

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX030920\
 Data File : VX015134.D
 Acq On : 09 Mar 2020 11:58
 Operator : JC/SP
 Sample : L1842-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-20200303

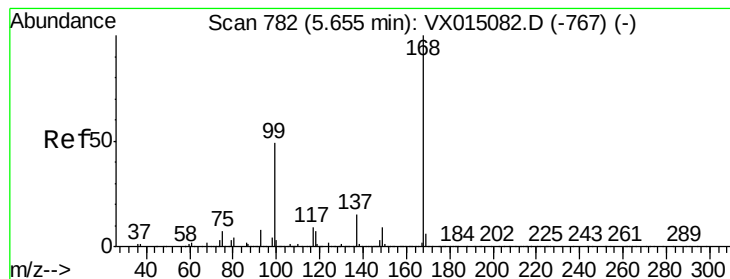
Quant Time: Mar 09 14:03:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 04 14:19:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	365666	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	597311	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	552694	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	270423	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	220688	50.87	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.74%	
35) Dibromofluoromethane	5.48	113	184548	48.97	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	97.94%	
50) Toluene-d8	8.71	98	718627	50.13	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.26%	
62) 4-Bromofluorobenzene	11.13	95	254841	49.84	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	99.68%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1448	0.51	ug/l #	69
10) Methyl Iodide	2.51	142	2246	0.58	ug/l #	94
11) Tert butyl alcohol	3.01	59	1643	2.18	ug/l #	67
13) Acrolein	2.28	56	305	0.43	ug/l #	1
15) Acrylonitrile	3.16	53	1216	0.65	ug/l #	45
16) Acetone	2.44	43	505	0.29	ug/l #	64
17) Carbon Disulfide	2.56	76	2874	0.29	ug/l	99
20) Methylene Chloride	2.84	84	1402	0.34	ug/l #	68
21) trans-1,2-Dichloroethene	3.15	96	926	0.24	ug/l #	32
25) 2-Butanone	4.65	43	1528	0.59	ug/l #	49
28) Bromochloromethane	5.00	49	742	0.24	ug/l #	40
29) Tetrahydrofuran	5.01	42	835	0.50	ug/l	93
36) 1,1-Dichloropropene	5.65	75	27268	4.94	ug/l #	45
38) Carbon Tetrachloride	5.64	117	33460	6.42	ug/l #	17
49) 1,4-Dioxane	7.73	88	246	2.48	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.09	63	707	0.22	ug/l	94
64) Tetrachloroethene	9.32	164	974	0.21	ug/l #	57
76) 1,2,3-Trichloropropane	11.13	75	125533	23.27	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	125533	66.05	ug/l #	11
93) 1,2,4-Trichlorobenzene	13.64	180	2024	0.35	ug/l	83
94) Hexachlorobutadiene	13.78	225	787	0.26	ug/l	82
95) Naphthalene	13.82	128	3347	1.60	ug/l #	75
96) 1,2,3-Trichlorobenzene	14.01	180	1632	0.28	ug/l	74

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.01 min

Lab File: VX015134.D

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MSVOA_X

ClientSampleId :

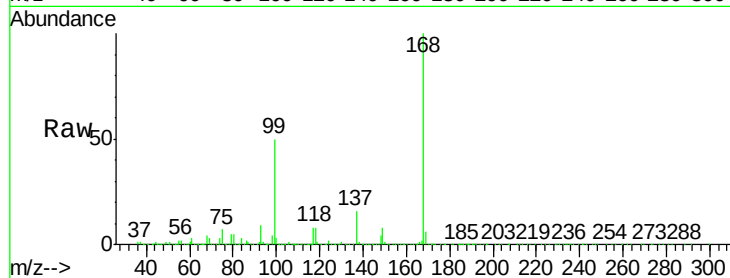
TB-20200303

Tgt Ion:168 Resp: 365666

Ion Ratio Lower Upper

168 100

99 50.1 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

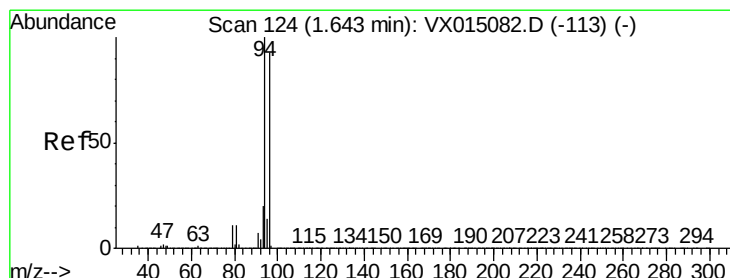
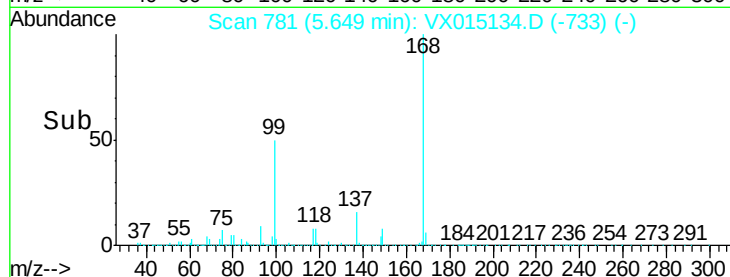
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.51 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.01 min

Lab File: VX015134.D

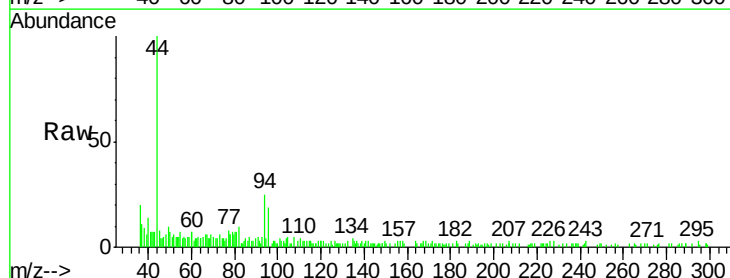
Acq: 09 Mar 2020 11:58

Tgt Ion: 94 Resp: 1448

Ion Ratio Lower Upper

94 100

96 63.6 74.6 111.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

1000

800

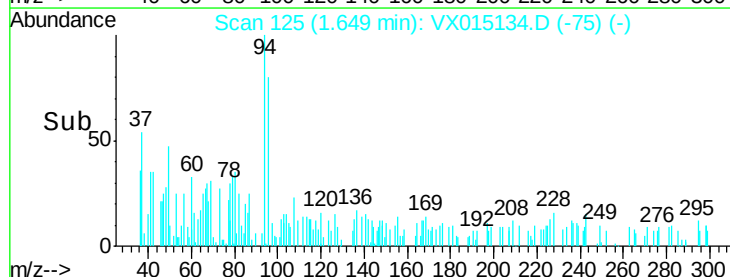
600

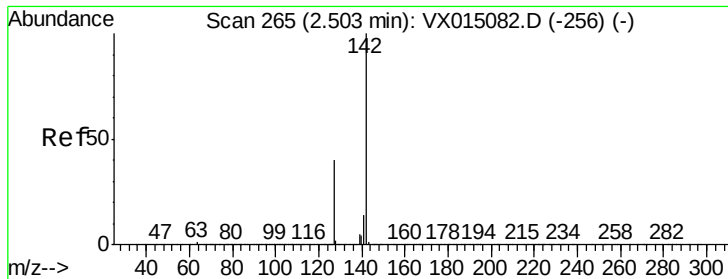
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200

0

Time-->

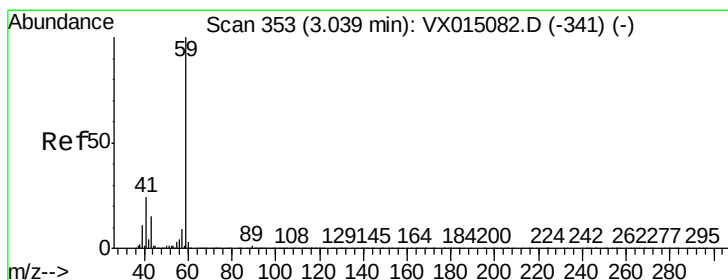
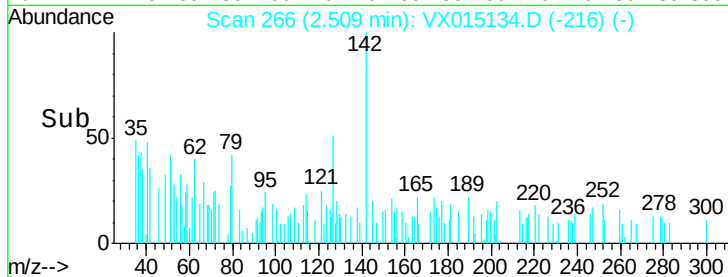
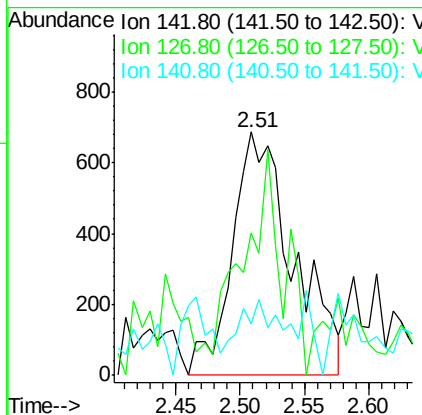
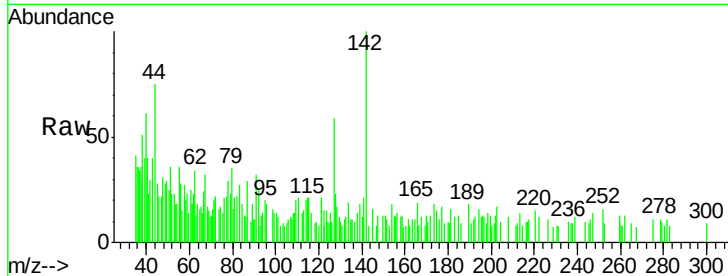




#10
Methyl Iodide
Concen: 0.58 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX015134.D
Acq: 09 Mar 2020 11:58

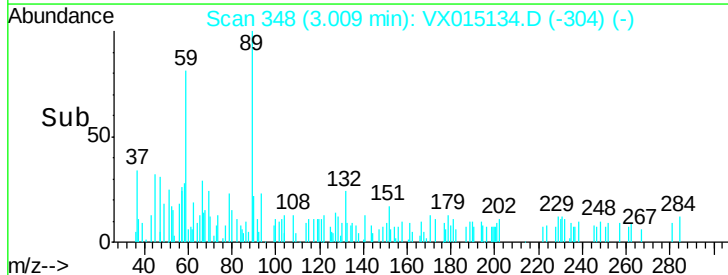
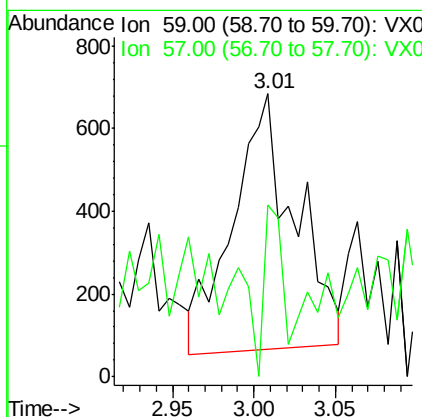
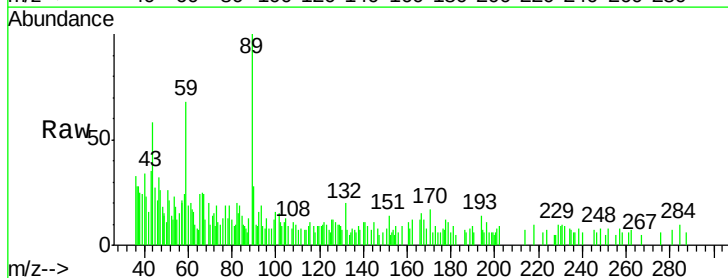
Instrument :
MSVOA_X
ClientSampleId :
TB-20200303

