

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX092520\
 Data File : VX018593.D
 Acq On : 25 Sep 2020 14:28
 Operator : JC/SP
 Sample : L4145-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CTB-WEST-(MANHOLE-1)RE

Quant Time: Sep 25 15:15:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X090420W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 04 12:13:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.99	128	88913	30.00	ug/l	0.01
28) 1,4-Difluorobenzene	6.84	114	496524	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	483224	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	239805	34.19	ug/l	0.00
Spiked Amount 30.000	Range 50 - 169		Recovery	=	113.97%	
60) 4-Bromofluorobenzene	11.12	95	225251	26.89	ug/l	0.00
Spiked Amount 30.000	Range 56 - 143		Recovery	=	89.63%	
63) Toluene-d8	8.70	98	585255	27.48	ug/l	0.00
Spiked Amount 30.000	Range 66 - 137		Recovery	=	91.60%	

Target Compounds

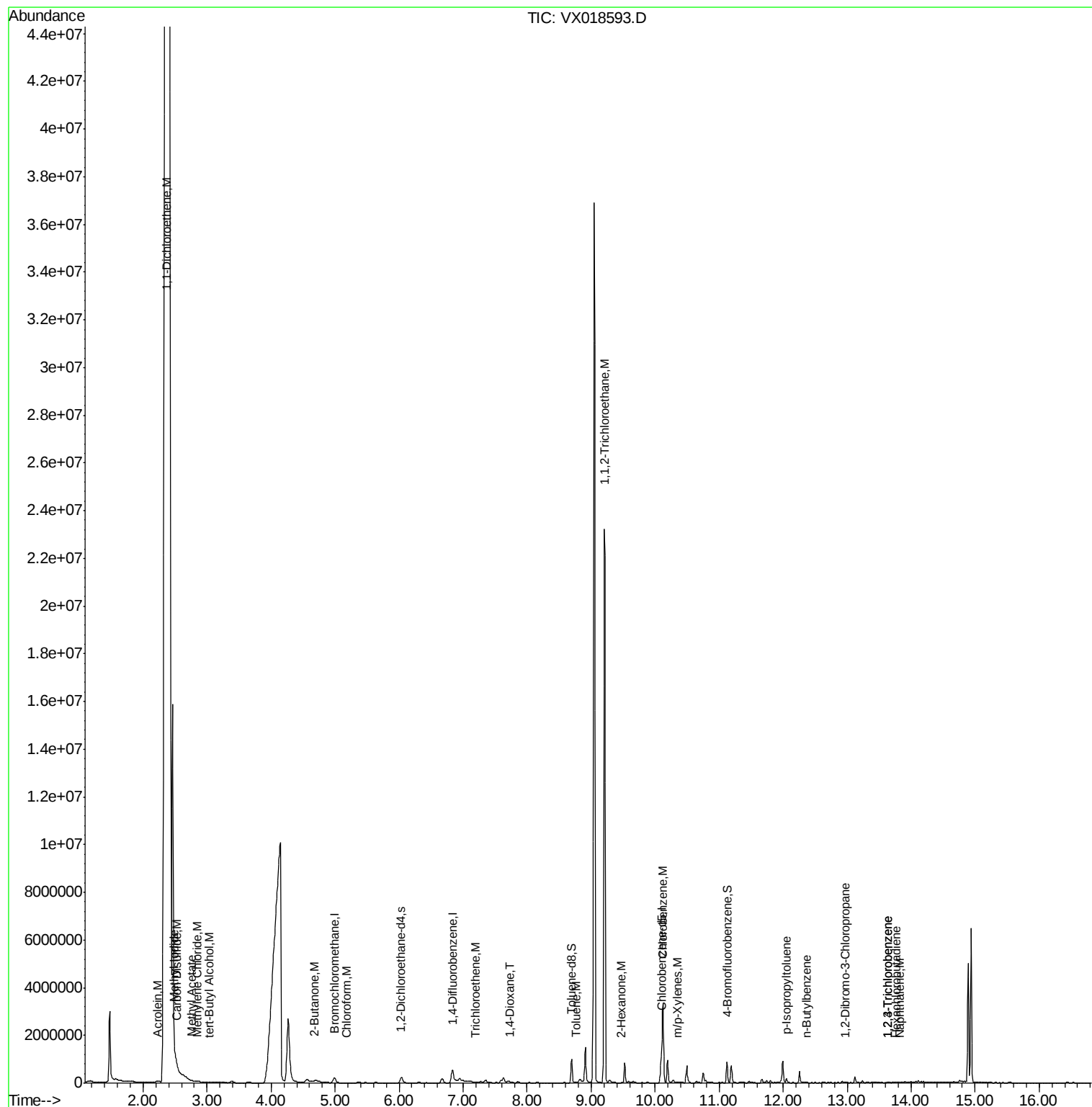
					Qvalue	
10) 1,1-Dichloroethene	2.36	96	1131	0.253	ug/l #	1
11) Methyl Iodide	2.50	142	715	7.661	ug/l #	45
12) Methyl Acetate	2.75	43	4869	0.827	ug/l	93
13) Acrolein	2.22	56	203	0.427	ug/l	100
16) Carbon Disulfide	2.54	76	88263	6.777	ug/l	98
18) Methylene Chloride	2.84	84	2495	0.475	ug/l #	77
23) tert-Butyl Alcohol	3.03	59	562	0.486	ug/l #	41
25) Chloroform	5.18	83	3112	0.321	ug/l	97
30) 2-Butanone	4.67	43	36734	8.852	ug/l #	60
37) Trichloroethene	7.19	130	1702	0.272	ug/l	98
45) 1,4-Dioxane	7.73	88	213	1.917	ug/l #	22
50) 1,1,2-Trichloroethane	9.21	97	8655	1.484	ug/l #	1
59) 2-Hexanone	9.47	43	2976	0.473	ug/l #	55
62) Toluene	8.76	91	12606	0.518	ug/l	96
64) Chlorobenzene	10.12	112	3234	0.207	ug/l	94
67) m/p-Xylenes	10.34	106	2464	0.240	ug/l	89
82) p-Isopropyltoluene	12.05	119	72870	2.953	ug/l	99
85) n-Butylbenzene	12.37	91	4446	0.205	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	12.97	75	2737	1.212	ug/l #	8
89) 1,2,4-Trichlorobenzene	13.63	180	3057	0.365	ug/l #	87
90) Hexachlorobutadiene	13.77	225	2346	0.662	ug/l	97
91) Naphthalene	13.82	128	7443	0.285	ug/l #	95
92) 1,2,3-Trichlorobenzene	13.63	180	3057	0.369	ug/l	89

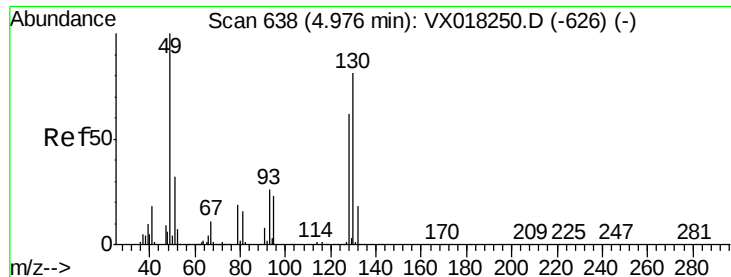
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 25 15:15:32 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\624X090420W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 04 12:13:41 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.99 min Scan# 640

Delta R.T. 0.01 min

Lab File: VX018593.D

Acq: 25 Sep 2020 14:28

Instrument :

MSVOA_X

ClientSampleId :

CTB-WEST-(MANHOLE-1)RE

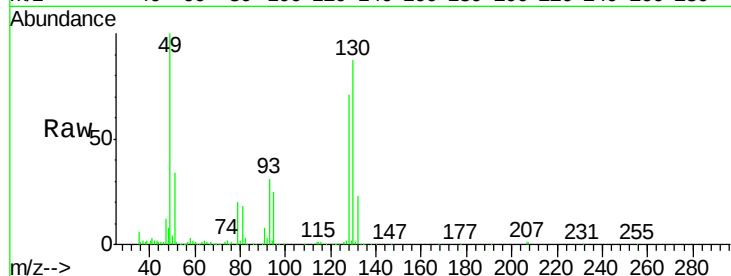
Tgt Ion:128 Resp: 88913

Ion Ratio Lower Upper

128 100

49 152.6 0.0 392.0

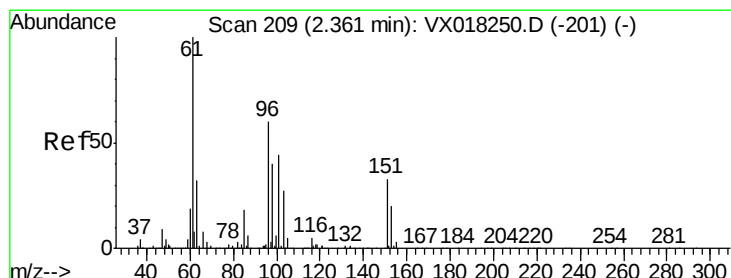
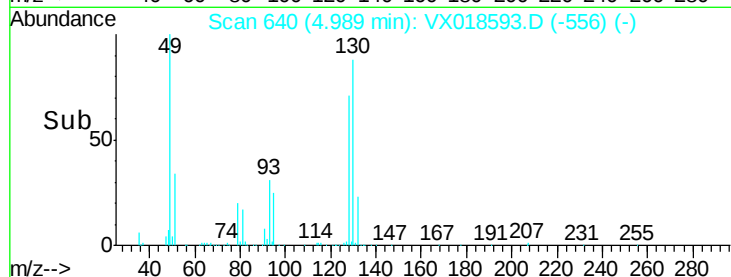
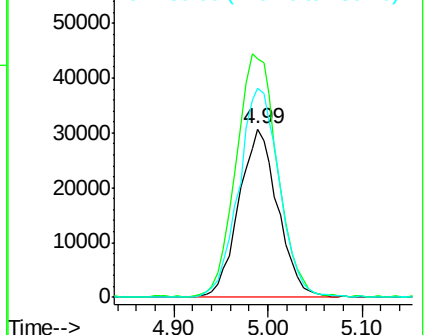
130 129.6 0.0 320.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#10

1,1-Dichloroethene

Concen: 0.253 ug/l

RT: 2.36 min Scan# 208

Delta R.T. -0.01 min

Lab File: VX018593.D

Acq: 25 Sep 2020 14:28

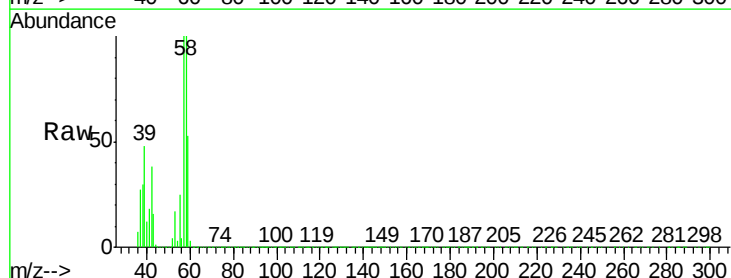
Tgt Ion: 96 Resp: 1131

Ion Ratio Lower Upper

96 100

61 0.0 132.5 198.7#

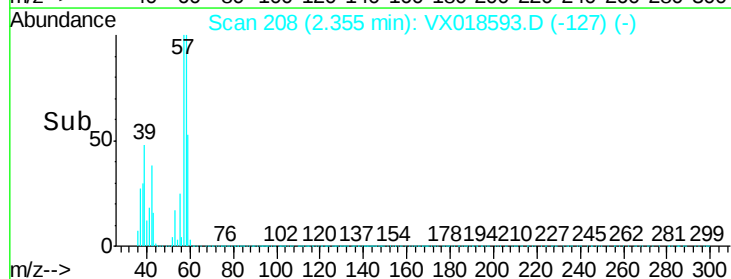
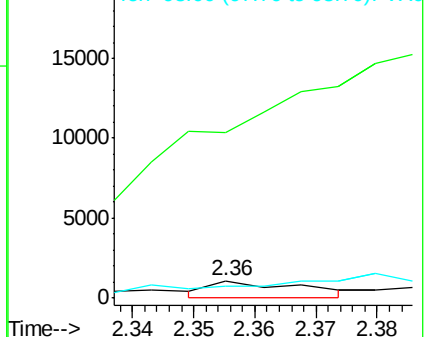
98 27.8 52.4 78.6#

