

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051419\
 Data File : VF062594.D
 Acq On : 14 May 2019 22:05
 Operator : FY/SY
 Sample : K2836-01
 Misc : 5.38g/5mL/MSVOA F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CULVER-CBTC-WC1-051019

Quant Time: May 15 05:17:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051419S.M
 Quant Title : SW846 8260
 QLast Update : Wed May 15 05:06:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.08	168	1056	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	397	50.00	ug/l	0.06
63) Chlorobenzene-d5	10.02	117	219	50.00	ug/l	0.08
72) 1,4-Dichlorobenzene-d4	12.61	152	318	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.05	65	195	24.44	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	48.88%	
35) Dibromofluoromethane	4.39	113	79	26.74	ug/l	0.05
Spiked Amount				50.000		
			Recovery	=	53.48%	
50) Toluene-d8	7.91	98	169	24.27	ug/l	0.17
Spiked Amount				50.000		
			Recovery	=	48.54%	
62) 4-Bromofluorobenzene	11.64	95	366	150.52	ug/l	0.12
Spiked Amount				50.000		
			Recovery	=	301.04%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.00	85	541	57.917	ug/l #	45
3) Chloromethane	1.13	50	106	8.802	ug/l #	31
4) Vinyl Chloride	1.19	62	343	28.617	ug/l #	42
5) Bromomethane	1.35	94	340	63.626	ug/l	88
6) Chloroethane	1.37	64	659	144.782	ug/l	95
7) Trichlorofluoromethane	1.54	101	102	6.211	ug/l	96
8) Diethyl Ether	1.70	74	346	93.989	ug/l	79
9) 1,1,2-Trichlorotrifluoroet	1.91	101	357	31.870	ug/l #	34
10) Methyl Iodide	2.00	142	377	18.897	ug/l #	36
11) Tert butyl alcohol	2.68	59	196	408.071	ug/l #	73
12) 1,1-Dichloroethene	1.90	96	808	84.204	ug/l #	17
13) Acrolein	1.97	56	235	738.260	ug/l	88
14) Allyl chloride	2.22	41	1404	142.992	ug/l #	41
15) Acrylonitrile	3.09	53	308	179.263	ug/l #	42
16) Acetone	2.22	43	1086	670.879	ug/l	90
17) Carbon Disulfide	1.94	76	63	Below Cal	#	1
18) Methyl Acetate	2.43	43	801	261.362	ug/l	94
19) Methyl tert-butyl Ether	2.56	73	1274	74.567	ug/l #	79
20) Methylene Chloride	2.31	84	85	6.320	ug/l #	10
21) trans-1,2-Dichloroethene	2.44	96	233	24.094	ug/l #	37
22) Diisopropyl ether	2.96	45	823	36.050	ug/l #	83
23) Vinyl Acetate	3.35	43	1090	87.290	ug/l #	68
24) 1,1-Dichloroethane	3.04	63	657	37.804	ug/l #	86
25) 2-Butanone	4.53	43	864	236.087	ug/l	96
26) 2,2-Dichloropropane	3.79	77	1383	147.452	ug/l #	51
27) cis-1,2-Dichloroethene	3.69	96	772	56.503	ug/l	35
28) Bromochloromethane	3.90	49	310	31.733	ug/l #	14
29) Tetrahydrofuran	4.00	42	493	318.338	ug/l	94
30) Chloroform	4.08	83	69	3.309	ug/l #	20
31) Cyclohexane	3.94	56	460	25.396	ug/l #	63
32) 1,1,1-Trichloroethane	4.32	97	172	12.236	ug/l #	45
36) 1,1-Dichloropropene	4.56	75	238	69.282	ug/l #	2
37) Ethyl Acetate	4.36	43	508	359.858	ug/l #	2
38) Carbon Tetrachloride	4.29	117	457	162.170	ug/l #	11

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.73	83	89	22.128	ug/l #	1
40) Benzene	5.02	78	568	58.120	ug/l	99
41) Methacrylonitrile	5.00	41	304	380.284	ug/l #	68
42) 1,2-Dichloroethane	5.19	62	65	31.342	ug/l	71
43) Isopropyl Acetate	7.23	43	1340	802.165	ug/l #	75
44) Trichloroethene	5.80	130	168	63.654	ug/l	3
45) 1,2-Dichloropropane	6.46	63	392	159.353	ug/l	99
46) Dibromomethane	6.40	93	276	200.680	ug/l #	5
47) Bromodichloromethane	6.69	83	200	67.646	ug/l #	91
48) Methyl methacrylate	6.99	41	845	924.133	ug/l	92
49) 1,4-Dioxane	7.00	88	230	19088.215	ug/l #	20
51) 4-Methyl-2-Pentanone	8.54	43	559	456.695	ug/l #	34
52) Toluene	7.86	92	265	54.017	ug/l #	1
53) t-1,3-Dichloropropene	8.54	75	503	215.349	ug/l	96
54) cis-1,3-Dichloropropene	7.63	75	443	134.213	ug/l #	1
55) 1,1,2-Trichloroethane	8.78	97	203	138.201	ug/l #	14
56) Ethyl methacrylate	8.91	69	86	53.419	ug/l #	1
57) 1,3-Dichloropropane	9.13	76	277	114.257	ug/l #	1
58) 2-Chloroethyl Vinyl ether	7.57	63	194	385.134	ug/l #	53
59) 2-Hexanone	9.75	43	510	630.882	ug/l	99
60) Dibromochloromethane	8.87	129	127	68.050	ug/l	60
61) 1,2-Dibromoethane	9.13	107	63	42.764	ug/l	87
64) Tetrachloroethene	8.34	164	65	44.916	ug/l #	1
65) Chlorobenzene	10.01	112	197	51.742	ug/l #	1
66) 1,1,1,2-Tetrachloroethane	10.19	131	205	131.088	ug/l	83
67) Ethyl Benzene	10.05	91	169	24.983	ug/l #	44
68) m/p-Xylenes	10.39	106	137	57.140	ug/l	82
69) o-Xylene	10.84	106	69	27.434	ug/l	80
70) Styrene	10.93	104	248	64.892	ug/l #	1
71) Bromoform	10.91	173	96	130.377	ug/l #	29
73) Isopropylbenzene	11.19	105	78	3.648	ug/l #	48
74) N-amyl acetate	11.49	43	931	179.326	ug/l #	51
75) 1,1,2,2-Tetrachloroethane	11.83	83	359	81.958	ug/l #	25
76) 1,2,3-Trichloropropane	11.87	75	299	106.476	ug/l #	1
77) Bromobenzene	11.61	156	186	38.495	ug/l	83
78) n-propylbenzene	11.69	91	468	18.402	ug/l #	52
79) 2-Chlorotoluene	11.83	91	135	9.619	ug/l #	1
80) 1,3,5-Trimethylbenzene	11.75	105	108	6.453	ug/l	69
81) trans-1,4-Dichloro-2-buten	11.97	75	466	389.336	ug/l #	27
82) 4-Chlorotoluene	11.98	91	75	5.465	ug/l #	40
83) tert-Butylbenzene	12.20	119	461	26.332	ug/l #	34
84) 1,2,4-Trimethylbenzene	12.29	105	220	13.381	ug/l #	1
85) sec-Butylbenzene	12.35	105	69	2.903	ug/l #	59
86) p-Isopropyltoluene	12.54	119	193	9.864	ug/l #	51
87) 1,3-Dichlorobenzene	12.52	146	219	23.173	ug/l #	23
88) 1,4-Dichlorobenzene	12.67	146	81	9.137	ug/l #	23
89) n-Butylbenzene	12.93	91	117	5.875	ug/l #	28
90) Hexachloroethane	12.97	117	297	59.260	ug/l #	21
91) 1,2-Dichlorobenzene	13.01	146	235	28.030	ug/l #	24
92) 1,2-Dibromo-3-Chloropropan	13.70	75	487	905.120	ug/l #	1

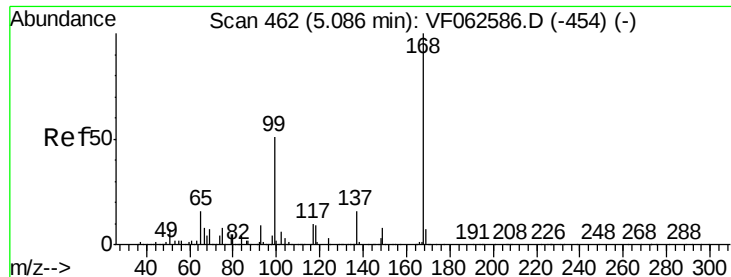
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.31	180	108	18.525	ug/l #	12
94) Hexachlorobutadiene	14.26	225	64	15.112	ug/l #	19
95) Naphthalene	14.50	128	466	49.108	ug/l #	70
96) 1,2,3-Trichlorobenzene	14.66	180	70	12.942	ug/l #	1

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.08 min Scan# 461

Delta R.T. -0.01 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

Instrument :

MSVOA_F

ClientSampleId :

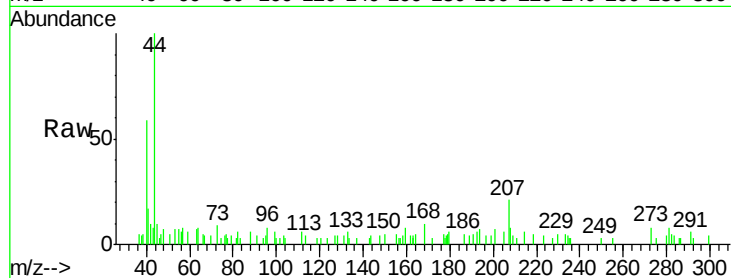
CULVER-CBTC-WC1-051019

Tot Ion:168 Resp: 1056

Ion Ratio Lower Upper

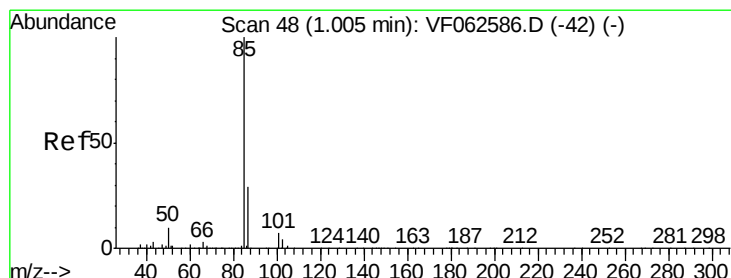
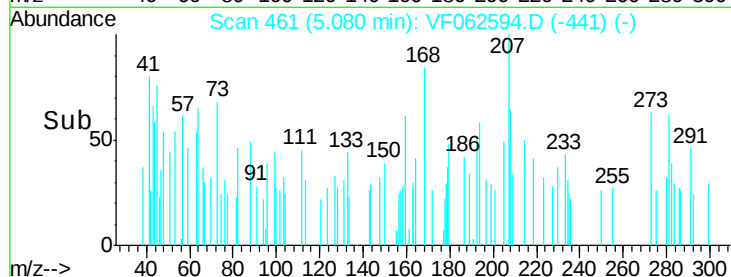
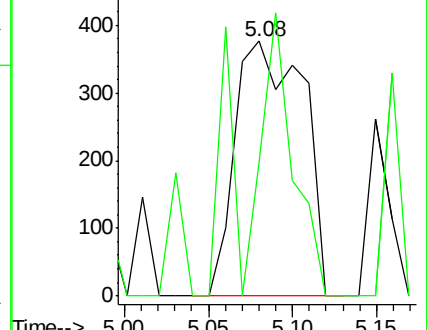
168 100

99 52.5 41.0 61.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 57.917 ug/l

RT: 1.00 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF062594.D

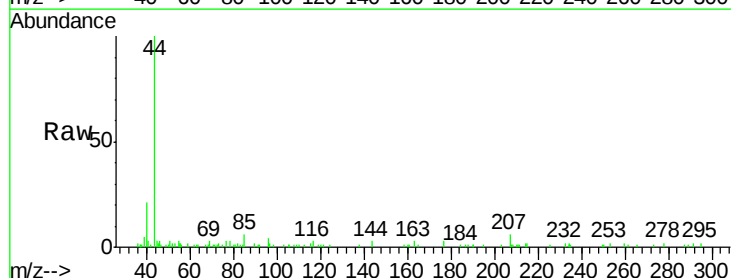
Acq: 14 May 2019 22:05

Tgt Ion: 85 Resp: 541

Ion Ratio Lower Upper

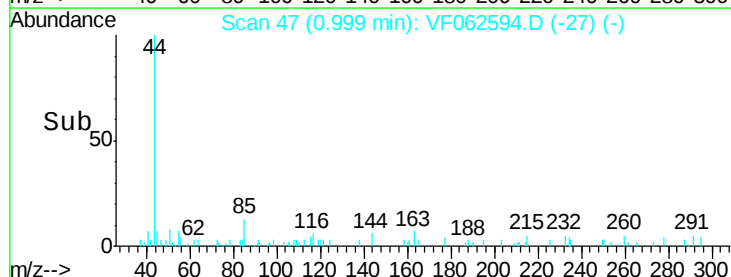
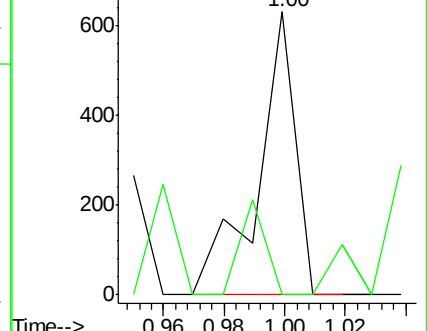
85 100

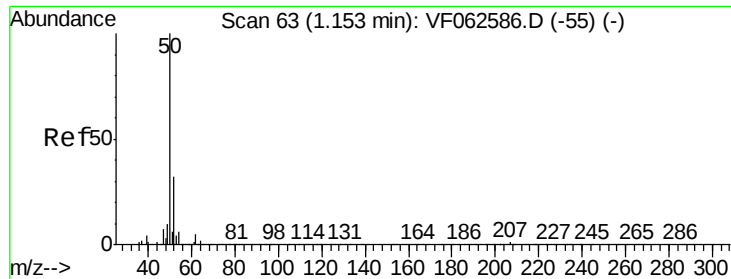
87 0.0 14.6 43.8#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 8.802 ug/l

RT: 1.13 min Scan# 60

Delta R.T. -0.03 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

Instrument :

MSVOA_F

ClientSampleId :

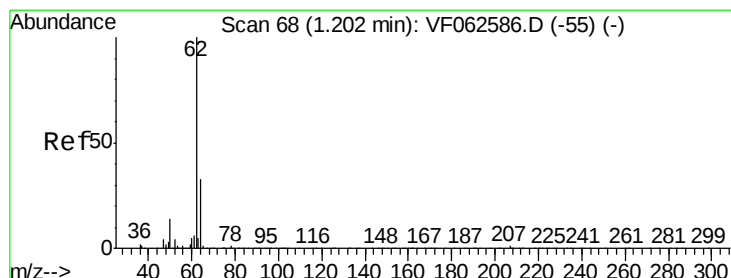
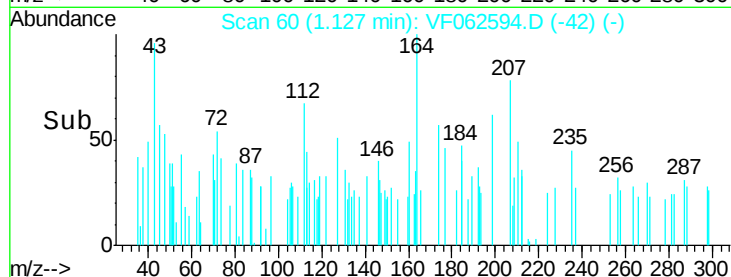
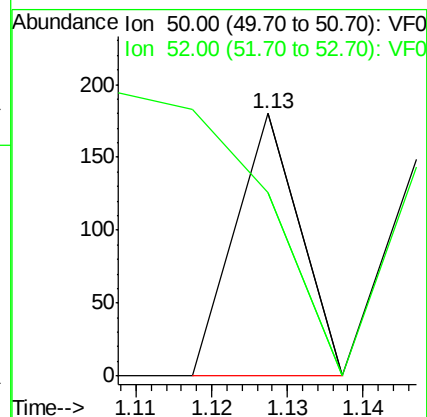
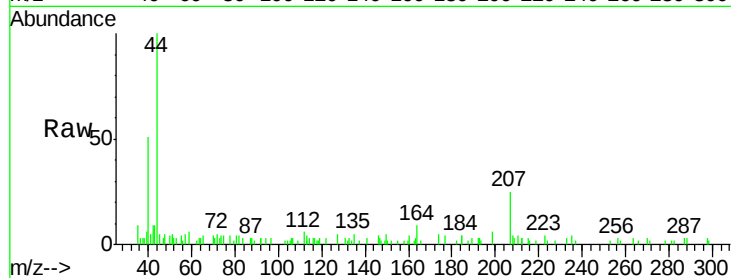
CULVER-CBTC-WC1-051019

Tot Ion: 50 Resp: 106

Ion Ratio Lower Upper

50 100

52 70.0 25.3 37.9#



#4

Vinyl Chloride

Concen: 28.617 ug/l

RT: 1.19 min Scan# 66

Delta R.T. -0.02 min

Lab File: VF062594.D

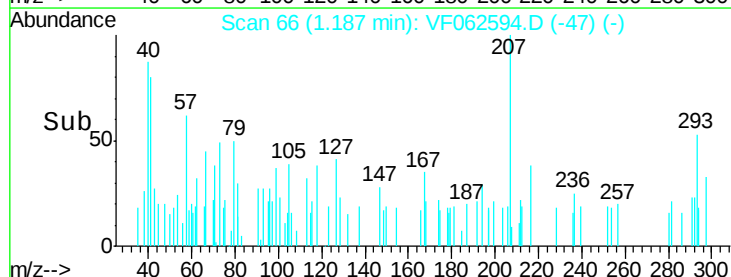
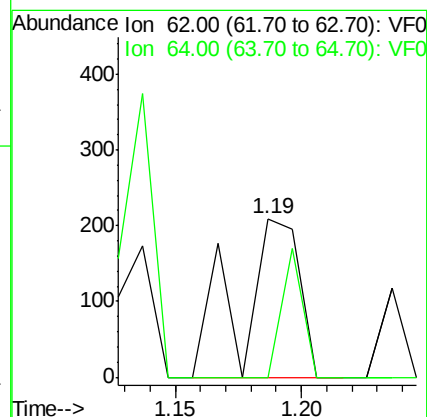
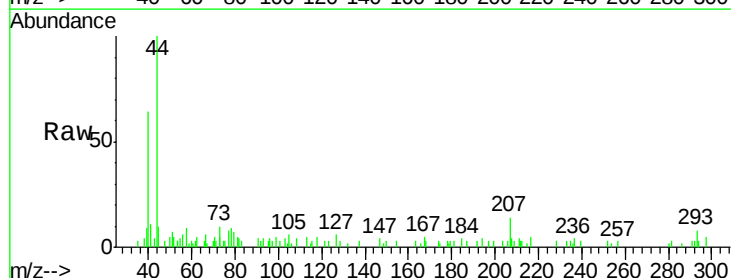
Acq: 14 May 2019 22:05

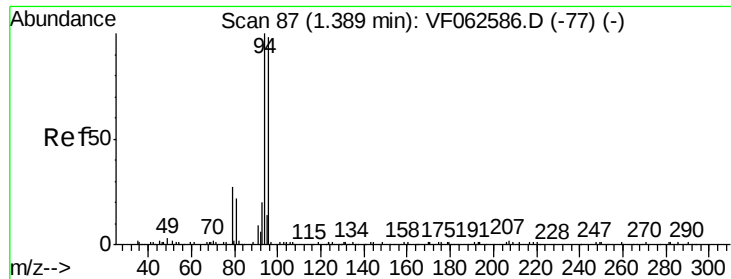
Tgt Ion: 62 Resp: 343

Ion Ratio Lower Upper

62 100

64 0.0 26.5 39.7#





#5

Bromomethane

Concen: 63.626 ug/l

RT: 1.35 min Scan# 83

Delta R.T. -0.03 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

Instrument :

MSVOA_F

ClientSampleId :

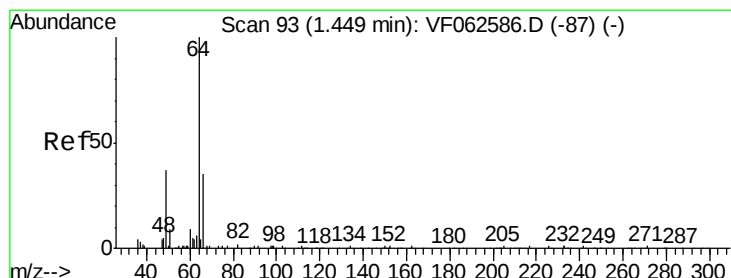
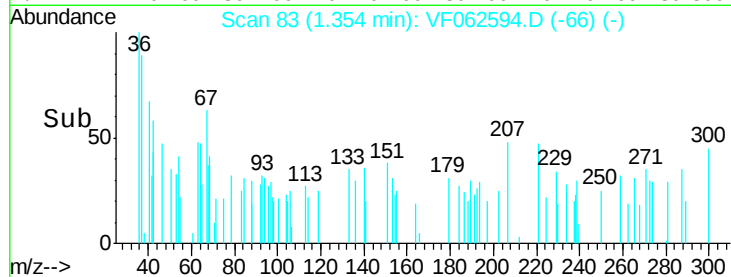
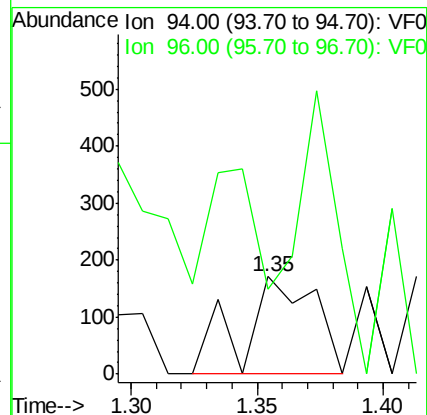
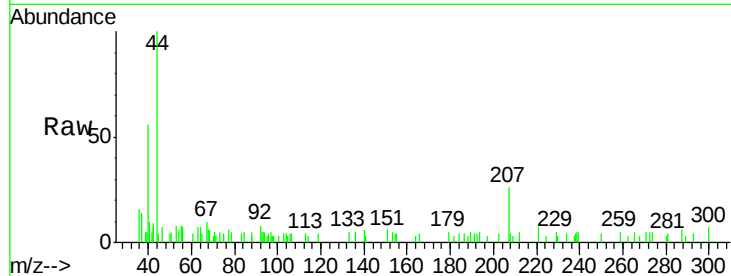
CULVER-CBTC-WC1-051019