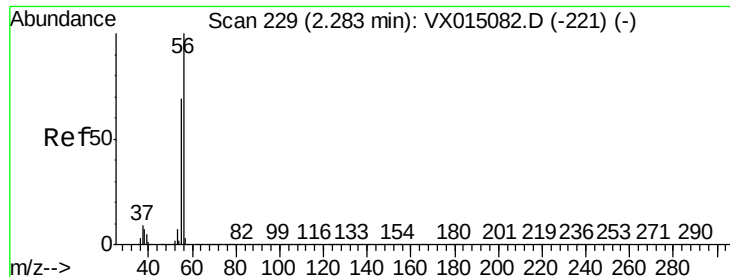
Tgt Ion:142 Resp: 2246
Ion Ratio Lower Upper
142 100
127 42.0 31.7 47.5
141 19.5 11.3 16.9#



#11
Tert butyl alcohol
Concen: 2.18 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.03 min
Lab File: VX015134.D
Acq: 09 Mar 2020 11:58

Tgt Ion: 59 Resp: 1643
Ion Ratio Lower Upper
59 100
57 22.8 8.2 12.4#





#13

Acrolein

Concen: 0.43 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX015134.D

Acq: 09 Mar 2020 11:58

Instrument :

MSVOA_X

ClientSampleId :

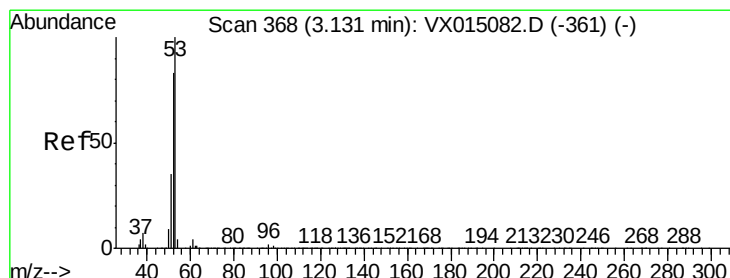
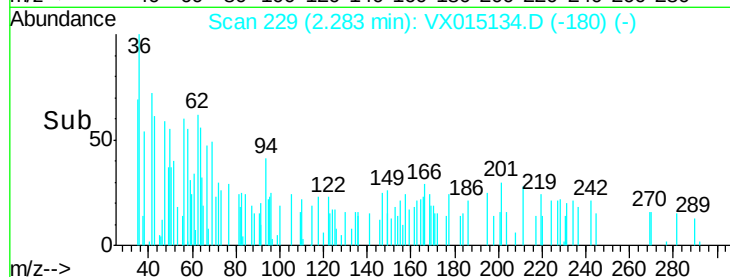
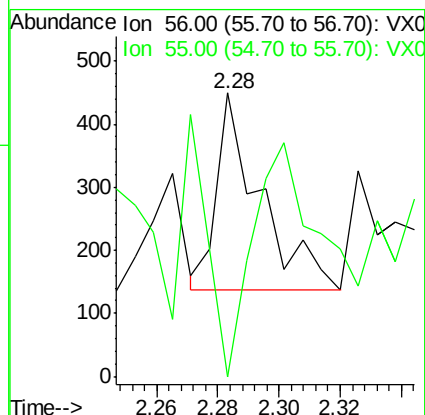
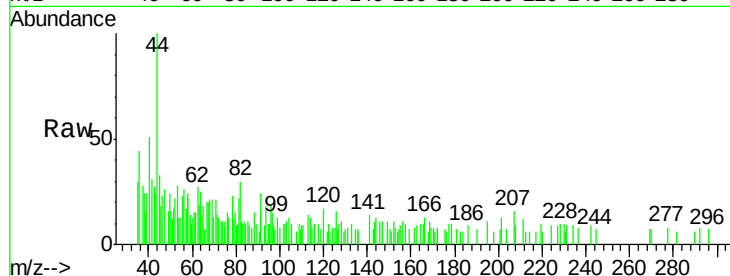
TB-20200303

Tgt Ion: 56 Resp: 305

Ion Ratio Lower Upper

56 100

55 201.6 55.4 83.0#



#15

Acrylonitrile

Concen: 0.65 ug/l

RT: 3.16 min Scan# 372

Delta R.T. 0.02 min

Lab File: VX015134.D

Acq: 09 Mar 2020 11:58

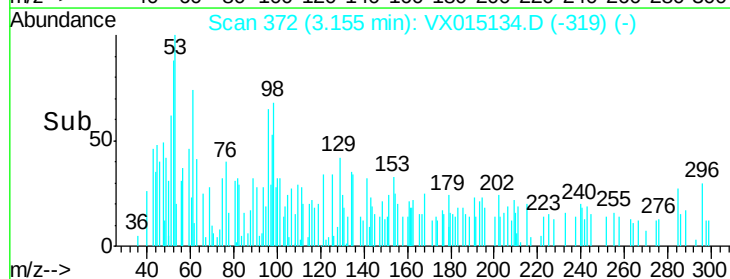
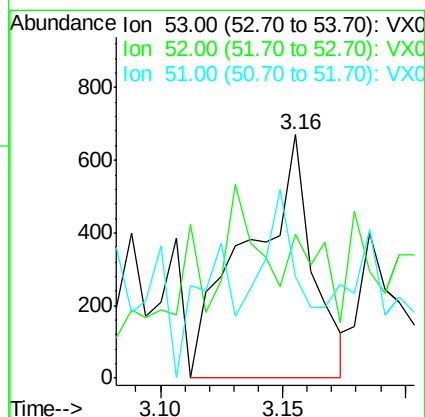
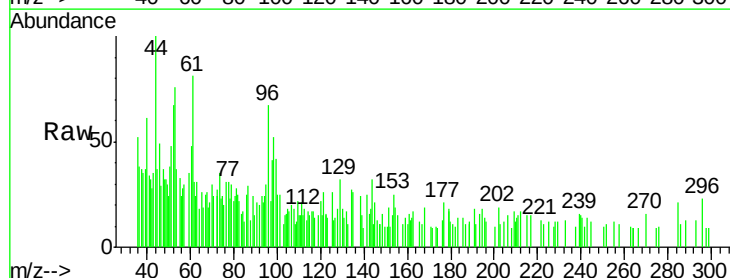
Tgt Ion: 53 Resp: 1216

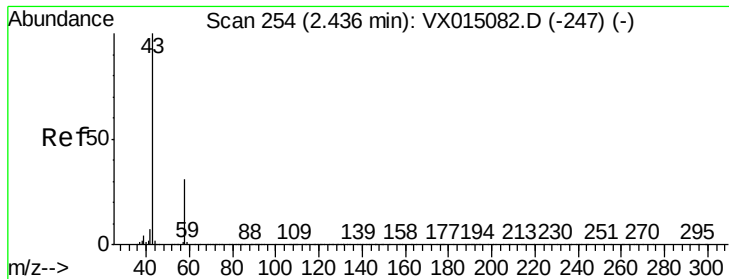
Ion Ratio Lower Upper

53 100

52 18.8 66.6 100.0#

51 26.1 29.0 43.6#





#16

Acetone

Concen: 0.29 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX015134.D

Acq: 09 Mar 2020 11:58

Instrument :

MSVOA_X

ClientSampleId :

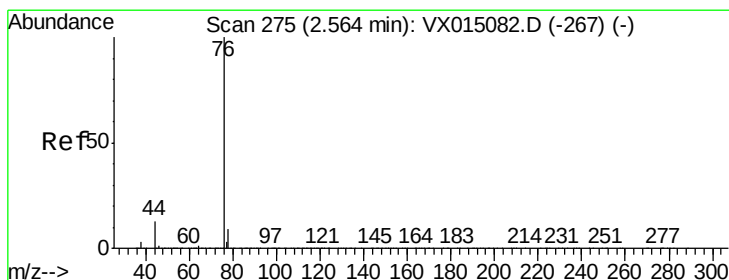
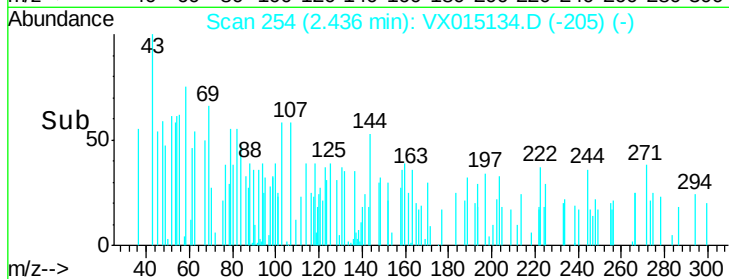
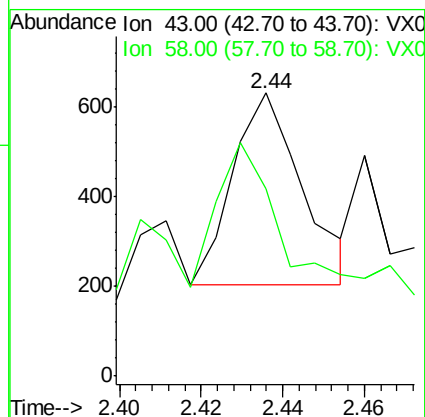
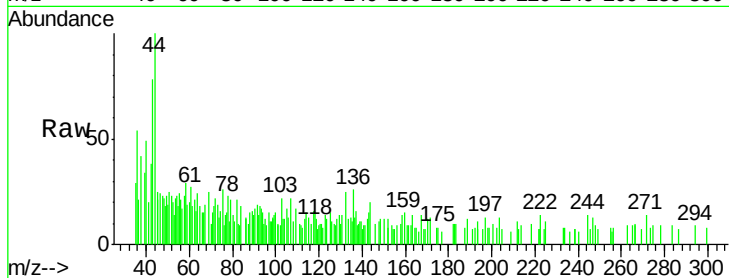
TB-20200303

