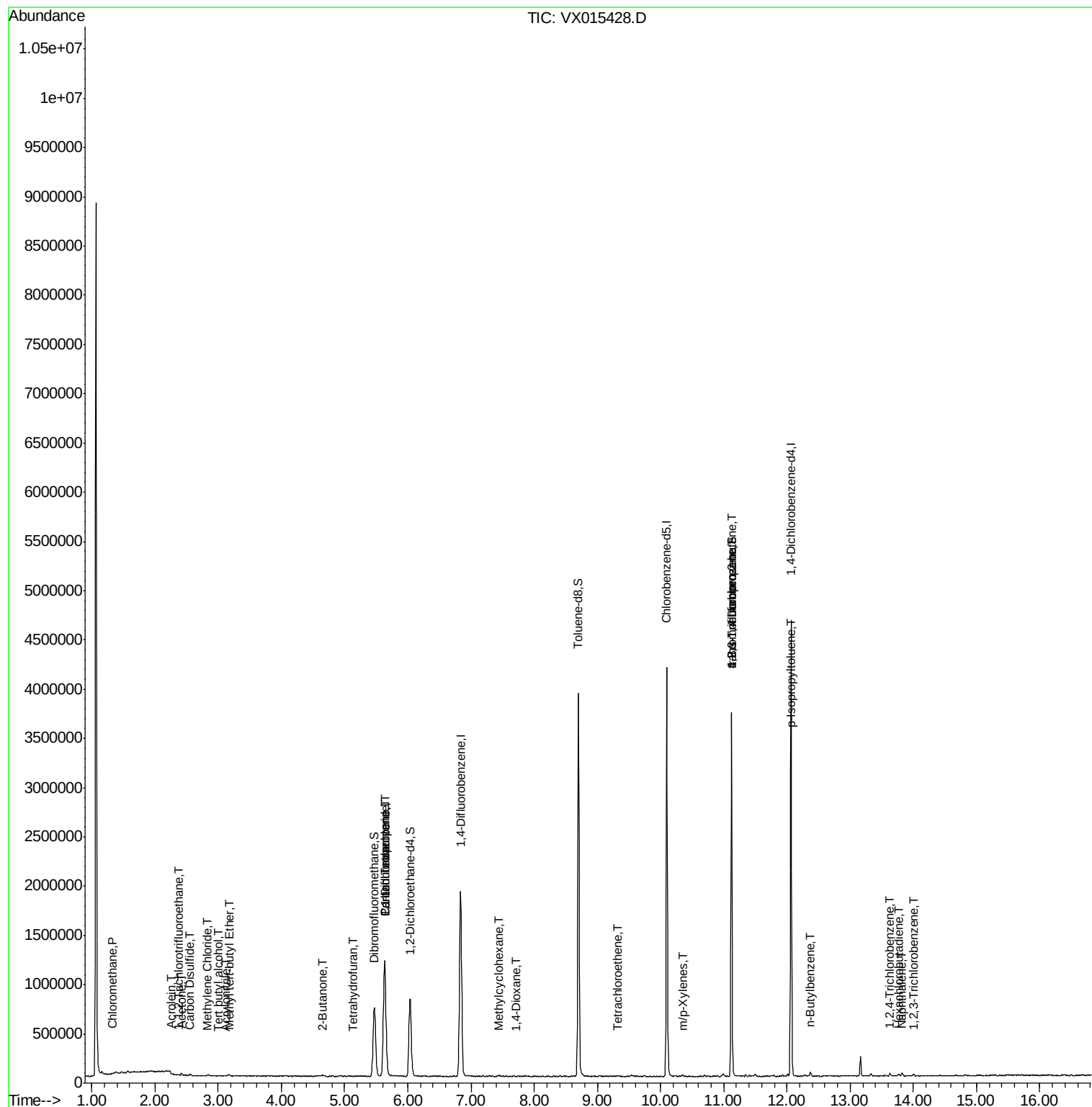
					Qvalue	
3) Chloromethane	1.31	50	3288	0.254	ug/l	90
5) Bromomethane	1.64	94	1438	Below Cal	#	72
9) 1,1,2-Trichlorotrifluoroet	2.36	101	2286	0.220	ug/l #	77
11) Tert butyl alcohol	3.01	59	2514	0.645	ug/l	95
13) Acrolein	2.26	56	508	0.229	ug/l #	14
15) Acrylonitrile	3.12	53	2100	0.283	ug/l #	62
16) Acetone	2.42	43	21934	3.137	ug/l	98
17) Carbon Disulfide	2.55	76	17610	0.530	ug/l #	90
19) Methyl tert-butyl Ether	3.17	73	19864	0.470	ug/l #	85
20) Methylene Chloride	2.83	84	4982	0.382	ug/l #	63
25) 2-Butanone	4.66	43	8543	0.760	ug/l #	62
29) Tetrahydrofuran	5.14	42	2813	0.389	ug/l #	47
36) 1,1-Dichloropropene	5.64	75	92750	5.356	ug/l #	52
38) Carbon Tetrachloride	5.64	117	114202	6.089	ug/l #	15
39) Methylcyclohexane	7.44	83	4854	0.243	ug/l #	78
49) 1,4-Dioxane	7.71	88	740	2.086	ug/l #	53
64) Tetrachloroethene	9.32	164	2955	0.220	ug/l	86
68) m/p-Xylenes	10.34	106	5618	0.239	ug/l	86
76) 1,2,3-Trichloropropane	11.12	75	496641	25.863	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	496641	62.057	ug/l #	10
86) p-Isopropyltoluene	12.05	119	19767	0.361	ug/l #	79
89) n-Butylbenzene	12.37	91	15240	0.308	ug/l	100
93) 1,2,4-Trichlorobenzene	13.63	180	8083	0.357	ug/l	93
94) Hexachlorobutadiene	13.77	225	4438	0.412	ug/l	94
95) Naphthalene	13.82	128	20938	0.304	ug/l #	95
96) 1,2,3-Trichlorobenzene	14.00	180	5217	0.240	ug/l #	90

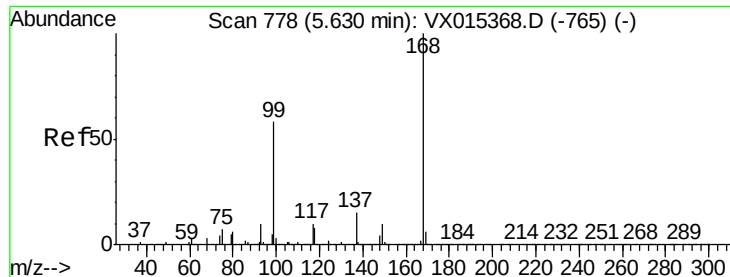
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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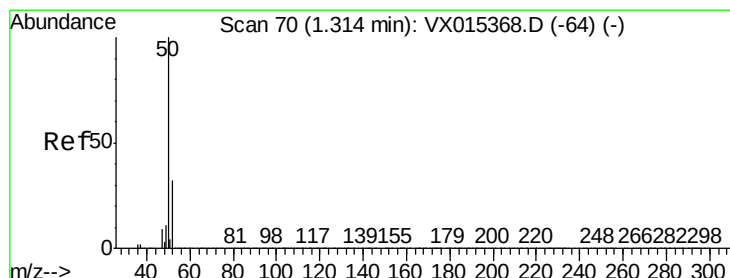
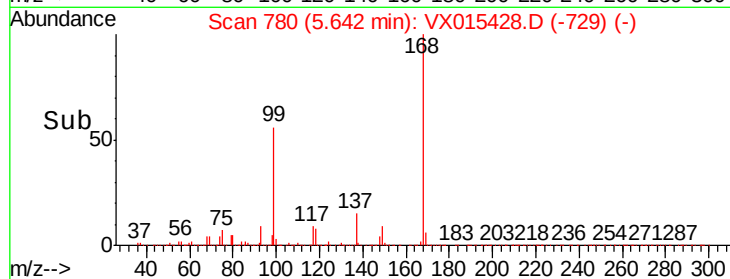
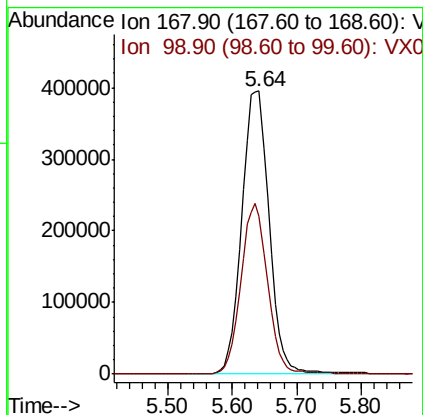
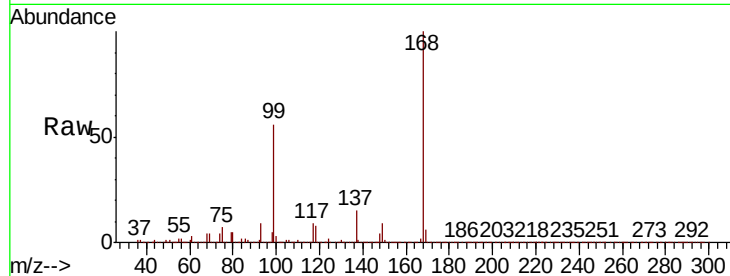


#1

Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.64 min Scan# 780
 Delta R.T. 0.01 min
 Lab File: VX015428.D
 Acq: 30 Mar 2020 15:19

Instrument :
 MSVOA_X
 ClientSampleId :

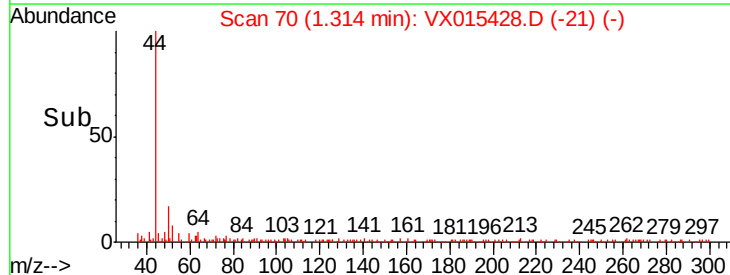
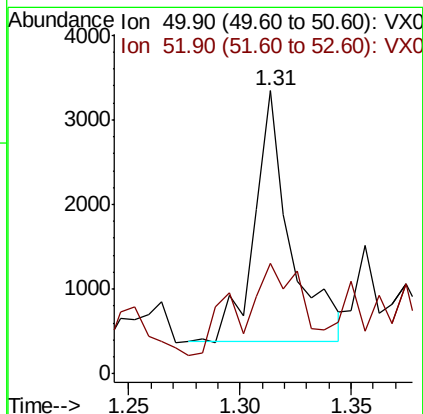
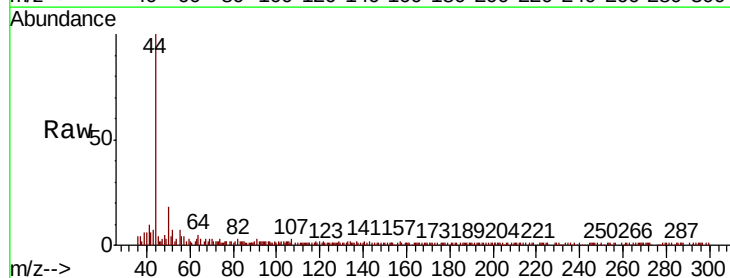
Tot Ion:168 Resp: 1153787
 Ion Ratio Lower Upper
 168 100
 99 55.6 46.4 69.6

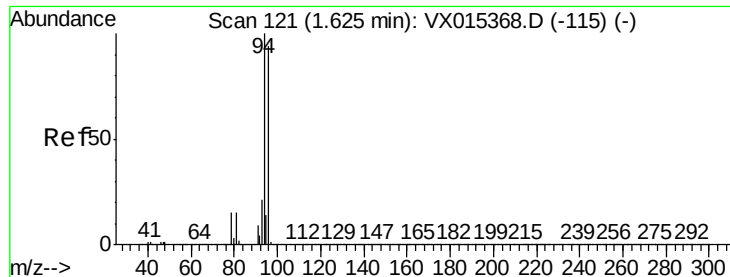


#3

Chloromethane
 Concen: 0.254 ug/l
 RT: 1.31 min Scan# 70
 Delta R.T. -0.00 min
 Lab File: VX015428.D
 Acq: 30 Mar 2020 15:19

Tgt Ion: 50 Resp: 3288
 Ion Ratio Lower Upper
 50 100
 52 36.9 25.3 37.9





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX015428.D

Acq: 30 Mar 2020 15:19

Instrument :