Tot Ion: 94 Resp: 340

Ion Ratio Lower Upper

94 100

96 87.1 79.3 118.9



#6

Chloroethane

Concen: 144.782 ug/l

RT: 1.37 min Scan# 85

Delta R.T. -0.07 min

Lab File: VF062594.D

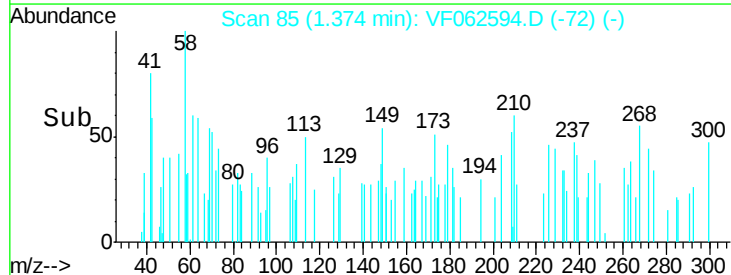
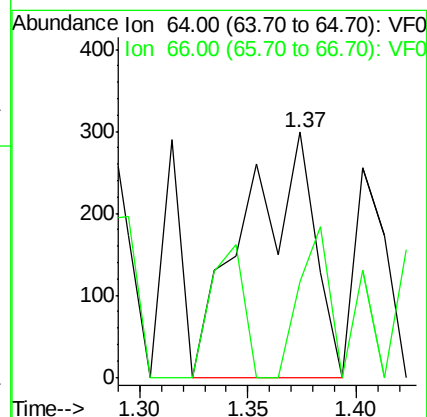
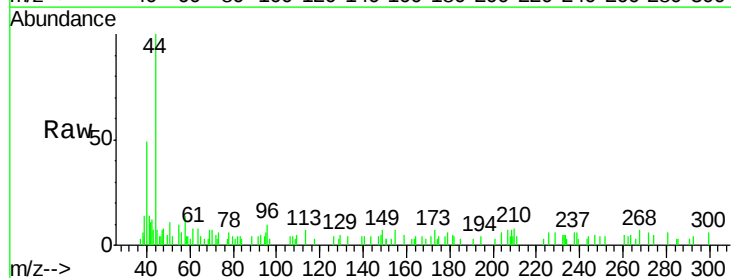
Acq: 14 May 2019 22:05

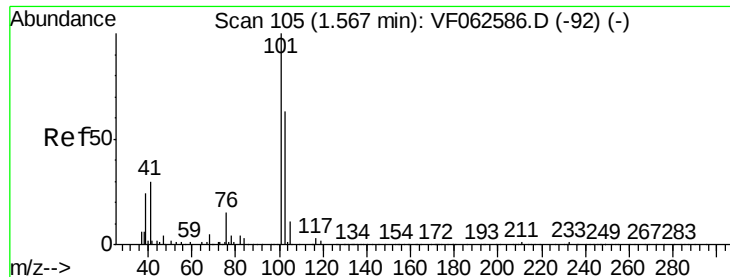
Tgt Ion: 64 Resp: 659

Ion Ratio Lower Upper

64 100

66 38.8 28.9 43.3



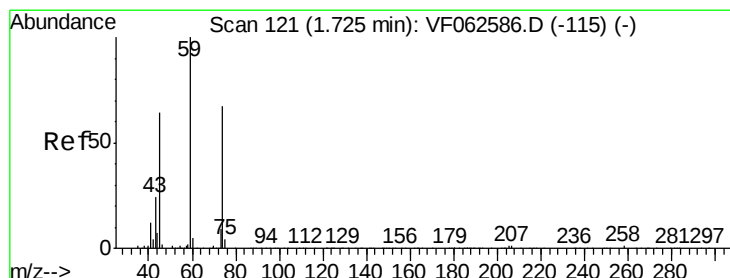
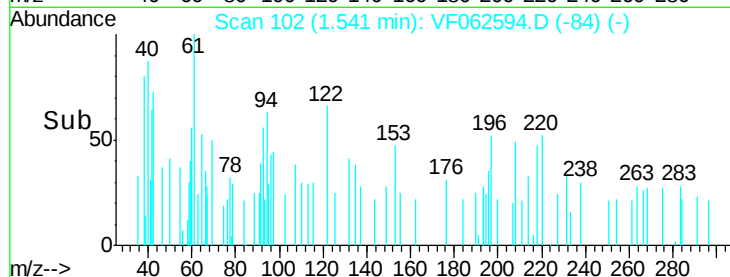
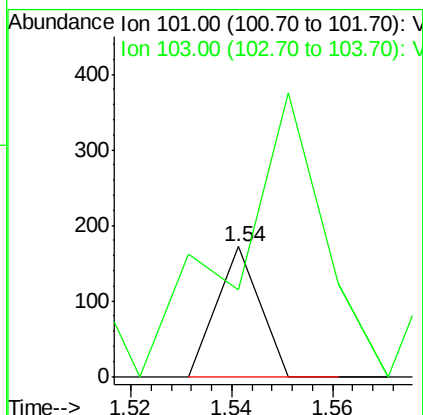
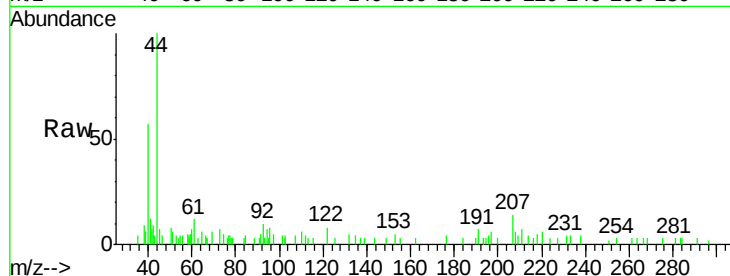


#7

Trichlorofluoromethane
Concen: 6.211 ug/l
RT: 1.54 min Scan# 102
Delta R.T. -0.03 min
Lab File: VF062594.D
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CULVER-CBTC-WC1-051019

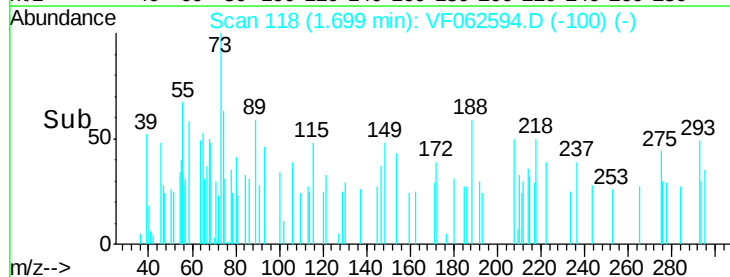
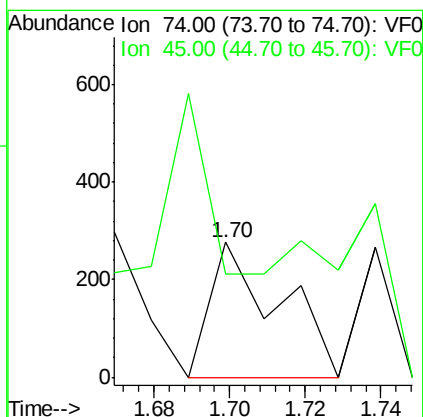
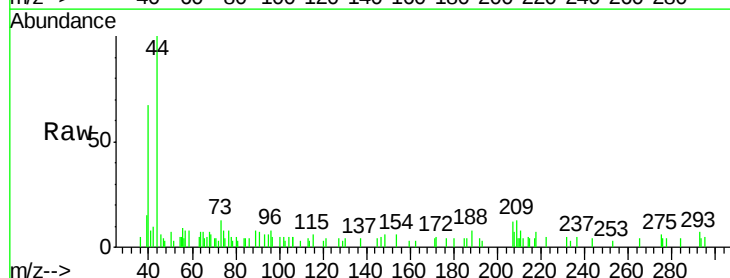
Tot Ion:101 Resp: 102
Ion Ratio Lower Upper
101 100
103 66.3 50.8 76.2

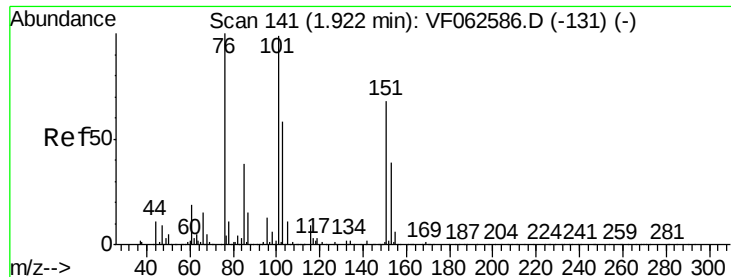


#8

Diethyl Ether
Concen: 93.989 ug/l
RT: 1.70 min Scan# 118
Delta R.T. -0.03 min
Lab File: VF062594.D
Acq: 14 May 2019 22:05

Tgt Ion: 74 Resp: 346
Ion Ratio Lower Upper
74 100
45 76.4 48.6 145.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 31.870 ug/l

RT: 1.91 min Scan# 139

Delta R.T. -0.02 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1-051019

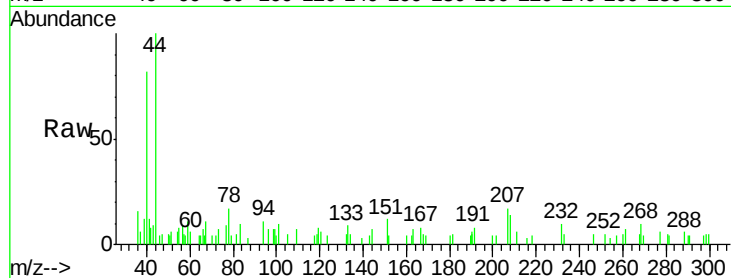
Tot Ion:101 Resp: 357

Ion Ratio Lower Upper

101 100

85 0.0 30.2 45.4#

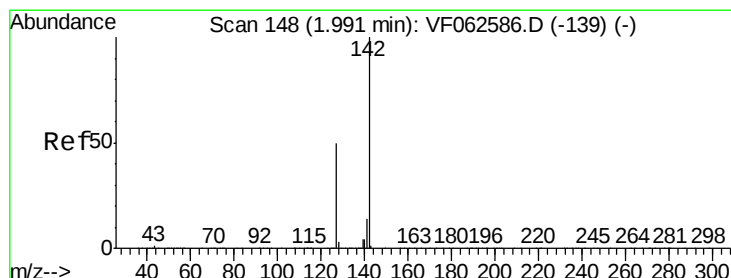
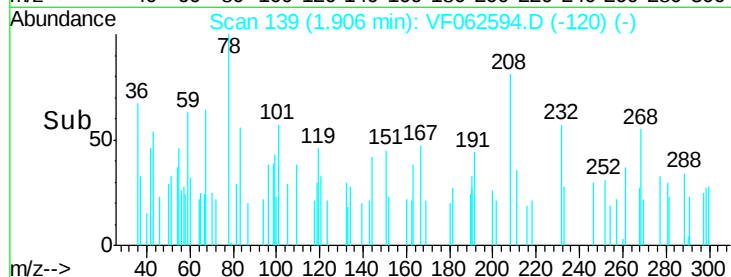
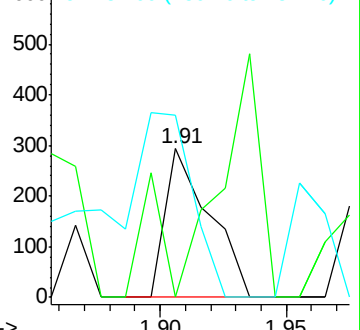
151 123.2 54.5 81.7#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 18.897 ug/l

RT: 2.00 min Scan# 149

Delta R.T. 0.01 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

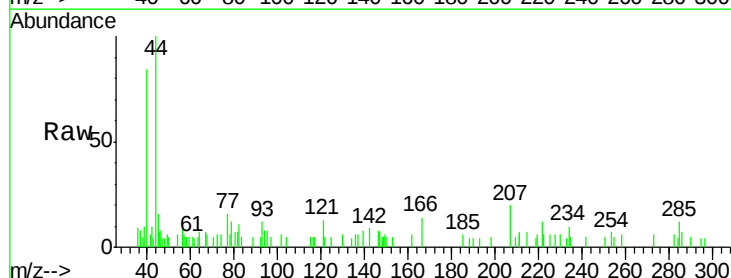
Tgt Ion:142 Resp: 377

Ion Ratio Lower Upper

142 100

127 0.0 40.2 60.4#

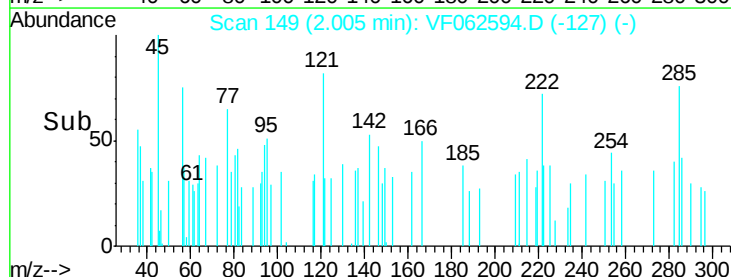
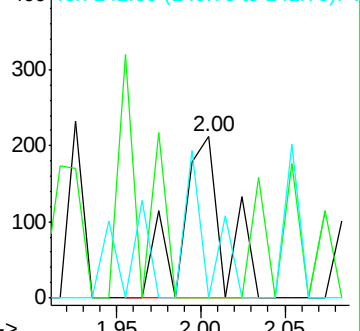
141 0.0 11.6 17.4#

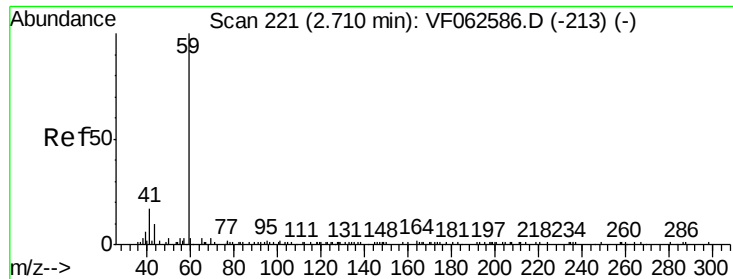


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

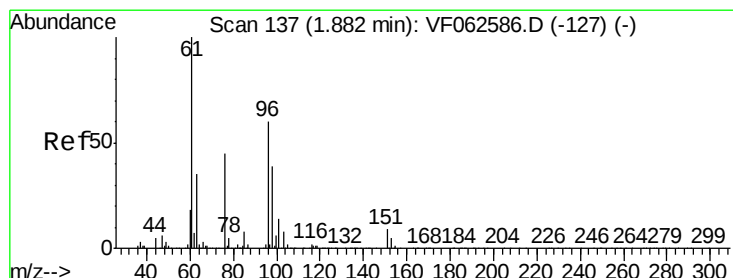
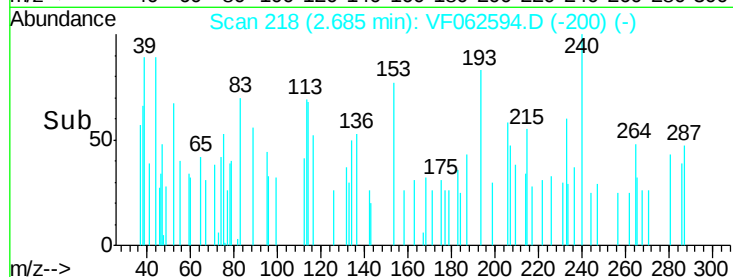
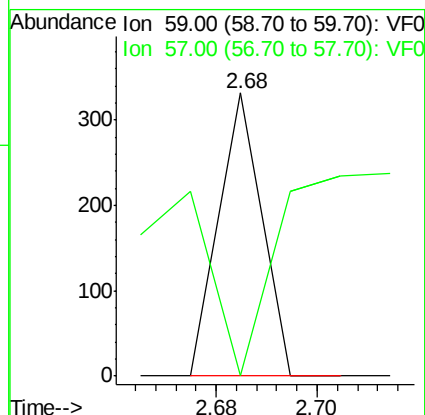
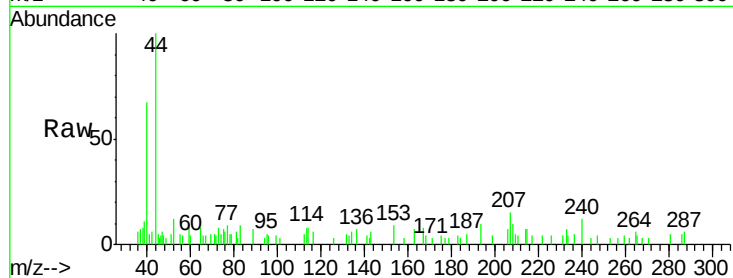




#11
Tert butyl alcohol
Concen: 408.071 ug/l
RT: 2.68 min Scan# 218
Delta R.T. -0.03 min
Lab File: VF062594.D
Acq: 14 May 2019 22:05

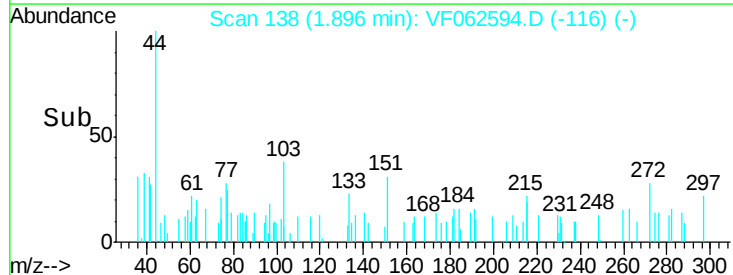
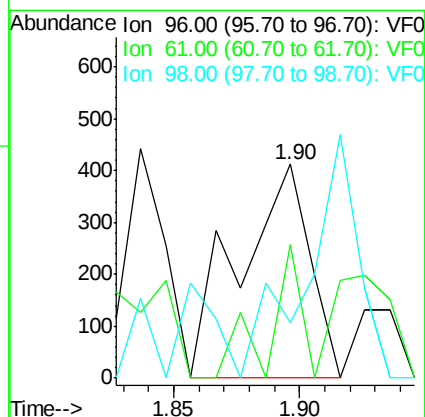
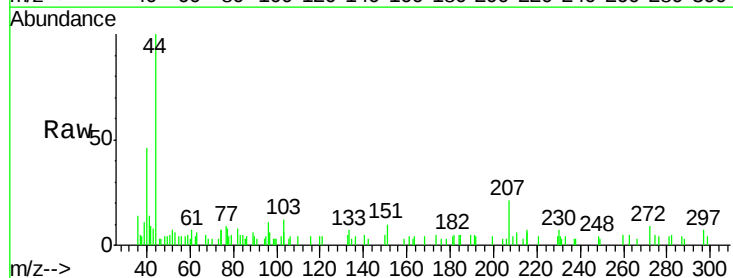
Instrument :
MSVOA_F
ClientSampleId :
CULVER-CBTC-WC1-051019

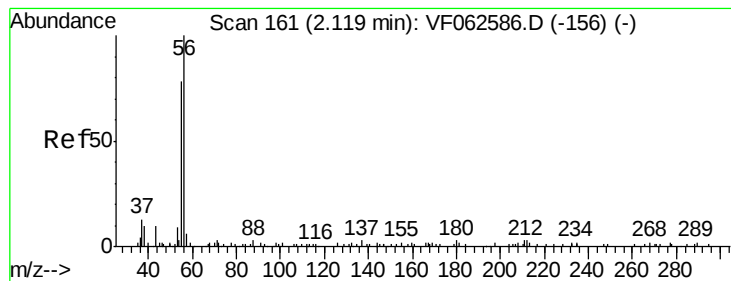
Tot Ion: 59 Resp: 196
Ion Ratio Lower Upper
59 100
57 0.0 8.0 12.0#



#12
1,1-Dichloroethene
Concen: 84.204 ug/l
RT: 1.90 min Scan# 138
Delta R.T. 0.01 min
Lab File: VF062594.D
Acq: 14 May 2019 22:05

Tgt Ion: 96 Resp: 808
Ion Ratio Lower Upper
96 100
61 41.3 132.0 198.0#
98 17.3 51.3 76.9#





#13

Acrolein

Concen: 738.260 ug/l

RT: 1.97 min Scan# 145

Delta R.T. -0.15 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

Instrument :

MSVOA_F

ClientSampleId :