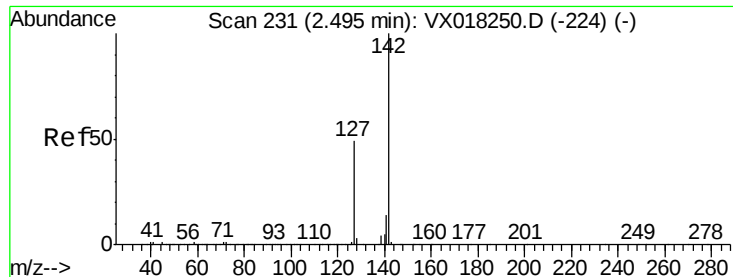


Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

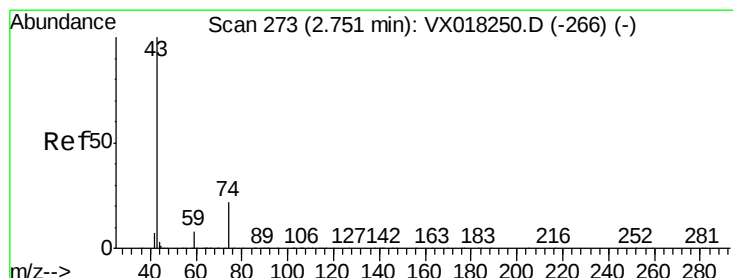
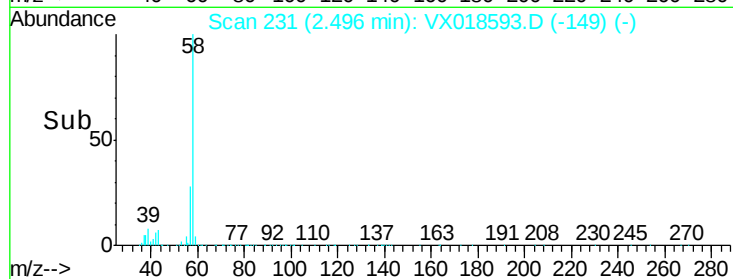
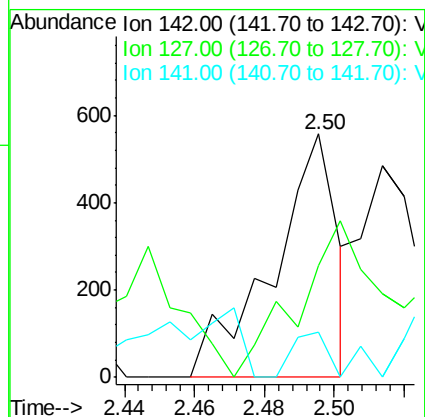
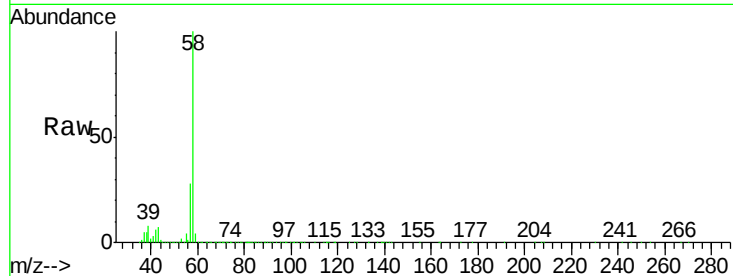




#11
Methyl Iodide
Concen: 7.661 ug/l
RT: 2.50 min Scan# 231
Delta R.T. 0.00 min
Lab File: VX018593.D
Acq: 25 Sep 2020 14:28

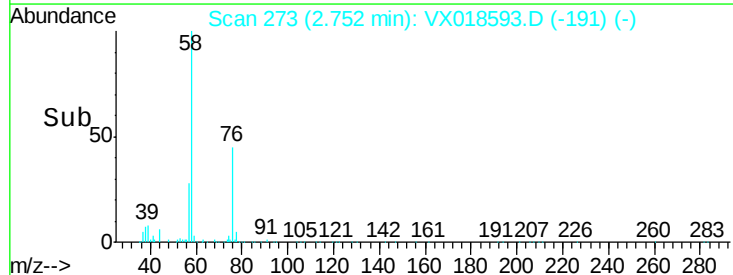
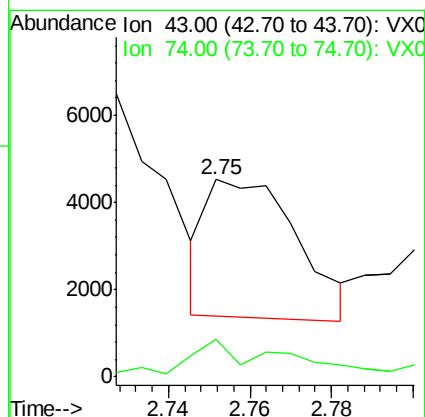
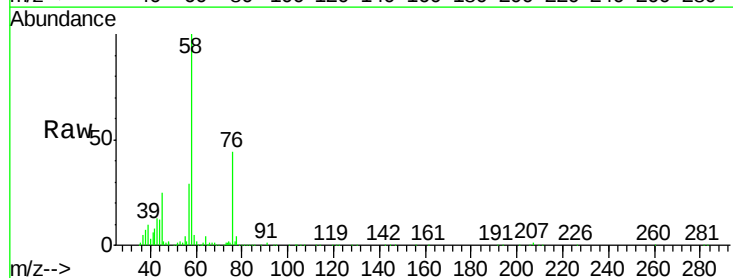
Instrument :
MSVOA_X
ClientSampleId :
CTB-WEST-(MANHOLE-1)RE

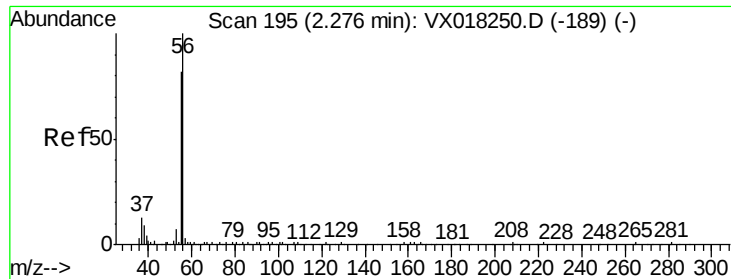
Tgt Ion:142 Resp: 715
Ion Ratio Lower Upper
142 100
127 1.1 24.6 74.0#
141 15.1 7.0 21.0



#12
Methyl Acetate
Concen: 0.827 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.00 min
Lab File: VX018593.D
Acq: 25 Sep 2020 14:28

Tgt Ion: 43 Resp: 4869
Ion Ratio Lower Upper
43 100
74 25.8 18.0 27.0





#13

Acrolein

Concen: 0.427 ug/l

RT: 2.22 min Scan# 186

Delta R.T. -0.05 min

Lab File: VX018593.D

Acq: 25 Sep 2020 14:28

Instrument :

MSVOA_X

ClientSampleId :

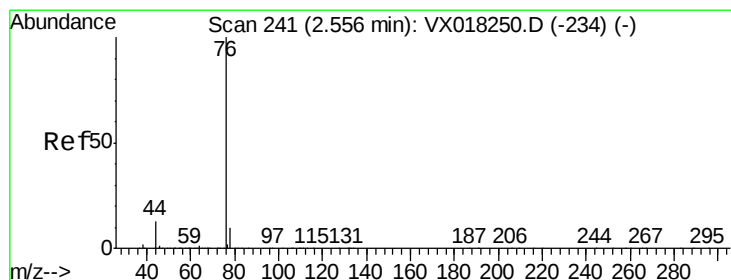
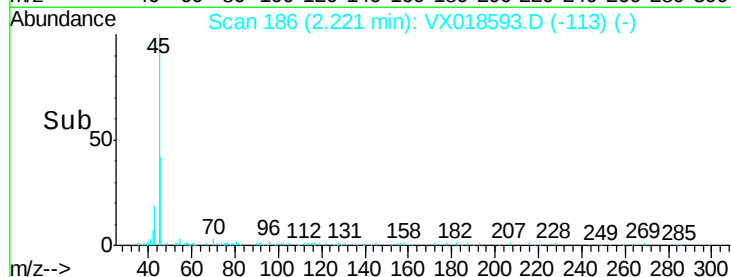
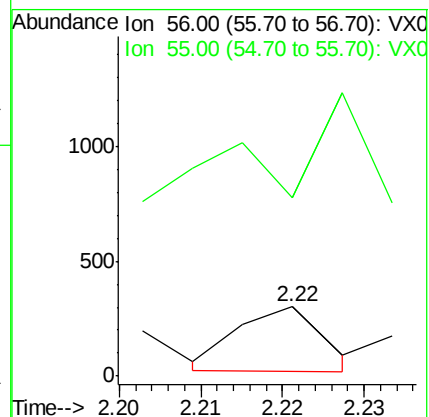
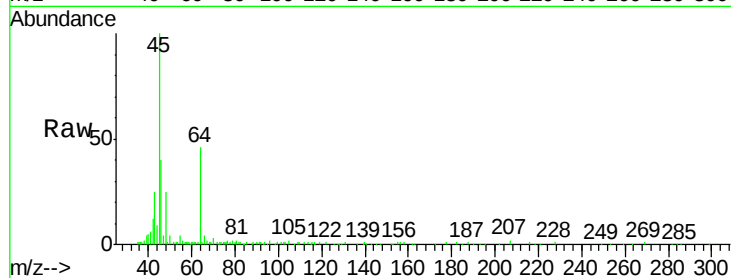
CTB-WEST-(MANHOLE-1)RE