Tgt Ion: 43 Resp: 505

Ion Ratio Lower Upper

43 100

58 50.8 24.8 37.2#



#17

Carbon Disulfide

Concen: 0.29 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.00 min

Lab File: VX015134.D

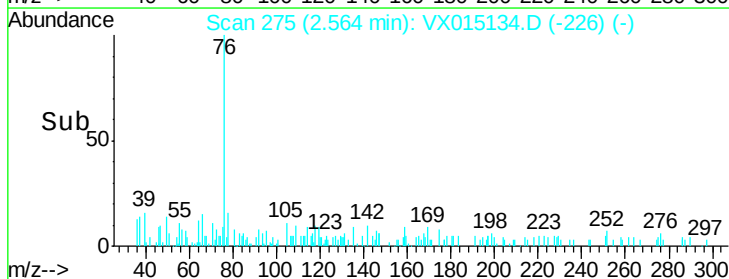
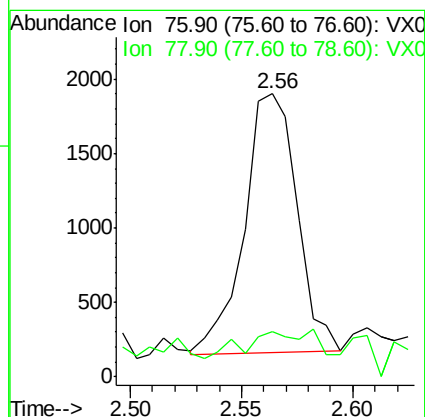
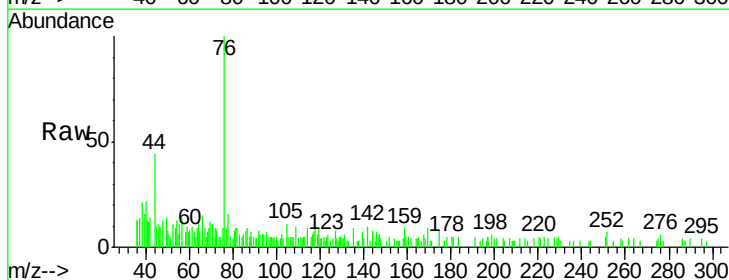
Acq: 09 Mar 2020 11:58

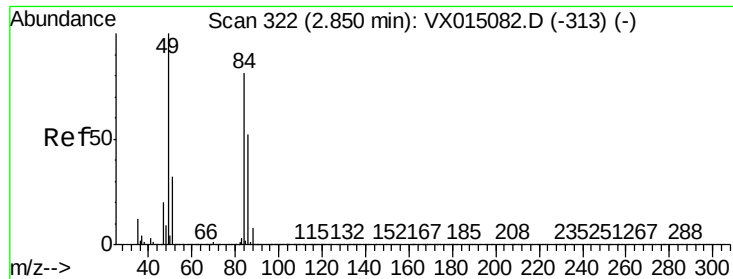
Tgt Ion: 76 Resp: 2874

Ion Ratio Lower Upper

76 100

78 8.8 7.3 10.9





#20

Methylene Chloride

Concen: 0.34 ug/l

RT: 2.84 min Scan# 321

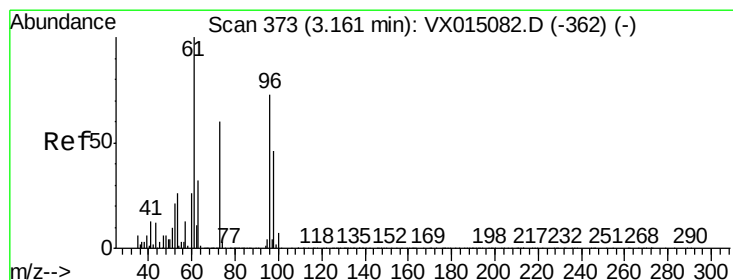
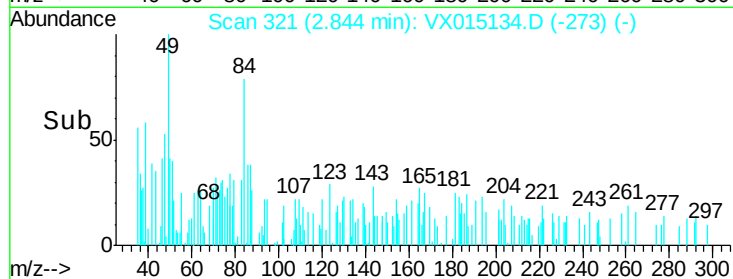
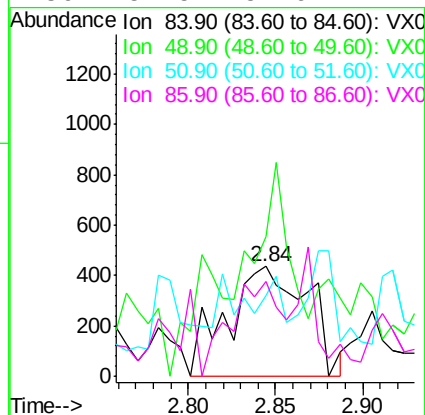
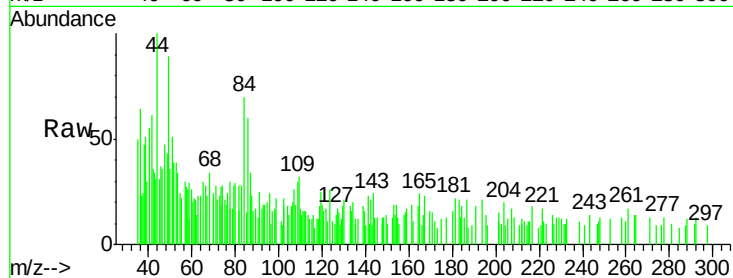
Delta R.T. -0.01 min

Lab File: VX015134.D

Acq: 09 Mar 2020 11:58

Instrument :
MSVOA_X
ClientSampleId :
TB-20200303

Tgt Ion:	84	Resp:	1402
Ion	Ratio	Lower	Upper
84	100		
49	86.4	99.4	149.2#
51	0.0	31.5	47.3#
86	57.5	51.6	77.4



#21

trans-1,2-Dichloroethene

Concen: 0.24 ug/l

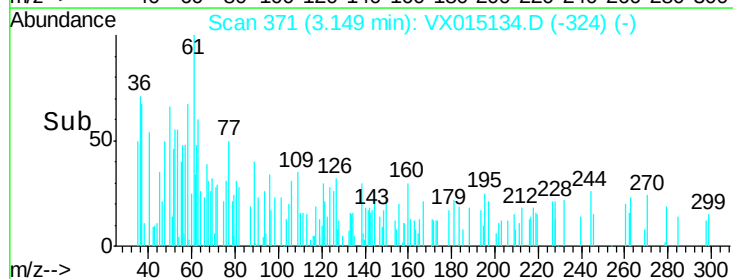
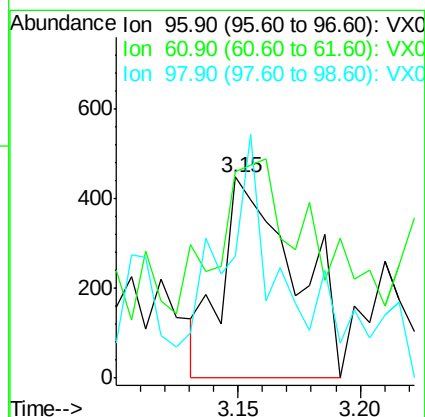
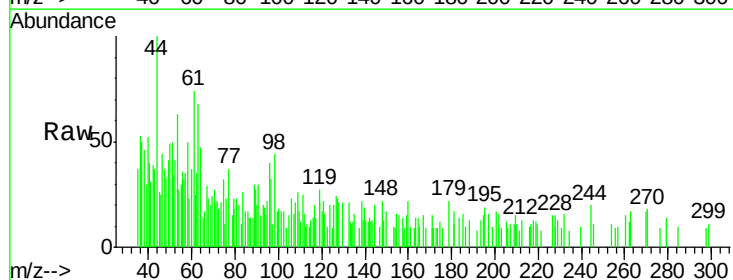
RT: 3.15 min Scan# 371

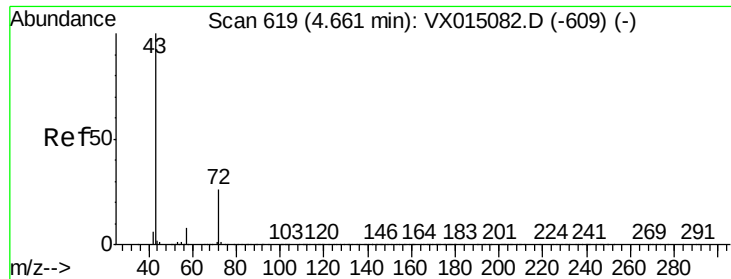
Delta R.T. -0.01 min

Lab File: VX015134.D

Acq: 09 Mar 2020 11:58

Tgt Ion:	96	Resp:	926
Ion	Ratio	Lower	Upper
96	100		
61	36.1	109.9	164.9#
98	38.1	50.2	75.2#

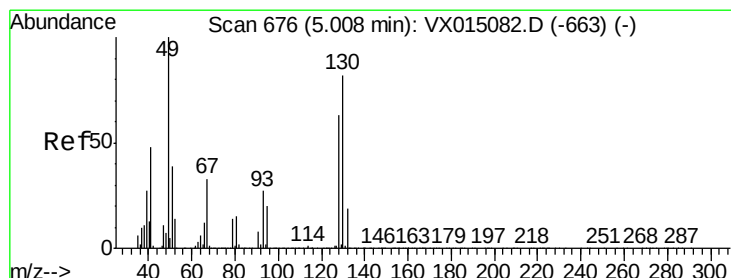
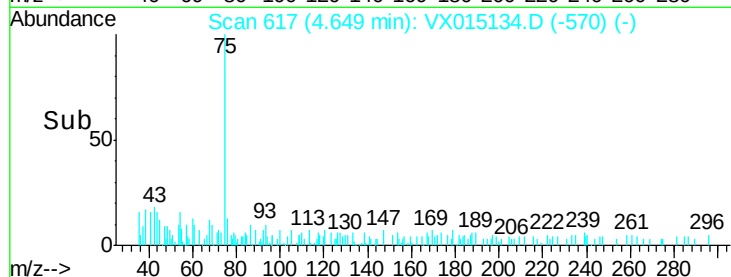
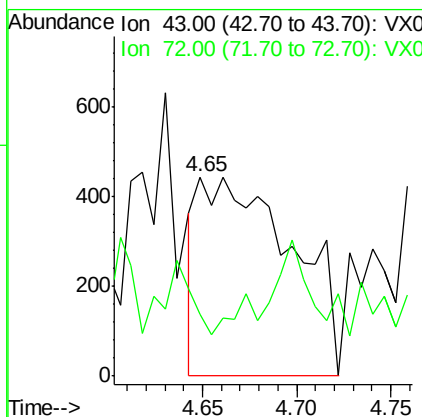
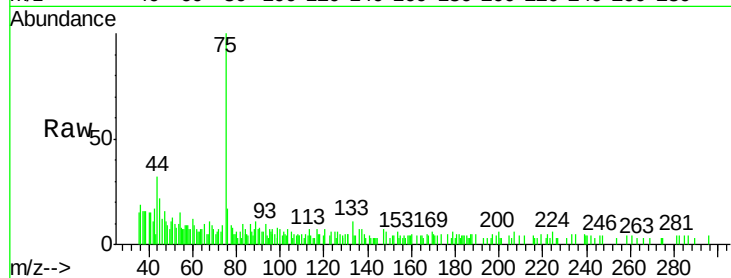




#25
2-Butanone
Concen: 0.59 ug/l
RT: 4.65 min Scan# 617
Delta R.T. -0.01 min
Lab File: VX015134.D
Acq: 09 Mar 2020 11:58