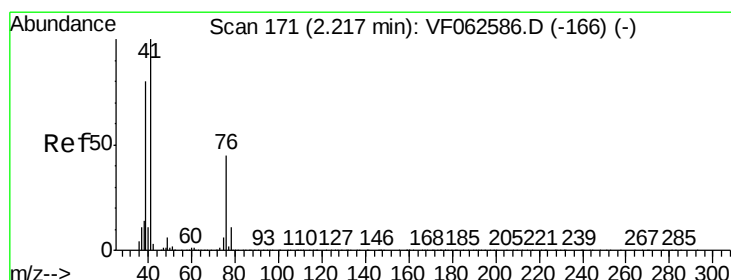
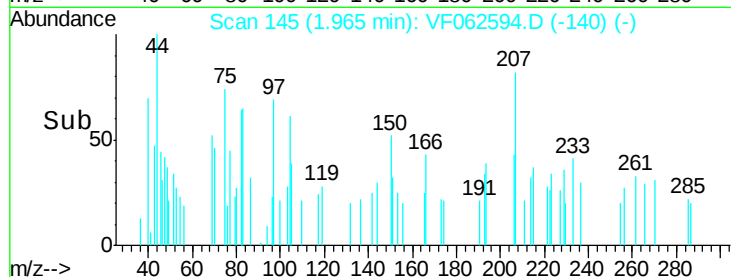
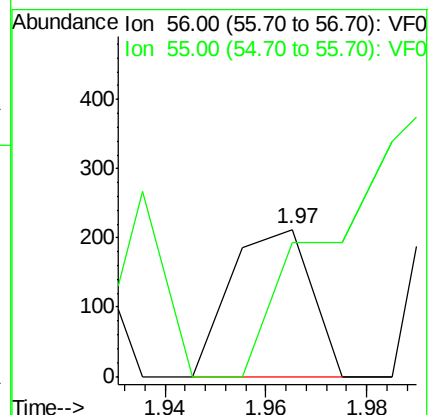
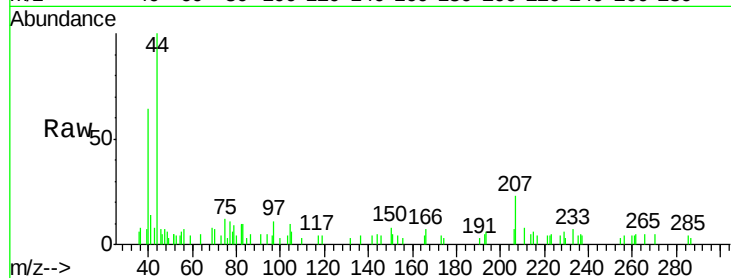
CULVER-CBTC-WC1-051019

Tot Ion: 56 Resp: 235

Ion Ratio Lower Upper

56 100

55 91.5 64.6 96.8



#14

Allyl chloride

Concen: 142.992 ug/l

RT: 2.22 min Scan# 171

Delta R.T. 0.00 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

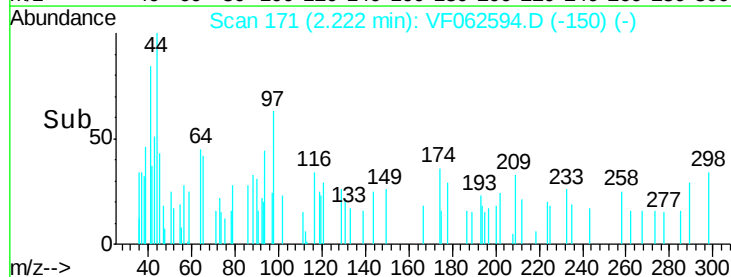
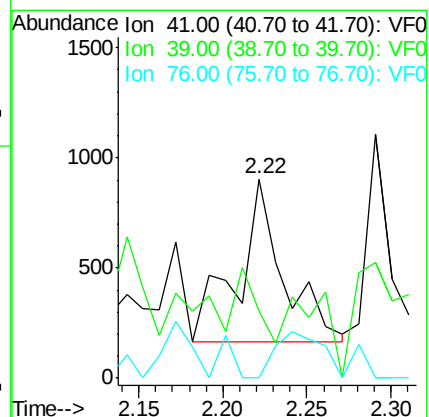
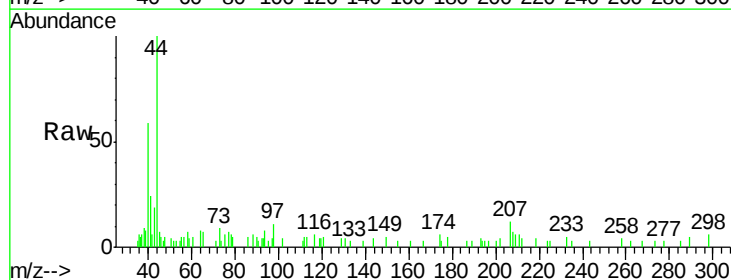
Tgt Ion: 41 Resp: 1404

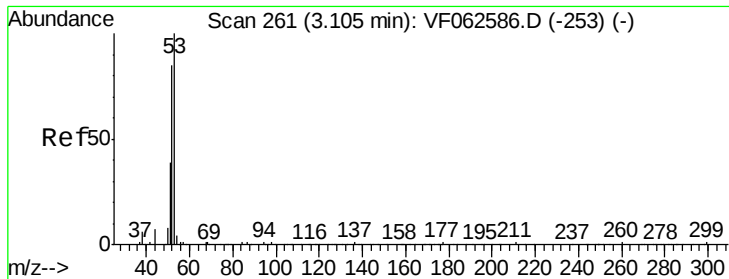
Ion Ratio Lower Upper

41 100

39 33.7 64.6 96.8#

76 0.0 36.1 54.1#





#15

Acrylonitrile

Concen: 179.263 ug/l

RT: 3.09 min Scan# 259

Delta R.T. -0.02 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1-051019

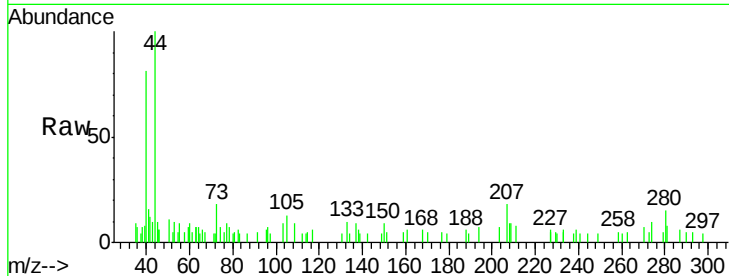
Tot Ion: 53 Resp: 308

Ion Ratio Lower Upper

53 100

52 52.7 68.3 102.5#

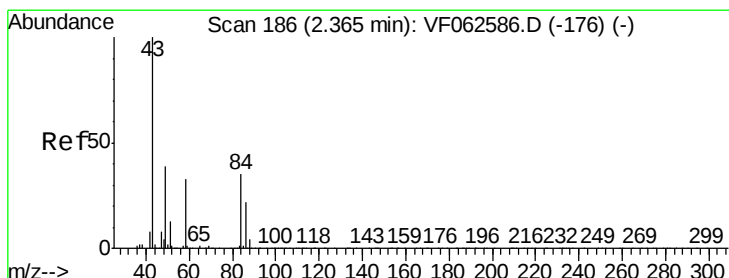
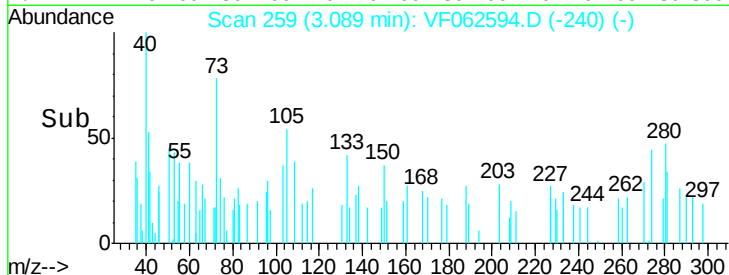
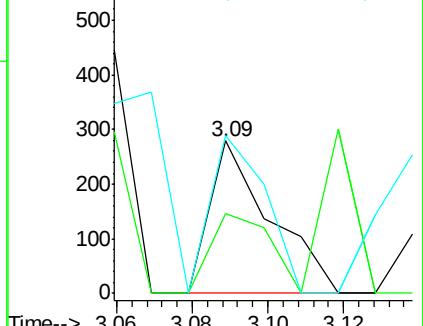
51 103.9 31.5 47.3#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 670.879 ug/l

RT: 2.22 min Scan# 171

Delta R.T. -0.14 min

Lab File: VF062594.D

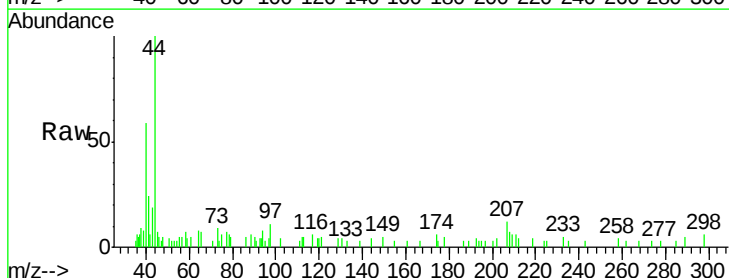
Acq: 14 May 2019 22:05

Tgt Ion: 43 Resp: 1086

Ion Ratio Lower Upper

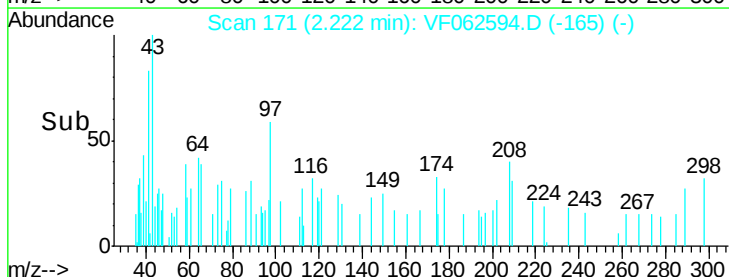
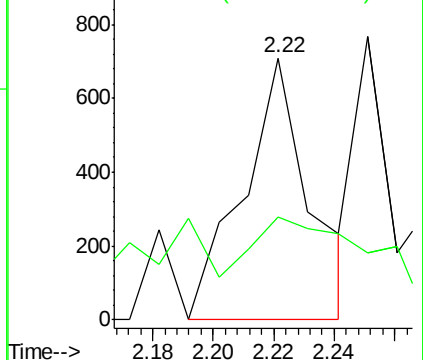
43 100

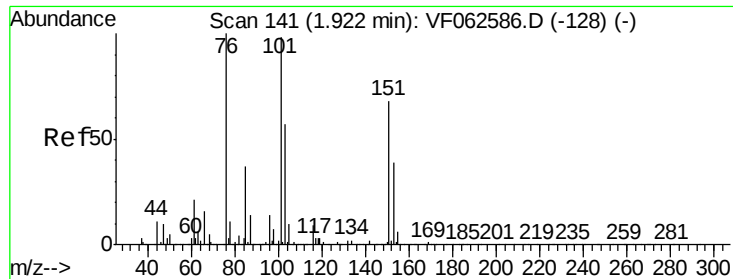
58 39.0 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

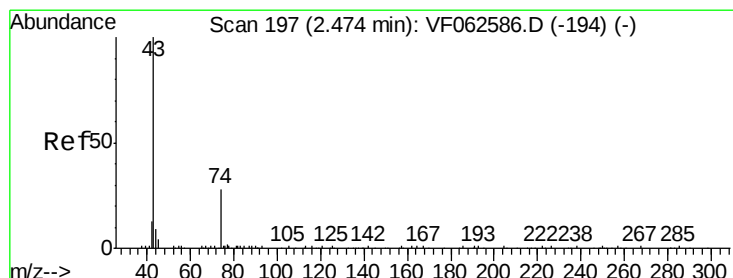
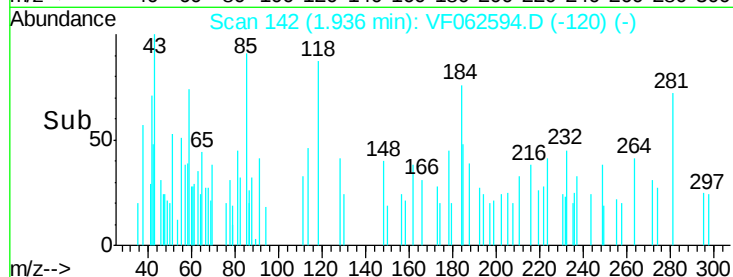
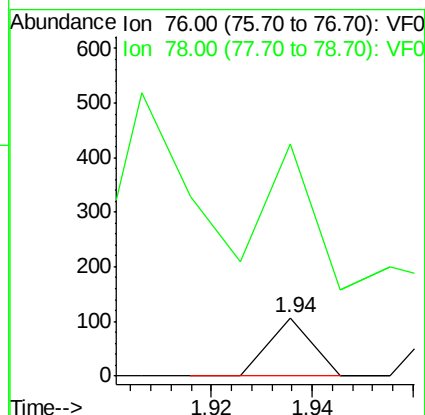
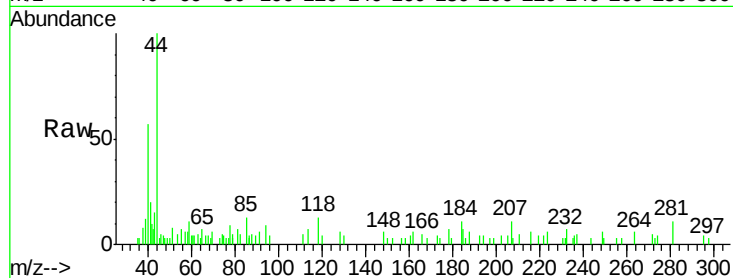




#17
Carbon Disulfide
Concen: Below Cal
RT: 1.94 min Scan# 142
Delta R.T. 0.01 min
Lab File: VF062594.D
Acq: 14 May 2019 22:05

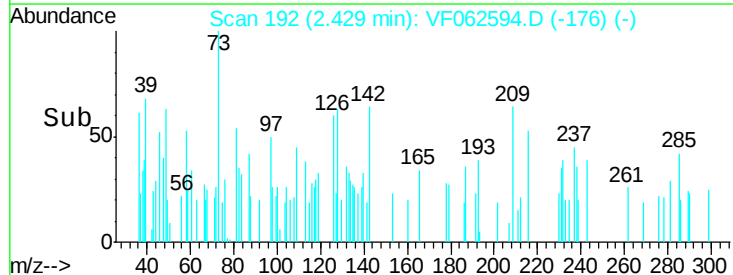
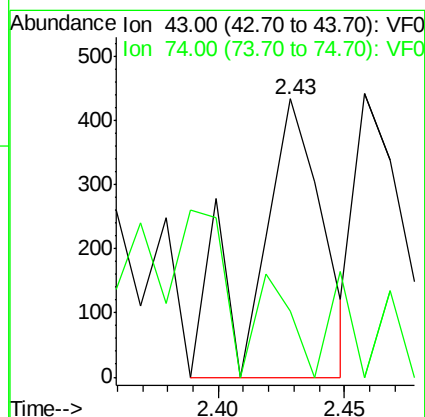
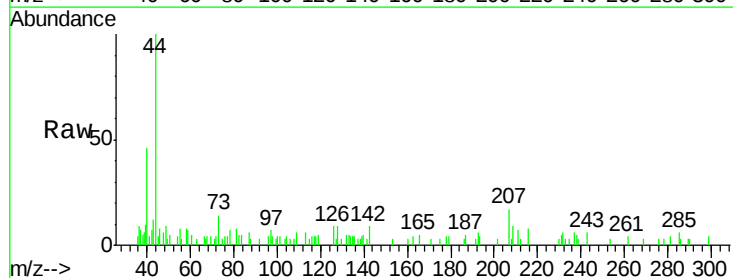
Instrument :
MSVOA_F
ClientSampleId :
CULVER-CBTC-WC1-051019

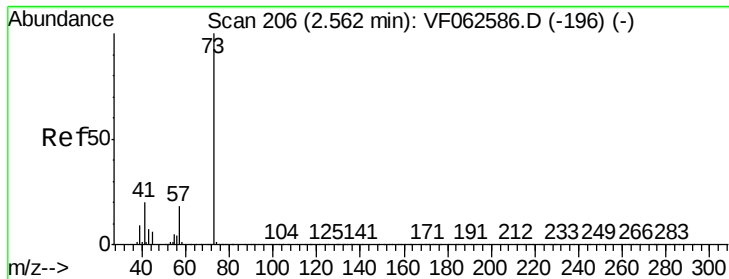
Tot Ion: 76 Resp: 63
Ion Ratio Lower Upper
76 100
78 400.0 9.0 13.4#



#18
Methyl Acetate
Concen: 261.362 ug/l
RT: 2.43 min Scan# 192
Delta R.T. -0.04 min
Lab File: VF062594.D
Acq: 14 May 2019 22:05

Tgt Ion: 43 Resp: 801
Ion Ratio Lower Upper
43 100
74 23.6 21.4 32.0



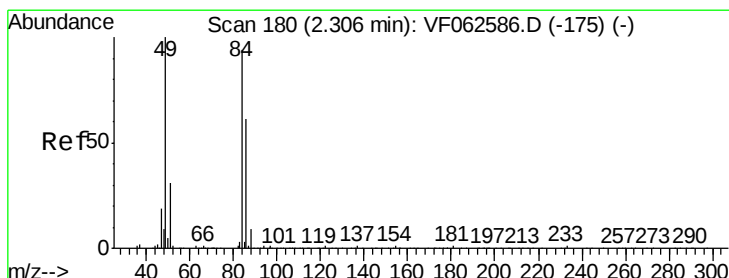
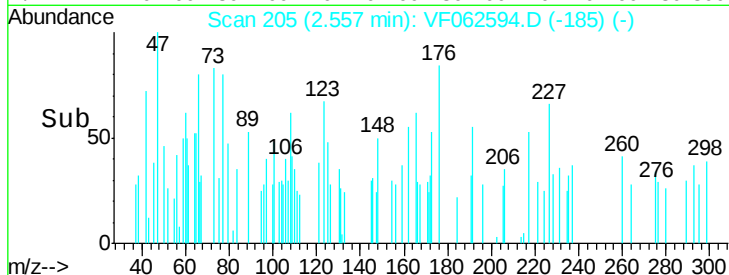
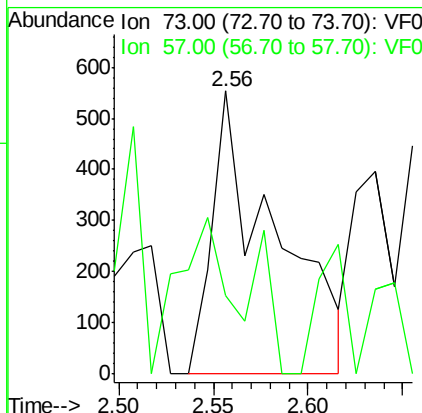
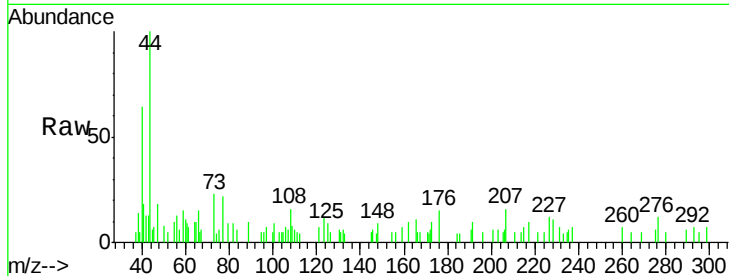


#19

Methyl tert-butyl Ether
 Concen: 74.567 ug/l
 RT: 2.56 min Scan# 205
 Delta R.T. -0.01 min
 Lab File: VF062594.D
 Acq: 14 May 2019 22:05

Instrument :
 MSVOA_F
 ClientSampleId :
 CULVER-CBTC-WC1-051019

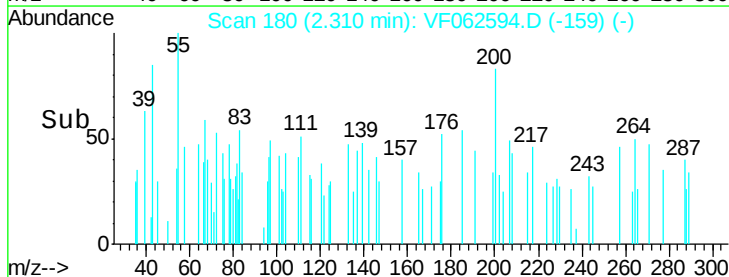
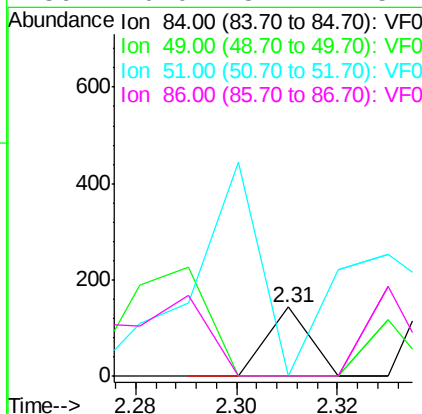
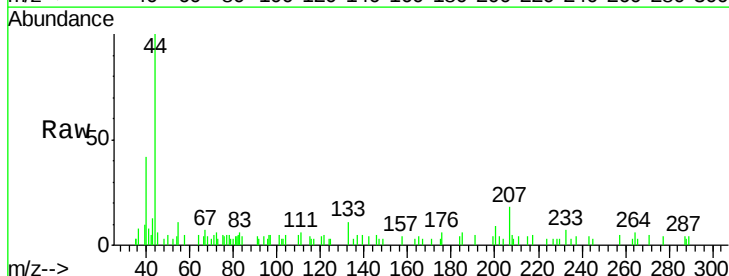
Tot Ion: 73 Resp: 1274
 Ion Ratio Lower Upper
 73 100
 57 27.7 14.6 22.0#