Tgt Ion: 56 Resp: 203

Ion Ratio Lower Upper

56 100

55 74.4 59.7 89.5



#16

Carbon Disulfide

Concen: 6.777 ug/l

RT: 2.54 min Scan# 238

Delta R.T. -0.02 min

Lab File: VX018593.D

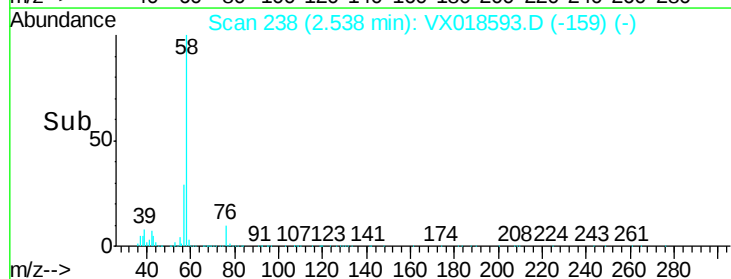
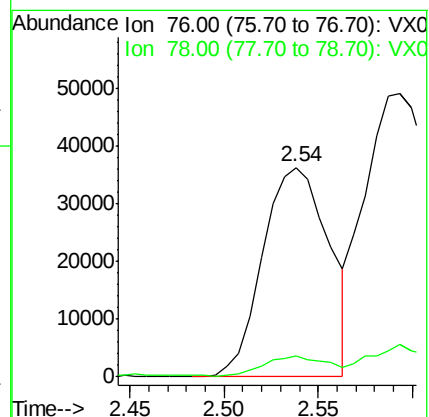
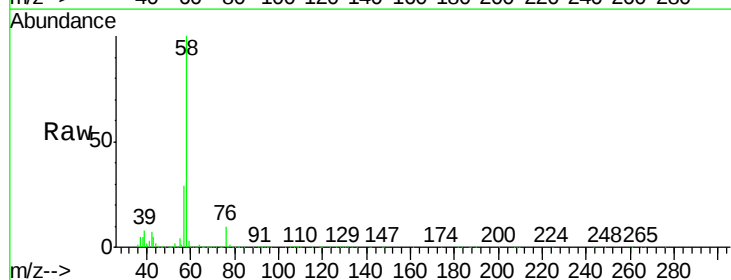
Acq: 25 Sep 2020 14:28

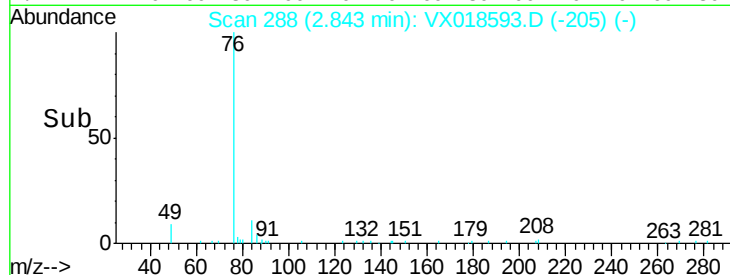
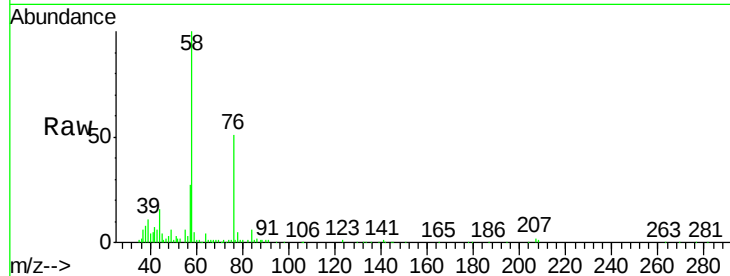
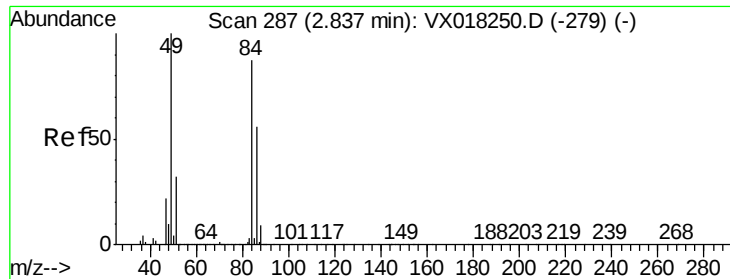
Tgt Ion: 76 Resp: 88263

Ion Ratio Lower Upper

76 100

78 8.9 7.8 11.6

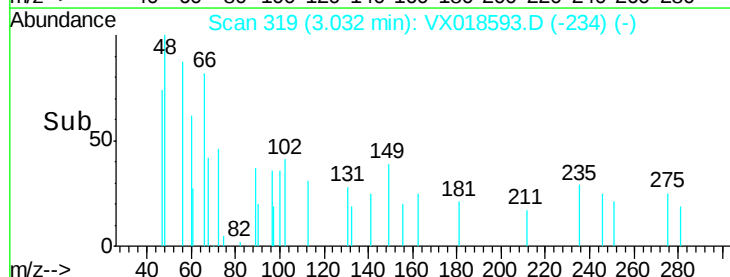
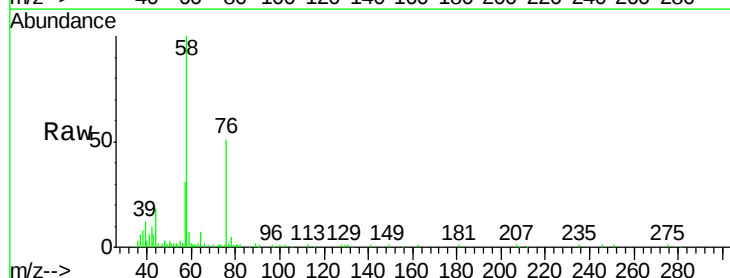
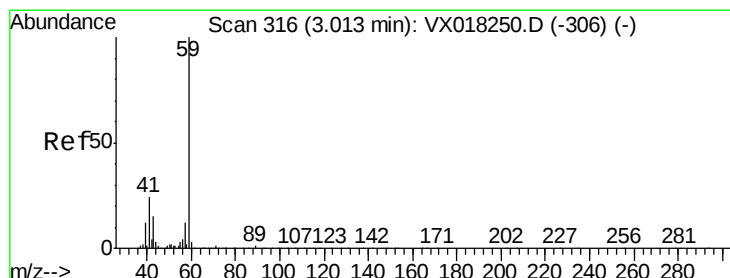
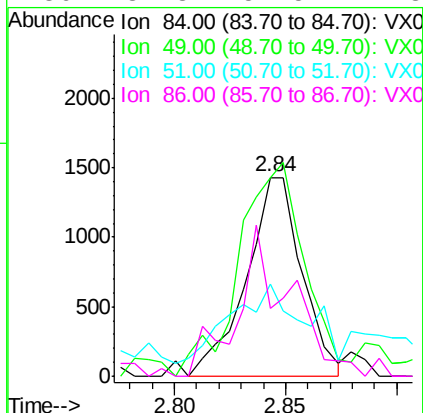




#18
Methylene Chloride
Concen: 0.475 ug/l
RT: 2.84 min Scan# 288
Delta R.T. 0.01 min
Lab File: VX018593.D
Acq: 25 Sep 2020 14:28

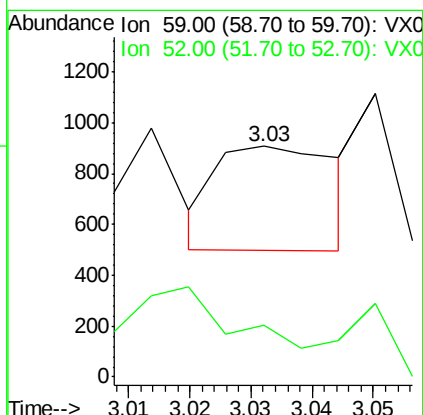
Instrument :
MSVOA_X
ClientSampleId :
CTB-WEST-(MANHOLE-1)RE

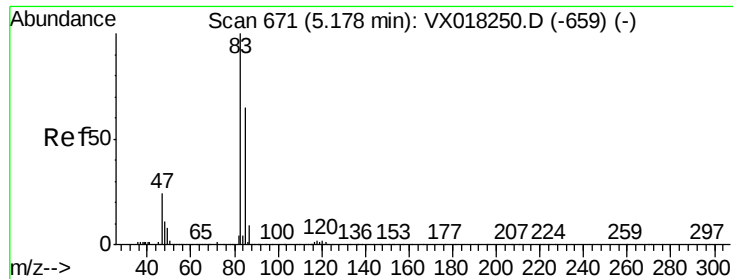
Tgt Ion:	84	Resp:	2495
Ion	Ratio	Lower	Upper
84	100		
49	91.5	91.6	137.4#
51	38.9	29.4	44.0
86	34.3	51.5	77.3#



#23
tert-Butyl Alcohol
Concen: 0.486 ug/l
RT: 3.03 min Scan# 319
Delta R.T. 0.02 min
Lab File: VX018593.D
Acq: 25 Sep 2020 14:28

Tgt Ion:	59	Resp:	562
Ion	Ratio	Lower	Upper
59	100		
52	38.6	0.4	0.6#





#25

Chloroform

Concen: 0.321 ug/l

RT: 5.18 min Scan# 672

Delta R.T. 0.01 min

Lab File: VX018593.D

Acq: 25 Sep 2020 14:28

Instrument :

MSVOA_X

ClientSampleId :

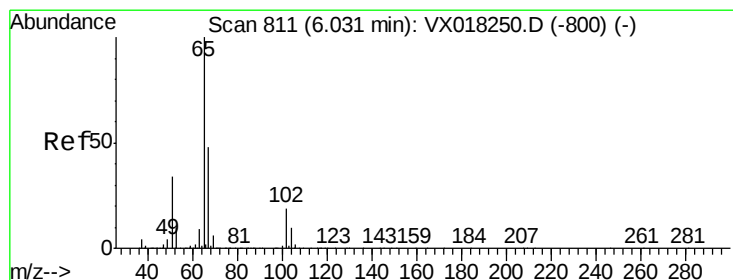
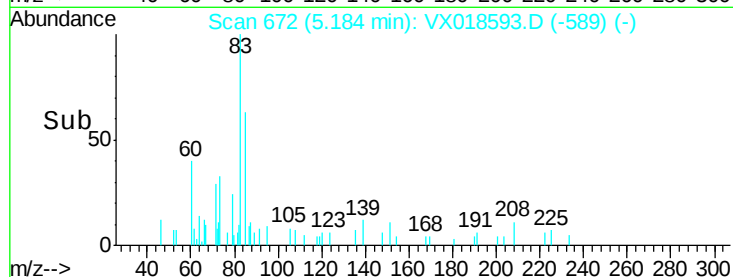
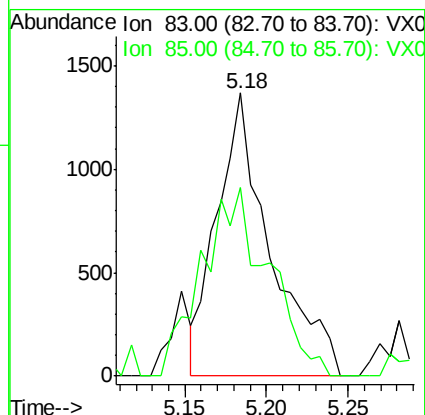
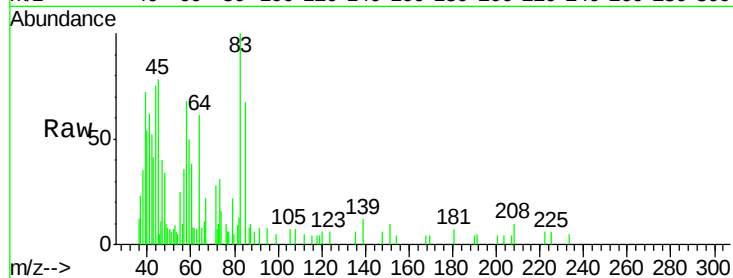
CTB-WEST-(MANHOLE-1)RE