MSVOA_X

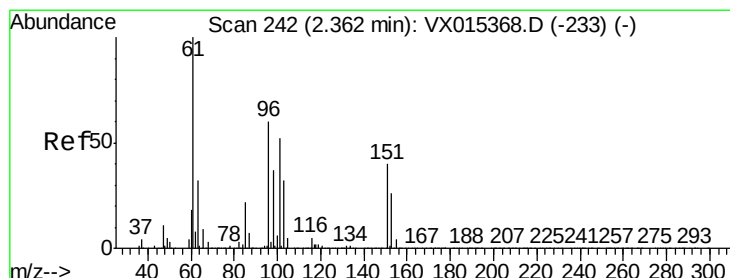
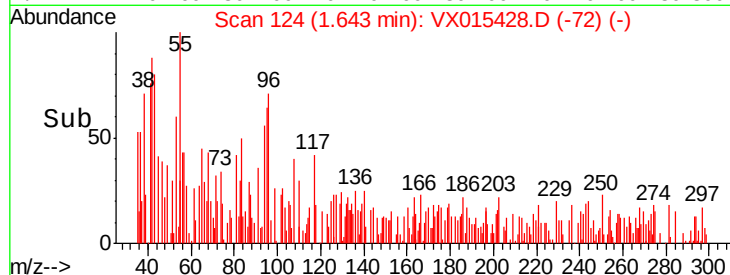
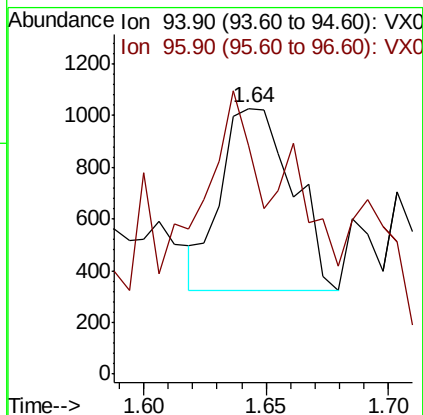
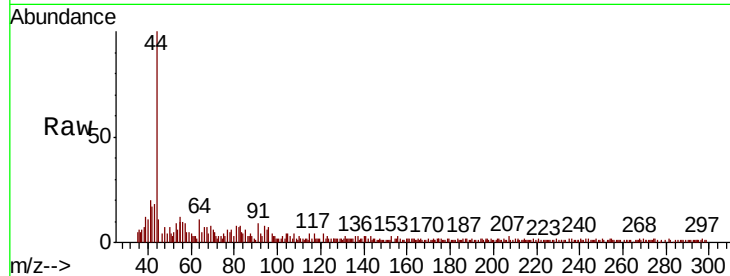
ClientSampled :

Tot Ion: 94 Resp: 1438

Ion Ratio Lower Upper

94 100

96 66.4 74.8 112.2#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.220 ug/l

RT: 2.36 min Scan# 242

Delta R.T. -0.00 min

Lab File: VX015428.D

Acq: 30 Mar 2020 15:19

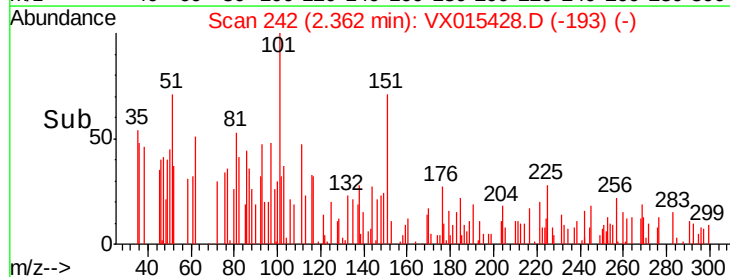
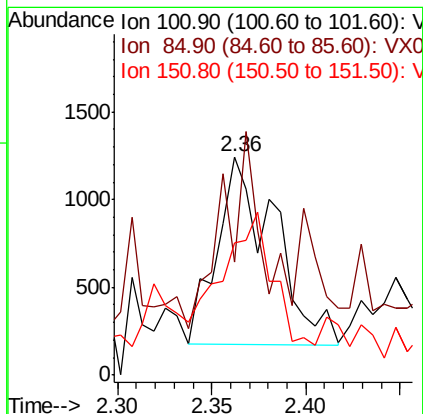
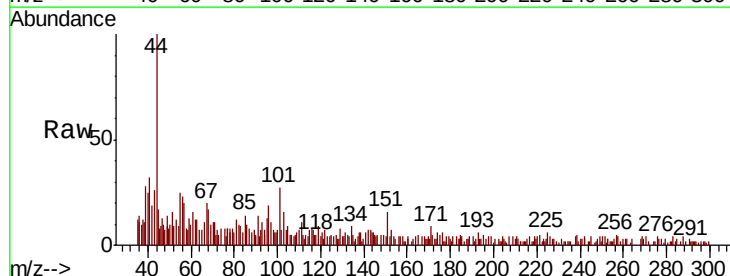
Tgt Ion:101 Resp: 2286

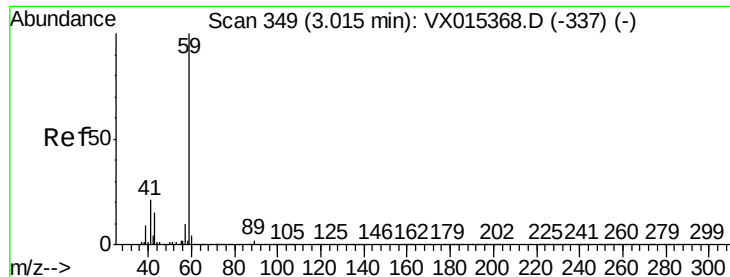
Ion Ratio Lower Upper

101 100

85 59.6 35.0 52.4#

151 60.9 64.1 96.1#



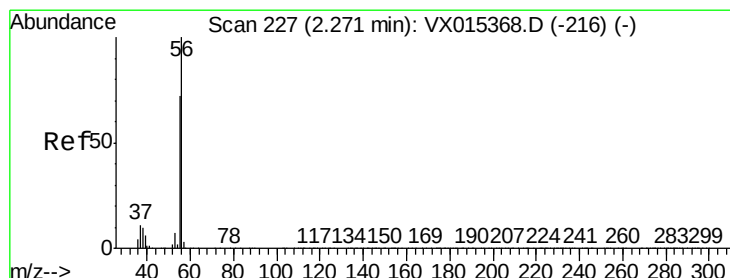
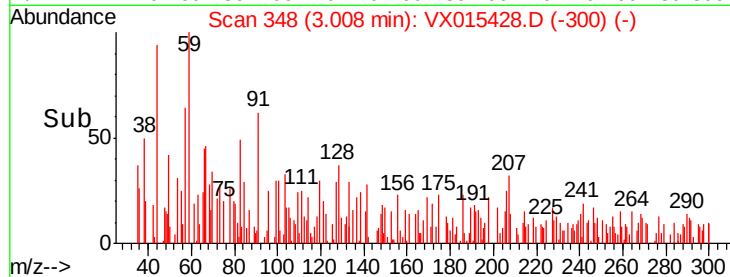
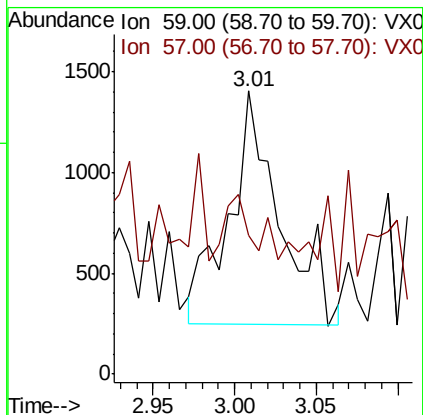
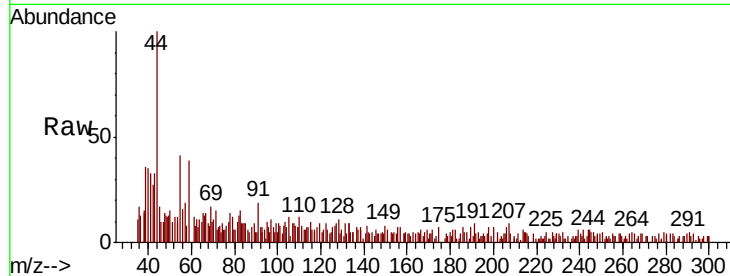


#11

Tert butyl alcohol
Concen: 0.645 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.01 min
Lab File: VX015428.D
Acq: 30 Mar 2020 15:19

Instrument :
MSVOA_X
ClientSampled :

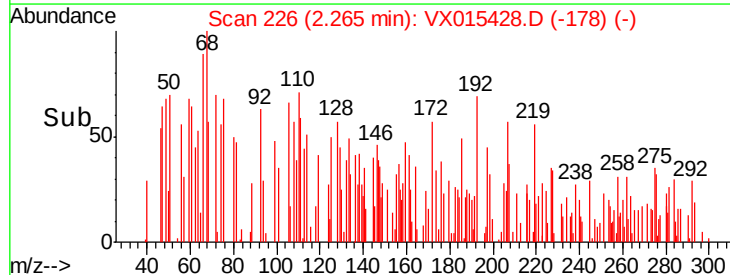
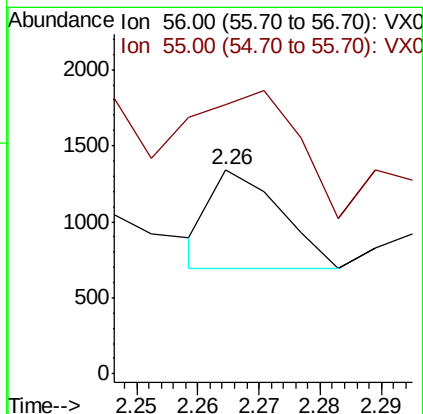
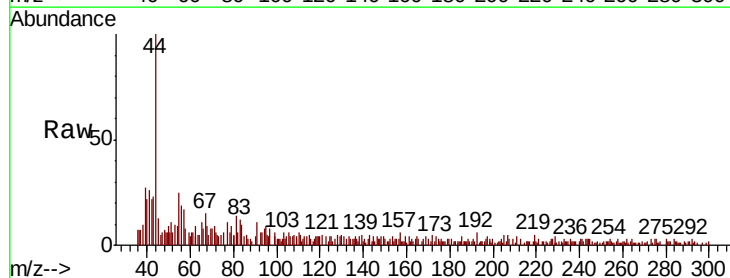
Tot Ion: 59 Resp: 2514
Ion Ratio Lower Upper
59 100
57 8.4 8.1 12.1

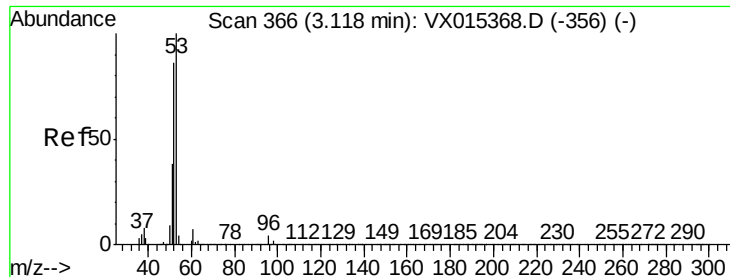


#13

Acrolein
Concen: 0.229 ug/l
RT: 2.26 min Scan# 226
Delta R.T. -0.01 min
Lab File: VX015428.D
Acq: 30 Mar 2020 15:19

Tgt Ion: 56 Resp: 508
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.4#





#15

Acrylonitrile

Concen: 0.283 ug/l

RT: 3.12 min Scan# 366

Delta R.T. -0.00 min

Lab File: VX015428.D

Acq: 30 Mar 2020 15:19

Instrument :

MSVOA_X

ClientSampleId :

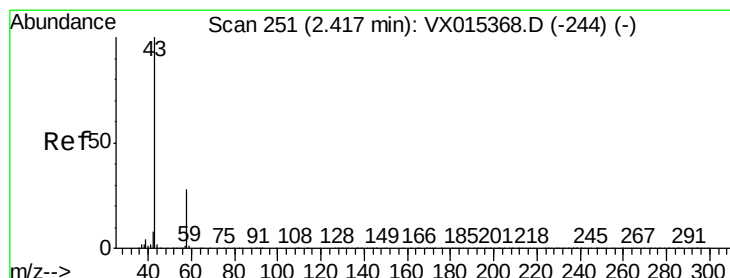
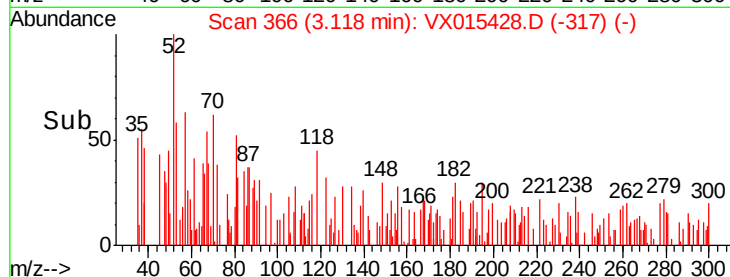
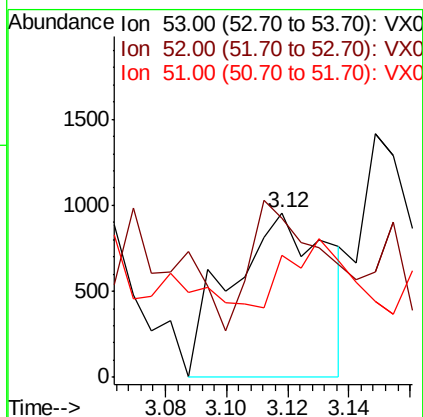
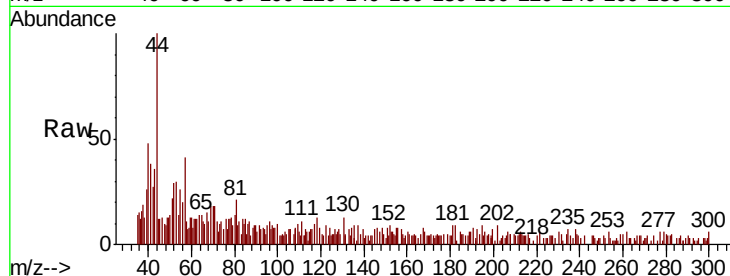
Tot Ion: 53 Resp: 2100