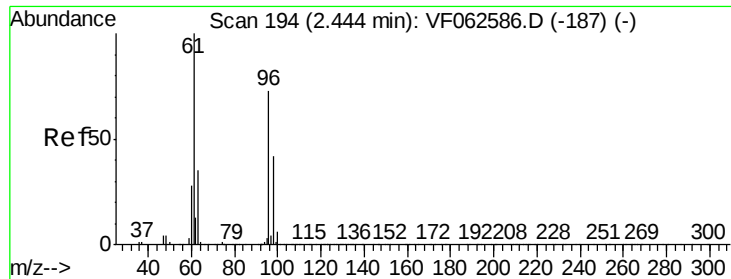


#20

Methylene Chloride
 Concen: 6.320 ug/l
 RT: 2.31 min Scan# 180
 Delta R.T. 0.00 min
 Lab File: VF062594.D
 Acq: 14 May 2019 22:05

Tgt Ion: 84 Resp: 85
 Ion Ratio Lower Upper
 84 100
 49 0.0 86.9 130.3#
 51 0.0 27.0 40.6#
 86 0.0 52.2 78.2#





#21

trans-1,2-Dichloroethene

Concen: 24.094 ug/l

RT: 2.44 min Scan# 193

Delta R.T. -0.01 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1-051019

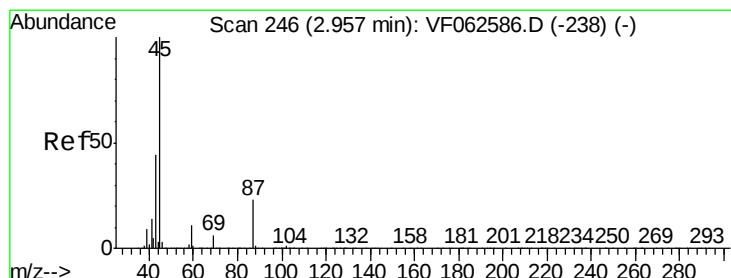
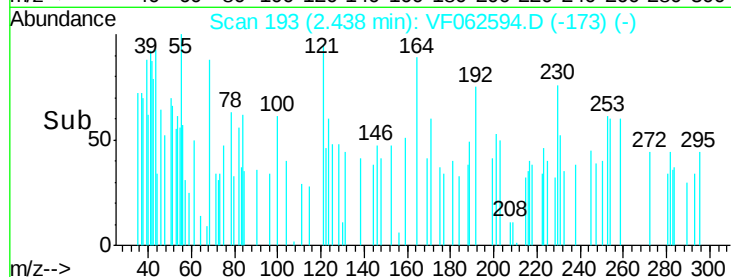
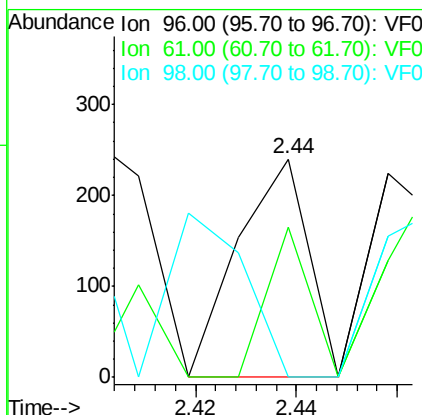
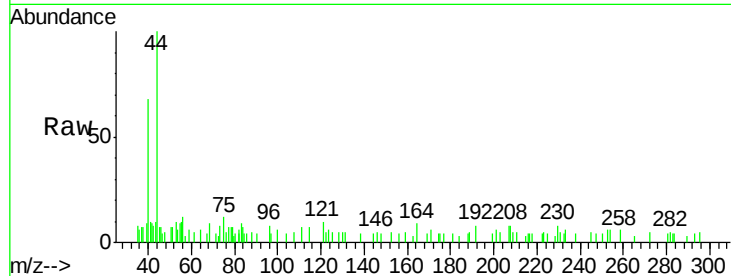
Tot Ion: 96 Resp: 233

Ion Ratio Lower Upper

96 100

61 68.8 109.2 163.8#

98 0.0 46.3 69.5#



#22

Diisopropyl ether

Concen: 36.050 ug/l

RT: 2.96 min Scan# 246

Delta R.T. 0.00 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

Tgt Ion: 45 Resp: 823

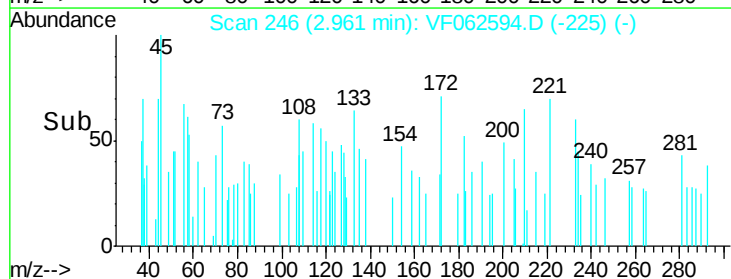
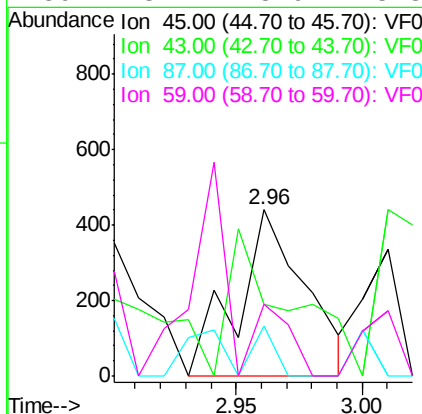
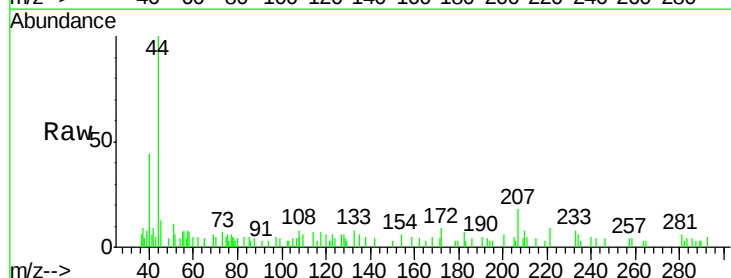
Ion Ratio Lower Upper

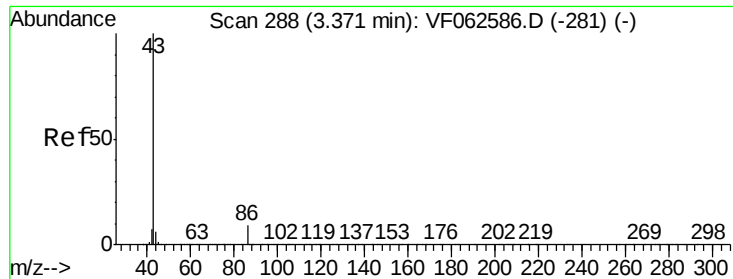
45 100

43 43.2 35.4 53.0

87 30.2 18.4 27.6#

59 43.2 8.9 13.3#





#23

Vinyl Acetate

Concen: 87.290 ug/l

RT: 3.35 min Scan# 285

Delta R.T. -0.03 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

Instrument :

MSVOA_F

ClientSampleId :

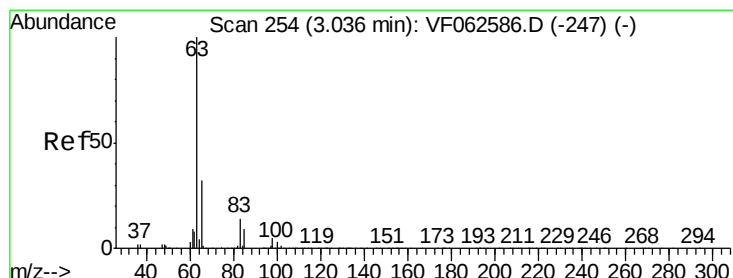
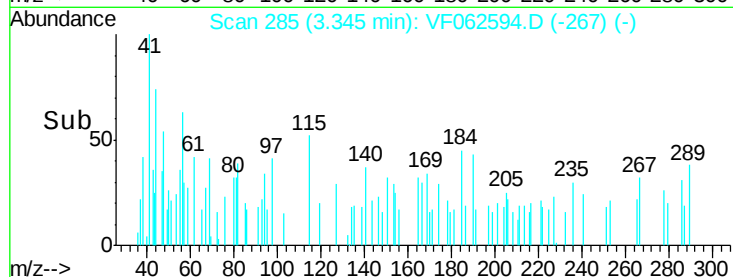
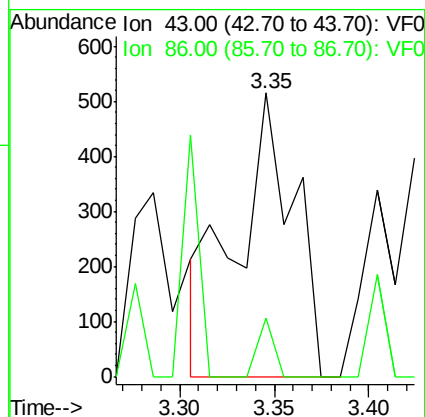
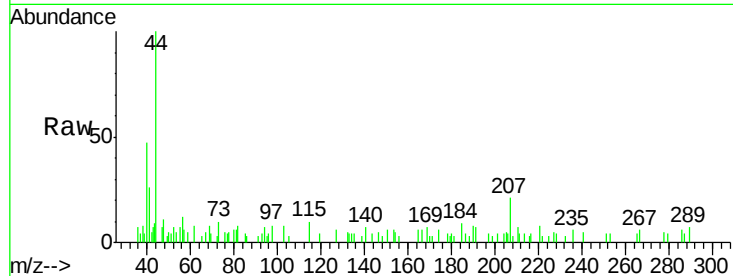
CULVER-CBTC-WC1-051019

Tot Ion: 43 Resp: 1090

Ion Ratio Lower Upper

43 100

86 20.4 7.1 10.7#



#24

1,1-Dichloroethane

Concen: 37.804 ug/l

RT: 3.04 min Scan# 254

Delta R.T. 0.00 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

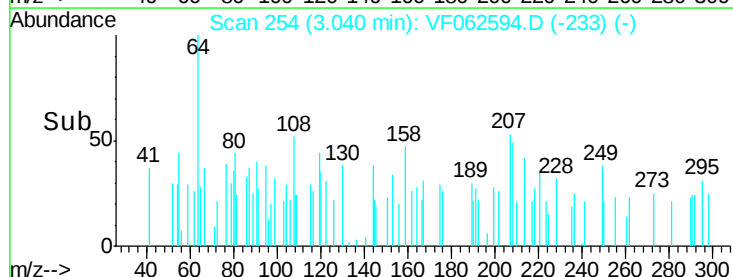
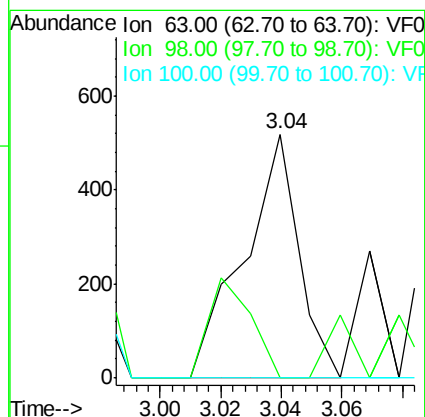
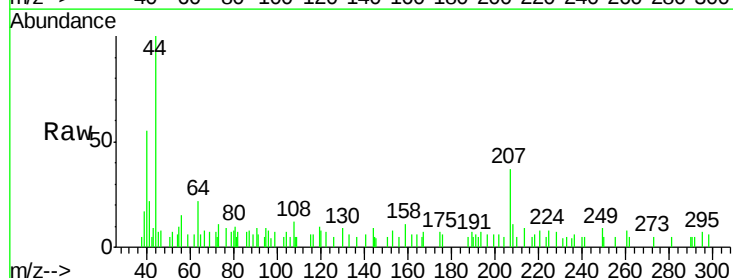
Tgt Ion: 63 Resp: 657

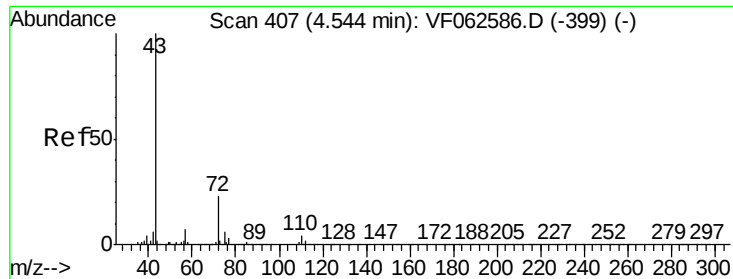
Ion Ratio Lower Upper

63 100

98 0.0 2.6 7.8#

100 0.0 1.7 5.1#

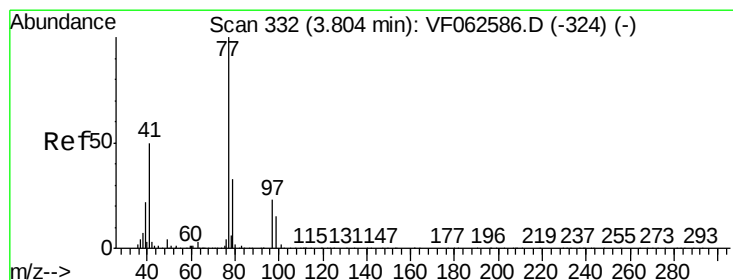
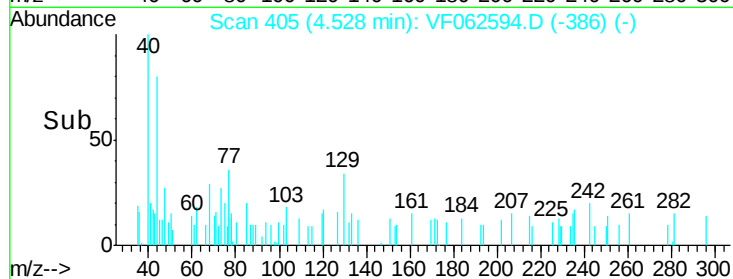
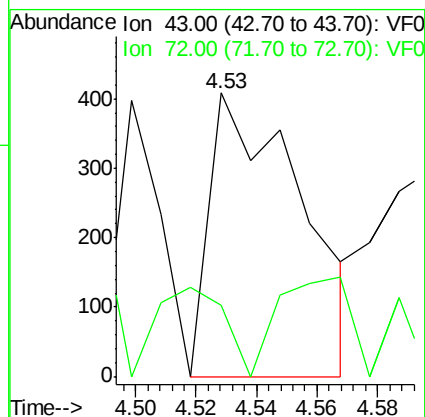
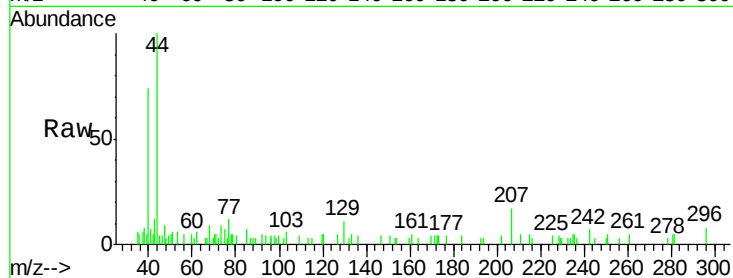




#25
2-Butanone
Concen: 236.087 ug/l
RT: 4.53 min Scan# 405
Delta R.T. -0.02 min
Lab File: VF062594.D
Acq: 14 May 2019 22:05

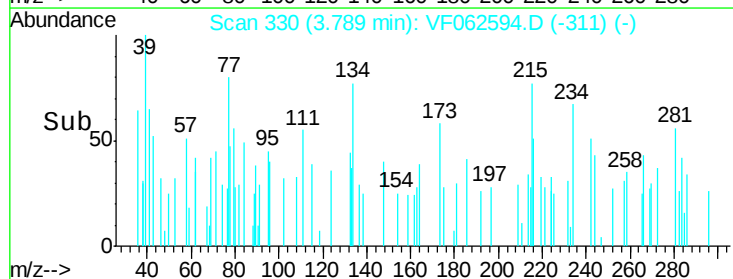
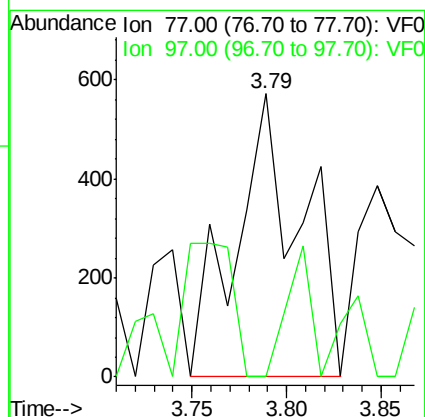
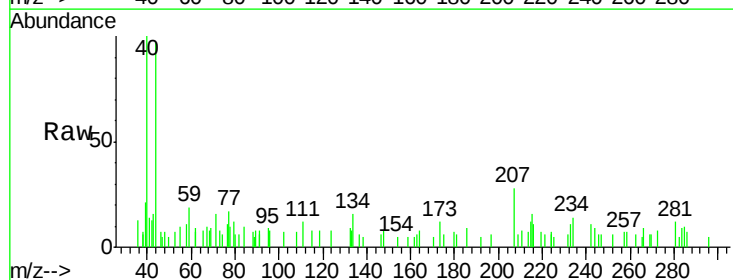
Instrument :
MSVOA_F
ClientSampleId :
CULVER-CBTC-WC1-051019

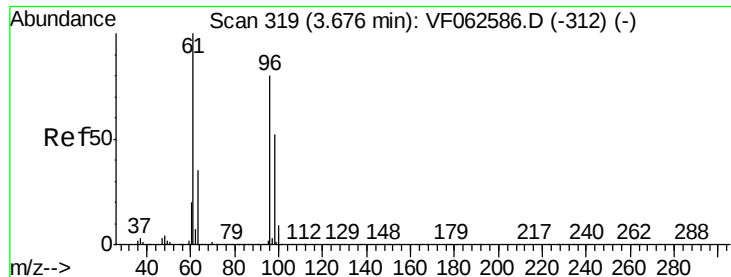
Tot Ion: 43 Resp: 864
Ion Ratio Lower Upper
43 100
72 25.0 18.5 27.7



#26
2,2-Dichloropropane
Concen: 147.452 ug/l
RT: 3.79 min Scan# 330
Delta R.T. -0.02 min
Lab File: VF062594.D
Acq: 14 May 2019 22:05

Tgt Ion: 77 Resp: 1383
Ion Ratio Lower Upper
77 100
97 0.0 12.0 36.0#



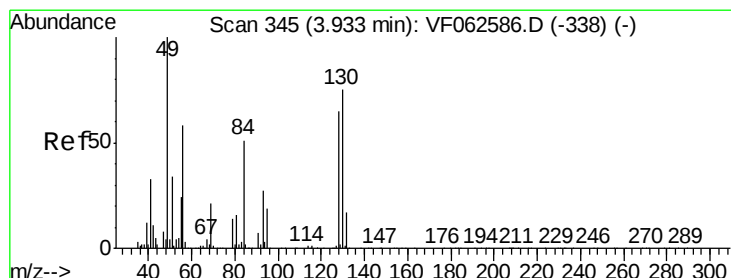
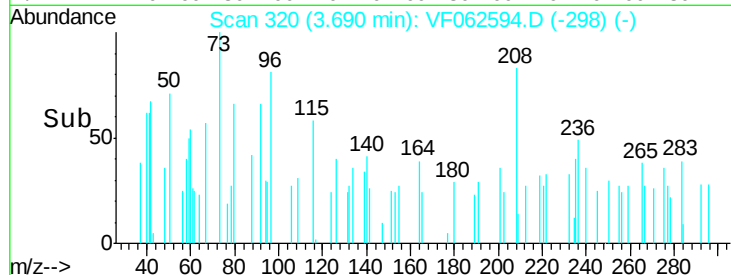
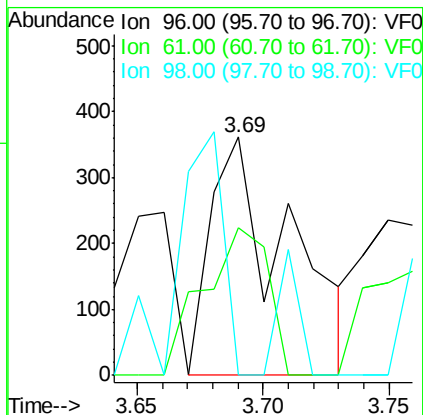
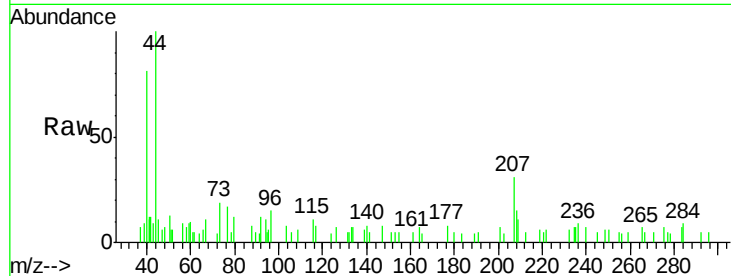