Tgt Ion: 83 Resp: 3112

Ion Ratio Lower Upper

83 100

85 66.8 51.6 77.4



#27

1,2-Dichloroethane-d4

Concen: 34.186 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX018593.D

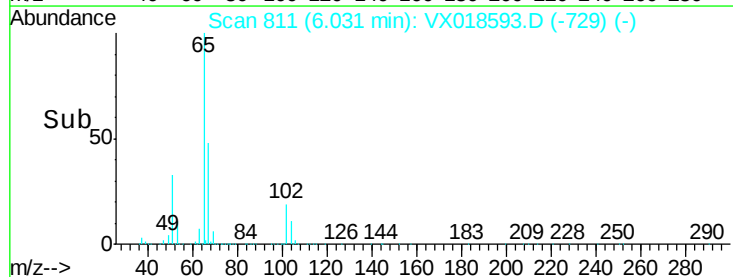
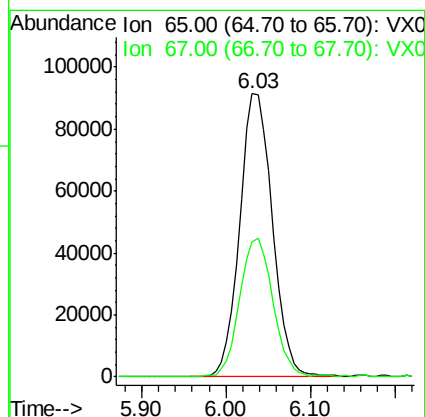
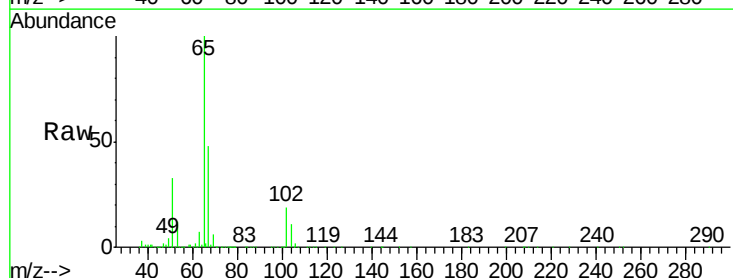
Acq: 25 Sep 2020 14:28

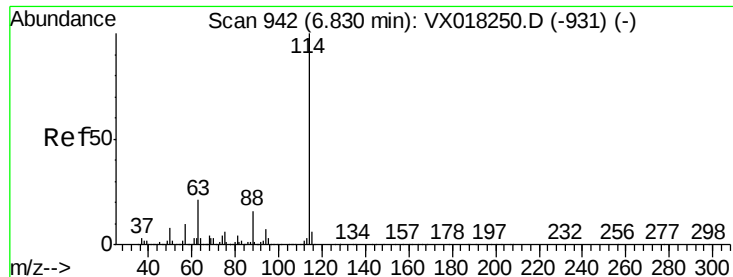
Tgt Ion: 65 Resp: 239805

Ion Ratio Lower Upper

65 100

67 49.3 39.9 59.9

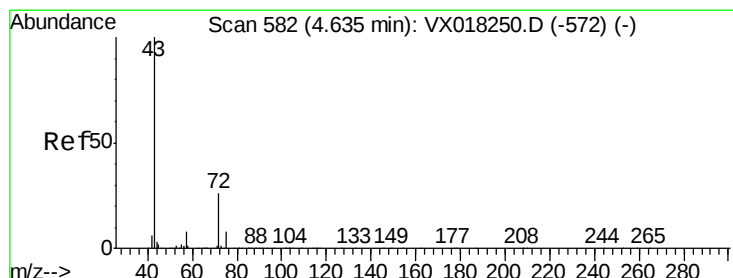
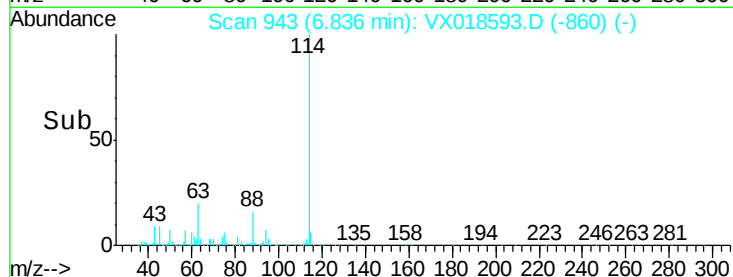
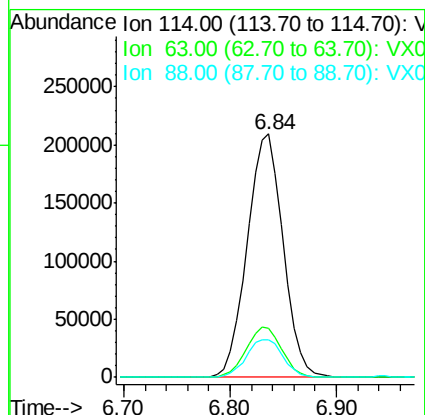
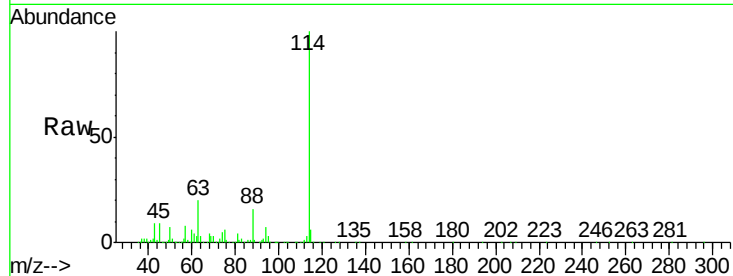




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. 0.01 min
 Lab File: VX018593.D
 Acq: 25 Sep 2020 14:28

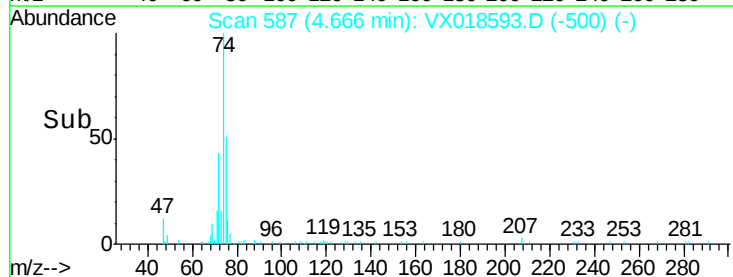
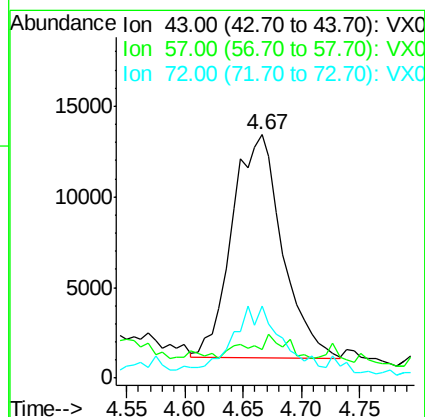
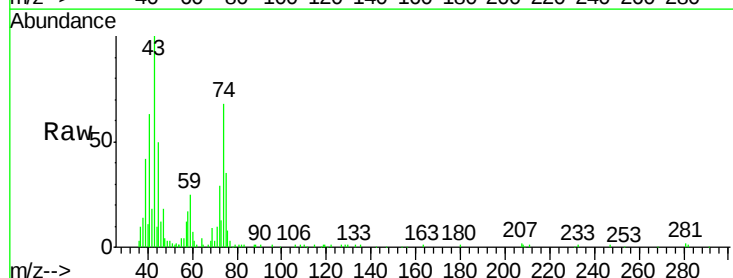
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 MSVOA_X
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 CTB-WEST-(MANHOLE-1)RE

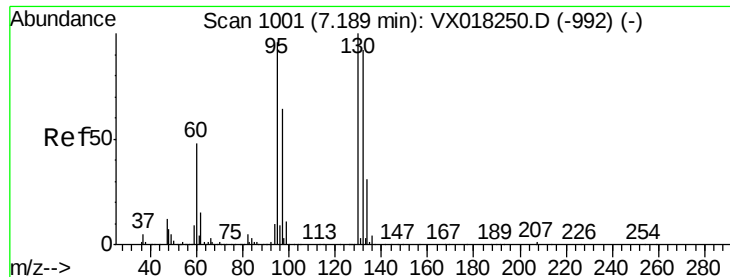
Tgt Ion: 114 Resp: 496524
 Ion Ratio Lower Upper
 114 100
 63 20.6 16.7 25.1
 88 16.0 12.6 18.8



#30
 2-Butanone
 Concen: 8.852 ug/l
 RT: 4.67 min Scan# 587
 Delta R.T. 0.03 min
 Lab File: VX018593.D
 Acq: 25 Sep 2020 14:28

Tgt Ion: 43 Resp: 36734
 Ion Ratio Lower Upper
 43 100
 57 4.5 6.7 10.1#
 72 0.0 20.0 30.0#





#37

Trichloroethene

Concen: 0.272 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VX018593.D

Acq: 25 Sep 2020 14:28

Instrument :

MSVOA_X

ClientSampleId :

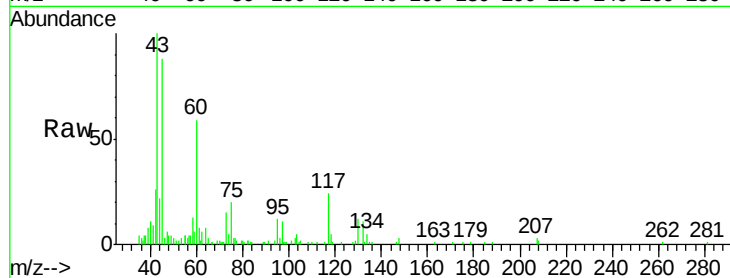
CTB-WEST-(MANHOLE-1)RE

Tgt Ion:130 Resp: 1702

Ion Ratio Lower Upper

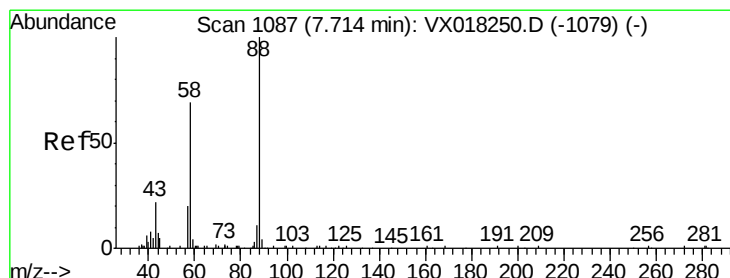
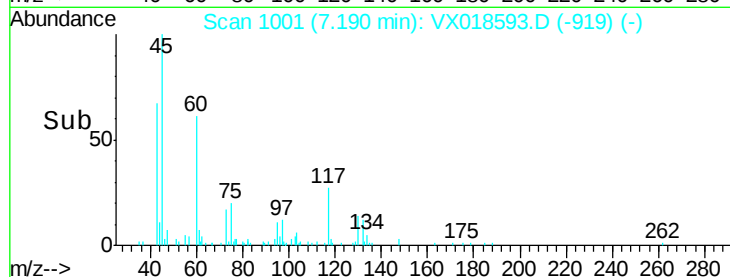
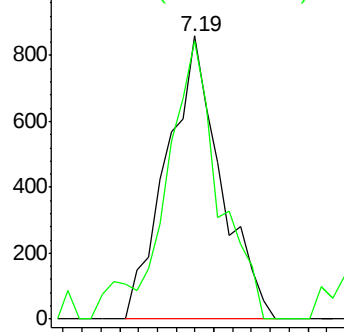
130 100