Ion Ratio Lower Upper

53 100

52 59.1 66.8 100.2#

51 0.0 29.5 44.3#



#16

Acetone

Concen: 3.137 ug/l

RT: 2.42 min Scan# 251

Delta R.T. -0.00 min

Lab File: VX015428.D

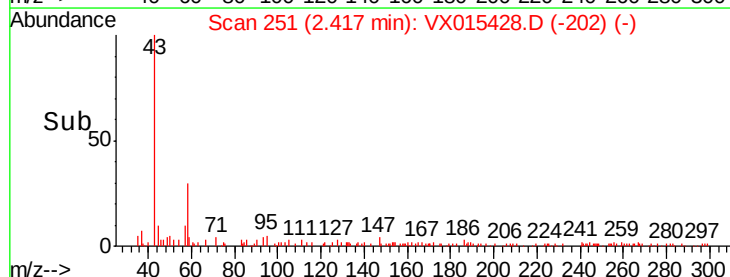
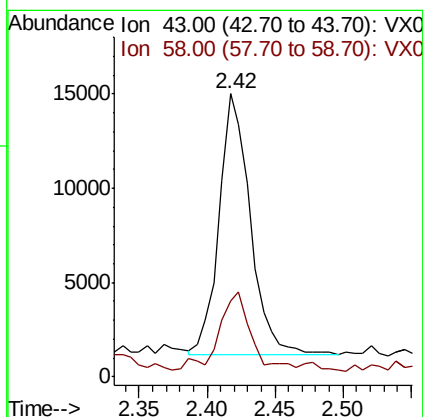
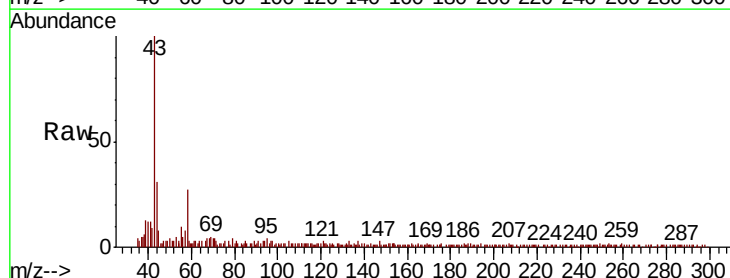
Acq: 30 Mar 2020 15:19

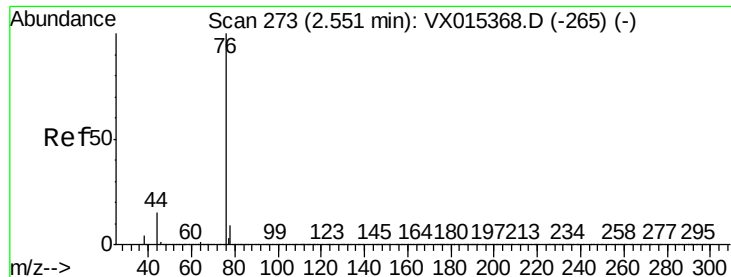
Tgt Ion: 43 Resp: 21934

Ion Ratio Lower Upper

43 100

58 26.5 22.1 33.1





#17

Carbon Disulfide

Concen: 0.530 ug/l

RT: 2.55 min Scan# 273

Delta R.T. -0.00 min

Lab File: VX015428.D

Acq: 30 Mar 2020 15:19

Instrument :

MSVOA_X

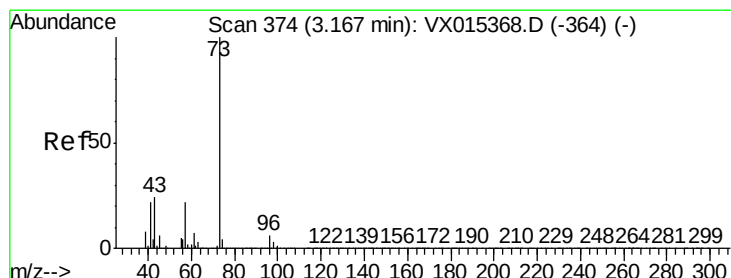
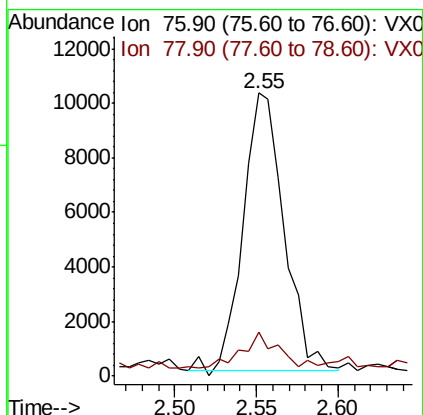
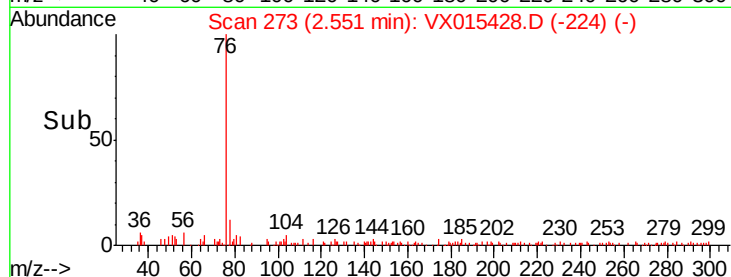
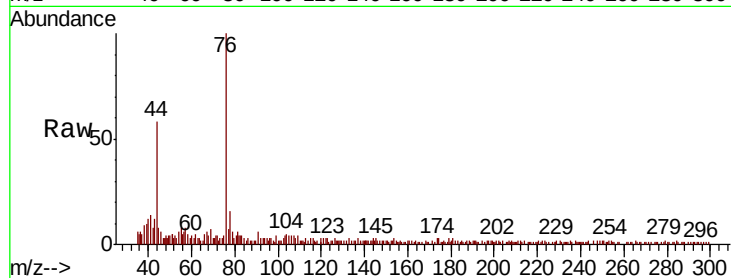
ClientSampleId :

Tot Ion: 76 Resp: 17610

Ion Ratio Lower Upper

76 100

78 12.4 7.1 10.7#



#19

Methyl tert-butyl Ether

Concen: 0.470 ug/l

RT: 3.17 min Scan# 375

Delta R.T. 0.01 min

Lab File: VX015428.D

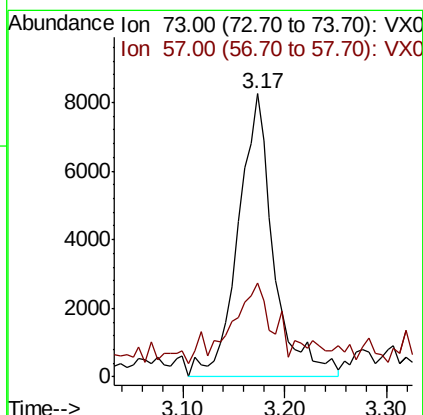
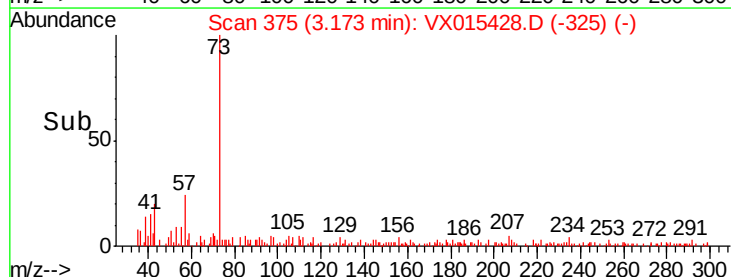
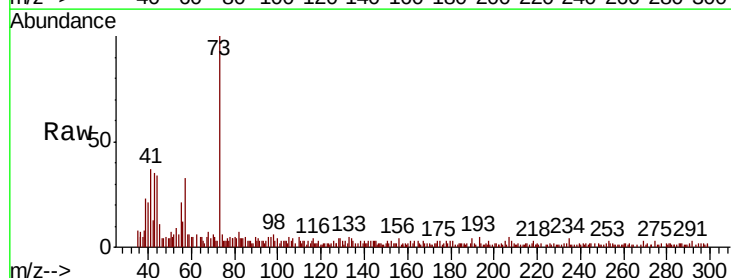
Acq: 30 Mar 2020 15:19

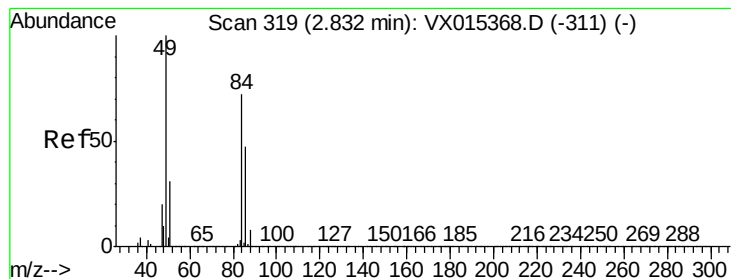
Tgt Ion: 73 Resp: 19864

Ion Ratio Lower Upper

73 100

57 29.5 17.9 26.9#





#20

Methylene Chloride

Concen: 0.382 ug/l

RT: 2.83 min Scan# 319

Delta R.T. -0.00 min

Lab File: VX015428.D

Acq: 30 Mar 2020 15:19

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 84 Resp: 4982

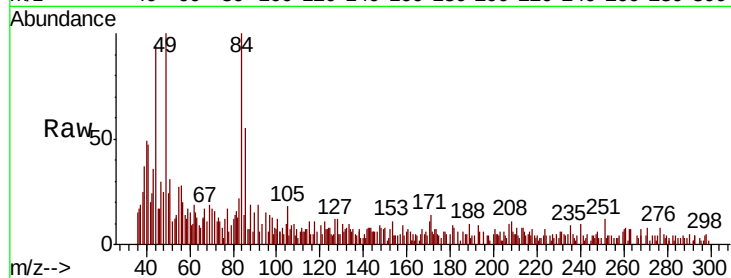
Ion Ratio Lower Upper

84 100

49 94.5 111.3 166.9#

51 0.0 34.0 51.0#

86 52.5 52.5 78.7#

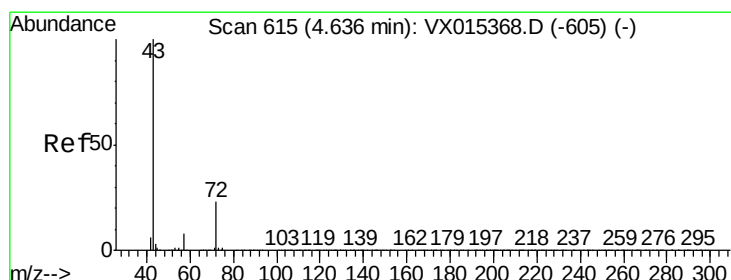
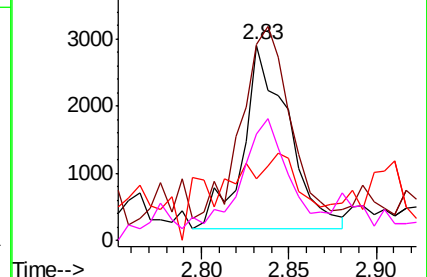
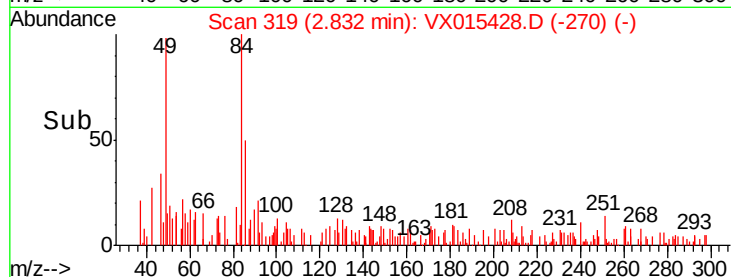