#27

cis-1,2-Dichloroethene
Concen: 56.503 ug/l
RT: 3.69 min Scan# 320
Delta R.T. 0.01 min
Lab File: VF062594.D
Acq: 14 May 2019 22:05

Instrument :
MSVOA_F
ClientSampleId :
CULVER-CBTC-WC1-051019

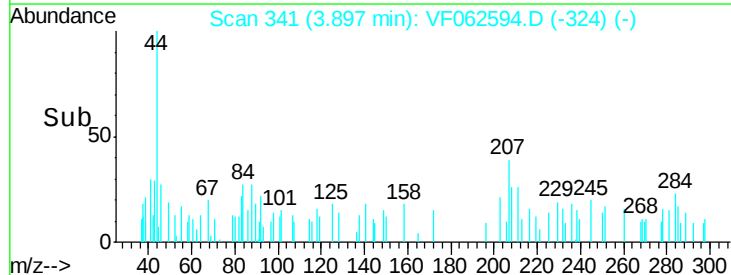
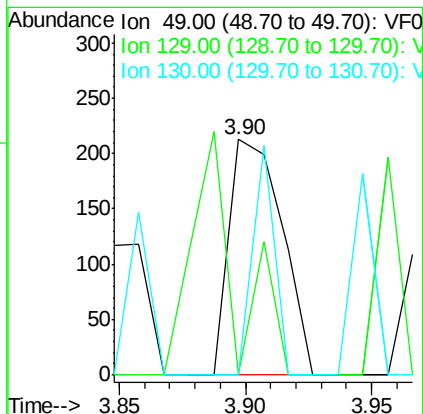
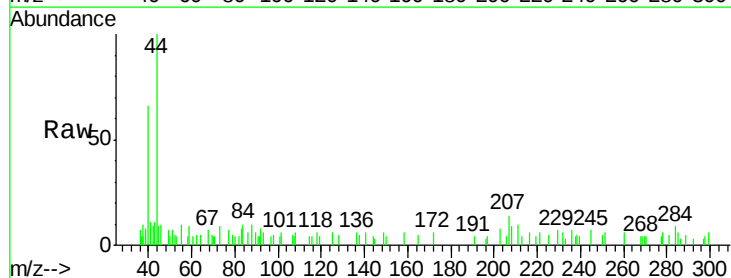
Tot Ion: 96 Resp: 772
Ion Ratio Lower Upper
96 100
61 62.0 0.0 251.4
98 0.0 0.0 129.8

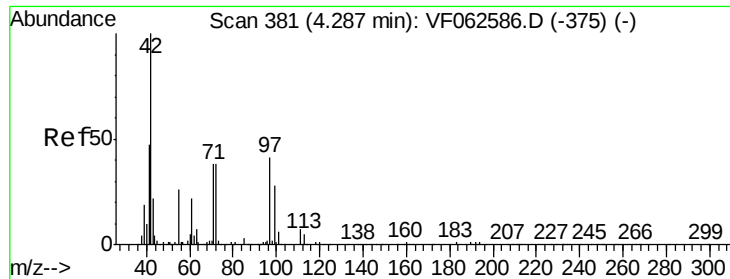


#28

Bromochloromethane
Concen: 31.733 ug/l
RT: 3.90 min Scan# 341
Delta R.T. -0.04 min
Lab File: VF062594.D
Acq: 14 May 2019 22:05

Tgt Ion: 49 Resp: 310
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.0
130 0.0 59.7 89.5#

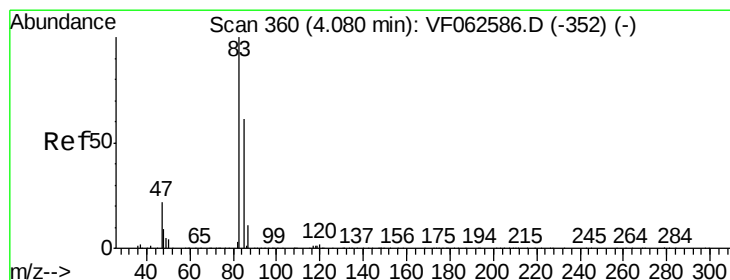
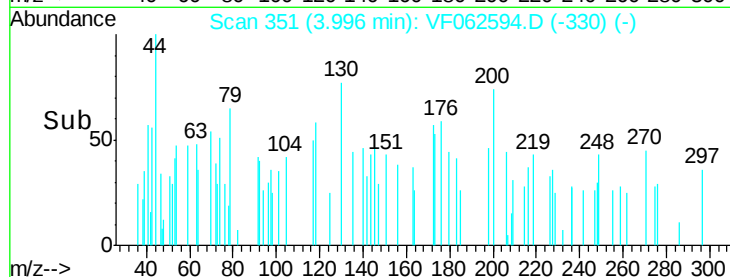
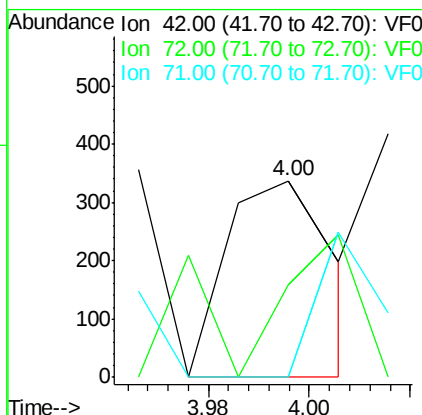
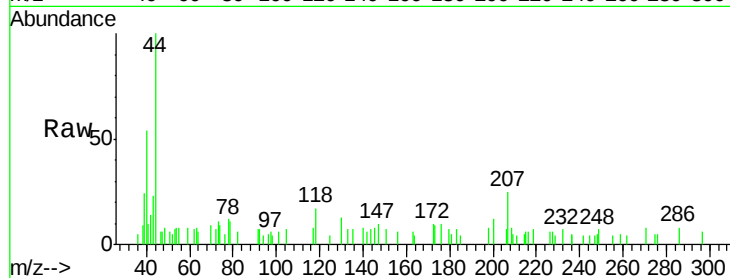




#29
Tetrahydrofuran
Concen: 318.338 ug/l
RT: 4.00 min Scan# 351
Delta R.T. -0.29 min
Lab File: VF062594.D
Acq: 14 May 2019 22:05

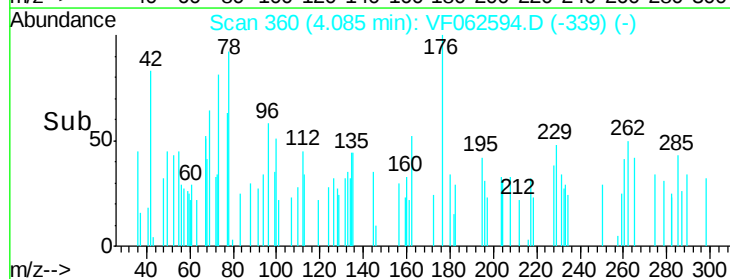
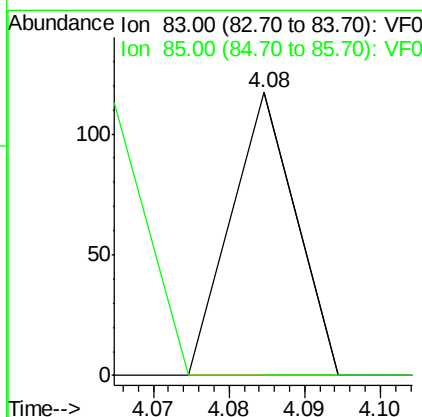
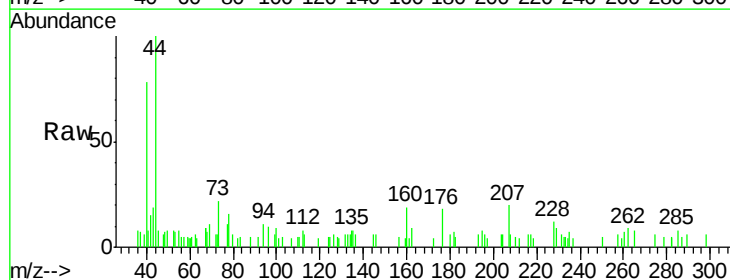
Instrument :
MSVOA_F
ClientSampleId :
CULVER-CBTC-WC1-051019

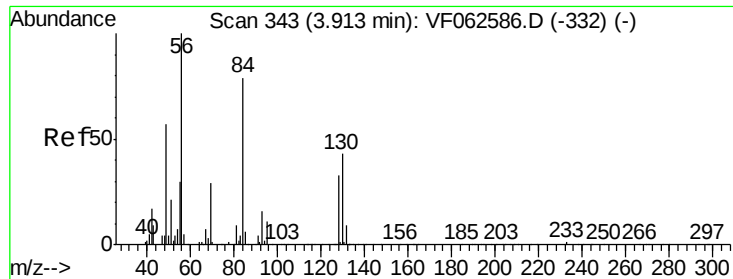
Tot Ion: 42 Resp: 493
Ion Ratio Lower Upper
42 100
72 48.3 34.0 51.0
71 43.2 32.8 49.2



#30
Chloroform
Concen: 3.309 ug/l
RT: 4.08 min Scan# 360
Delta R.T. 0.00 min
Lab File: VF062594.D
Acq: 14 May 2019 22:05

Tgt Ion: 83 Resp: 69
Ion Ratio Lower Upper
83 100
85 0.0 48.7 73.1#

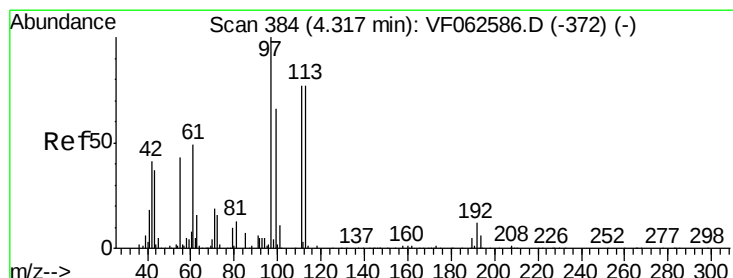
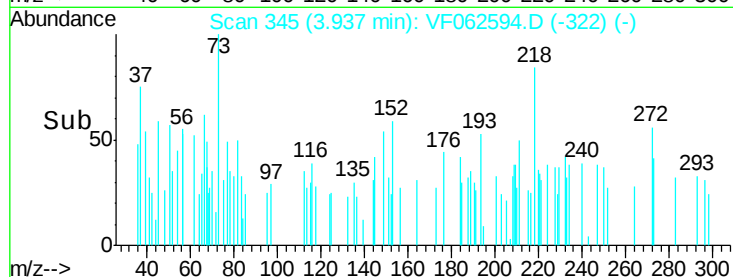
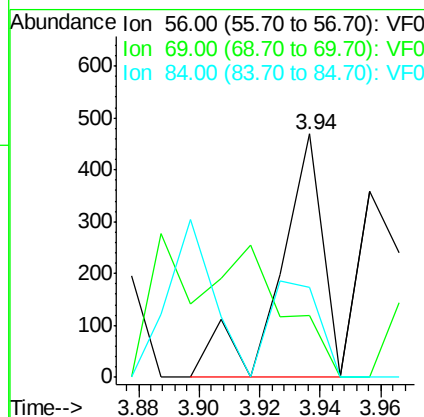
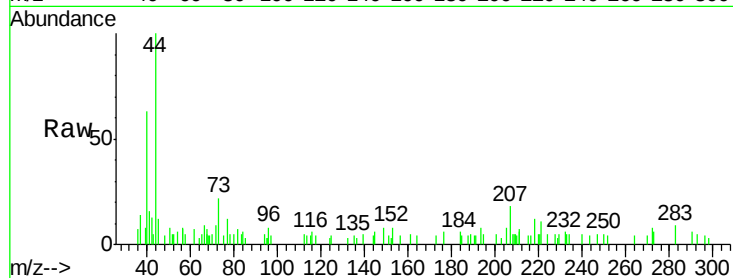




#31
Cyclohexane
Concen: 25.396 ug/l
RT: 3.94 min Scan# 345
Delta R.T. 0.02 min
Lab File: VF062594.D
Acq: 14 May 2019 22:05

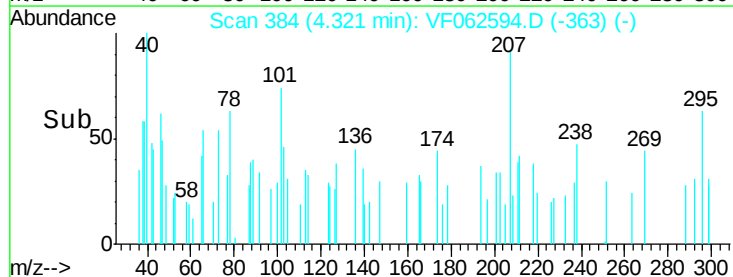
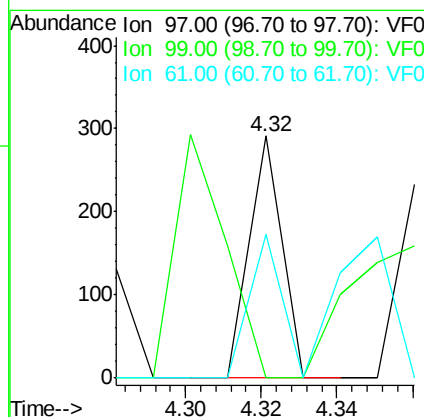
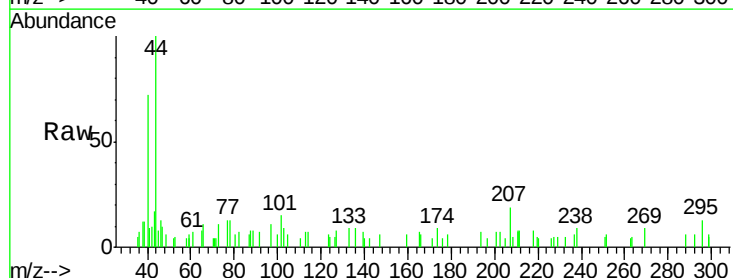
Instrument :
MSVOA_F
ClientSampleId :
CULVER-CBTC-WC1-051019

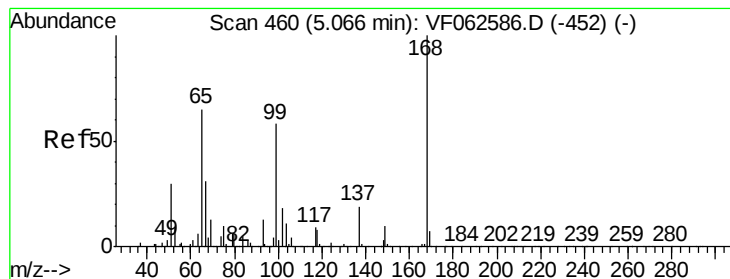
Tot Ion: 56 Resp: 460
Ion Ratio Lower Upper
56 100
69 25.4 22.9 34.3
84 37.1 63.4 95.2#



#32
1,1,1-Trichloroethane
Concen: 12.236 ug/l
RT: 4.32 min Scan# 384
Delta R.T. 0.00 min
Lab File: VF062594.D
Acq: 14 May 2019 22:05

Tgt Ion: 97 Resp: 172
Ion Ratio Lower Upper
97 100
99 0.0 53.4 80.0#
61 59.5 38.9 58.3#





#33

1,2-Dichloroethane-d4

Concen: 24.444 ug/l

RT: 5.05 min Scan# 458

Delta R.T. -0.02 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

Instrument :

MSVOA_F

ClientSampleId :

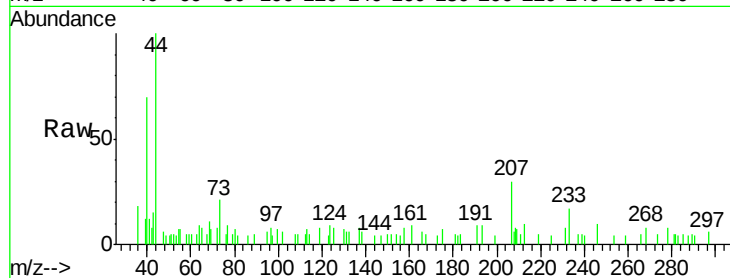
CULVER-CBTC-WC1-051019

Tot Ion: 65 Resp: 195

Ion Ratio Lower Upper

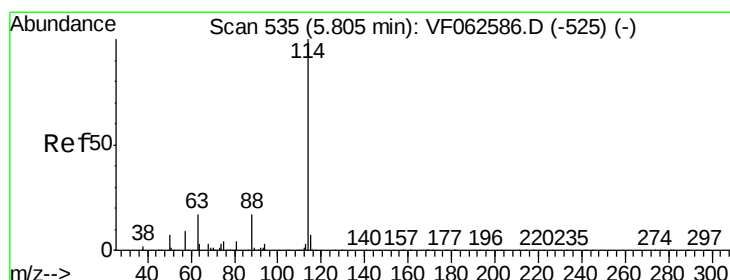
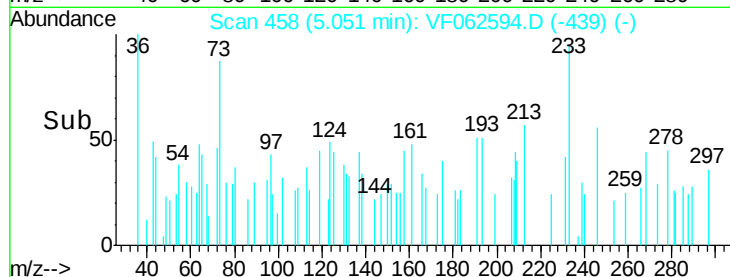
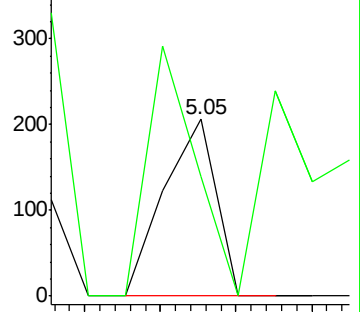
65 100

67 67.5 0.0 116.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 541

Delta R.T. 0.06 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

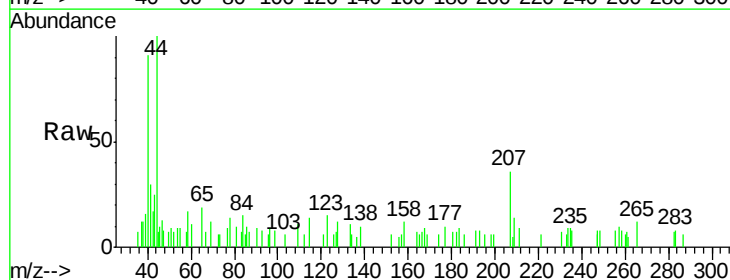
Tgt Ion: 114 Resp: 397

Ion Ratio Lower Upper

114 100

63 0.0 0.0 34.6

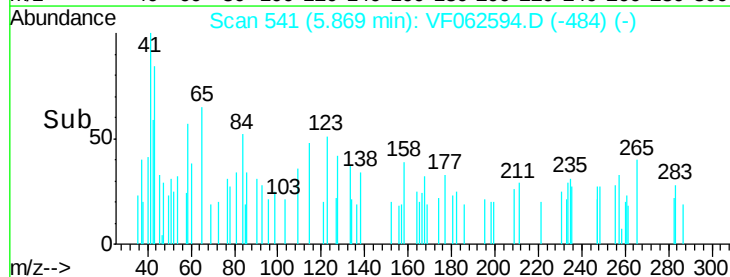
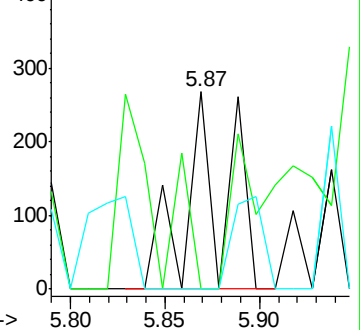
88 0.0 0.0 33.6

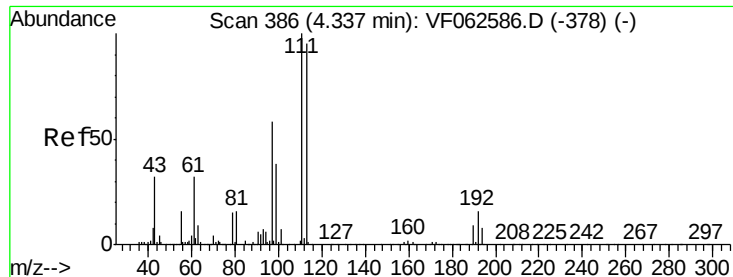


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

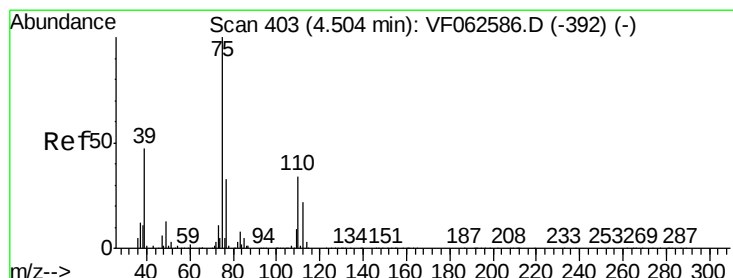
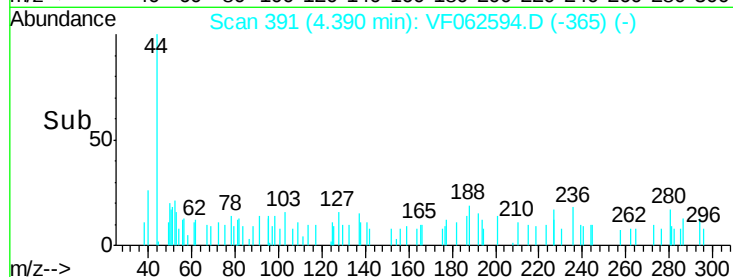
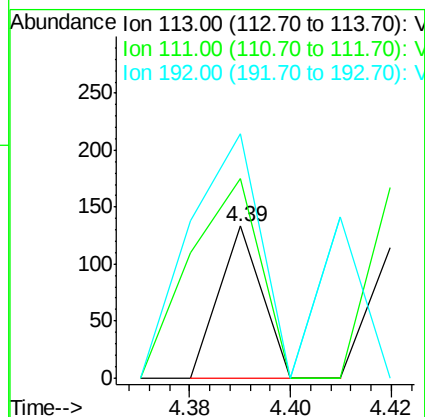
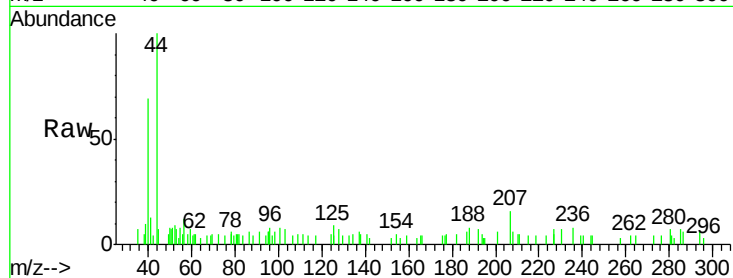