95 98.1 76.9 115.3



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VX0



#45

1,4-Dioxane

Concen: 1.917 ug/l

RT: 7.73 min Scan# 1089

Delta R.T. 0.01 min

Lab File: VX018593.D

Acq: 25 Sep 2020 14:28

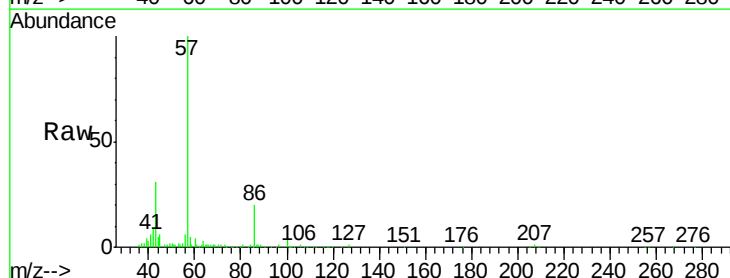
Tgt Ion: 88 Resp: 213

Ion Ratio Lower Upper

88 100

43 0.0 13.6 20.4#

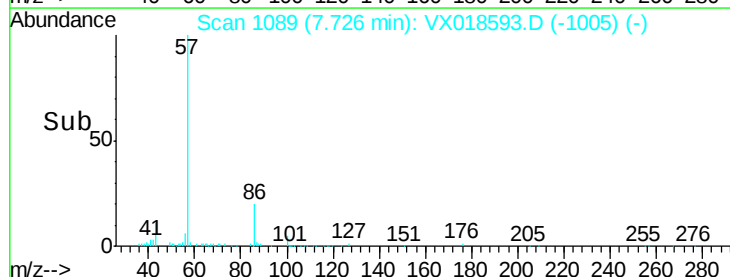
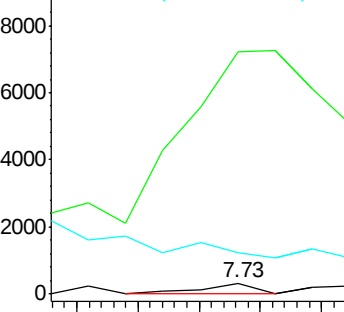
58 0.0 58.2 87.4#

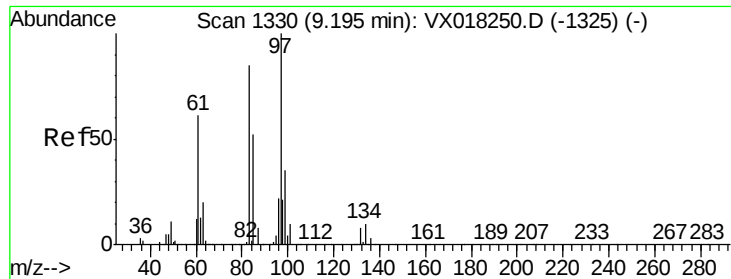


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

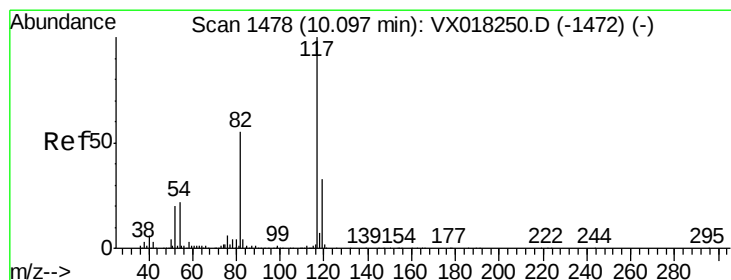
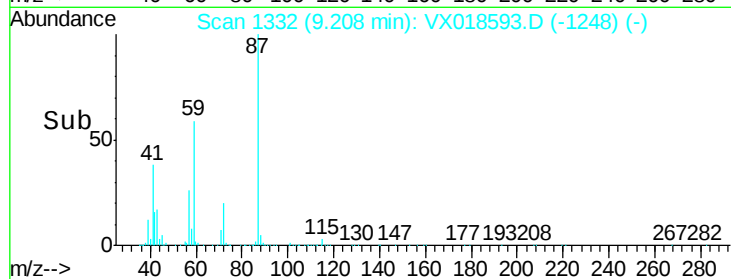
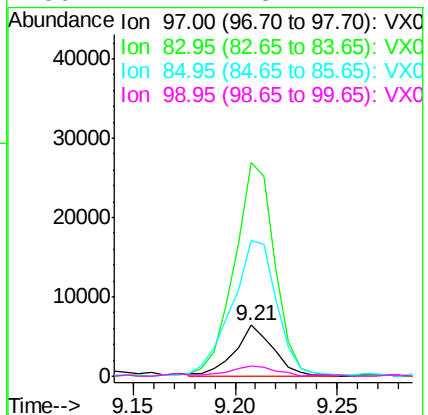
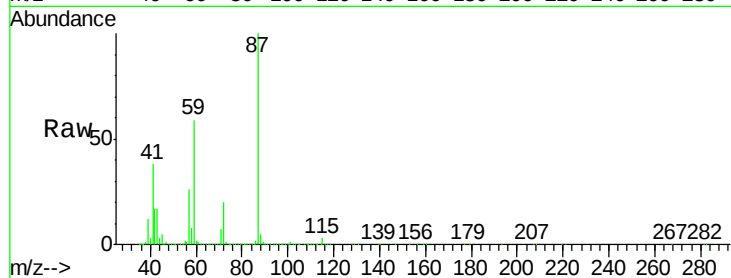




#50
1,1,2-Trichloroethane
Concen: 1.484 ug/l
RT: 9.21 min Scan# 1332
Delta R.T. 0.01 min
Lab File: VX018593.D
Acq: 25 Sep 2020 14:28

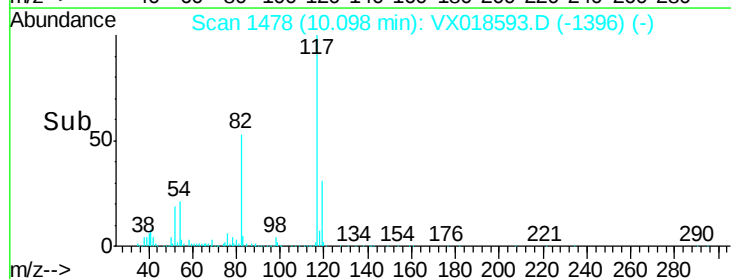
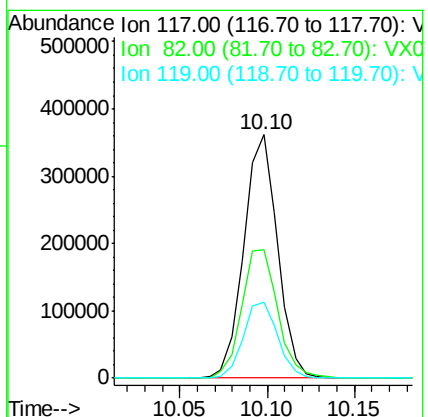
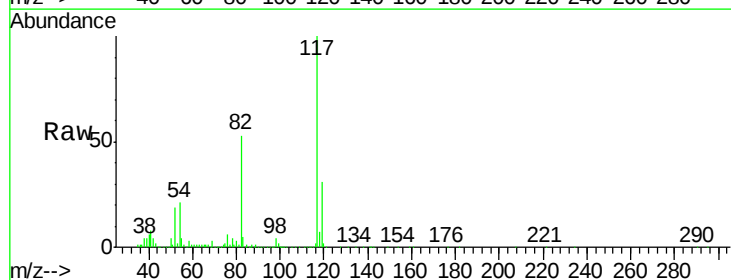
Instrument :
MSVOA_X
ClientSampleId :
CTB-WEST-(MANHOLE-1)RE

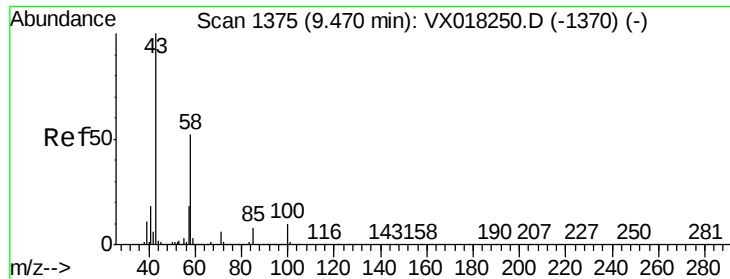
Tgt Ion:	97	Resp:	8655
Ion	Ratio	Lower	Upper
97	100		
83	415.4	68.1	102.1#
85	263.6	42.6	64.0#
99	17.2	48.2	72.2#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX018593.D
Acq: 25 Sep 2020 14:28

Tgt Ion:	117	Resp:	483224
Ion	Ratio	Lower	Upper
117	100		
82	56.9	44.2	66.4
119	32.0	26.1	39.1

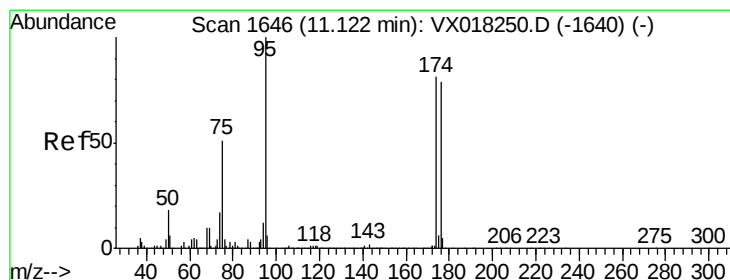
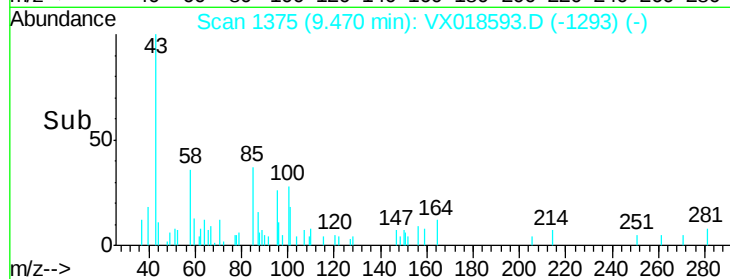
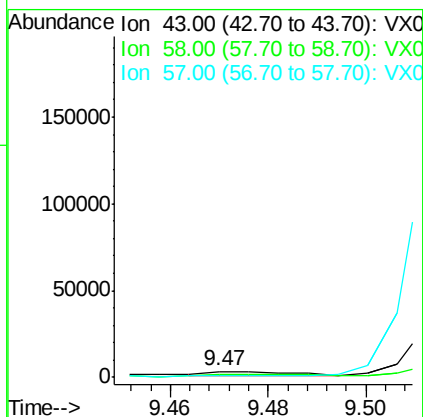
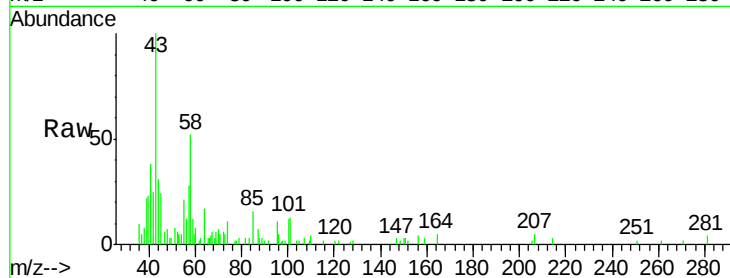