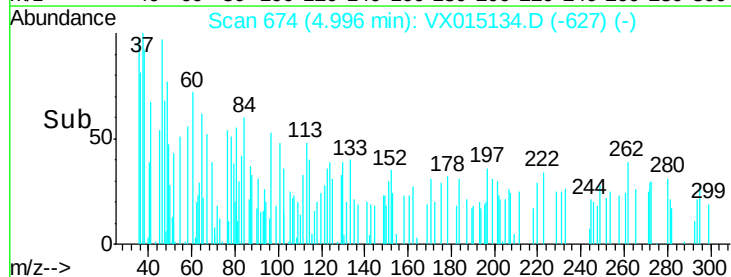
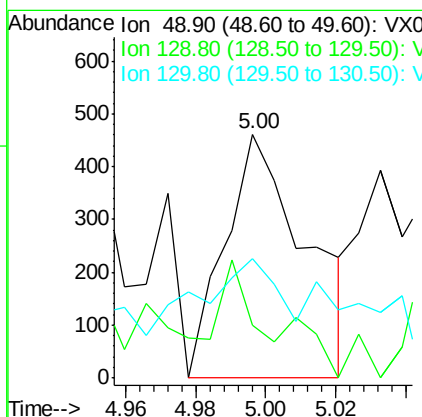
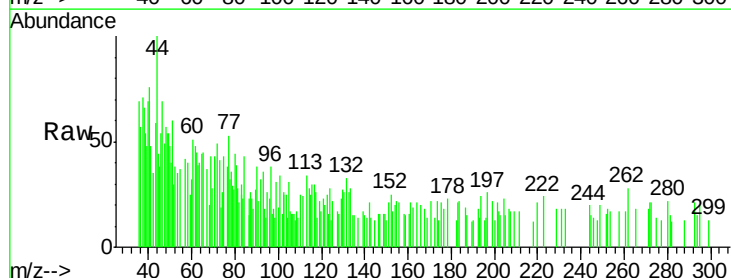
Instrument :
MSVOA_X
ClientSampled :
TB-20200303

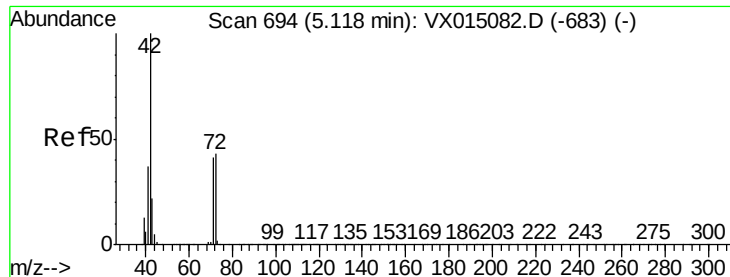
Tgt Ion: 43 Resp: 1528
Ion Ratio Lower Upper
43 100
72 0.0 20.6 30.8#



#28
Bromochloromethane
Concen: 0.24 ug/l
RT: 5.00 min Scan# 674
Delta R.T. -0.01 min
Lab File: VX015134.D
Acq: 09 Mar 2020 11:58

Tgt Ion: 49 Resp: 742
Ion Ratio Lower Upper
49 100
129 29.0 0.0 4.4#
130 28.4 65.0 97.6#





#29

Tetrahydrofuran

Concen: 0.50 ug/l

RT: 5.01 min Scan# 677

Delta R.T. -0.10 min

Lab File: VX015134.D

Acq: 09 Mar 2020 11:58

Instrument :

MSVOA_X

ClientSampleId :

TB-20200303

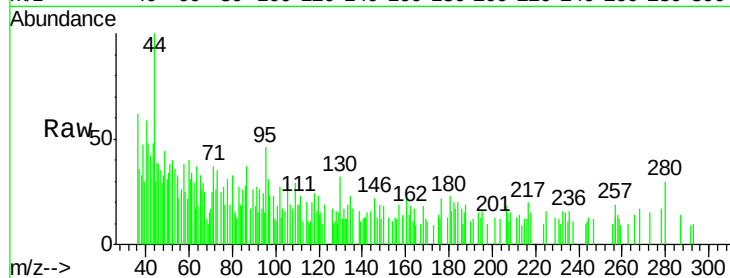
Tgt Ion: 42 Resp: 835

Ion Ratio Lower Upper

42 100

72 43.1 36.4 54.6

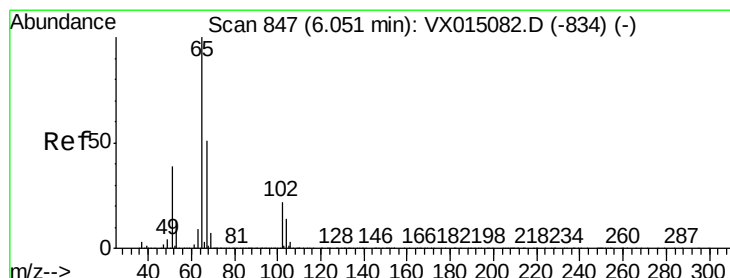
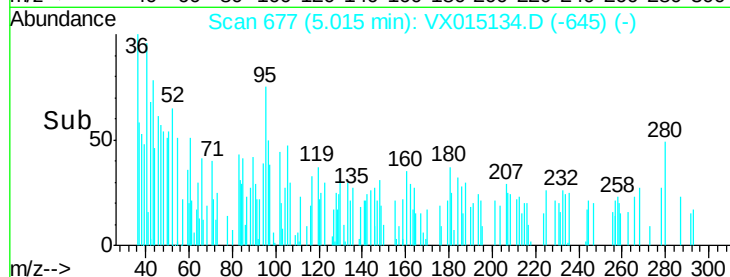
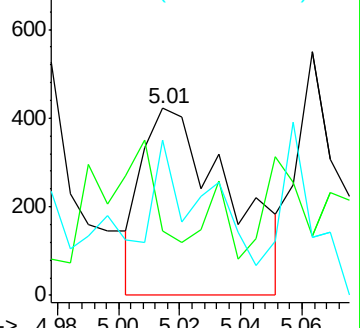
71 35.3 33.3 49.9



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 50.87 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX015134.D

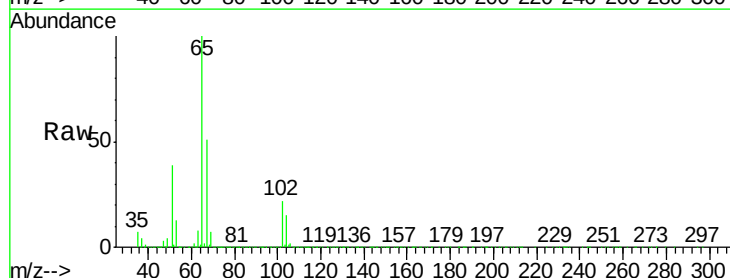
Acq: 09 Mar 2020 11:58

Tgt Ion: 65 Resp: 220688

Ion Ratio Lower Upper

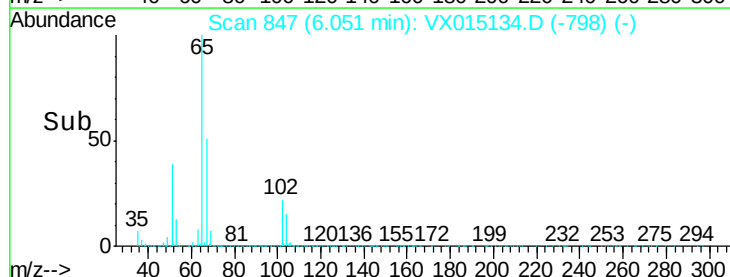
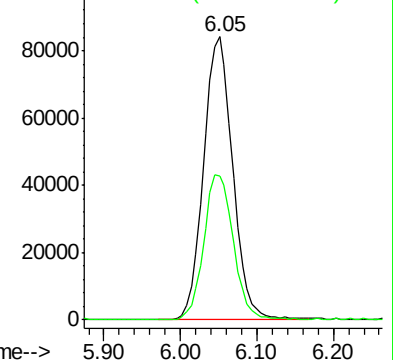
65 100

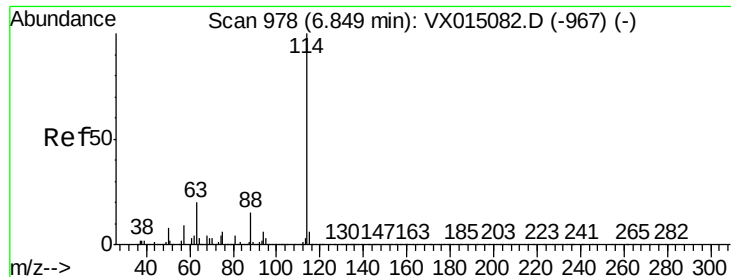
67 51.8 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

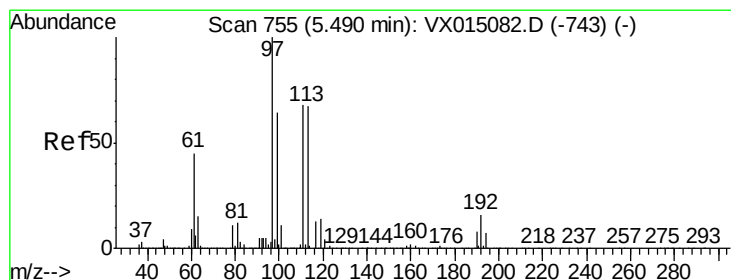
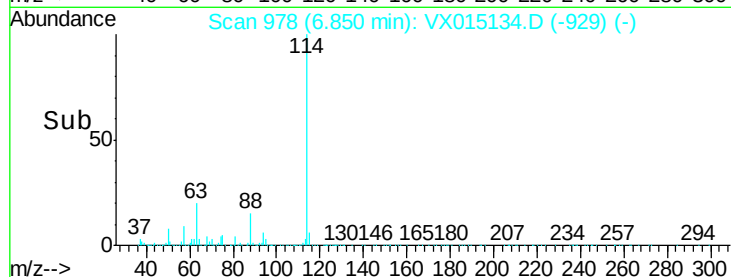
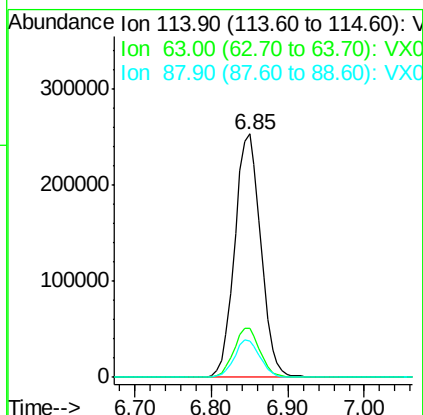
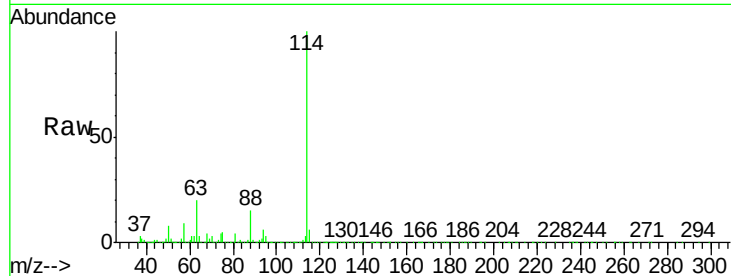