#35
 Dibromofluoromethane
 Concen: 26.736 ug/l
 RT: 4.39 min Scan# 391
 Delta R.T. 0.05 min
 Lab File: VF062594.D
 Acq: 14 May 2019 22:05

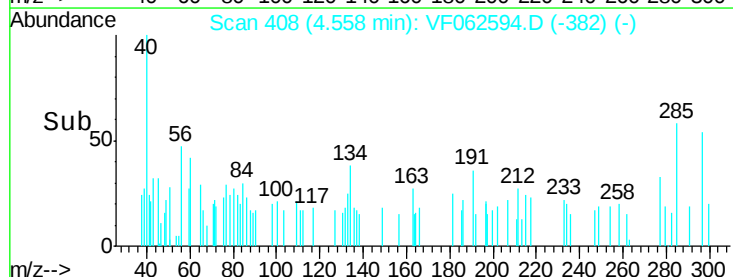
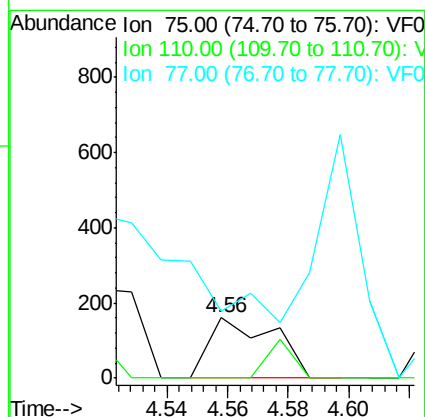
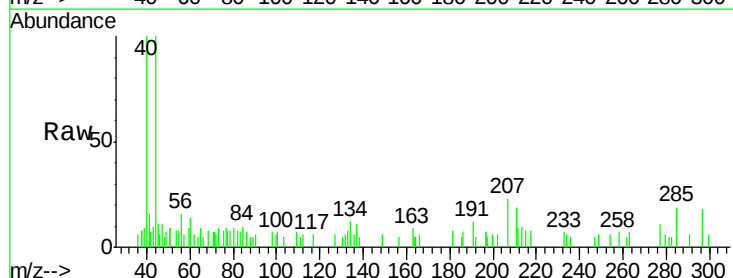
Instrument :
 MSVOA_F
 ClientSampleId :
 CULVER-CBTC-WC1-051019

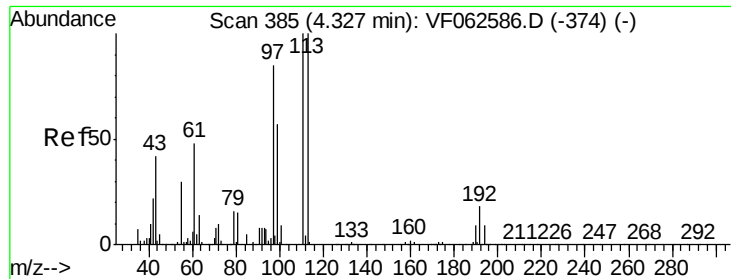
Tot Ion:113 Resp: 79
 Ion Ratio Lower Upper
 113 100
 111 131.6 83.9 125.9#
 192 160.9 13.7 20.5#



#36
 1,1-Dichloropropene
 Concen: 69.282 ug/l
 RT: 4.56 min Scan# 408
 Delta R.T. 0.05 min
 Lab File: VF062594.D
 Acq: 14 May 2019 22:05

Tgt Ion: 75 Resp: 238
 Ion Ratio Lower Upper
 75 100
 110 0.0 17.3 51.7#
 77 110.6 26.4 39.6#

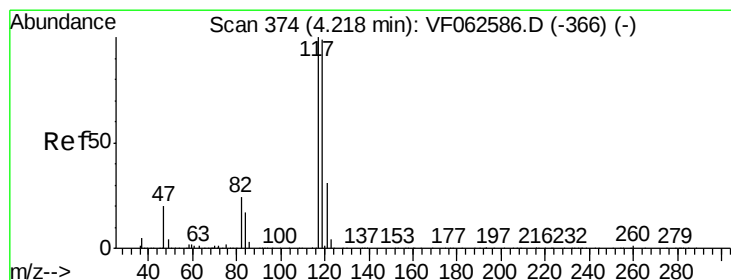
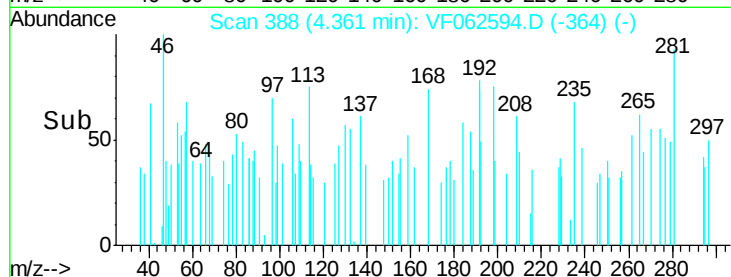
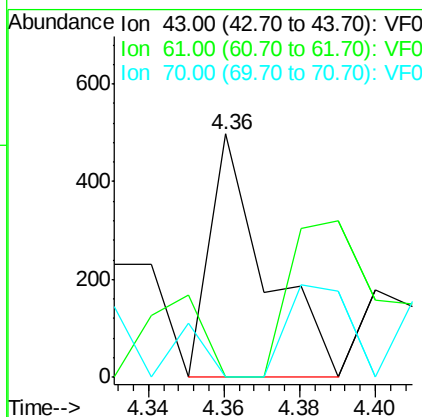
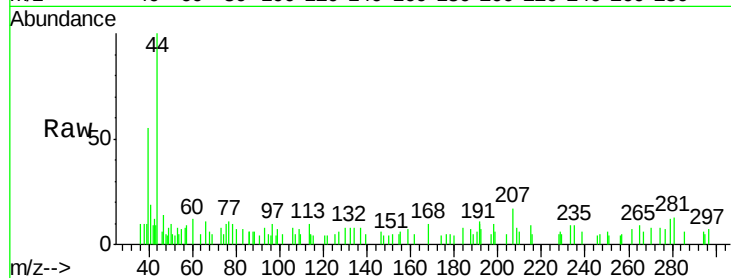




#37
Ethyl Acetate
Concen: 359.858 ug/l
RT: 4.36 min Scan# 388
Delta R.T. 0.03 min
Lab File: VF062594.D
Acq: 14 May 2019 22:05

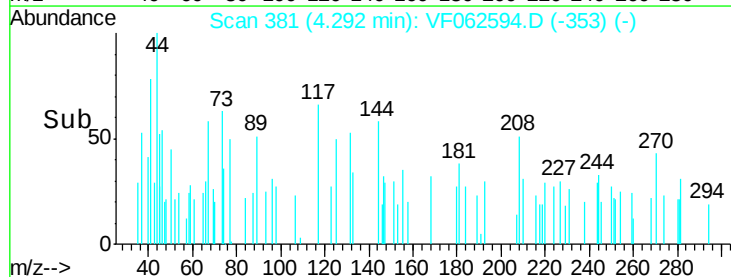
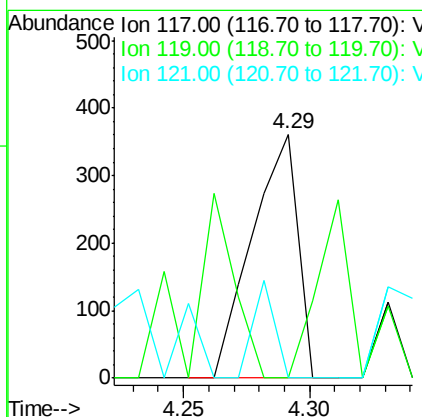
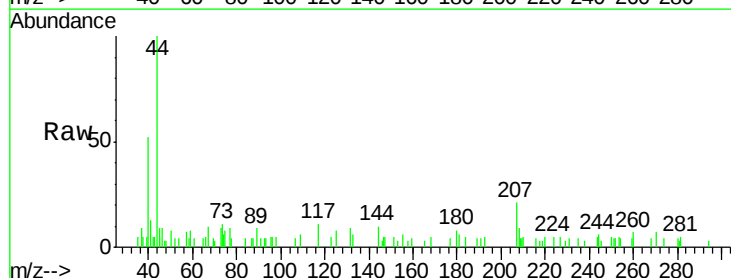
Instrument :
MSVOA_F
ClientSampleId :
CULVER-CBTC-WC1-051019

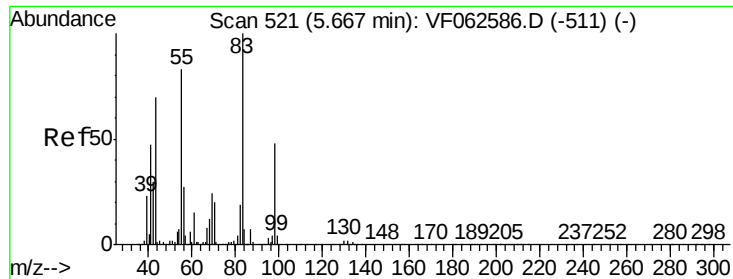
Tot Ion: 43 Resp: 508
Ion Ratio Lower Upper
43 100
61 0.0 88.6 132.8#
70 0.0 8.3 12.5#



#38
Carbon Tetrachloride
Concen: 162.170 ug/l
RT: 4.29 min Scan# 381
Delta R.T. 0.07 min
Lab File: VF062594.D
Acq: 14 May 2019 22:05

Tgt Ion: 117 Resp: 457
Ion Ratio Lower Upper
117 100
119 0.0 79.0 118.6#
121 0.0 25.0 37.6#

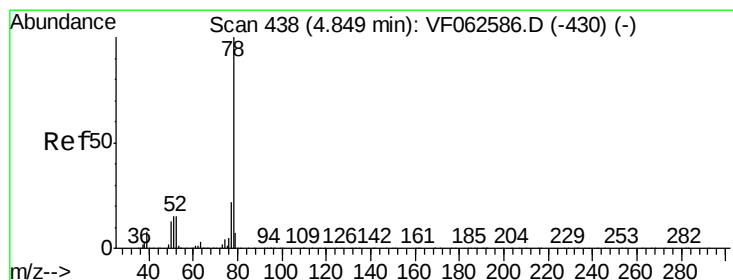
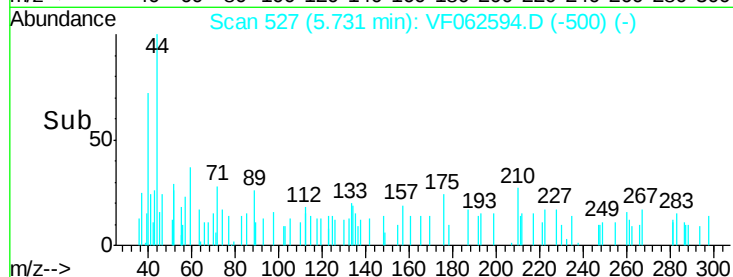
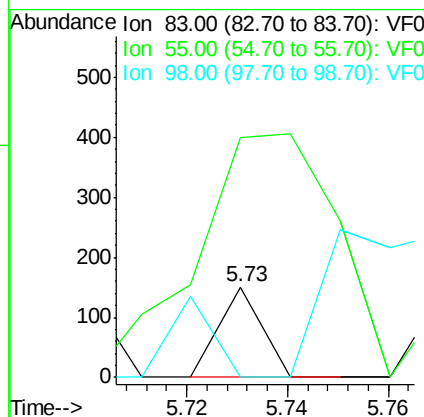
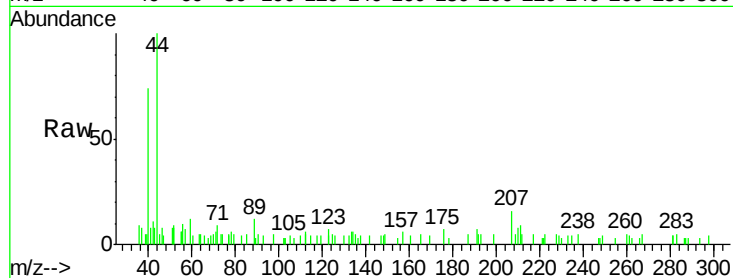




#39
Methvlcvclohexane
Concen: 22.128 ug/l
RT: 5.73 min Scan# 527
Delta R.T. 0.06 min
Lab File: VF062594.D
Acq: 14 May 2019 22:05

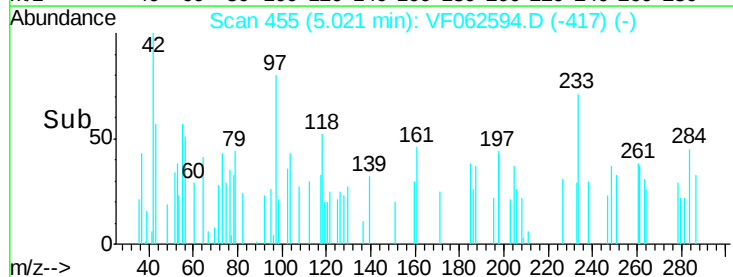
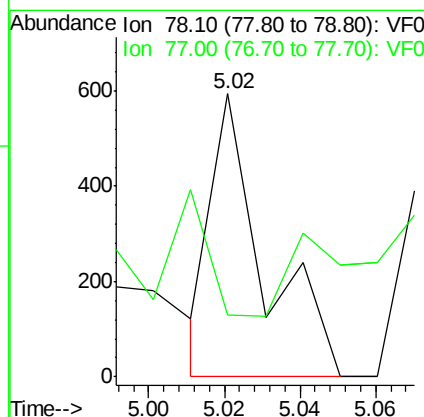
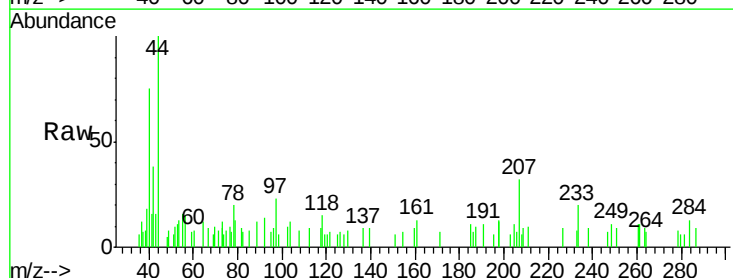
Instrument :
MSVOA_F
ClientSampleId :
CULVER-CBTC-WC1-051019

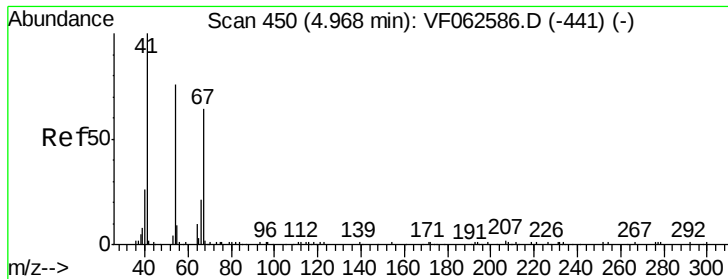
Tot Ion: 83 Resp: 89
Ion Ratio Lower Upper
83 100
55 264.2 66.6 100.0#
98 0.0 38.3 57.5#



#40
Benzene
Concen: 58.120 ug/l
RT: 5.02 min Scan# 455
Delta R.T. 0.17 min
Lab File: VF062594.D
Acq: 14 May 2019 22:05

Tgt Ion: 78 Resp: 568
Ion Ratio Lower Upper
78 100
77 21.7 17.7 26.5





#41

Methacrylonitrile

Concen: 380.284 ug/l

RT: 5.00 min Scan# 453

Delta R.T. 0.03 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1-051019

Tot Ion: 41 Resp: 304

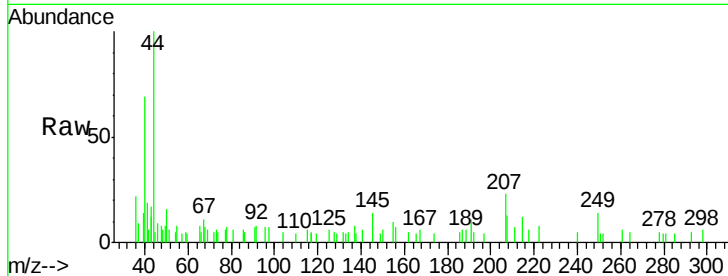
Ion Ratio Lower Upper

41 100

39 72.9 40.8 61.2#

67 58.8 50.2 75.2

52 0.0 36.8 55.2#

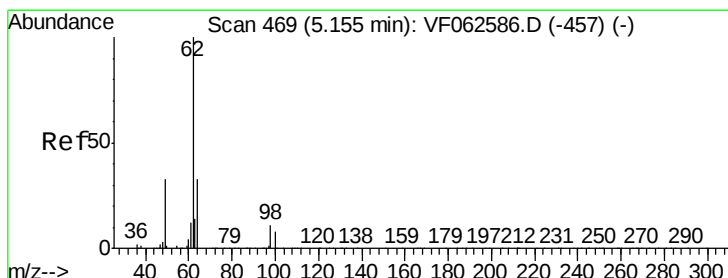
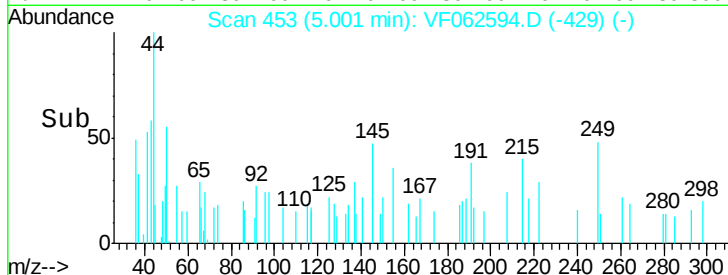
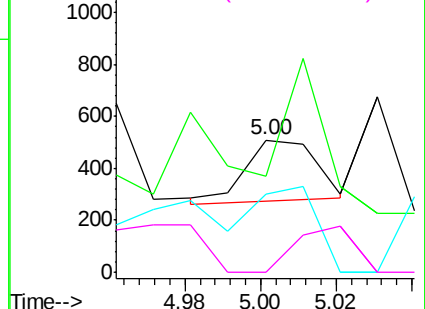


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 31.342 ug/l

RT: 5.19 min Scan# 472

Delta R.T. 0.03 min

Lab File: VF062594.D

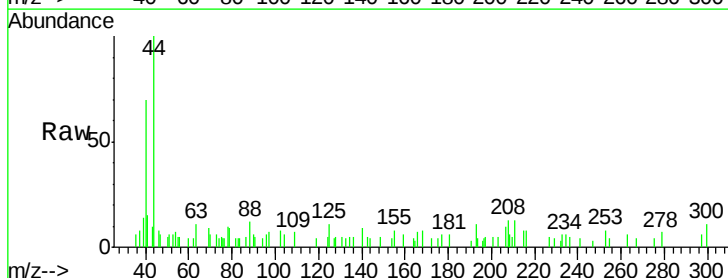
Acq: 14 May 2019 22:05

Tgt Ion: 62 Resp: 65

Ion Ratio Lower Upper

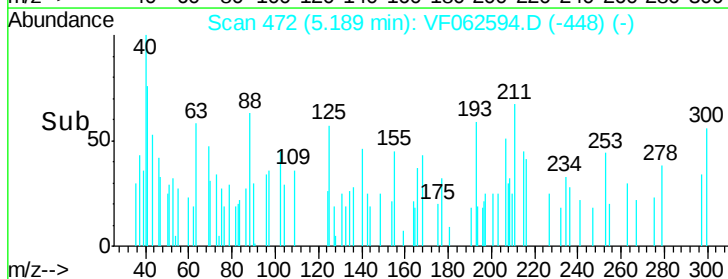
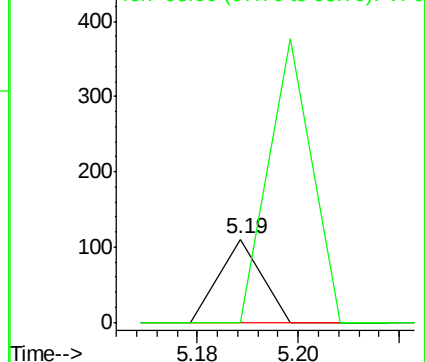
62 100