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 0.760 ug/l

RT: 4.66 min Scan# 619

Delta R.T. 0.02 min

Lab File: VX015428.D

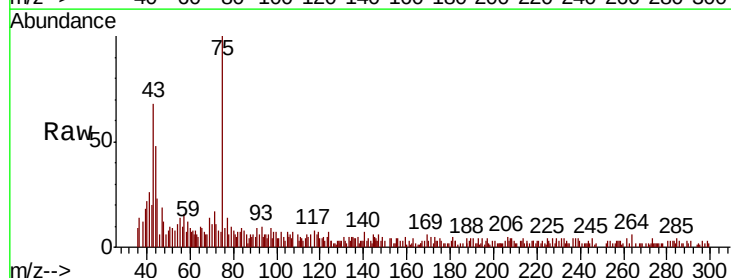
Acq: 30 Mar 2020 15:19

Tgt Ion: 43 Resp: 8543

Ion Ratio Lower Upper

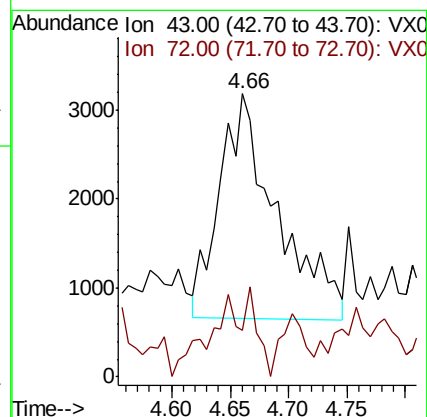
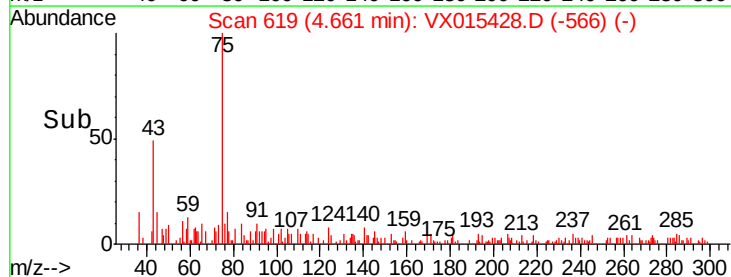
43 100

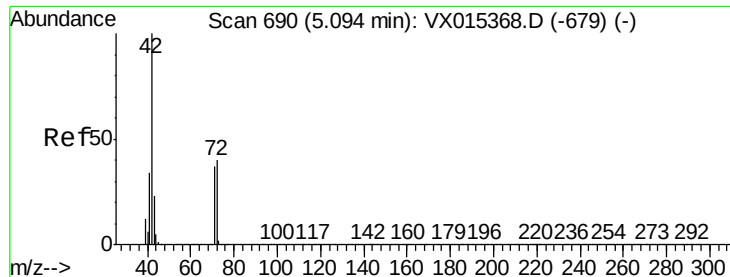
72 5.1 19.0 28.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.389 ug/l

RT: 5.14 min Scan# 698

Delta R.T. 0.05 min

Lab File: VX015428.D

Acq: 30 Mar 2020 15:19

Instrument :

MSVOA_X

ClientSampled :

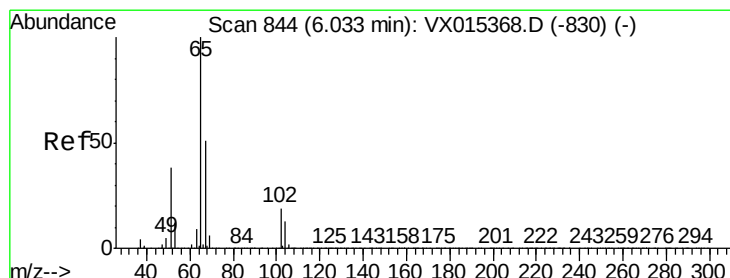
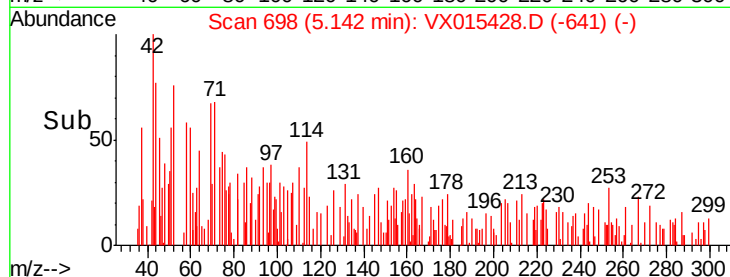
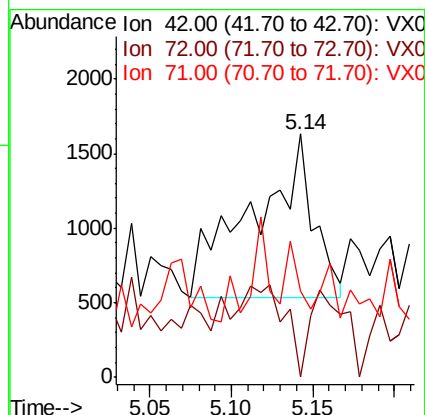
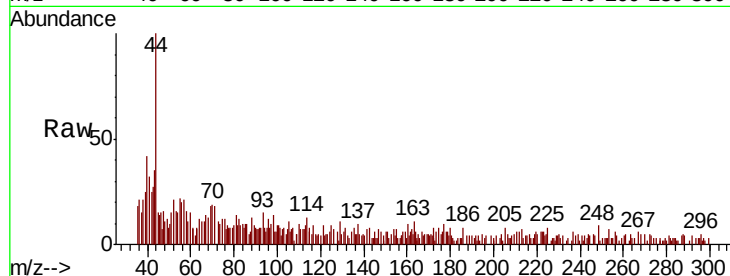
Tot Ion: 42 Resp: 2813

Ion Ratio Lower Upper

42 100

72 0.0 31.7 47.5#

71 13.1 29.6 44.4#



#33

1,2-Dichloroethane-d4

Concen: 47.128 ug/l

RT: 6.03 min Scan# 844

Delta R.T. -0.00 min

Lab File: VX015428.D

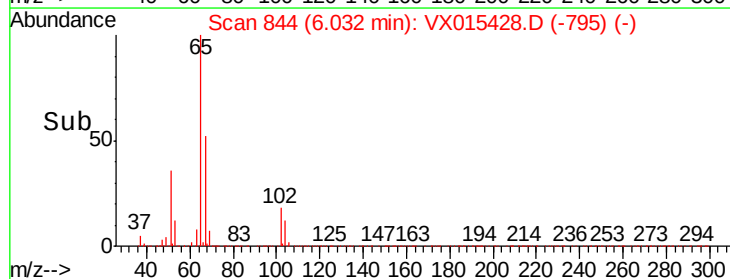
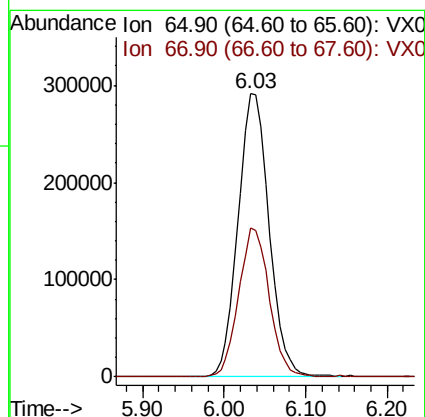
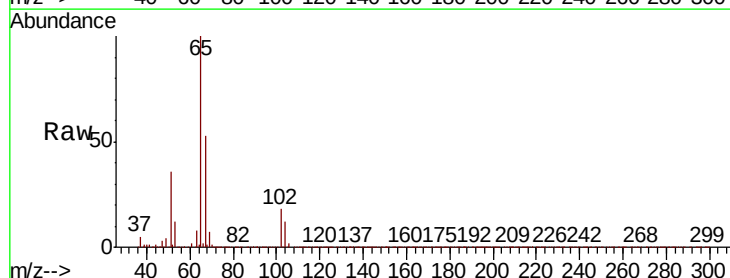
Acq: 30 Mar 2020 15:19

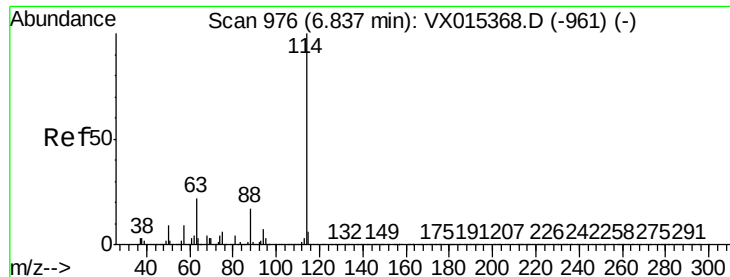
Tgt Ion: 65 Resp: 766911

Ion Ratio Lower Upper

65 100

67 51.6 0.0 102.6

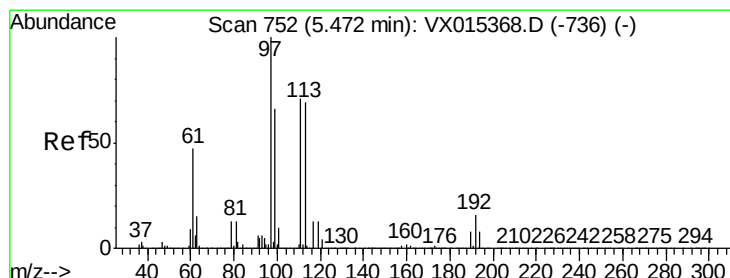
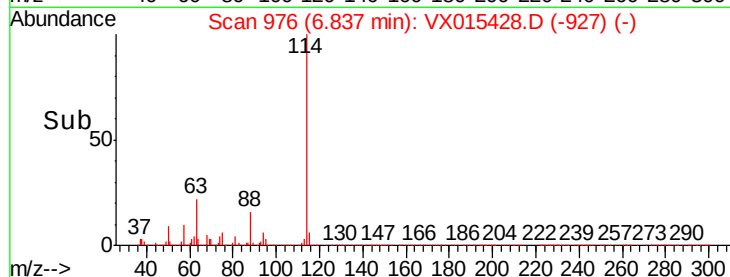
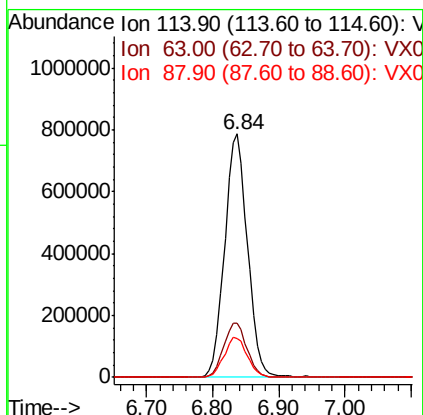
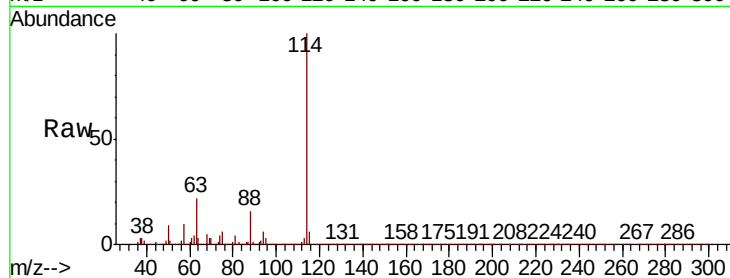




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.84 min Scan# 976
Delta R.T. -0.00 min
Lab File: VX015428.D
Acq: 30 Mar 2020 15:19

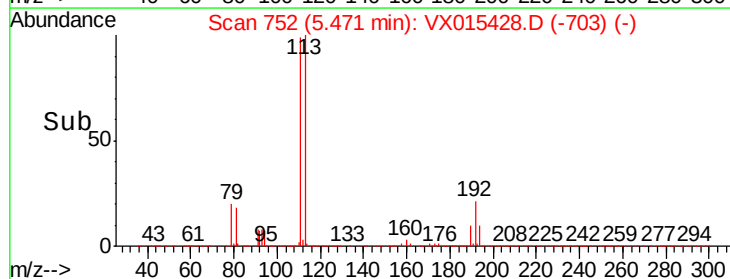
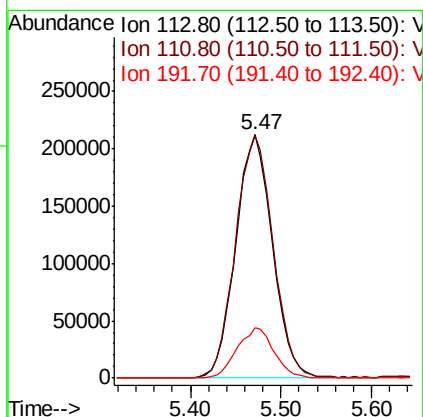
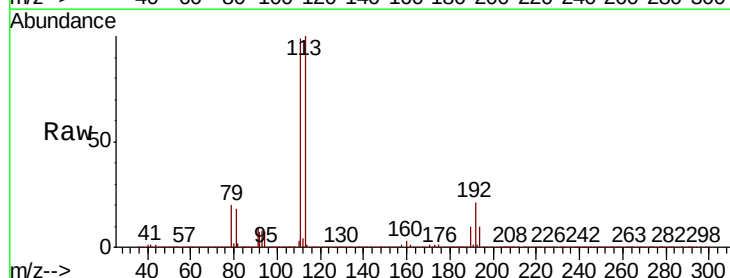
Instrument :
MSVOA_X
ClientSampleId :