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX015134.D
 Acq: 09 Mar 2020 11:58

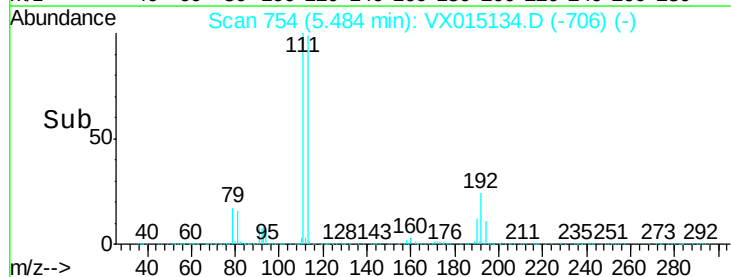
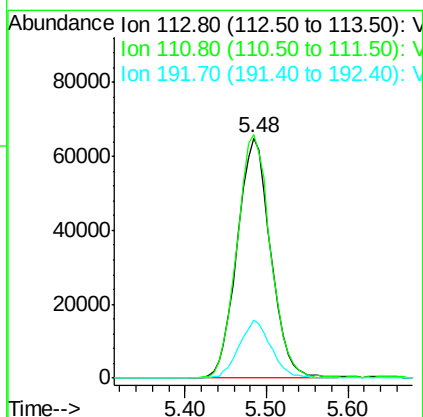
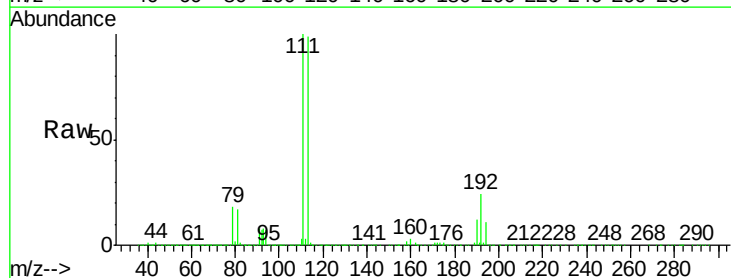
Instrument :
 MSVOA_X
 ClientSampleId :
 TB-20200303

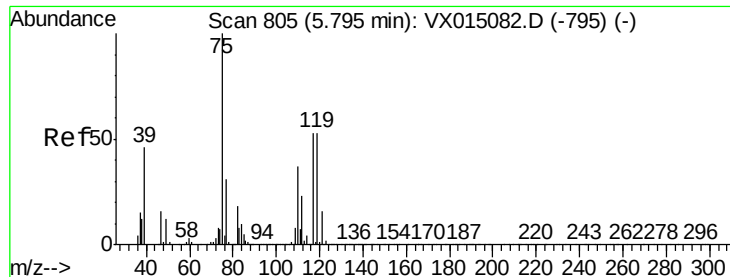
Tgt Ion:	114	Resp:	597311
Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	40.0
88	15.0	0.0	30.6



#35
 Dibromofluoromethane
 Concen: 48.97 ug/l
 RT: 5.48 min Scan# 754
 Delta R.T. -0.01 min
 Lab File: VX015134.D
 Acq: 09 Mar 2020 11:58

Tgt Ion:	113	Resp:	184548
Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.6	123.8
192	23.1	18.6	28.0

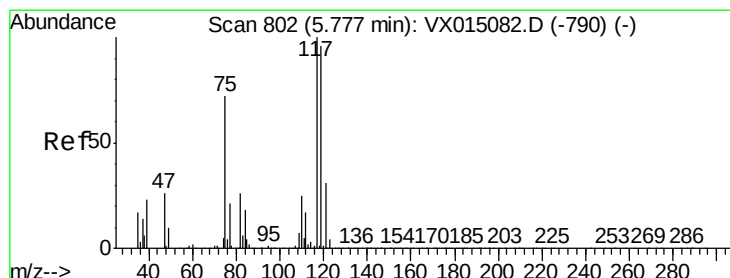
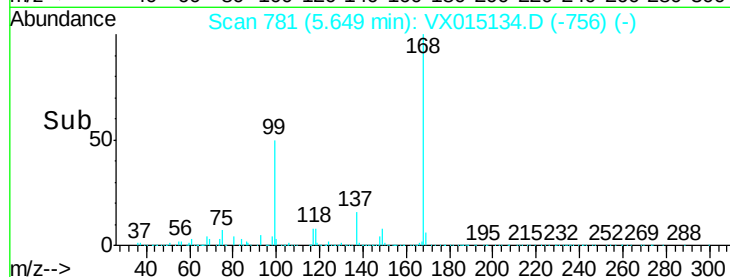
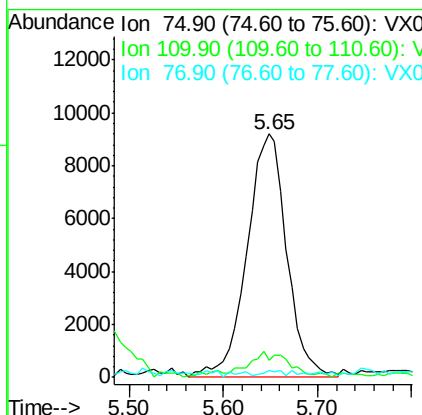
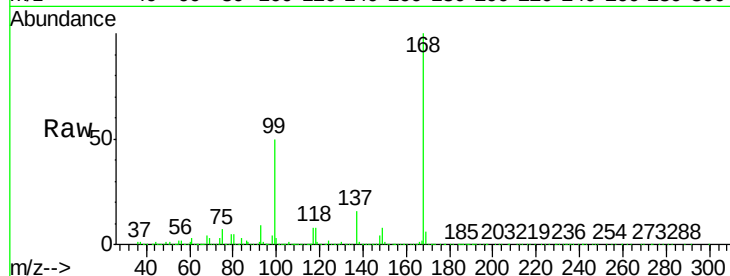




#36
 1,1-Dichloropropene
 Concen: 4.94 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.15 min
 Lab File: VX015134.D
 Acq: 09 Mar 2020 11:58

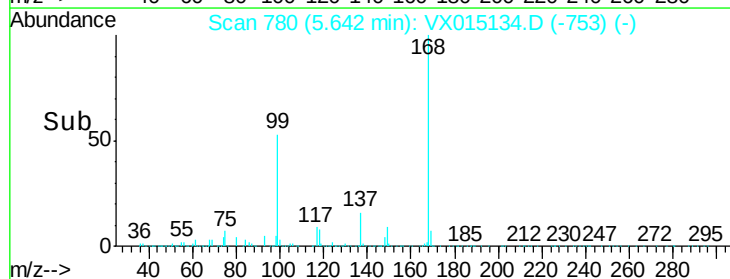
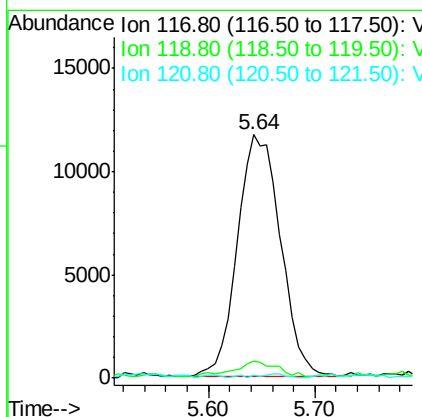
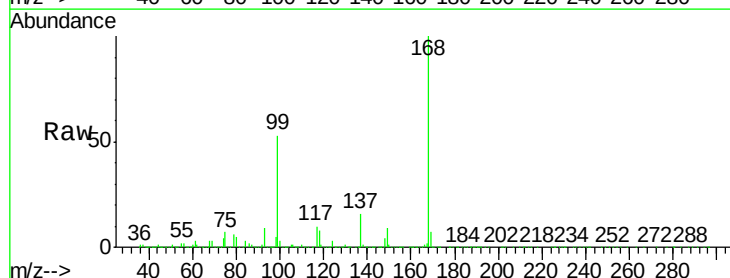
Instrument :
 MSVOA_X
 ClientSampleId :
 TB-20200303

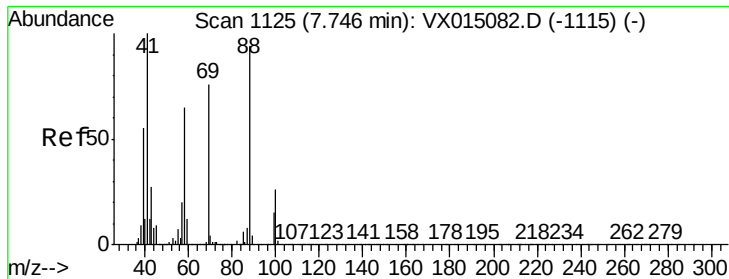
Tgt Ion: 75 Resp: 27268
 Ion Ratio Lower Upper
 75 100
 110 4.1 17.9 53.8#
 77 0.8 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 6.42 ug/l
 RT: 5.64 min Scan# 780
 Delta R.T. -0.13 min
 Lab File: VX015134.D
 Acq: 09 Mar 2020 11:58

Tgt Ion: 117 Resp: 33460
 Ion Ratio Lower Upper
 117 100
 119 6.1 76.9 115.3#
 121 0.2 24.6 37.0#

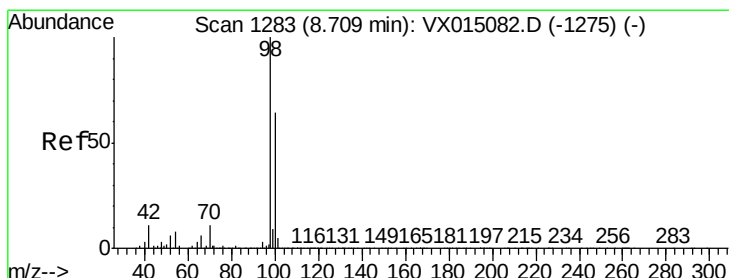
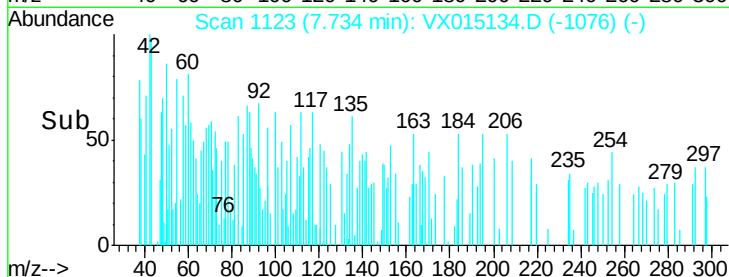
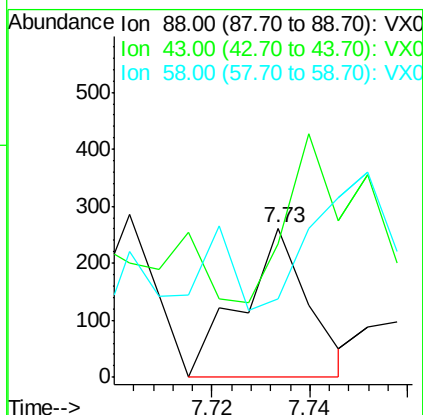
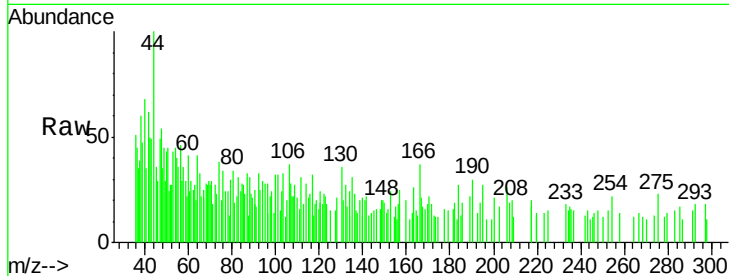