#59
2-Hexanone
Concen: 0.473 ug/l
RT: 9.47 min Scan# 1375
Delta R.T. 0.00 min
Lab File: VX018593.D
Acq: 25 Sep 2020 14:28

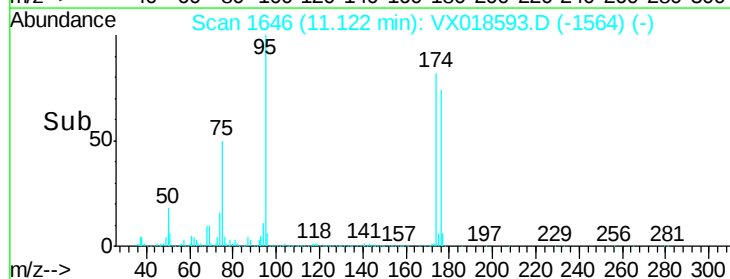
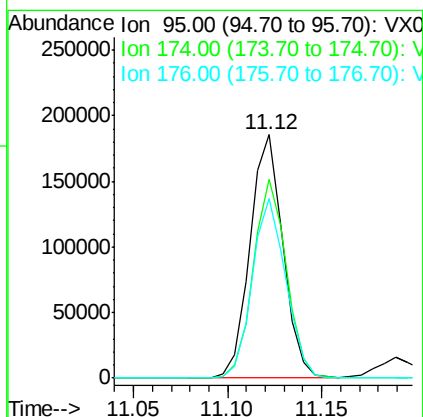
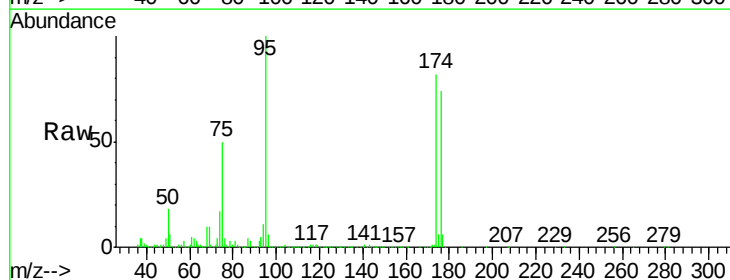
Instrument :
MSVOA_X
ClientSampleId :
CTB-WEST-(MANHOLE-1)RE

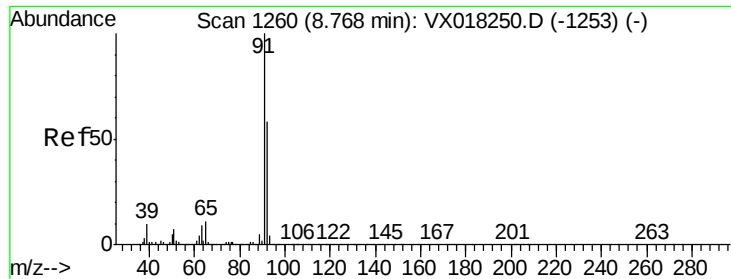
Tgt Ion: 43 Resp: 2976
Ion Ratio Lower Upper
43 100
58 83.2 42.5 63.7#
57 41.2 14.8 22.2#



#60
4-Bromofluorobenzene
Concen: 26.894 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX018593.D
Acq: 25 Sep 2020 14:28

Tgt Ion: 95 Resp: 225251
Ion Ratio Lower Upper
95 100
174 81.7 64.2 96.4
176 74.7 62.2 93.4





#62

Toluene

Concen: 0.518 ug/l

RT: 8.76 min Scan# 1259

Delta R.T. -0.01 min

Lab File: VX018593.D

Acq: 25 Sep 2020 14:28

Instrument :

MSVOA_X

ClientSampleId :

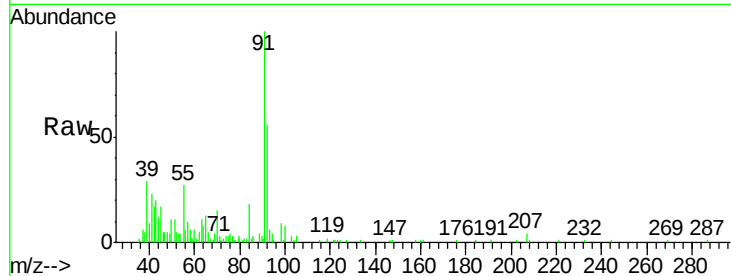
CTB-WEST-(MANHOLE-1)RE

Tgt Ion: 91 Resp: 12606

Ion Ratio Lower Upper

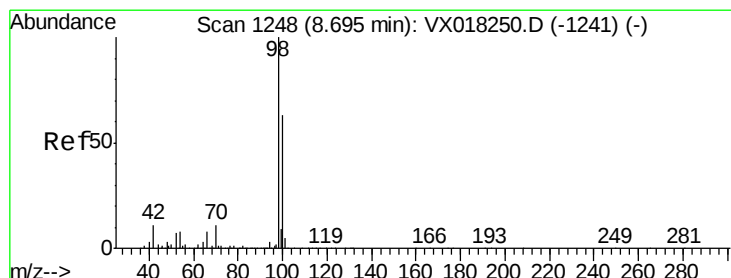
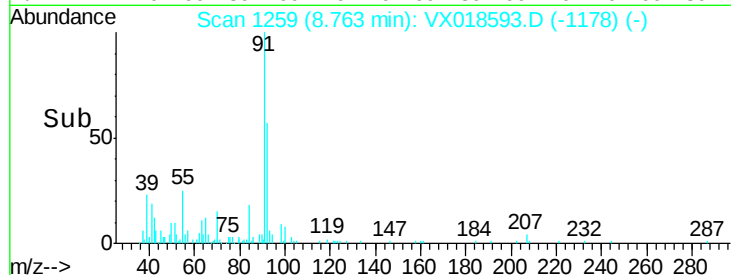
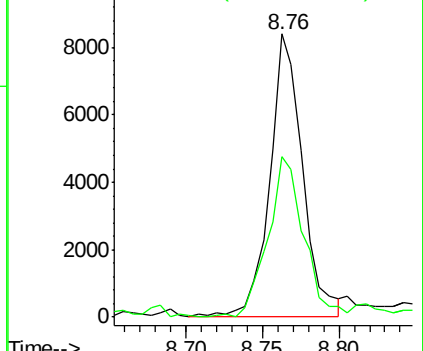
91 100

92 61.2 46.9 70.3



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0



#63

Toluene-d8

Concen: 27.479 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX018593.D

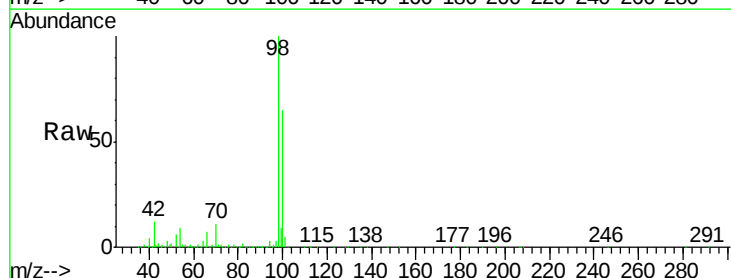
Acq: 25 Sep 2020 14:28

Tgt Ion: 98 Resp: 585255

Ion Ratio Lower Upper

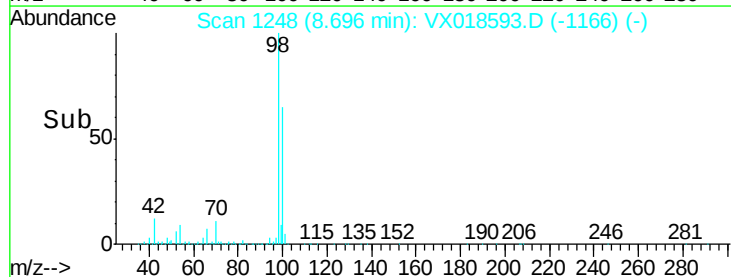
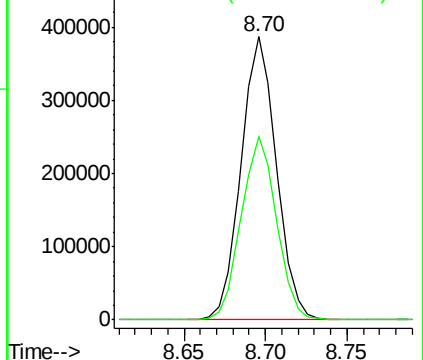
98 100

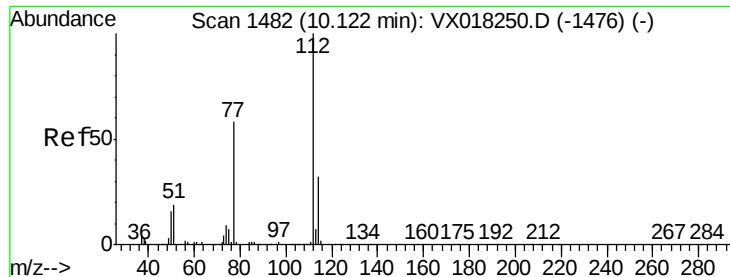
100 64.8 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#64

Chlorobenzene

Concen: 0.207 ug/l

RT: 10.12 min Scan# 1482

Delta R.T. 0.00 min

Lab File: VX018593.D

Acq: 25 Sep 2020 14:28

Instrument :

MSVOA_X

ClientSampleId :

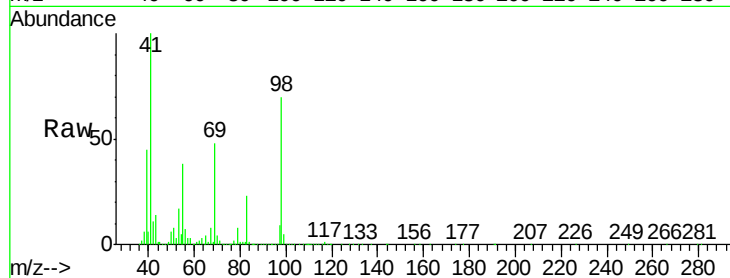
CTB-WEST-(MANHOLE-1)RE

Tgt Ion:112 Resp: 3234

Ion Ratio Lower Upper

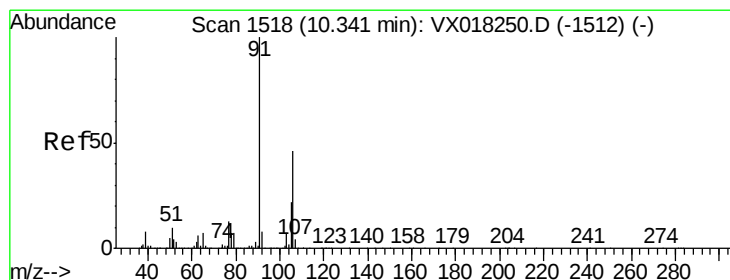
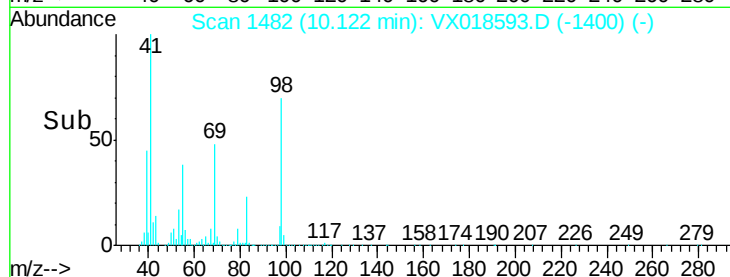
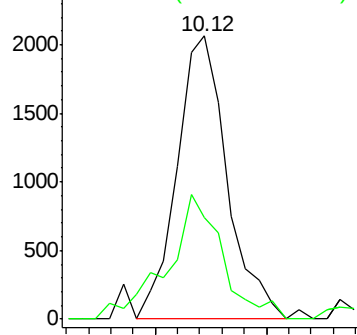
112 100