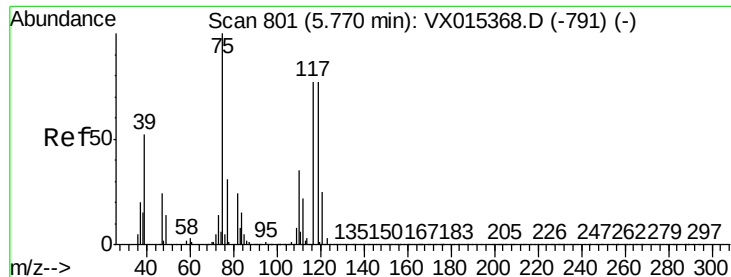
Tot Ion:114 Resp: 1879524
Ion Ratio Lower Upper
114 100
63 22.4 0.0 44.2
88 16.0 0.0 33.8



#35
Dibromofluoromethane
Concen: 49.660 ug/l
RT: 5.47 min Scan# 752
Delta R.T. -0.00 min
Lab File: VX015428.D
Acq: 30 Mar 2020 15:19

Tgt Ion:113 Resp: 596632
Ion Ratio Lower Upper
113 100
111 101.9 81.5 122.3
192 20.7 17.8 26.6

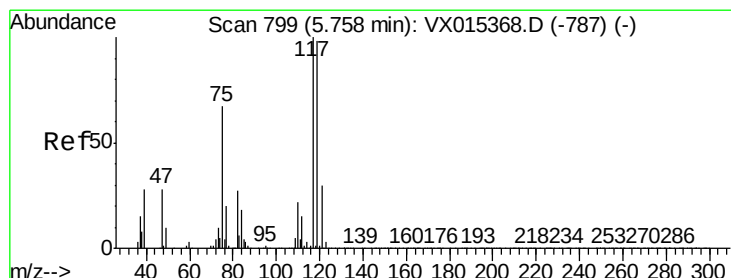
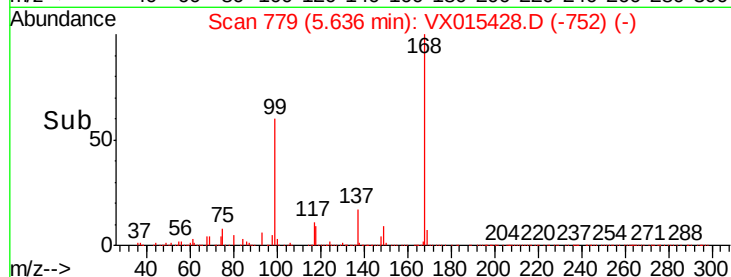
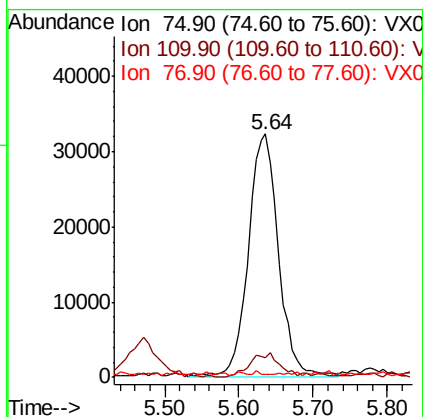
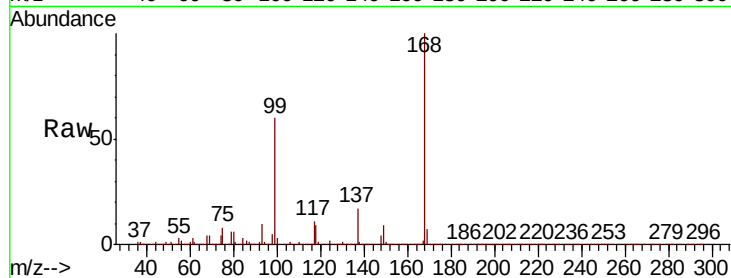




#36
 1,1-Dichloropropene
 Concen: 5.356 ug/l
 RT: 5.64 min Scan# 779
 Delta R.T. -0.13 min
 Lab File: VX015428.D
 Acq: 30 Mar 2020 15:19

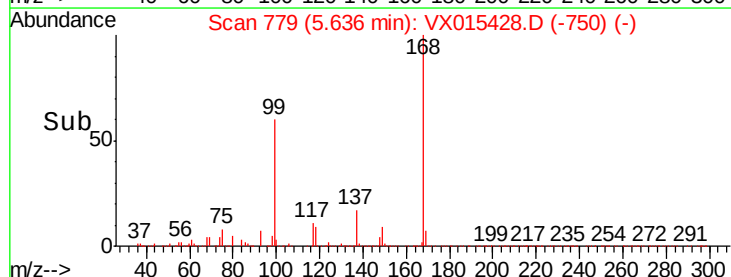
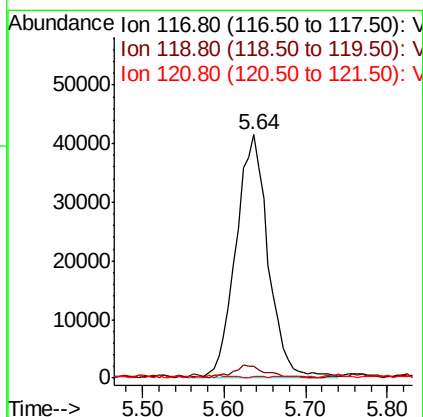
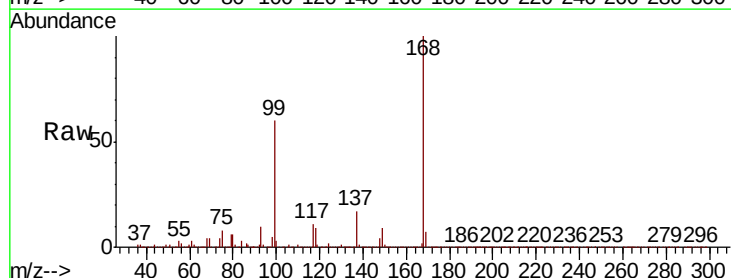
Instrument :
 MSVOA_X
 ClientSampleId :

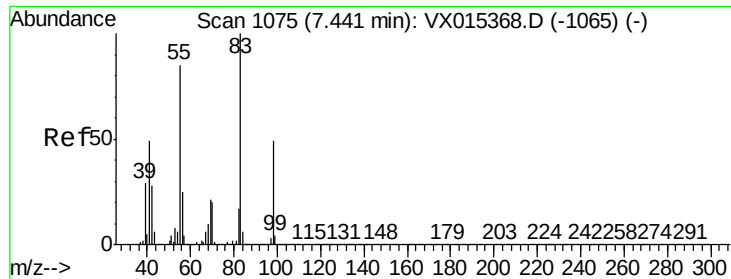
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.2	17.1	51.3#
77	0.3	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.089 ug/l
 RT: 5.64 min Scan# 779
 Delta R.T. -0.12 min
 Lab File: VX015428.D
 Acq: 30 Mar 2020 15:19

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.2	78.0	117.0#
121	0.0	23.8	35.8#

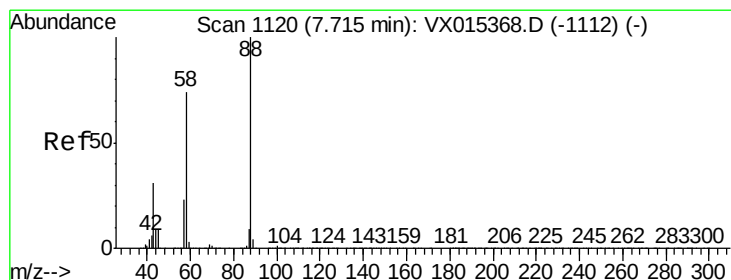
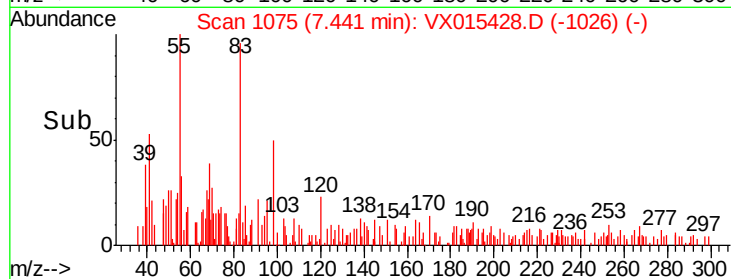
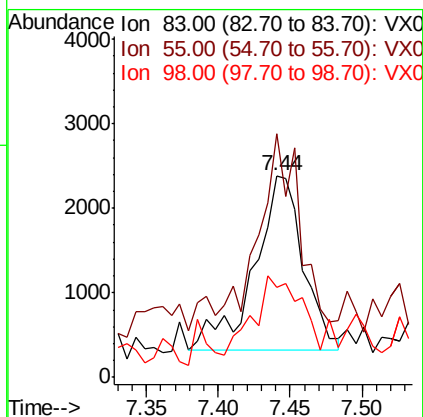
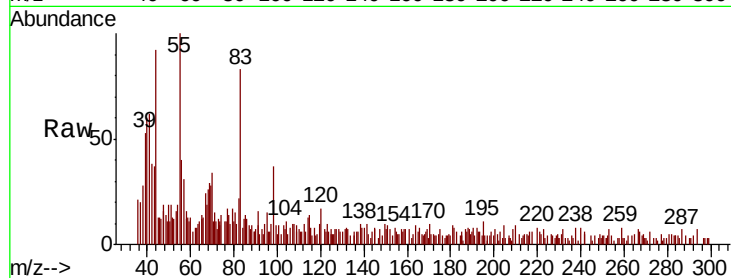




#39
Methylvlcyclohexane
Concen: 0.243 ug/l
RT: 7.44 min Scan# 1075
Delta R.T. -0.00 min
Lab File: VX015428.D
Acq: 30 Mar 2020 15:19

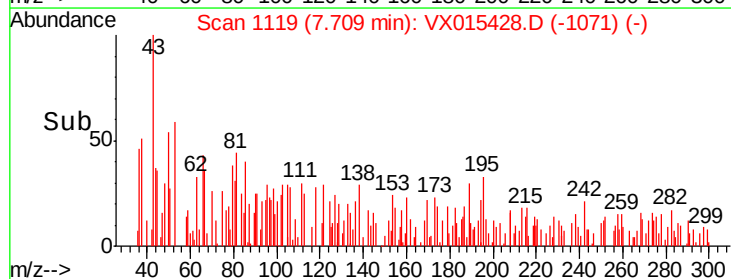
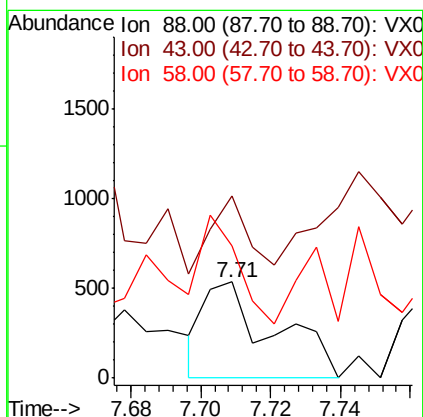
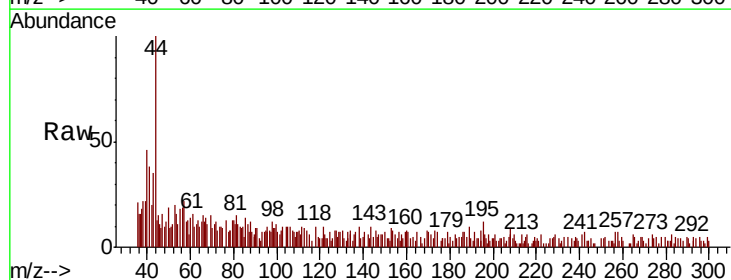
Instrument :
MSVOA_X
ClientSampleId :

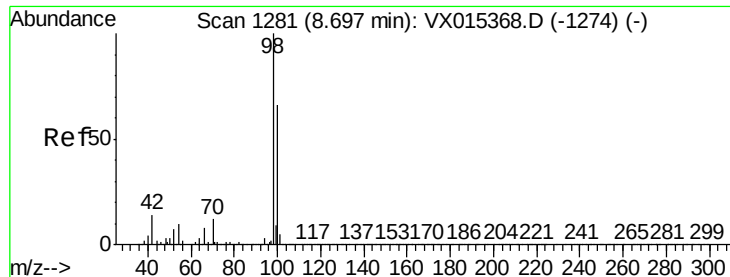
Tot Ion: 83 Resp: 4854
Ion Ratio Lower Upper
83 100
55 112.9 67.8 101.6#
98 44.5 39.3 58.9