#49
1,4-Dioxane
Concen: 2.48 ug/l
RT: 7.73 min Scan# 1123
Delta R.T. -0.01 min
Lab File: VX015134.D
Acq: 09 Mar 2020 11:58

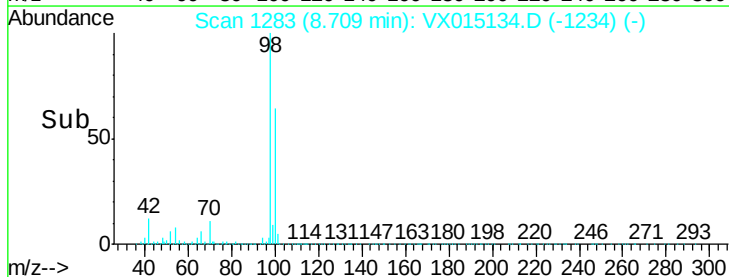
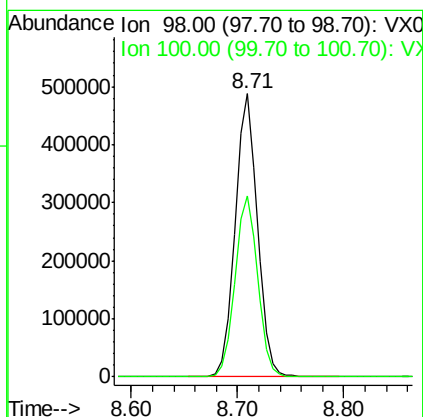
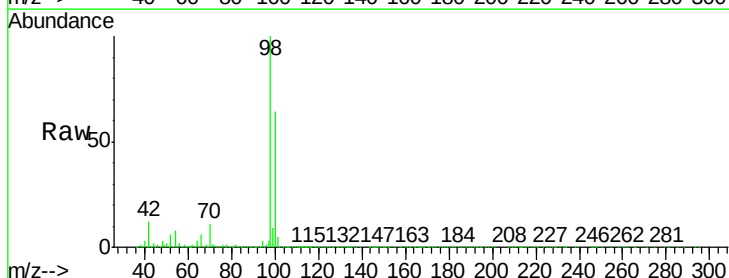
Instrument :
MSVOA_X
ClientSampleId :
TB-20200303

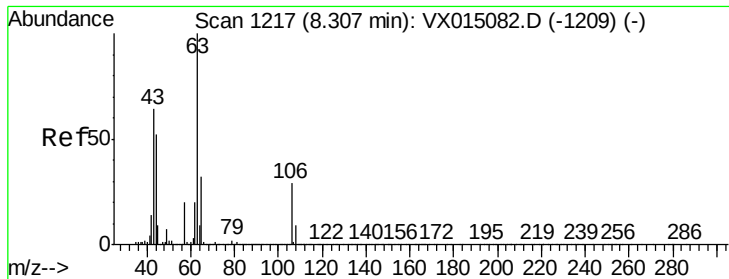
Tgt Ion: 88 Resp: 246
Ion Ratio Lower Upper
88 100
43 186.2 27.0 40.4#
58 220.3 55.6 83.4#



#50
Toluene-d8
Concen: 50.13 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX015134.D
Acq: 09 Mar 2020 11:58

Tgt Ion: 98 Resp: 718627
Ion Ratio Lower Upper
98 100
100 65.0 52.4 78.6

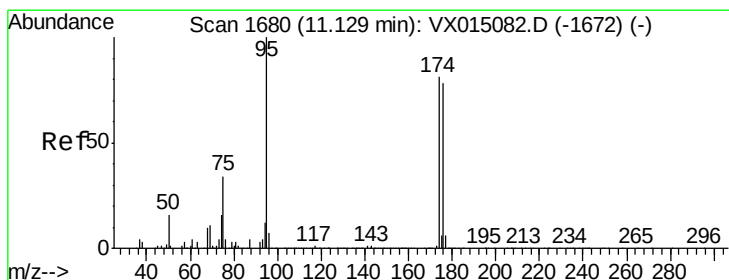
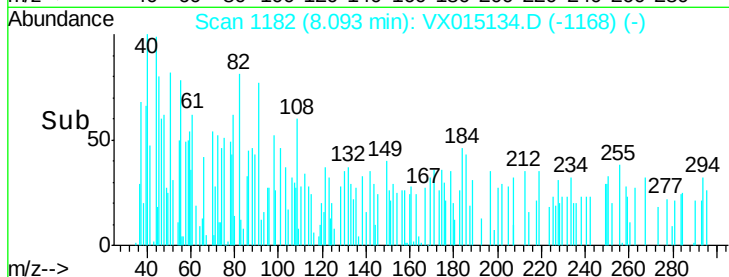
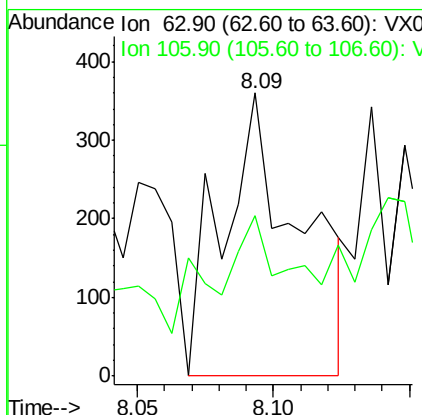
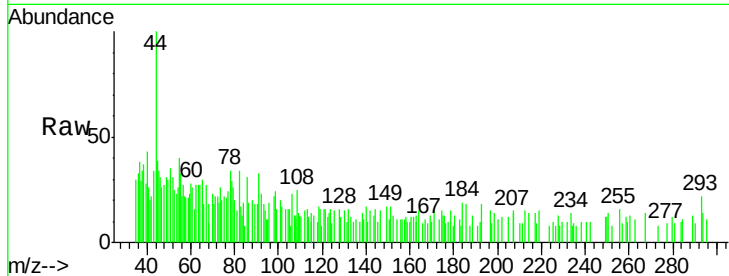




#58
 2-Chloroethyl Vinyl ether
 Concen: 0.22 ug/l
 RT: 8.09 min Scan# 1182
 Delta R.T. -0.21 min
 Lab File: VX015134.D
 Acq: 09 Mar 2020 11:58

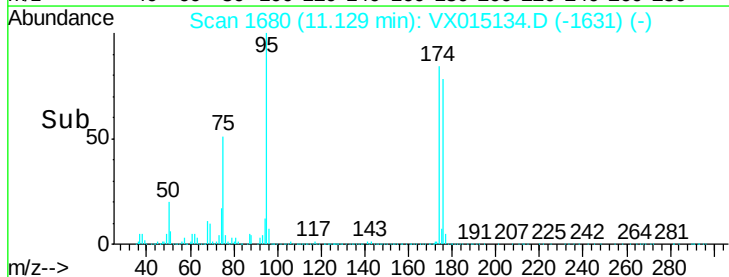
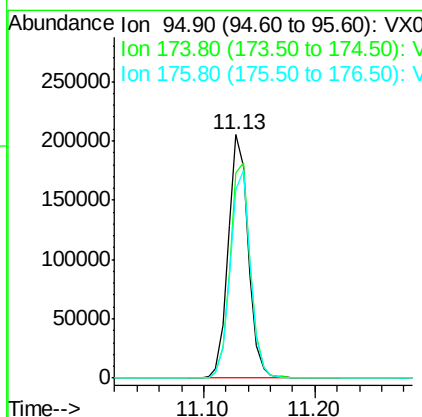
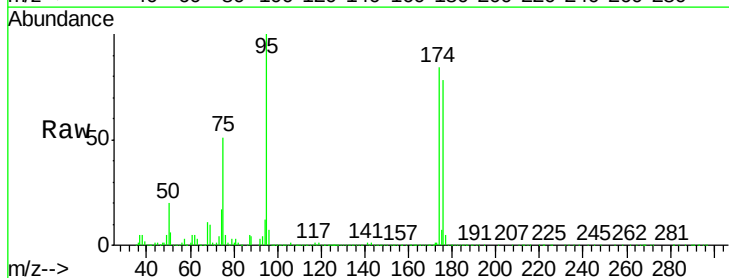
Instrument :
 MSVOA_X
 ClientSampleId :
 TB-20200303

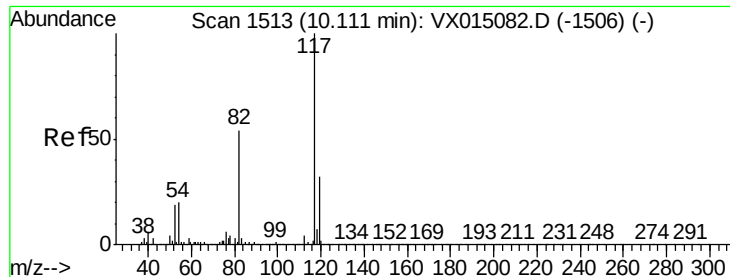
Tgt Ion: 63 Resp: 707
 Ion Ratio Lower Upper
 63 100
 106 31.7 22.8 34.2



#62
 4-Bromofluorobenzene
 Concen: 49.84 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. 0.00 min
 Lab File: VX015134.D
 Acq: 09 Mar 2020 11:58

Tgt Ion: 95 Resp: 254841
 Ion Ratio Lower Upper
 95 100
 174 89.3 0.0 177.6
 176 85.8 0.0 170.2