114 35.7 25.8 38.8



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#67

m/p-Xylenes

Concen: 0.240 ug/l

RT: 10.34 min Scan# 1518

Delta R.T. 0.00 min

Lab File: VX018593.D

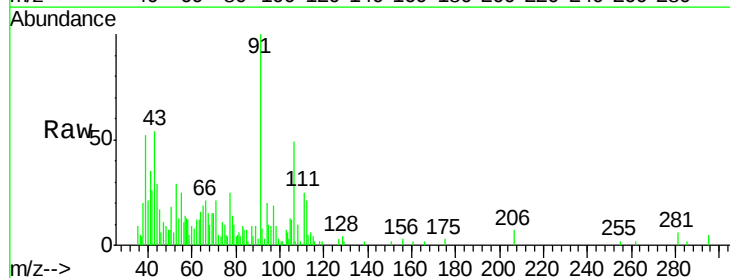
Acq: 25 Sep 2020 14:28

Tgt Ion:106 Resp: 2464

Ion Ratio Lower Upper

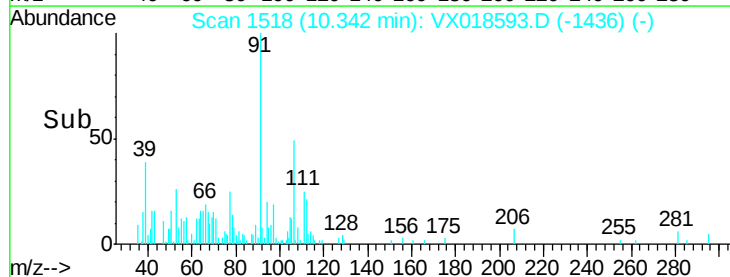
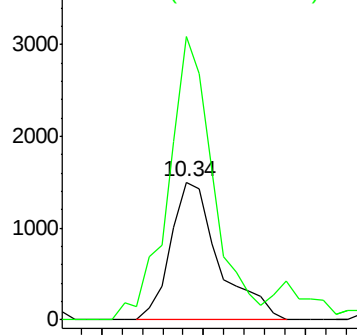
106 100

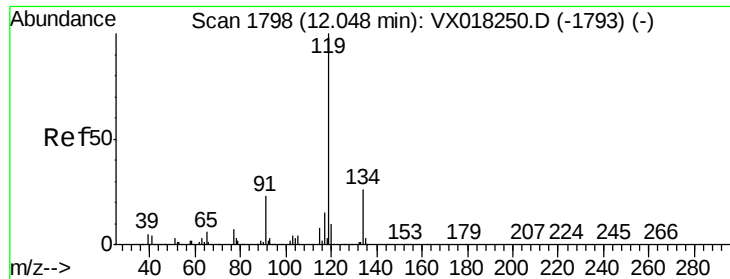
91 190.2 166.2 249.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0

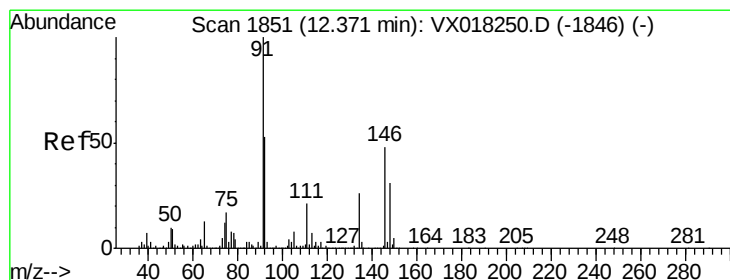
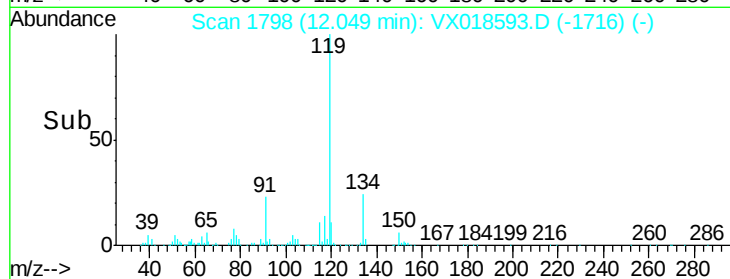
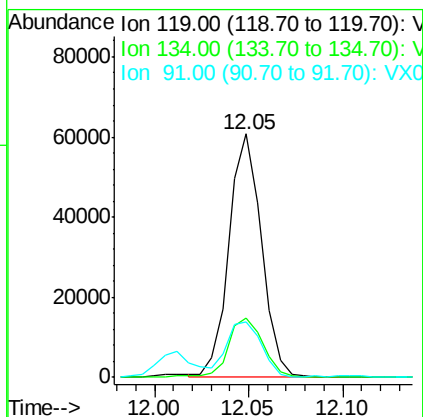
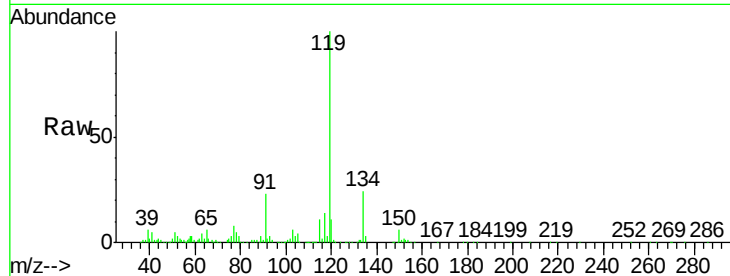




#82
p-Isopropyltoluene
Concen: 2.953 ug/l
RT: 12.05 min Scan# 1798
Delta R.T. 0.00 min
Lab File: VX018593.D
Acq: 25 Sep 2020 14:28

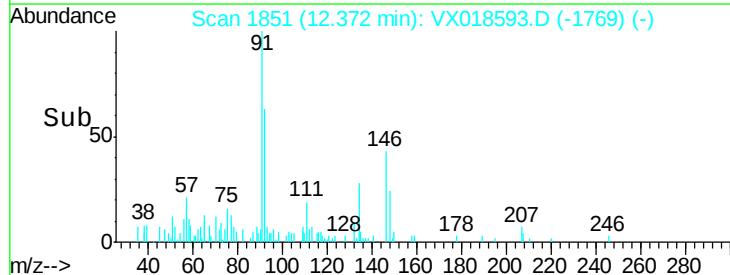
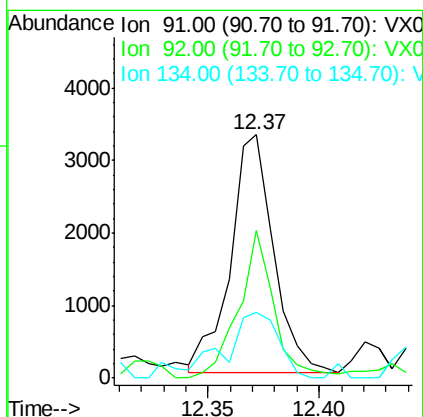
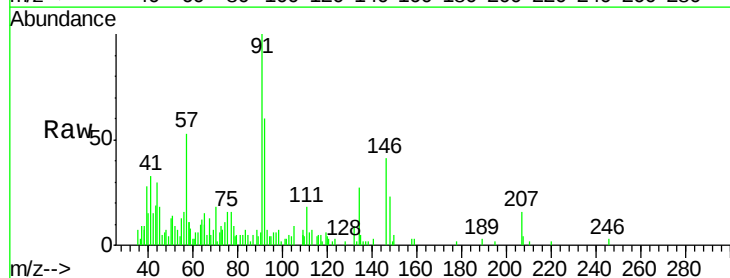
Instrument :
MSVOA_X
ClientSampleId :
CTB-WEST-(MANHOLE-1)RE

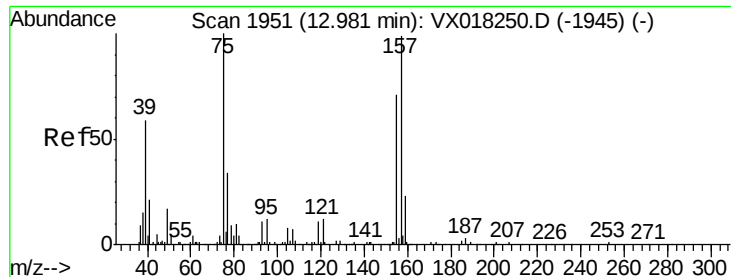
Tgt Ion: 119 Resp: 72870
Ion Ratio Lower Upper
119 100
134 26.4 0.0 53.0
91 24.0 0.0 49.8



#85
n-Butylbenzene
Concen: 0.205 ug/l
RT: 12.37 min Scan# 1851
Delta R.T. 0.00 min
Lab File: VX018593.D
Acq: 25 Sep 2020 14:28

Tgt Ion: 91 Resp: 4446
Ion Ratio Lower Upper
91 100
92 50.4 0.0 105.0
134 24.8 0.0 51.0





#88

1,2-Dibromo-3-Chloropropane

Concen: 1.212 ug/l

RT: 12.97 min Scan# 1949

Delta R.T. -0.01 min

Lab File: VX018593.D

Acq: 25 Sep 2020 14:28

Instrument :

MSVOA_X

ClientSampleId :

CTB-WEST-(MANHOLE-1)RE

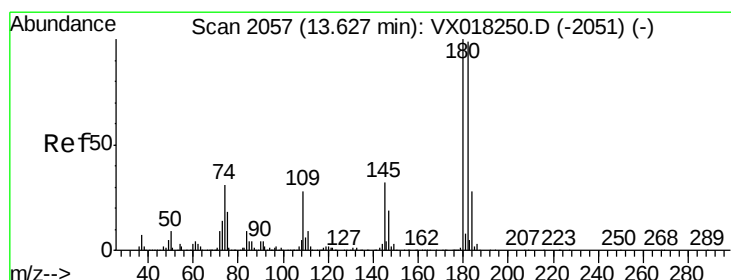
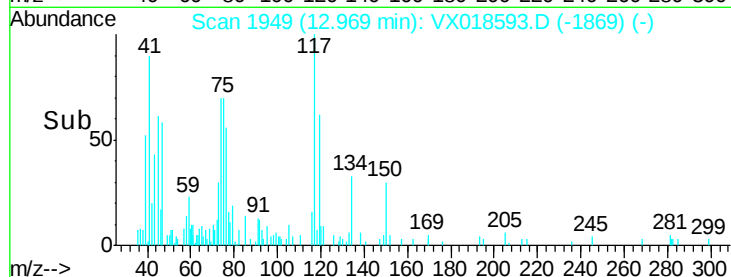
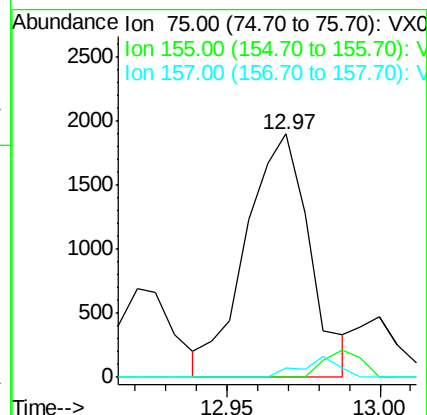
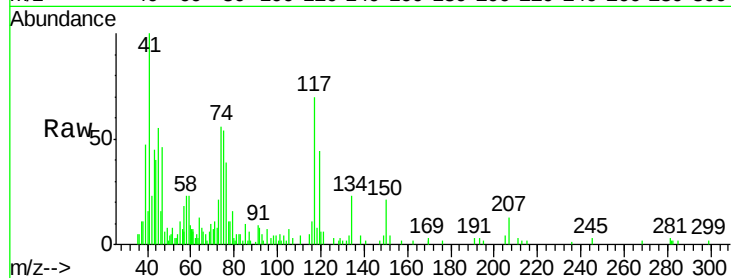
Tgt Ion: 75 Resp: 2737