#49
1,4-Dioxane
Concen: 2.086 ug/l
RT: 7.71 min Scan# 1119
Delta R.T. -0.01 min
Lab File: VX015428.D
Acq: 30 Mar 2020 15:19

Tgt Ion: 88 Resp: 740
Ion Ratio Lower Upper
88 100
43 42.8 30.1 45.1
58 131.6 60.6 90.8#





#50

Toluene-d8

Concen: 51.701 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VX015428.D

Acq: 30 Mar 2020 15:19

Instrument :

MSVOA_X

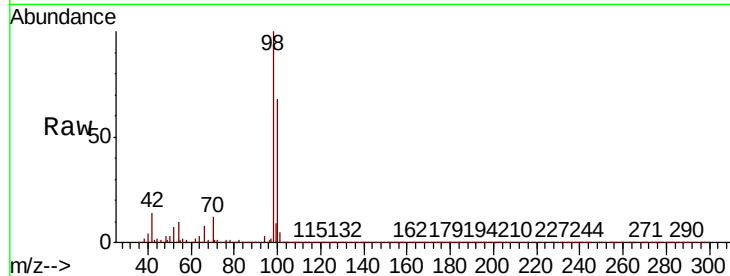
ClientSampleId :

Tot Ion: 98 Resp: 2286920

Ion Ratio Lower Upper

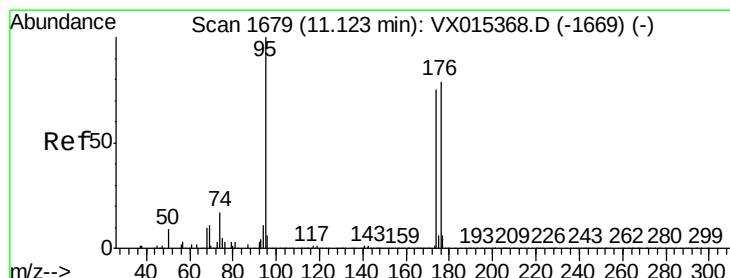
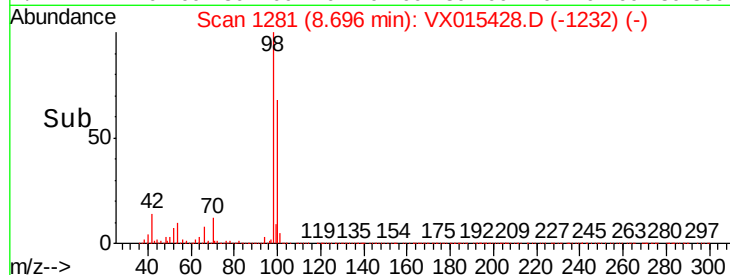
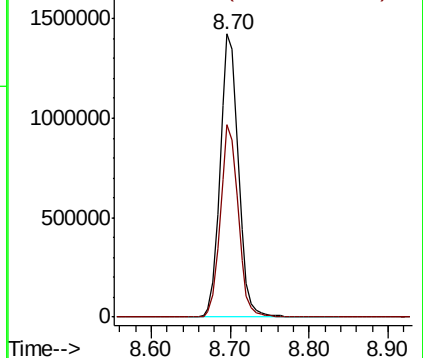
98 100

100 66.6 53.5 80.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#62

4-Bromofluorobenzene

Concen: 53.847 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.00 min

Lab File: VX015428.D

Acq: 30 Mar 2020 15:19

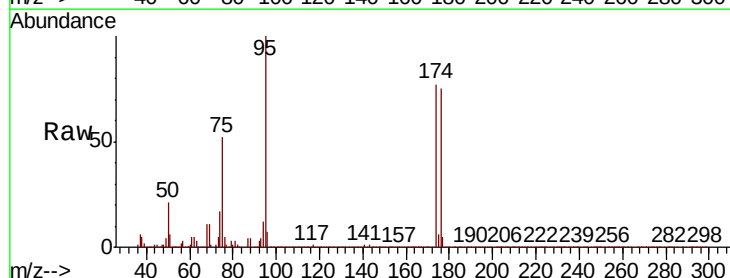
Tgt Ion: 95 Resp: 967987

Ion Ratio Lower Upper

95 100

174 77.7 0.0 158.6

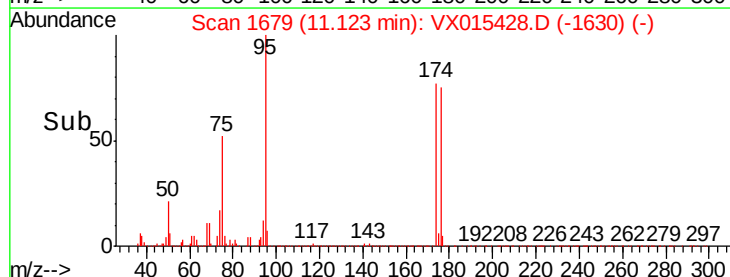
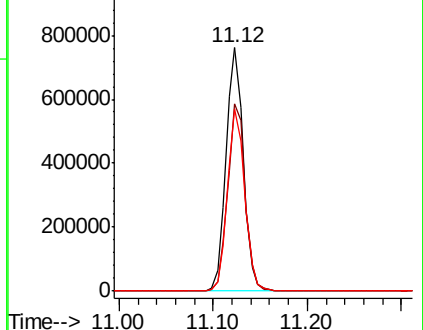
176 75.1 0.0 159.0

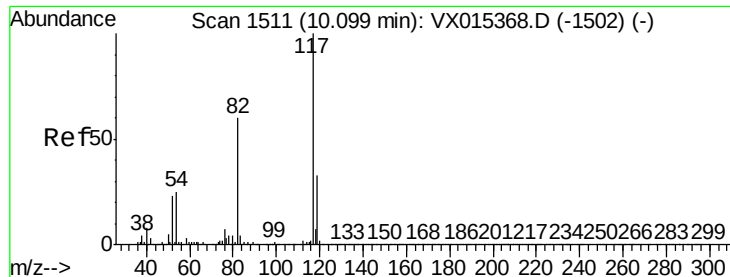


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

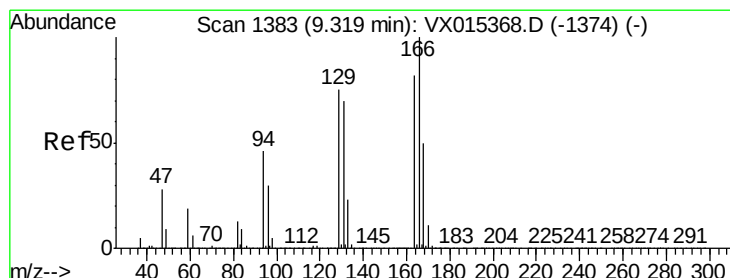
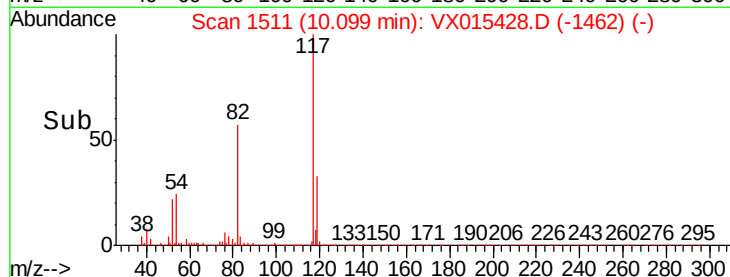
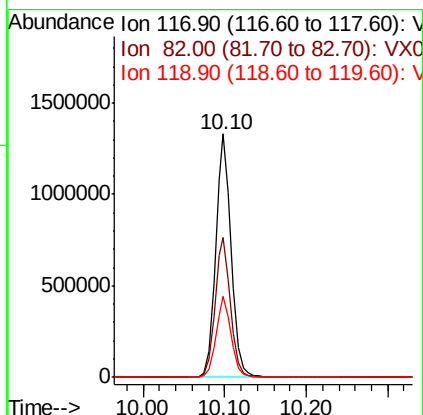
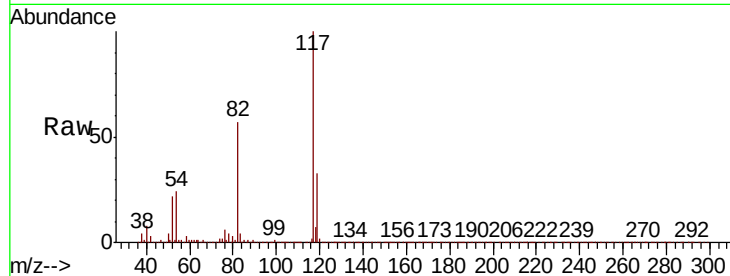




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1511
Delta R.T. -0.00 min
Lab File: VX015428.D
Acq: 30 Mar 2020 15:19

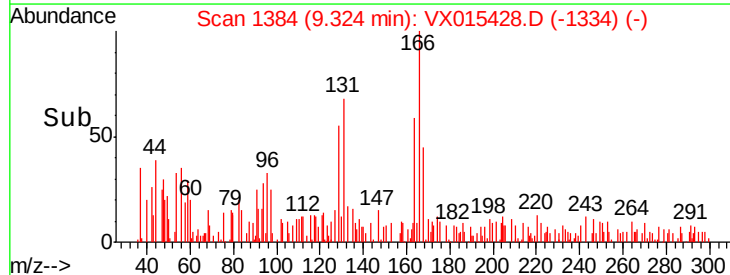
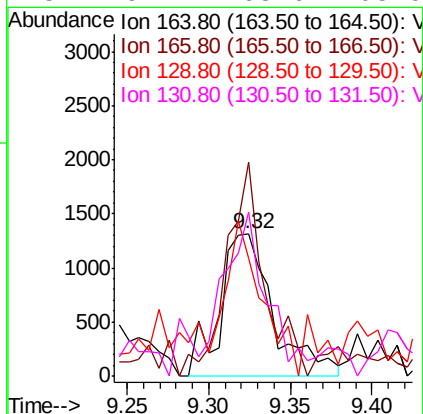
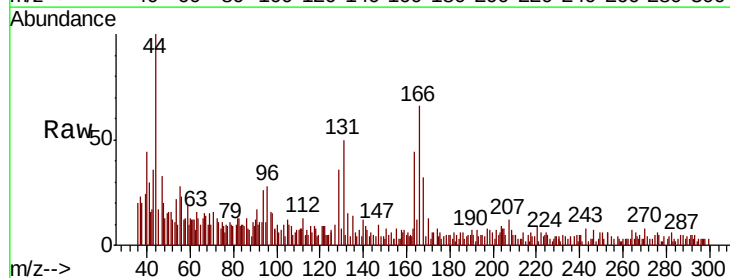
Instrument :
MSVOA_X
ClientSampleId :

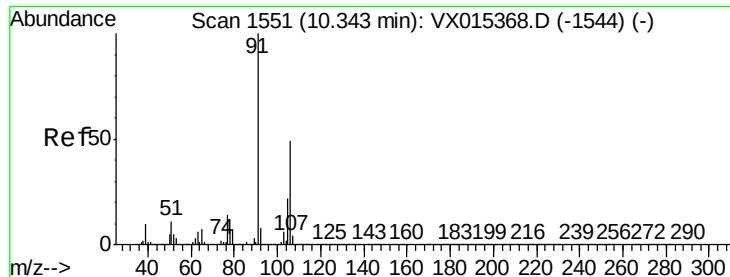
Tot Ion:117 Resp: 1781058
Ion Ratio Lower Upper
117 100
82 57.4 47.8 71.8
119 33.4 26.8 40.2



#64
Tetrachloroethene
Concen: 0.220 ug/l
RT: 9.32 min Scan# 1384
Delta R.T. 0.01 min
Lab File: VX015428.D
Acq: 30 Mar 2020 15:19

Tgt Ion:164 Resp: 2955
Ion Ratio Lower Upper
164 100
166 145.3 97.8 146.6
129 80.5 73.0 109.4
131 94.2 68.6 103.0