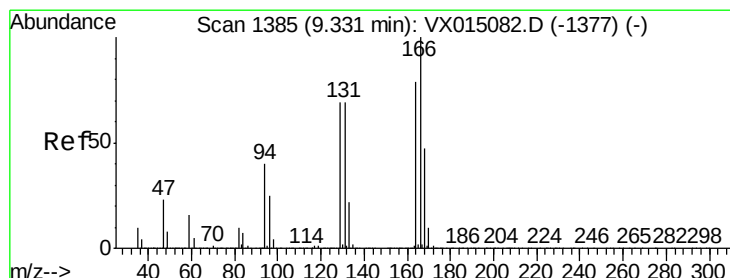
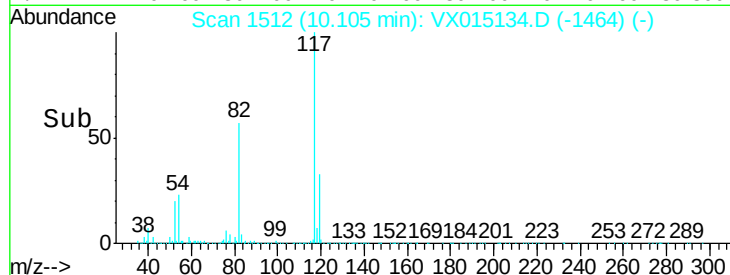
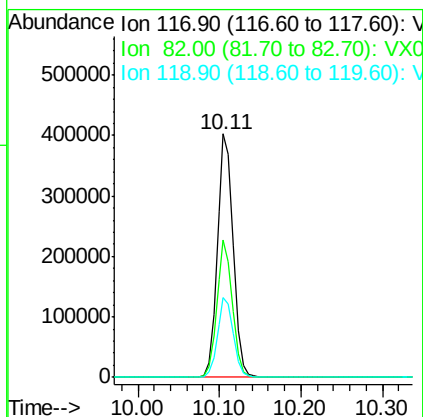
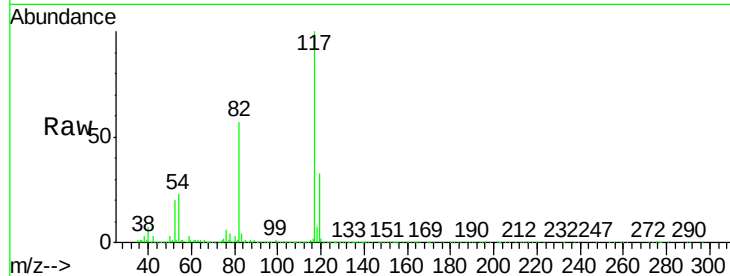




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.11 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX015134.D
Acq: 09 Mar 2020 11:58

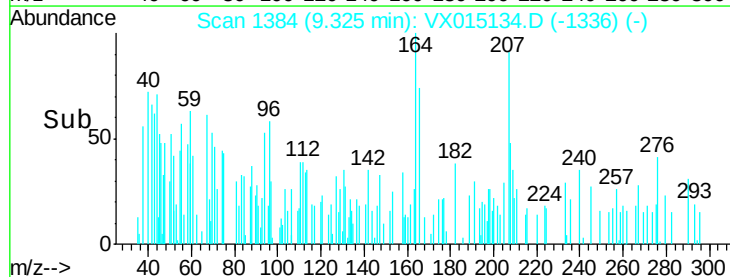
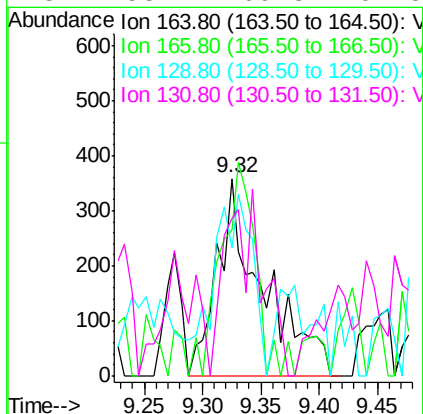
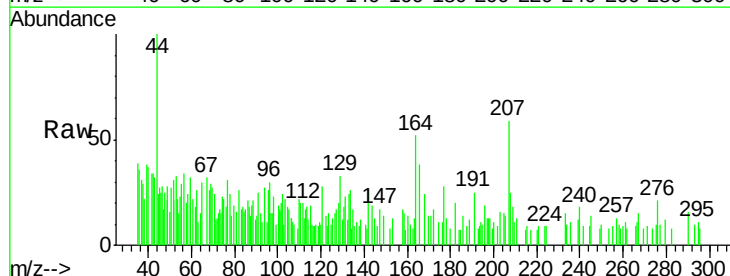
Instrument :
MSVOA_X
ClientSampled :
TB-20200303

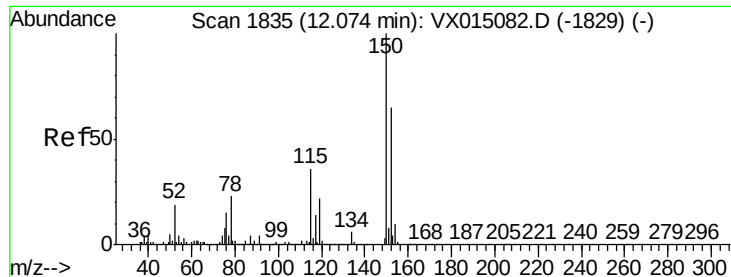
Tgt Ion:117 Resp: 552694
Ion Ratio Lower Upper
117 100
82 56.5 43.3 64.9
119 32.5 25.8 38.8



#64
Tetrachloroethene
Concen: 0.21 ug/l
RT: 9.32 min Scan# 1384
Delta R.T. -0.01 min
Lab File: VX015134.D
Acq: 09 Mar 2020 11:58

Tgt Ion:164 Resp: 974
Ion Ratio Lower Upper
164 100
166 73.8 101.1 151.7#
129 46.5 69.4 104.0#
131 53.2 69.8 104.8#

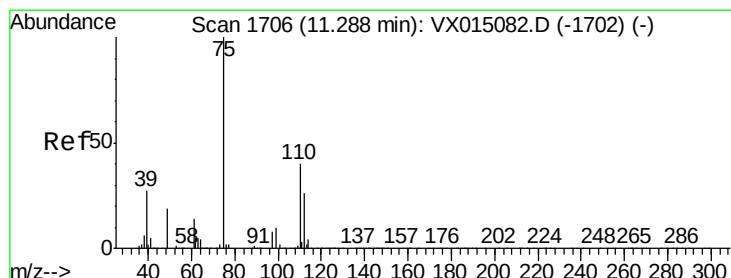
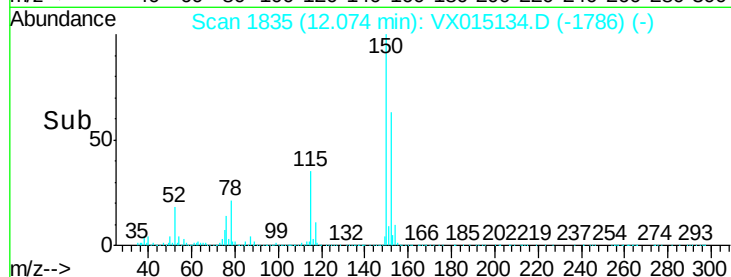
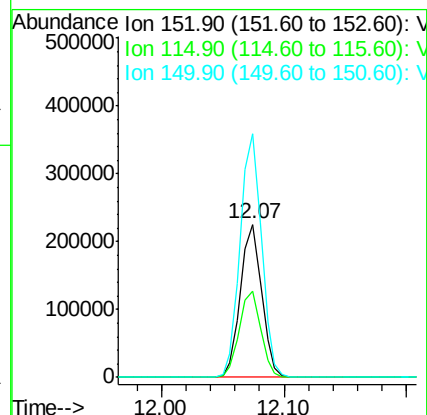
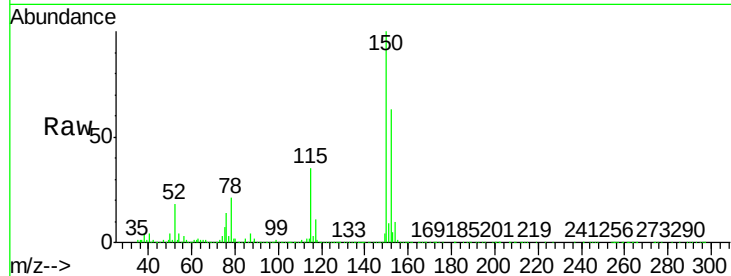




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.00 ug/l
 RT: 12.07 min Scan# 1835
 Delta R.T. 0.00 min
 Lab File: VX015134.D
 Acq: 09 Mar 2020 11:58

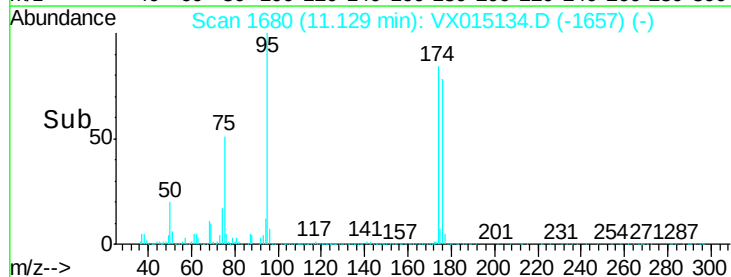
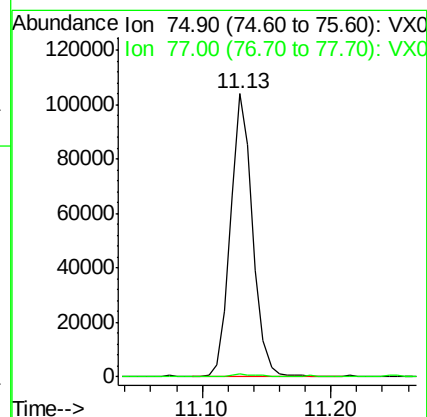
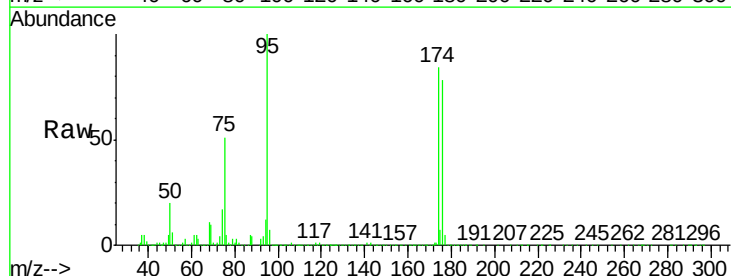
Instrument :
 MSVOA_X
 ClientSampleId :
 TB-20200303

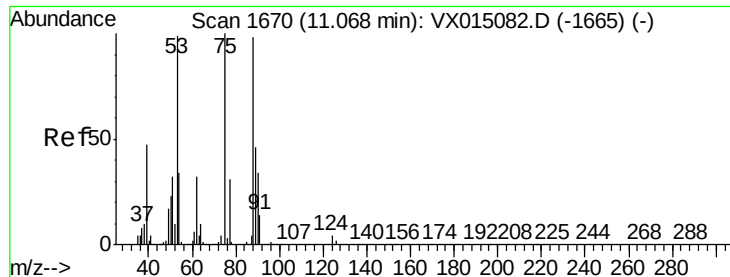
Tgt Ion: 152 Resp: 270423
 Ion Ratio Lower Upper
 152 100
 115 57.4 38.2 114.6
 150 159.9 0.0 343.8



#76
 1,2,3-Trichloropropane
 Concen: 23.27 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.16 min
 Lab File: VX015134.D
 Acq: 09 Mar 2020 11:58

Tgt Ion: 75 Resp: 125533
 Ion Ratio Lower Upper
 75 100
 77 1.5 22.6 67.8#





#81

trans-1,4-Dichloro-2-butene

Concen: 66.05 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX015134.D

Acq: 09 Mar 2020 11:58

Instrument :

MSVOA_X

ClientSampled :