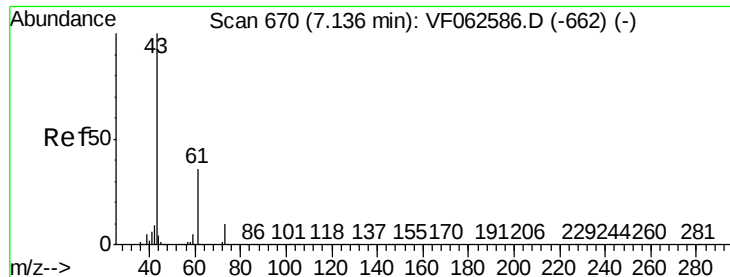
98 0.0 0.0 22.2



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 802.165 ug/l

RT: 7.23 min Scan# 679

Delta R.T. 0.09 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1-051019

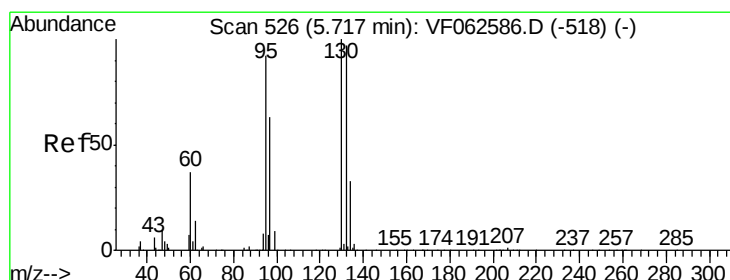
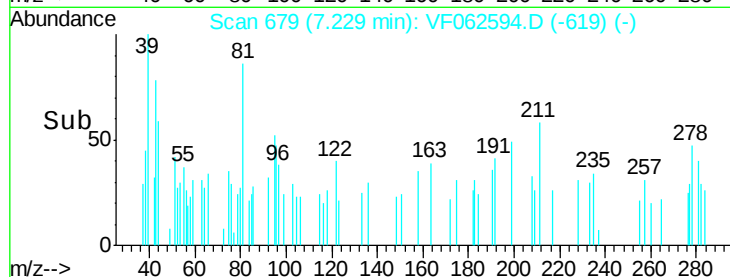
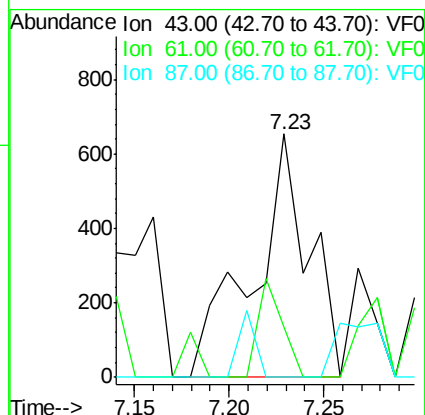
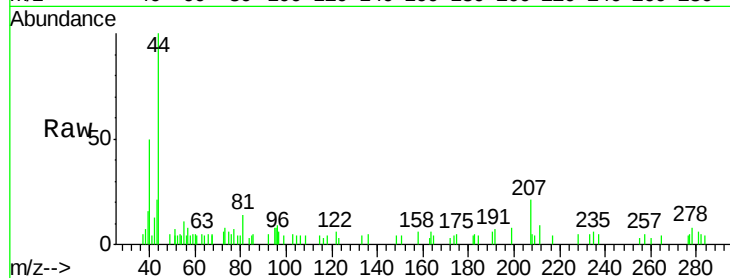
Tot Ion: 43 Resp: 1340

Ion Ratio Lower Upper

43 100

61 20.5 28.5 42.7#

87 0.0 0.4 0.6#



#44

Trichloroethene

Concen: 63.654 ug/l

RT: 5.80 min Scan# 534

Delta R.T. 0.08 min

Lab File: VF062594.D

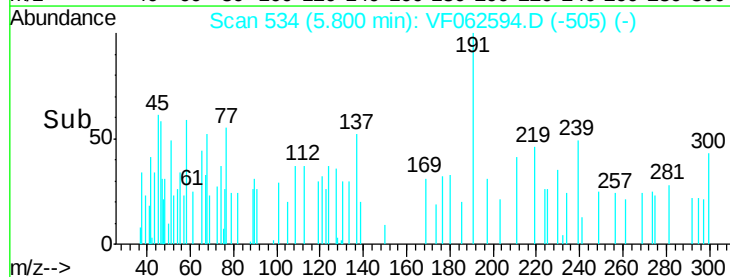
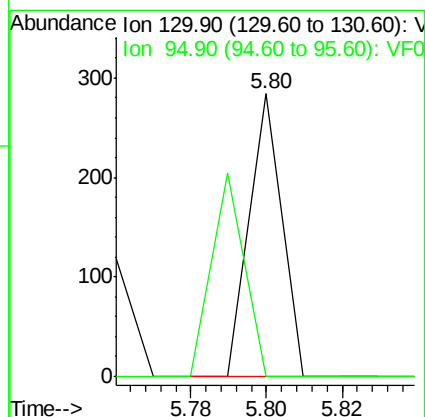
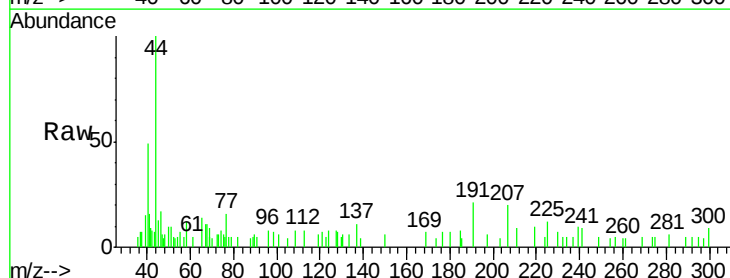
Acq: 14 May 2019 22:05

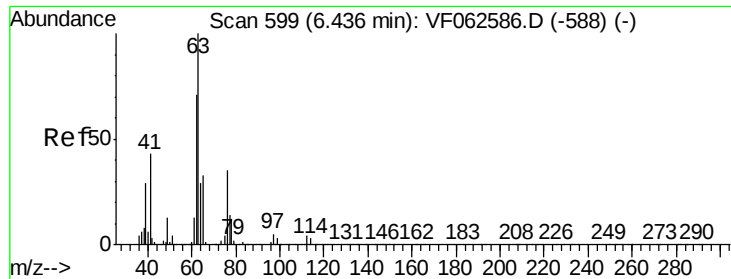
Tgt Ion:130 Resp: 168

Ion Ratio Lower Upper

130 100

95 0.0 0.0 185.0





#45

1,2-Dichloropropane

Concen: 159.353 ug/l

RT: 6.46 min Scan# 601

Delta R.T. 0.02 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

Instrument :

MSVOA_F

ClientSampleId :

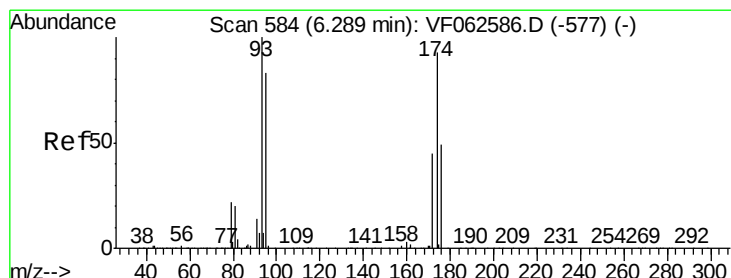
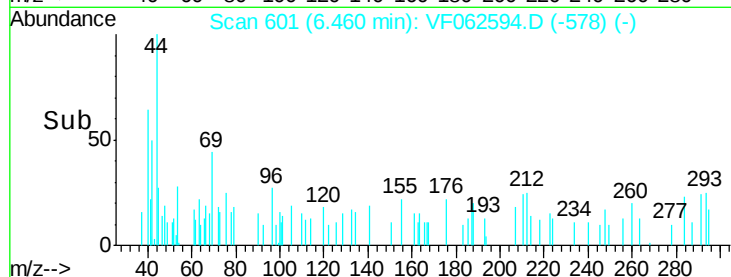
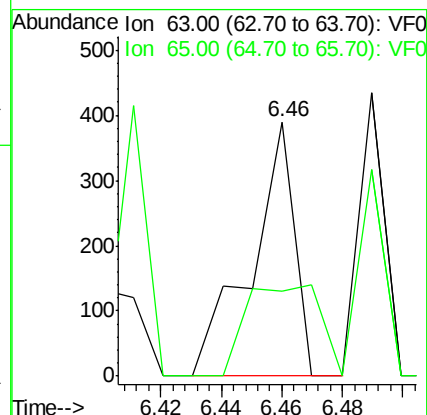
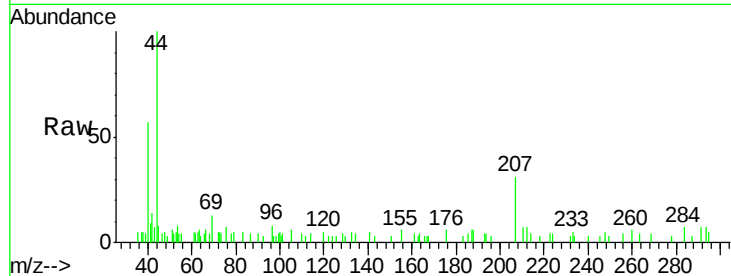
CULVER-CBTC-WC1-051019

Tot Ion: 63 Resp: 392

Ion Ratio Lower Upper

63 100

65 33.3 26.2 39.4



#46

Dibromomethane

Concen: 200.680 ug/l

RT: 6.40 min Scan# 595

Delta R.T. 0.11 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

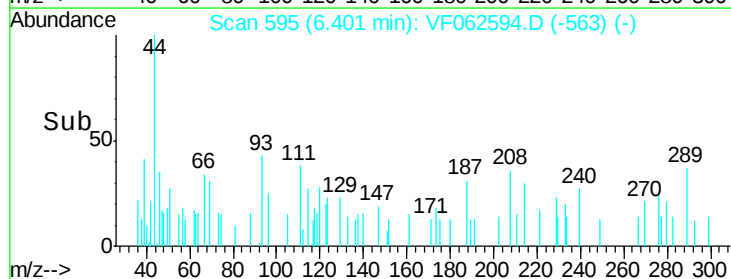
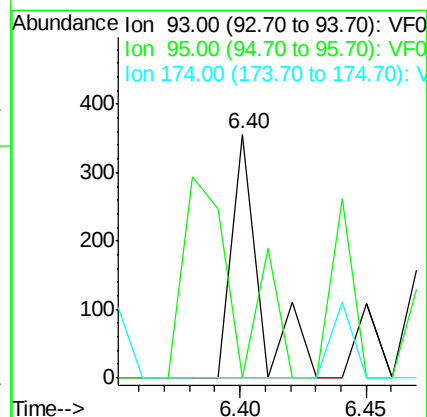
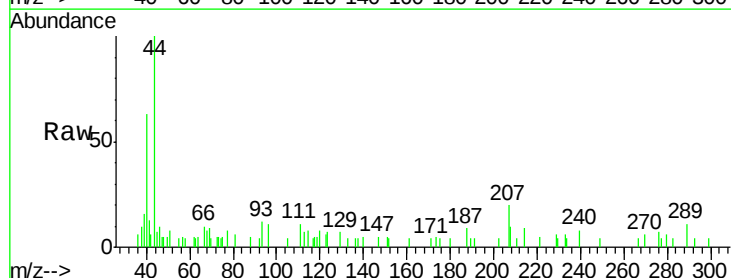
Tgt Ion: 93 Resp: 276

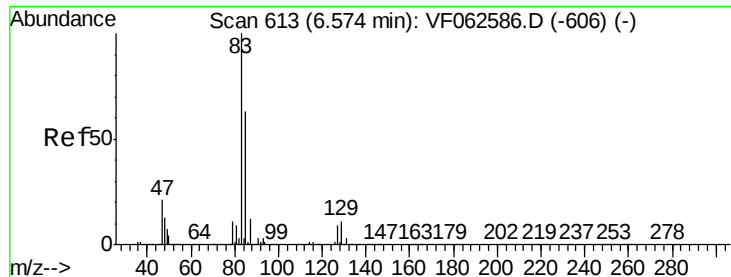
Ion Ratio Lower Upper

93 100

95 0.0 66.9 100.3#

174 0.0 74.6 112.0#





#47

Bromodichloromethane

Concen: 67.646 ug/l

RT: 6.69 min Scan# 624

Delta R.T. 0.11 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1-051019

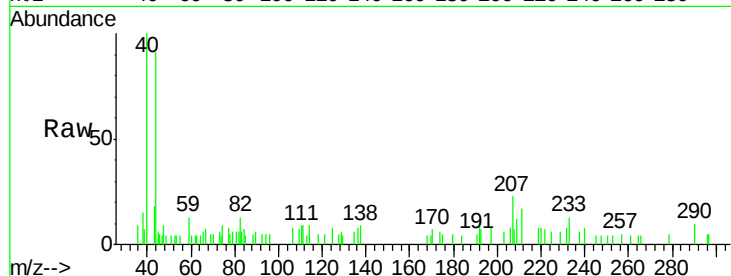
Tot Ion: 83 Resp: 200

Ion Ratio Lower Upper

83 100

85 57.6 50.3 75.5

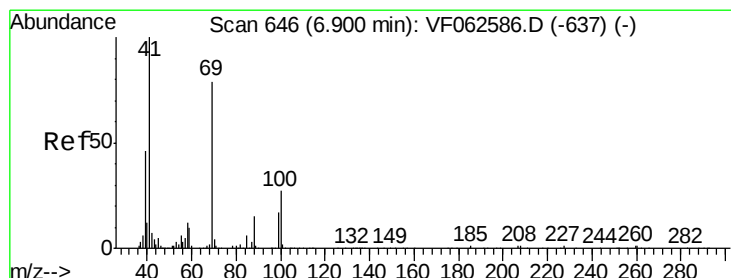
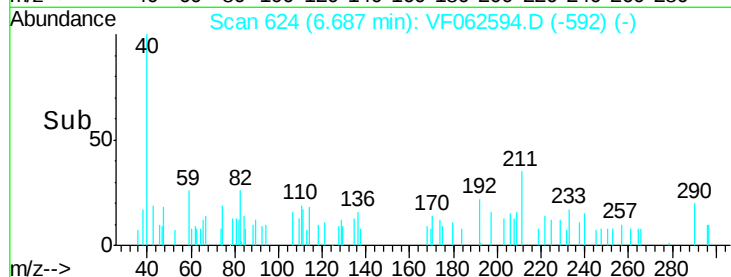
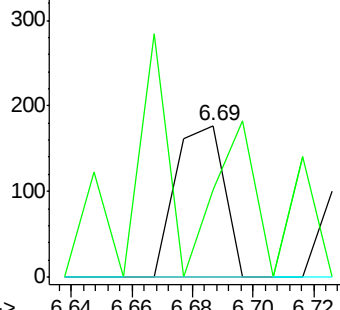
127 0.0 7.2 10.8#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 924.133 ug/l

RT: 6.99 min Scan# 655

Delta R.T. 0.09 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

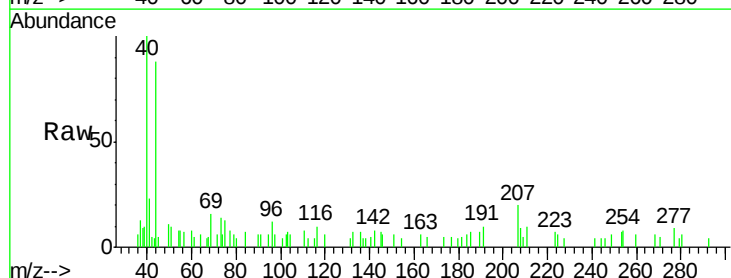
Tgt Ion: 41 Resp: 845

Ion Ratio Lower Upper

41 100

69 68.4 63.0 94.6

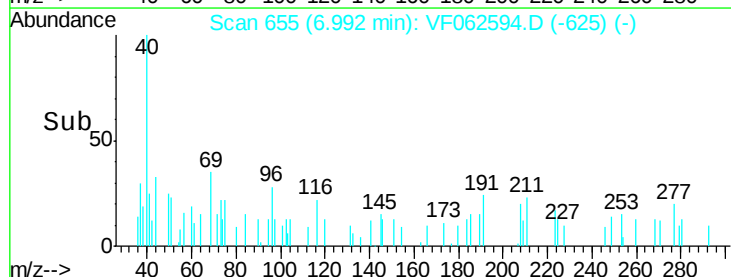
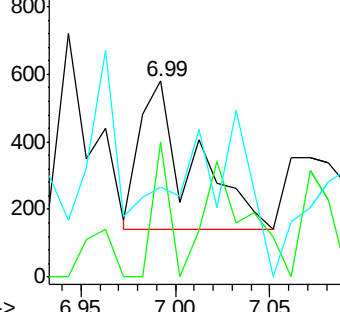
39 45.9 37.6 56.4

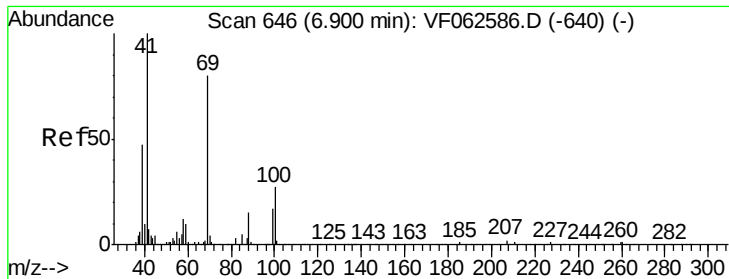


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 19088.215 ug/l

RT: 7.00 min Scan# 656

Delta R.T. 0.10 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1-051019

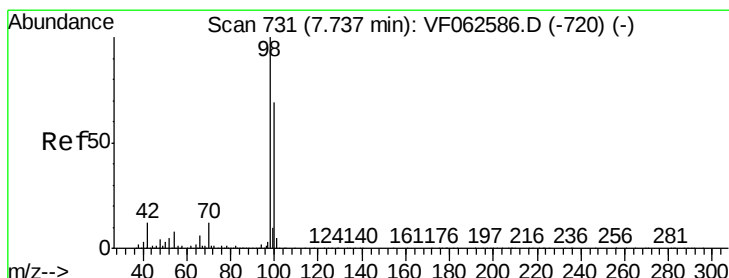
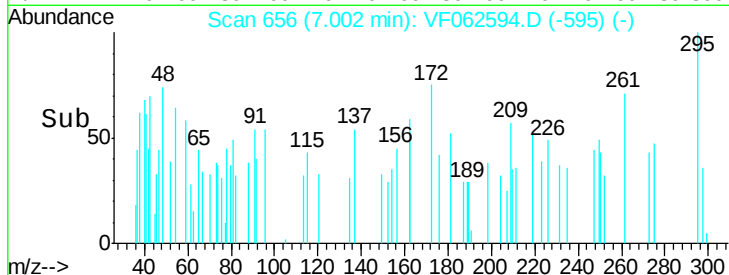
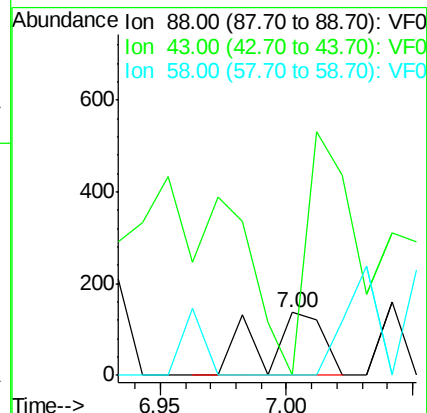
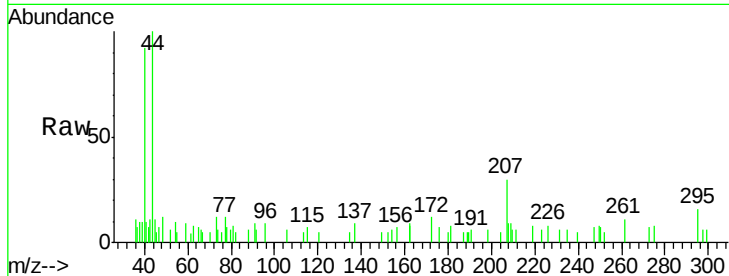
Tot Ion: 88 Resp: 230