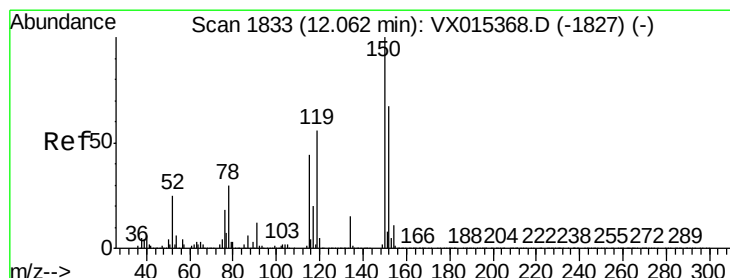
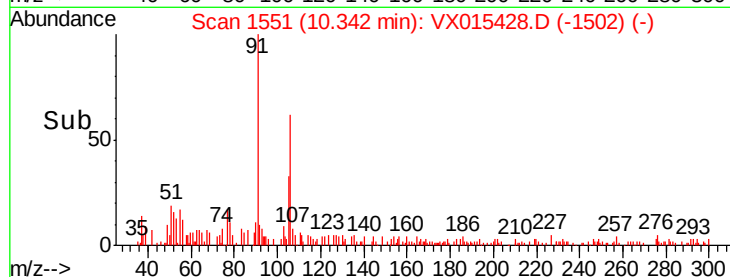
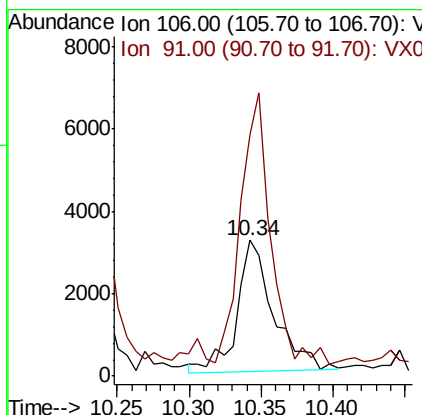
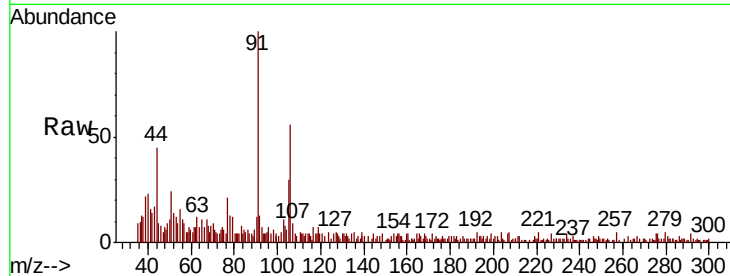




#68
m/p-Xvlenes
Concen: 0.239 ug/l
RT: 10.34 min Scan# 1551
Delta R.T. -0.00 min
Lab File: VX015428.D
Acq: 30 Mar 2020 15:19

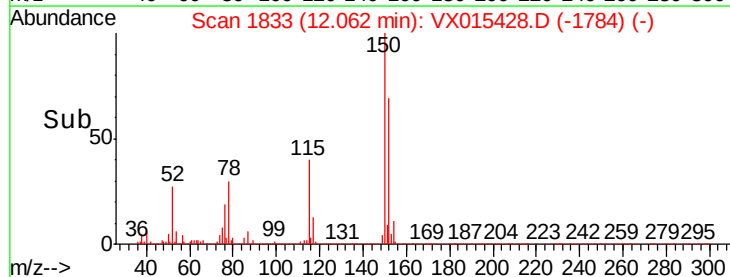
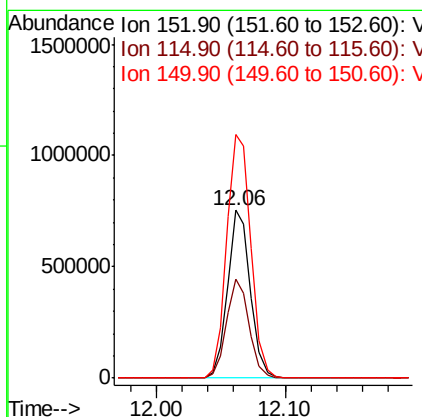
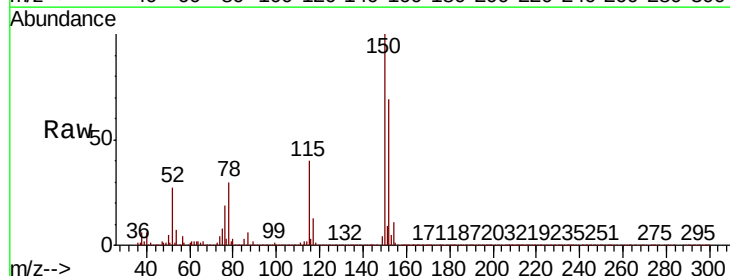
Instrument :
MSVOA_X
ClientSampleId :

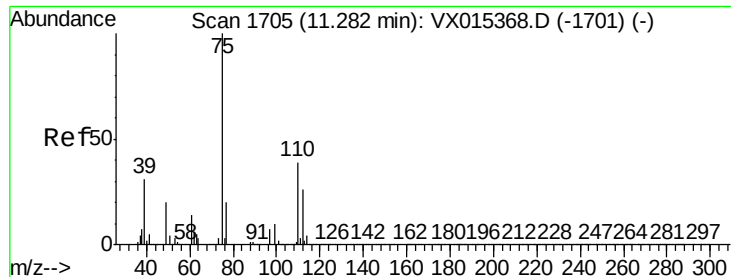
Tot Ion:106 Resp: 5618
Ion Ratio Lower Upper
106 100
91 182.5 163.4 245.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1833
Delta R.T. -0.00 min
Lab File: VX015428.D
Acq: 30 Mar 2020 15:19

Tgt Ion:152 Resp: 933794
Ion Ratio Lower Upper
152 100
115 58.6 39.0 116.9
150 153.7 0.0 340.8

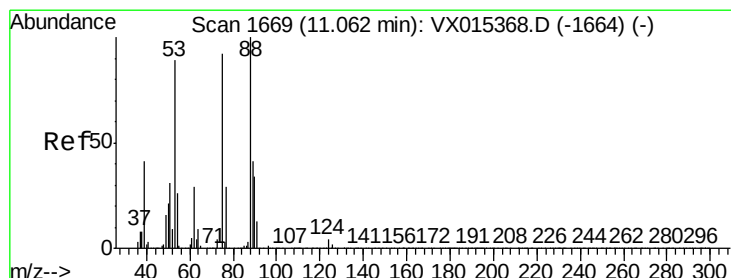
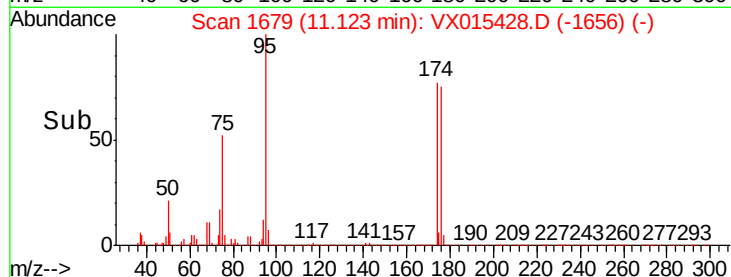
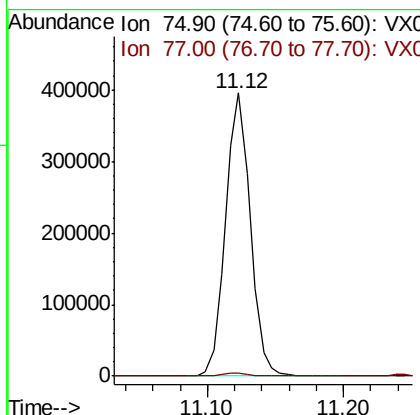
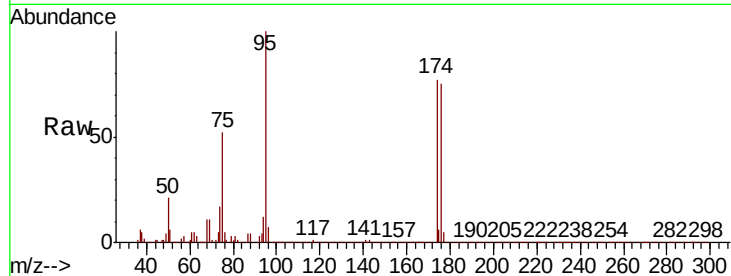




#76
 1,2,3-Trichloropropane
 Concen: 25.863 ug/l
 RT: 11.12 min Scan# 1679
 Delta R.T. -0.16 min
 Lab File: VX015428.D
 Acq: 30 Mar 2020 15:19

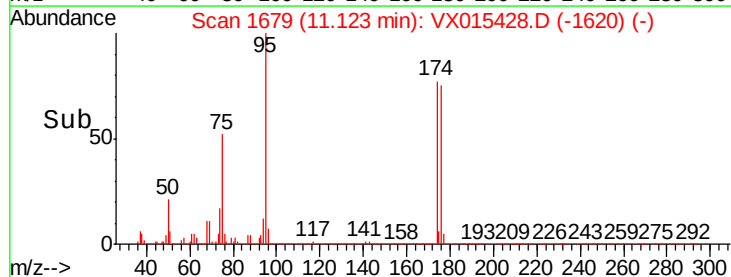
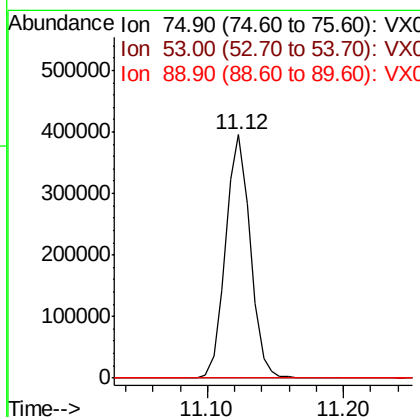
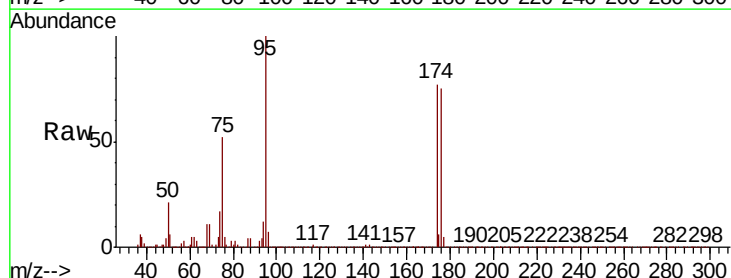
Instrument :
 MSVOA_X
 ClientSampled :

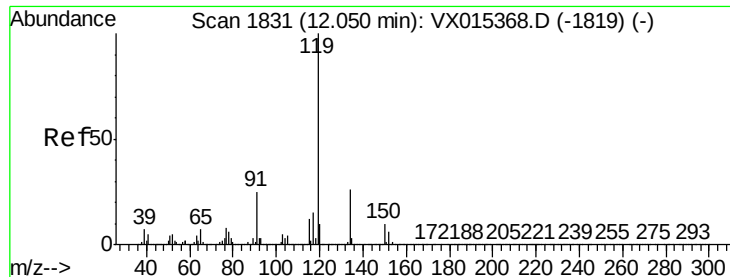
Tot Ion: 75 Resp: 496641
 Ion Ratio Lower Upper
 75 100
 77 1.3 21.2 63.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 62.057 ug/l
 RT: 11.12 min Scan# 1679
 Delta R.T. 0.06 min
 Lab File: VX015428.D
 Acq: 30 Mar 2020 15:19

Tgt Ion: 75 Resp: 496641
 Ion Ratio Lower Upper
 75 100
 53 0.2 80.1 120.1#
 89 0.1 36.1 54.1#

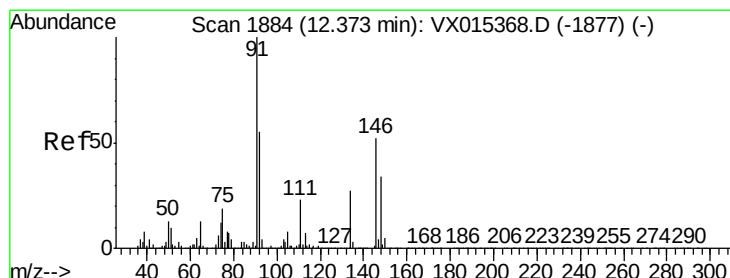
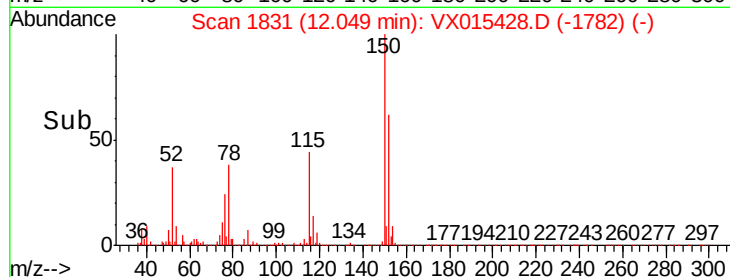
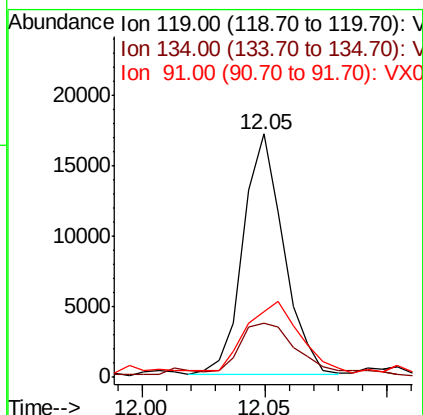
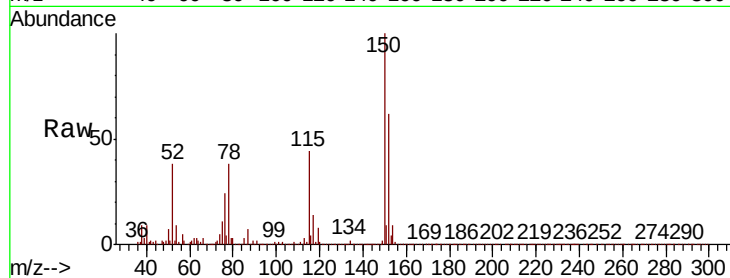