TB-20200303

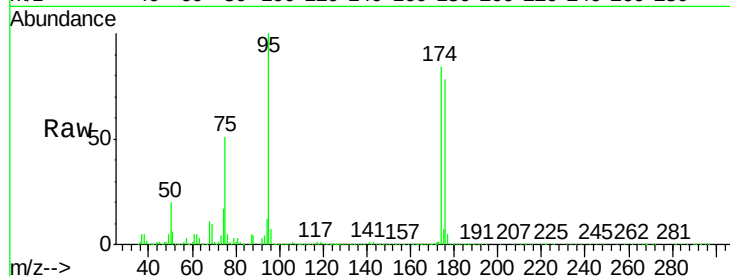
Tgt Ion: 75 Resp: 125533

Ion Ratio Lower Upper

75 100

53 0.4 77.9 116.9#

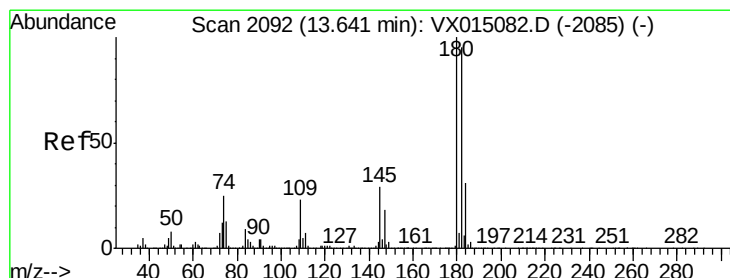
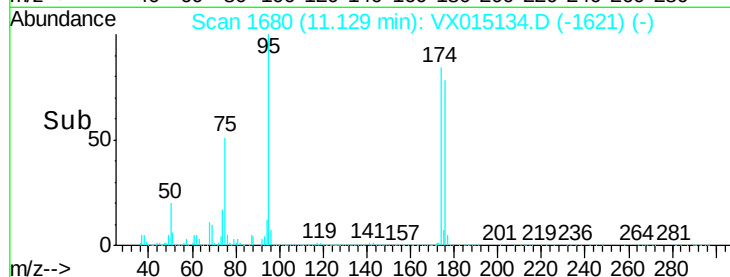
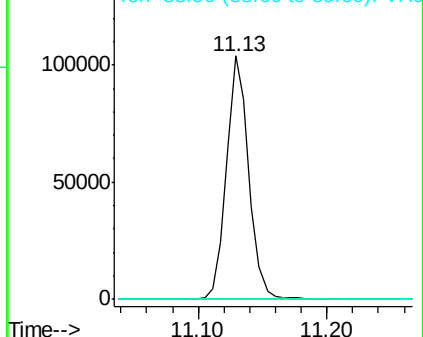
89 0.2 36.2 54.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#93

1,2,4-Trichlorobenzene

Concen: 0.35 ug/l

RT: 13.64 min Scan# 2092

Delta R.T. 0.00 min

Lab File: VX015134.D

Acq: 09 Mar 2020 11:58

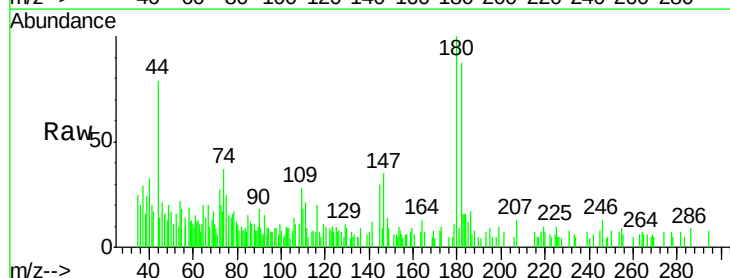
Tgt Ion: 180 Resp: 2024

Ion Ratio Lower Upper

180 100

182 79.9 47.6 142.8

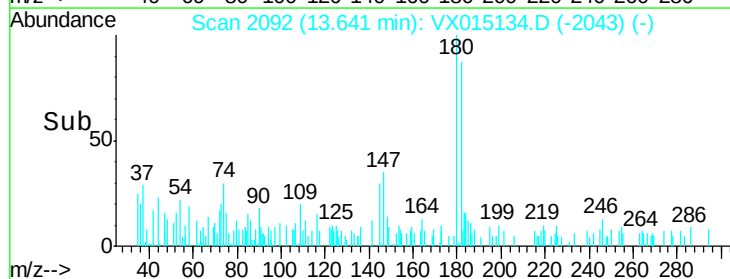
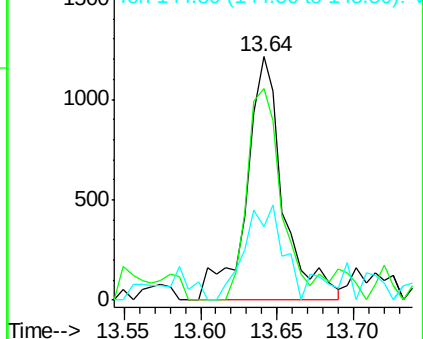
145 40.2 14.1 42.2

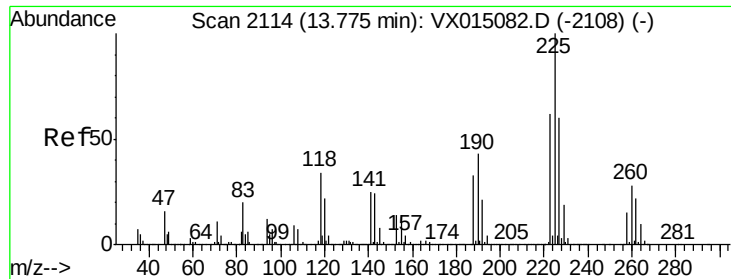


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.26 ug/l

RT: 13.78 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VX015134.D

Acq: 09 Mar 2020 11:58

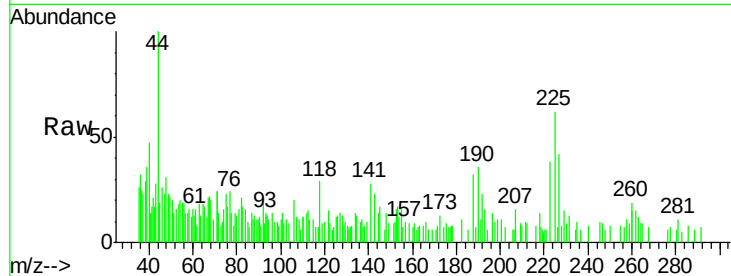
Instrument :

MSVOA_X

ClientSampled :

TB-20200303

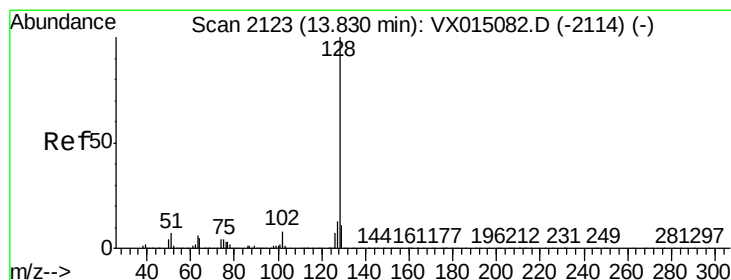
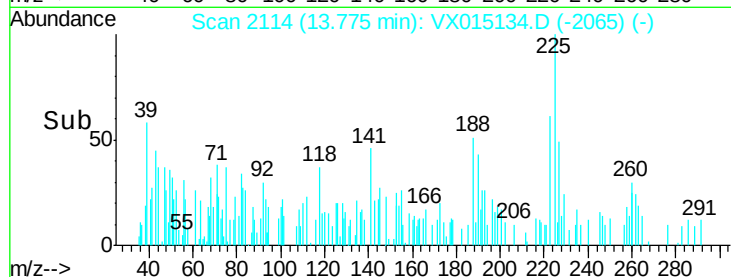
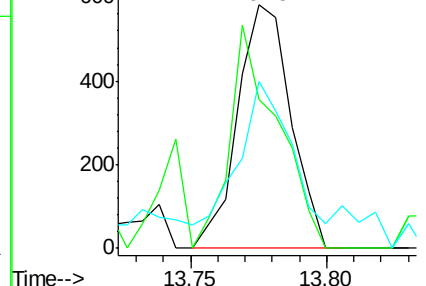
Tgt Ion:	225	Resp:	787
Ion	Ratio	Lower	Upper
225	100		
223	82.6	31.3	93.9
227	54.0	31.1	93.2



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 1.60 ug/l

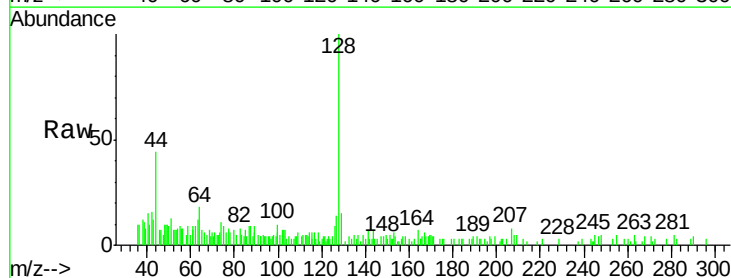
RT: 13.82 min Scan# 2122

Delta R.T. -0.01 min

Lab File: VX015134.D

Acq: 09 Mar 2020 11:58

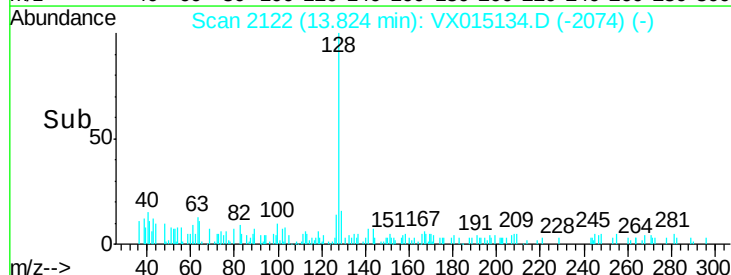
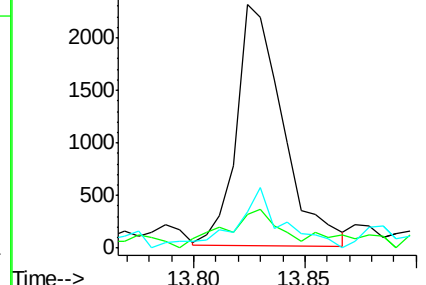
Tgt Ion:	128	Resp:	3347
Ion	Ratio	Lower	Upper
128	100		
127	18.7	10.3	15.5#
129	24.6	8.6	13.0#

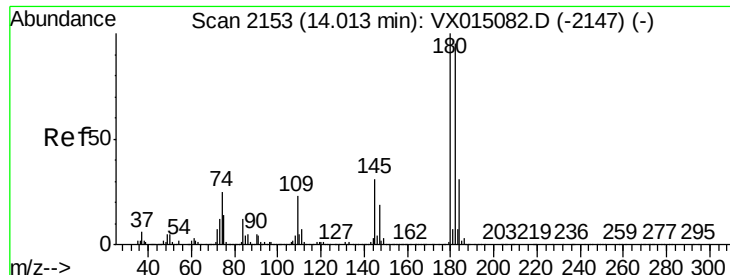


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.28 ug/l
 RT: 14.01 min Scan# 2153
 Delta R.T. 0.00 min
 Lab File: VX015134.D
 Acq: 09 Mar 2020 11:58

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-20200303

Tgt Ion	Ratio	Lower	Upper
180	100		
182	122.9	47.8	143.4
145	40.5	15.1	45.3