Ion Ratio Lower Upper

75 100

155 6.7 63.4 95.2#

157 5.0 87.0 130.6#



#89

1,2,4-Trichlorobenzene

Concen: 0.365 ug/l

RT: 13.63 min Scan# 2057

Delta R.T. 0.00 min

Lab File: VX018593.D

Acq: 25 Sep 2020 14:28

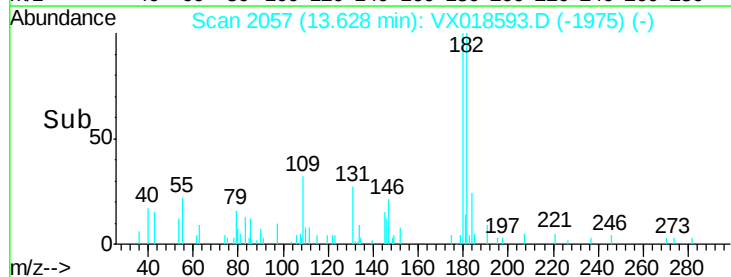
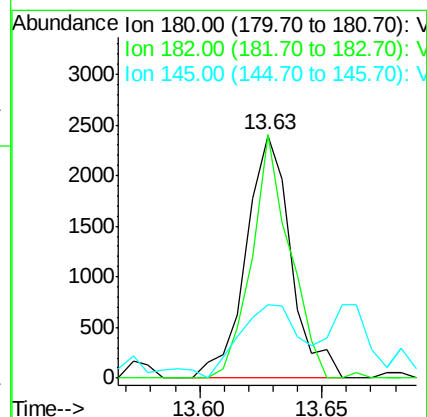
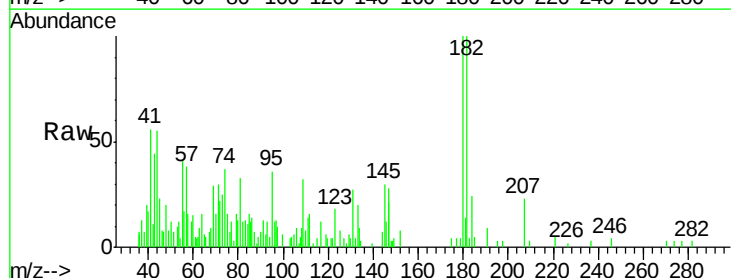
Tgt Ion: 180 Resp: 3057

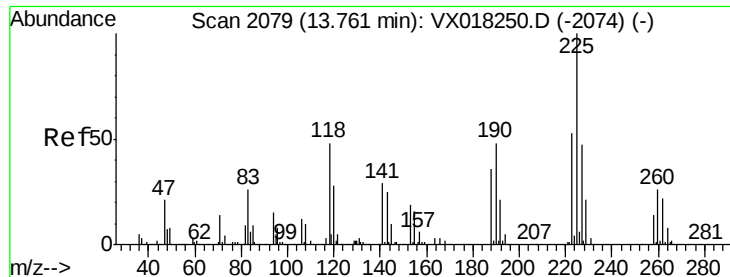
Ion Ratio Lower Upper

180 100

182 85.1 77.1 115.7

145 40.6 25.0 37.6#

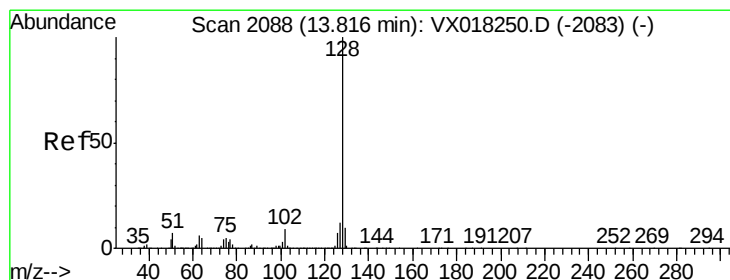
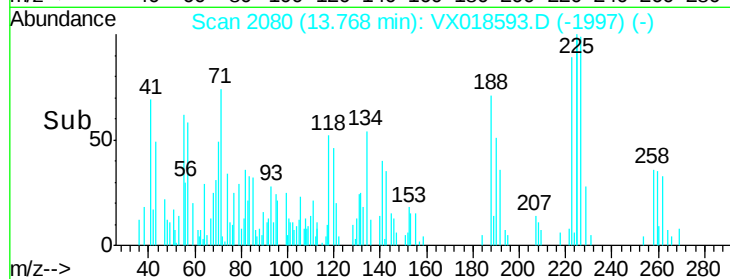
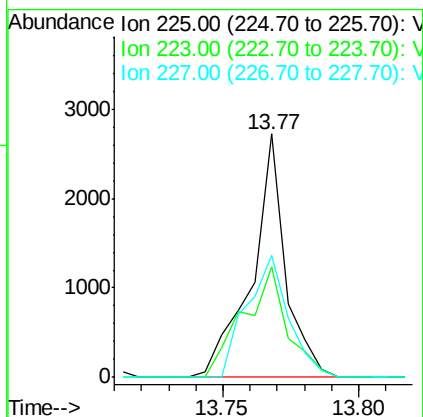
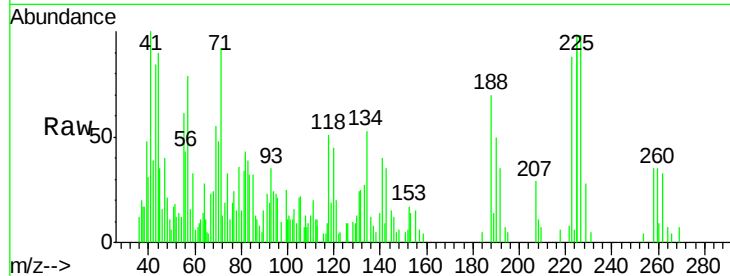




#90
Hexachlorobutadiene
Concen: 0.662 ug/l
RT: 13.77 min Scan# 2080
Delta R.T. 0.01 min
Lab File: VX018593.D
Acq: 25 Sep 2020 14:28

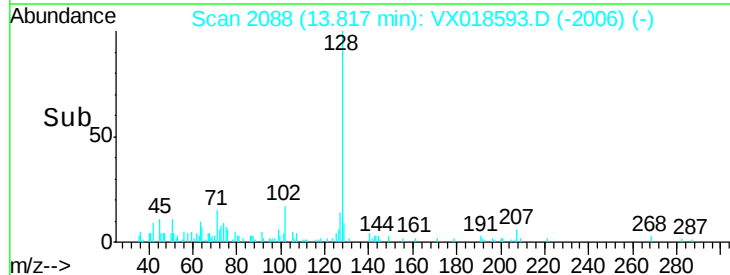
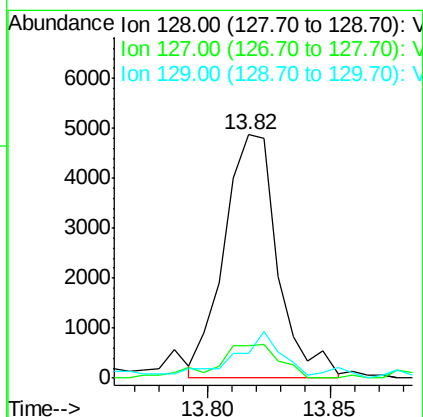
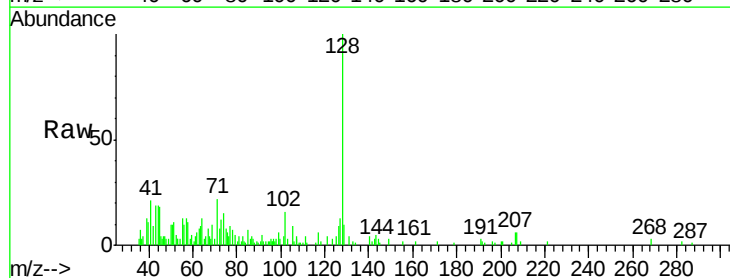
Instrument :
MSVOA_X
ClientSampleId :
CTB-WEST-(MANHOLE-1)RE

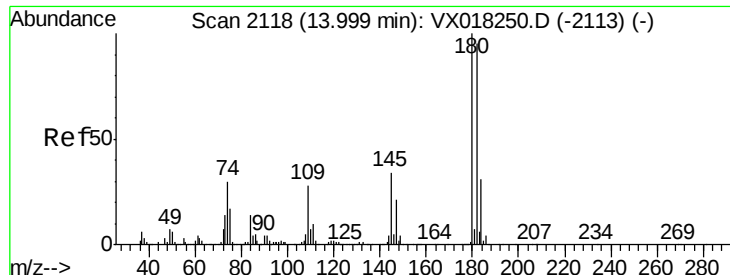
Tgt Ion: 225 Resp: 2346
Ion Ratio Lower Upper
225 100
223 59.2 0.0 115.8
227 62.4 0.0 117.0



#91
Naphthalene
Concen: 0.285 ug/l
RT: 13.82 min Scan# 2088
Delta R.T. 0.00 min
Lab File: VX018593.D
Acq: 25 Sep 2020 14:28

Tgt Ion: 128 Resp: 7443
Ion Ratio Lower Upper
128 100
127 13.8 10.2 15.4
129 13.8 8.7 13.1#

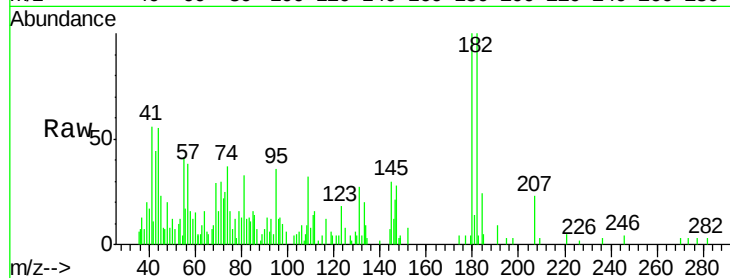




#92
 1,2,3-Trichlorobenzene
 Concen: 0.369 ug/l
 RT: 13.63 min Scan# 2057
 Delta R.T. -0.37 min
 Lab File: VX018593.D
 Acq: 25 Sep 2020 14:28

Instrument :
 MSVOA_X
 ClientSampleId :
 CTB-WEST-(MANHOLE-1)RE

Tgt Ion	Ratio	Lower	Upper
180	100		
182	85.1	0.0	191.6
145	40.6	0.0	67.4



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