#86
p-Isopropyltoluene
Concen: 0.361 ug/l
RT: 12.05 min Scan# 1831
Delta R.T. -0.00 min
Lab File: VX015428.D
Acq: 30 Mar 2020 15:19

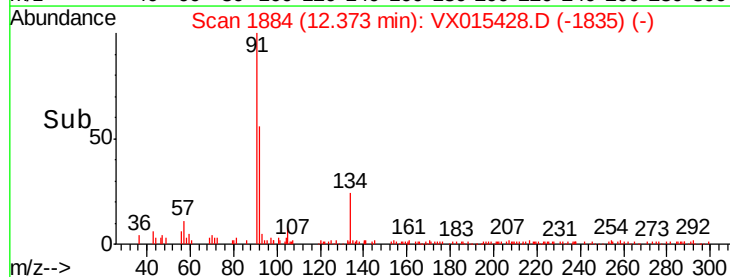
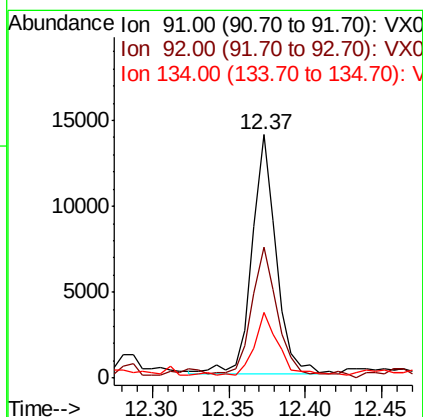
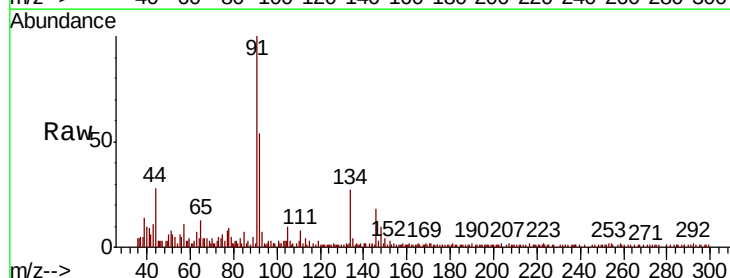
Instrument :
MSVOA_X
ClientSampleId :

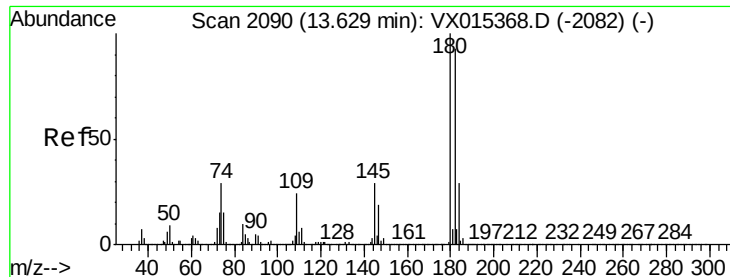
Tot Ion	Ratio	Lower	Upper
119	100		
134	32.3	13.1	39.3
91	39.9	12.4	37.4



#89
n-Butylbenzene
Concen: 0.308 ug/l
RT: 12.37 min Scan# 1884
Delta R.T. -0.00 min
Lab File: VX015428.D
Acq: 30 Mar 2020 15:19

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.6	27.2	81.5
134	26.7	13.4	40.2

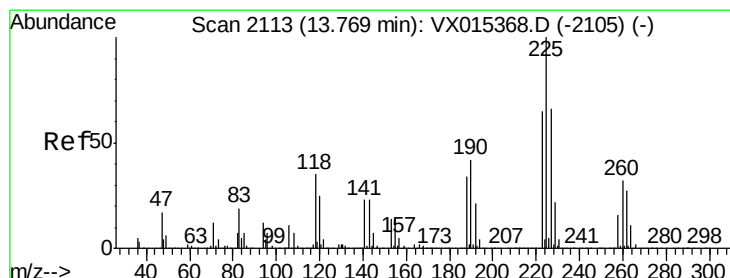
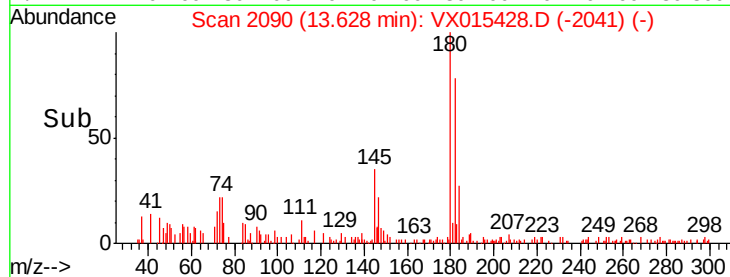
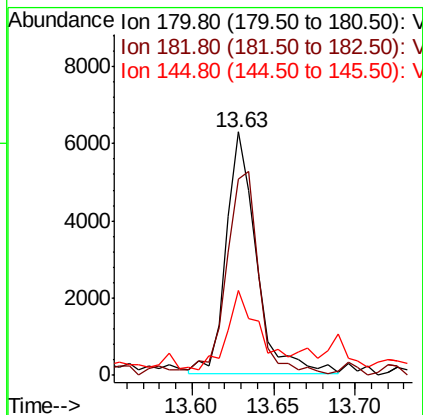
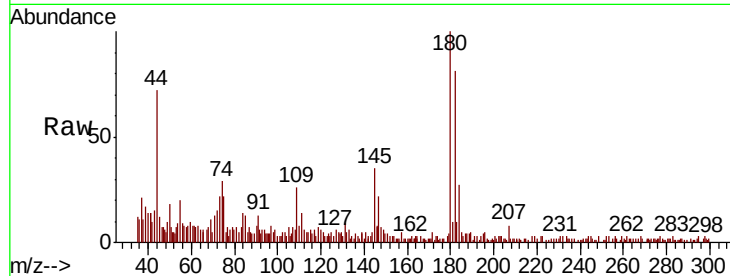




#93
 1,2,4-Trichlorobenzene
 Concen: 0.357 ug/l
 RT: 13.63 min Scan# 2090
 Delta R.T. -0.00 min
 Lab File: VX015428.D
 Acq: 30 Mar 2020 15:19

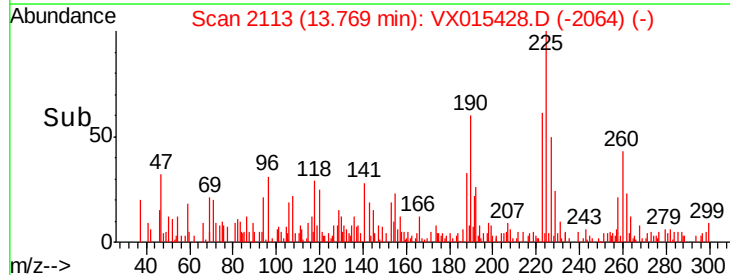
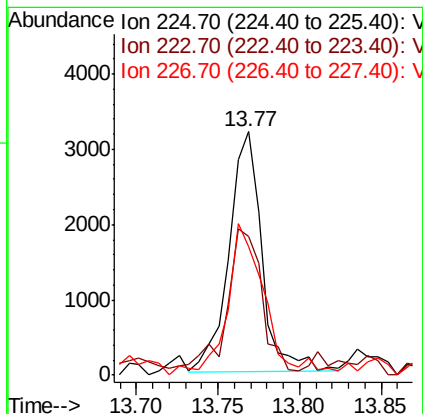
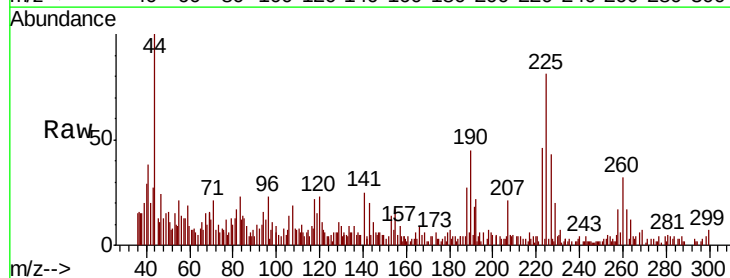
Instrument :
 MSVOA_X
 ClientSampleId :

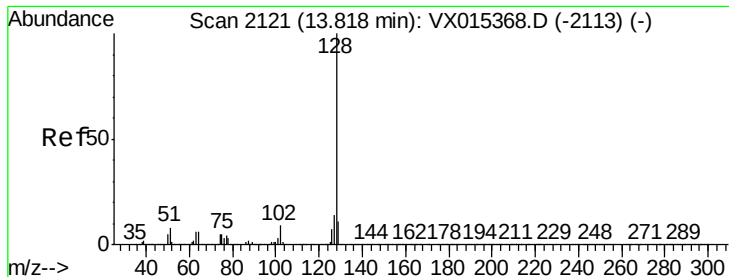
Tot Ion	Ratio	Lower	Upper
180	100		
182	87.3	46.9	140.7
145	34.8	14.9	44.5



#94
 Hexachlorobutadiene
 Concen: 0.412 ug/l
 RT: 13.77 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VX015428.D
 Acq: 30 Mar 2020 15:19

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.6	31.9	95.7
227	69.2	30.4	91.3

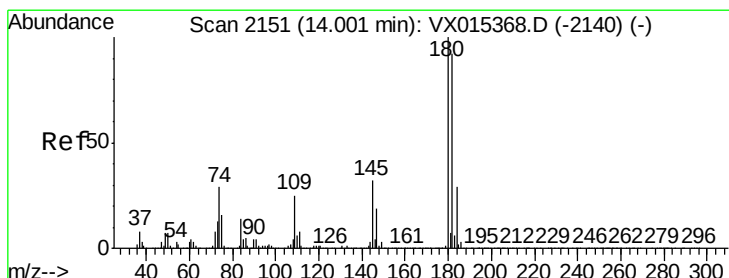
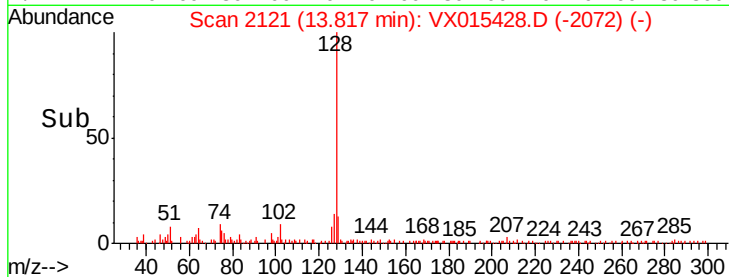
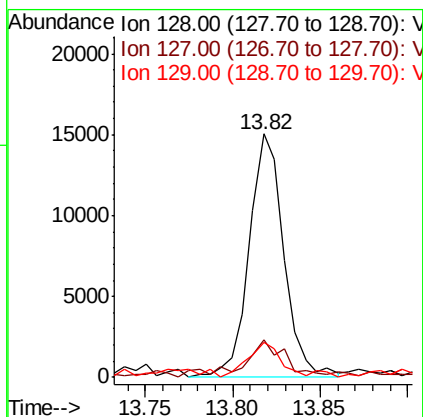
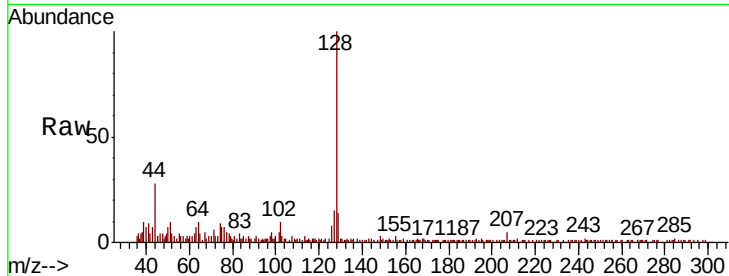




#95
Naphthalene
Concen: 0.304 ug/l
RT: 13.82 min Scan# 2121
Delta R.T. -0.00 min
Lab File: VX015428.D
Acq: 30 Mar 2020 15:19

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:128 Resp: 20938
Ion Ratio Lower Upper
128 100
127 14.6 10.6 15.8
129 13.5 8.8 13.2#



#96
1,2,3-Trichlorobenzene
Concen: 0.240 ug/l
RT: 14.00 min Scan# 2151
Delta R.T. -0.00 min
Lab File: VX015428.D
Acq: 30 Mar 2020 15:19

Tgt Ion:180 Resp: 5217
Ion Ratio Lower Upper
180 100
182 96.3 46.7 140.0
145 47.8 15.8 47.3#