Ion Ratio Lower Upper

88 100

43 0.0 28.8 43.2#

58 0.0 60.6 90.8#



#50

Toluene-d8

Concen: 24.272 ug/l

RT: 7.91 min Scan# 748

Delta R.T. 0.17 min

Lab File: VF062594.D

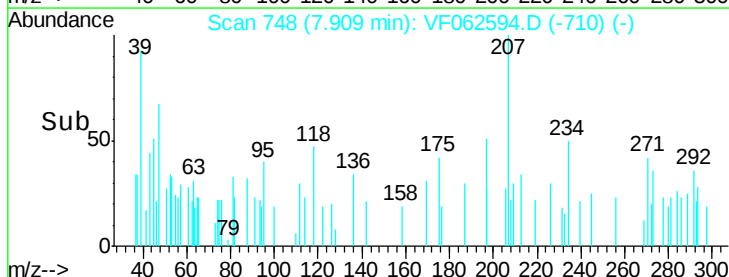
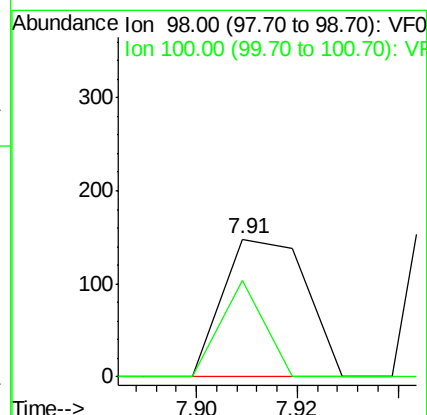
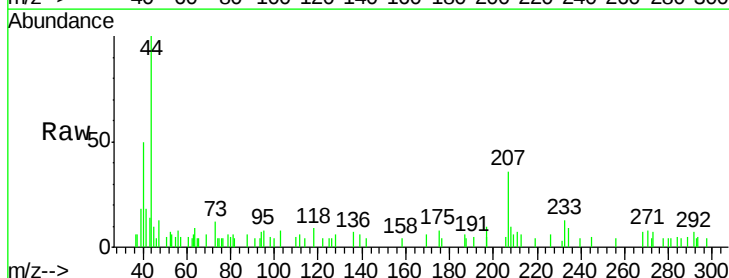
Acq: 14 May 2019 22:05

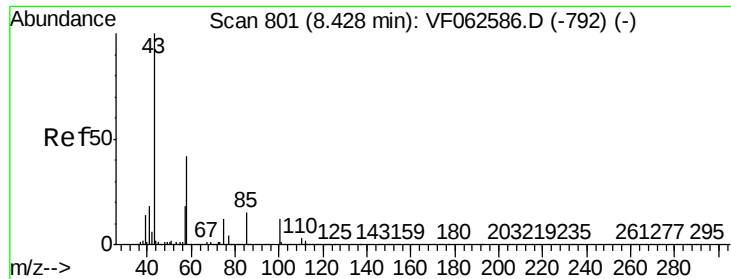
Tgt Ion: 98 Resp: 169

Ion Ratio Lower Upper

98 100

100 70.3 55.4 83.0





#51

4-Methyl-2-Pentanone

Concen: 456.695 ug/l

RT: 8.54 min Scan# 812

Delta R.T. 0.11 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

Instrument :

MSVOA_F

ClientSampleId :

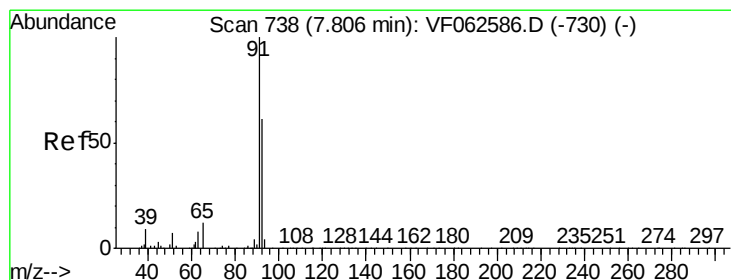
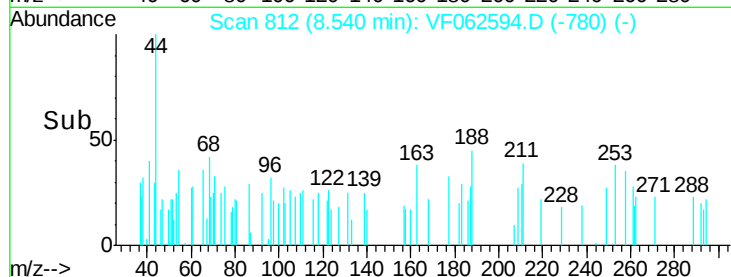
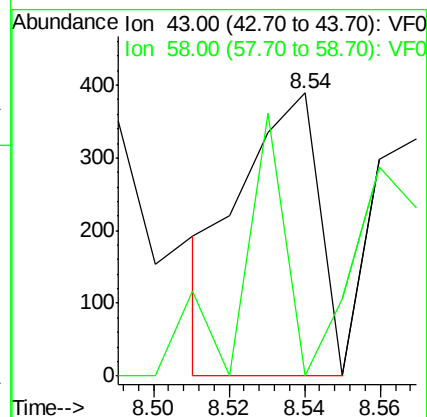
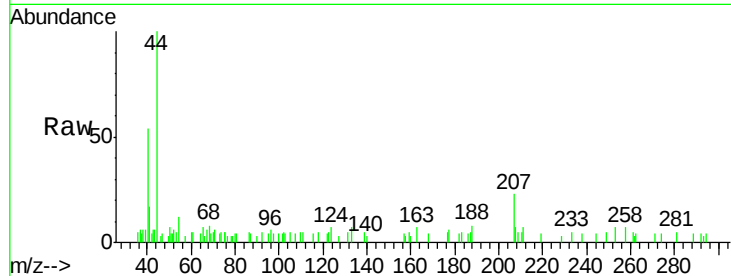
CULVER-CBTC-WC1-051019

Tot Ion: 43 Resp: 559

Ion Ratio Lower Upper

43 100

58 0.0 33.6 50.4#



#52

Toluene

Concen: 54.017 ug/l

RT: 7.86 min Scan# 743

Delta R.T. 0.05 min

Lab File: VF062594.D

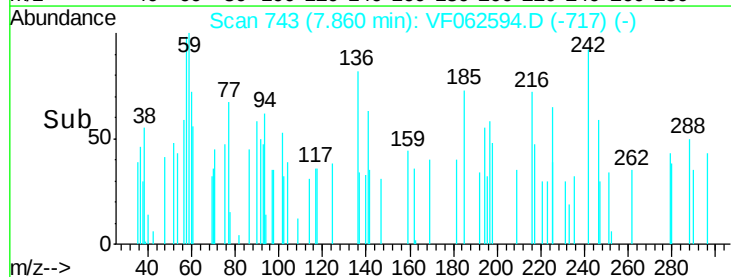
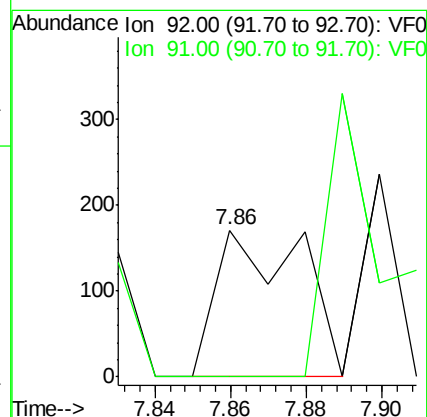
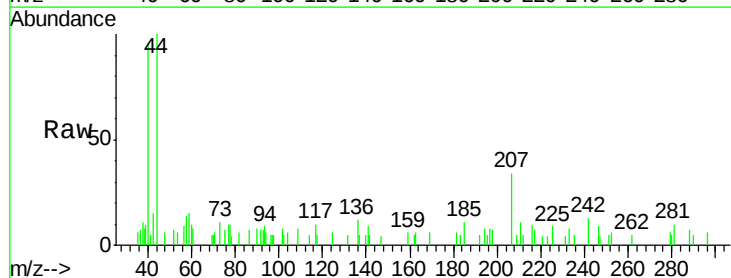
Acq: 14 May 2019 22:05

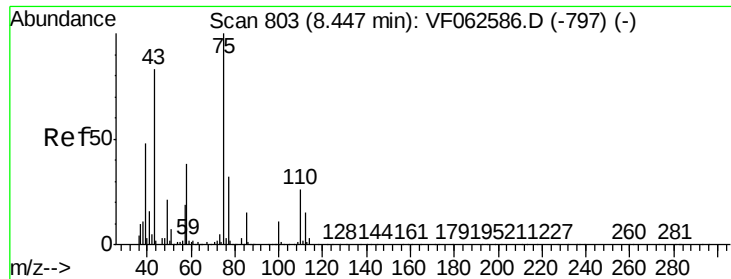
Tgt Ion: 92 Resp: 265

Ion Ratio Lower Upper

92 100

91 0.0 131.0 196.4#

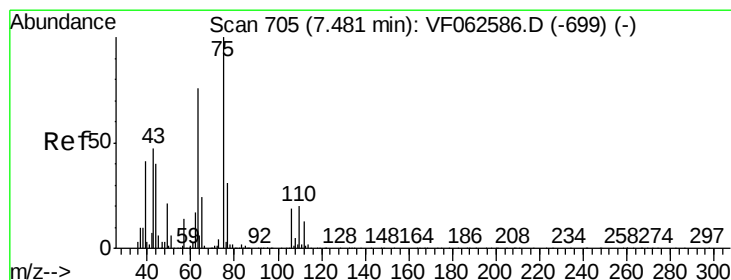
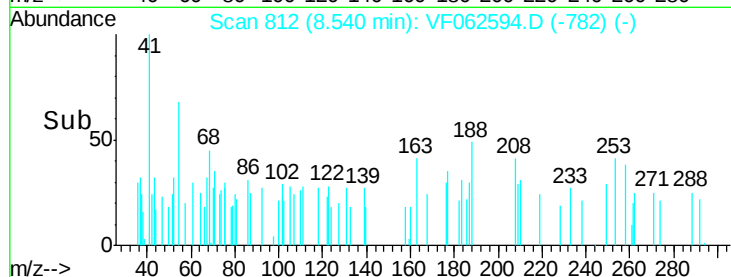
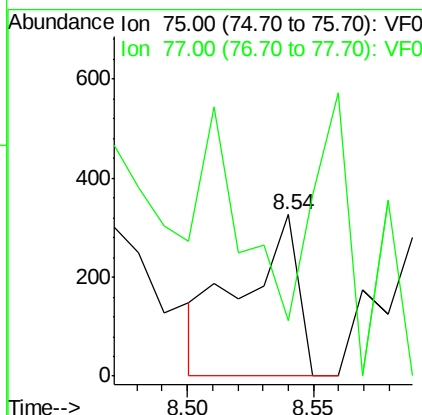
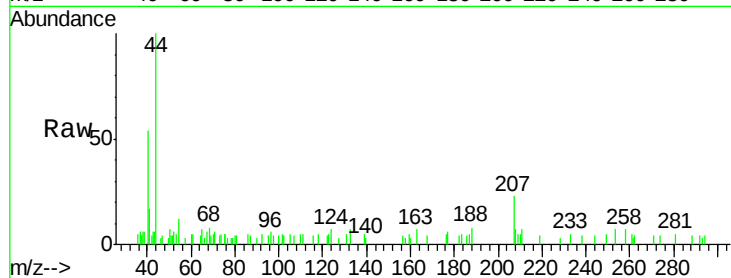




#53
 t-1,3-Dichloropropene
 Concen: 215.349 ug/l
 RT: 8.54 min Scan# 812
 Delta R.T. 0.09 min
 Lab File: VF062594.D
 Acq: 14 May 2019 22:05

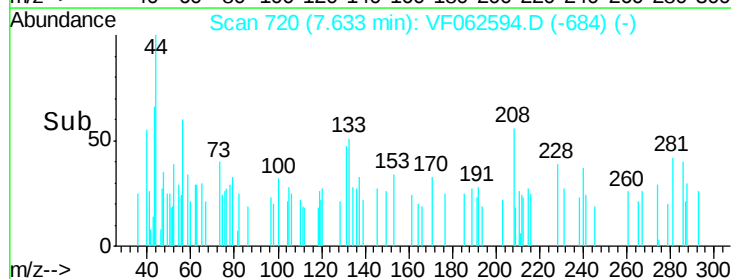
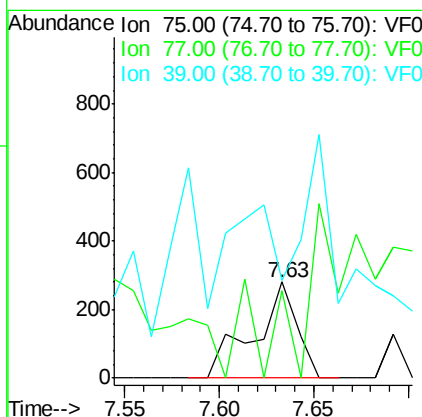
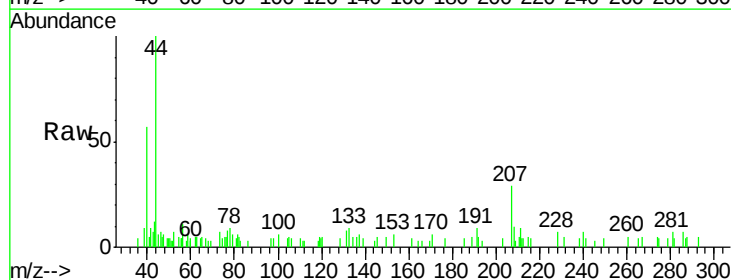
Instrument :
 MSVOA_F
 ClientSampleId :
 CULVER-CBTC-WC1-051019

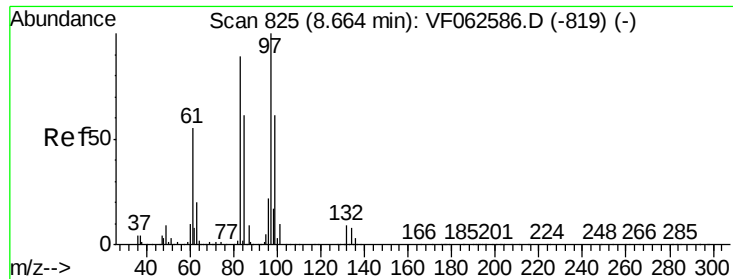
Tot Ion: 75 Resp: 503
 Ion Ratio Lower Upper
 75 100
 77 34.4 25.7 38.5



#54
 cis-1,3-Dichloropropene
 Concen: 134.213 ug/l
 RT: 7.63 min Scan# 720
 Delta R.T. 0.15 min
 Lab File: VF062594.D
 Acq: 14 May 2019 22:05

Tgt Ion: 75 Resp: 443
 Ion Ratio Lower Upper
 75 100
 77 90.7 25.0 37.6#
 39 101.1 32.8 49.2#





#55

1,1,2-Trichloroethane

Concen: 138.201 ug/l

RT: 8.78 min Scan# 836

Delta R.T. 0.11 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

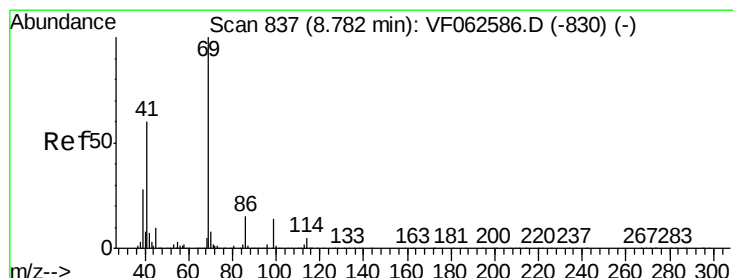
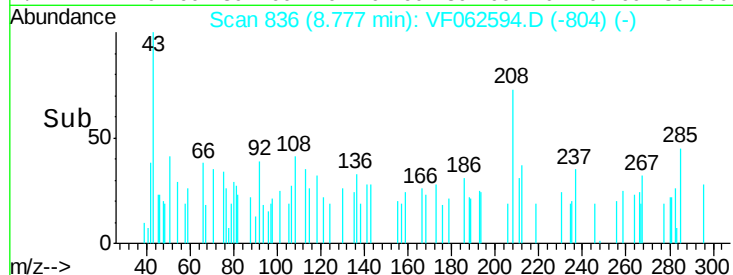
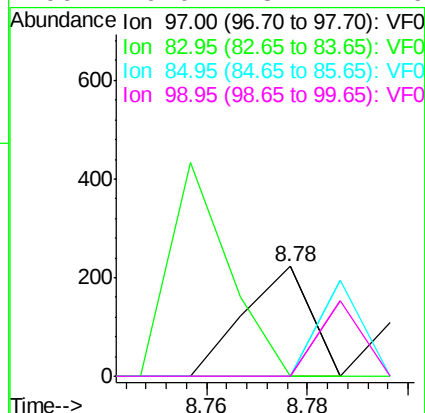
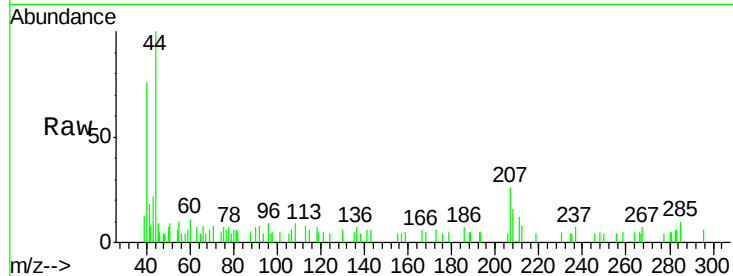
Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1-051019

Tot Ion:	97	Resp:	203
Ion	Ratio	Lower	Upper
97	100		
83	0.0	71.3	106.9#
85	0.0	48.9	73.3#
99	0.0	48.4	72.6#



#56

Ethyl methacrylate

Concen: 53.419 ug/l

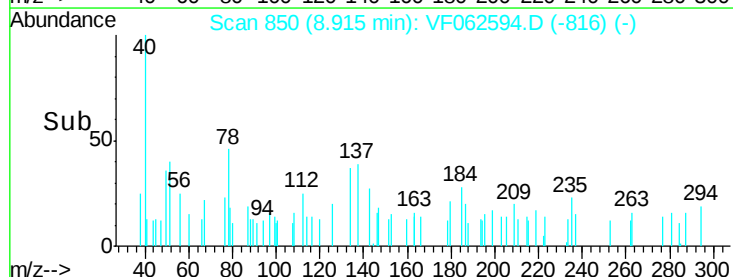
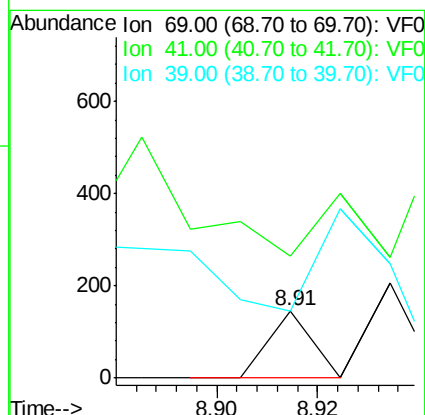
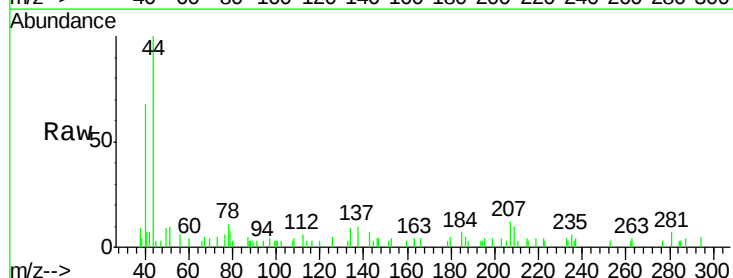
RT: 8.91 min Scan# 850

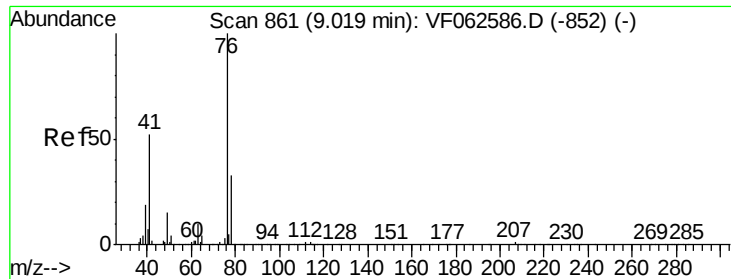
Delta R.T. 0.13 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

Tgt Ion:	69	Resp:	86
Ion	Ratio	Lower	Upper
69	100		
41	182.1	48.1	72.1#
39	99.3	22.5	33.7#

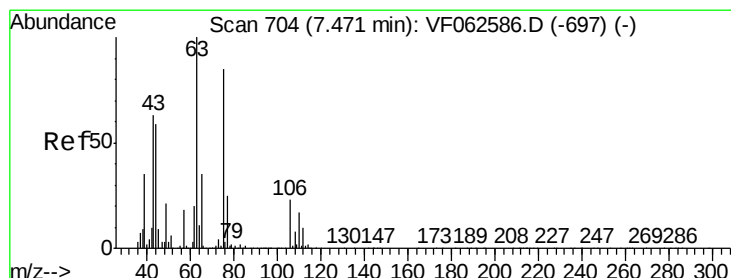
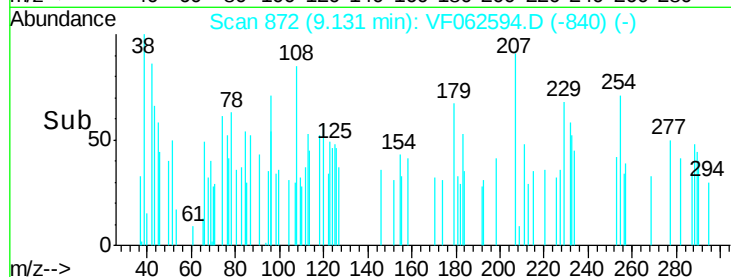
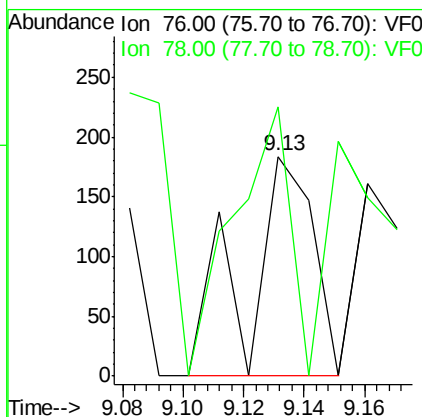
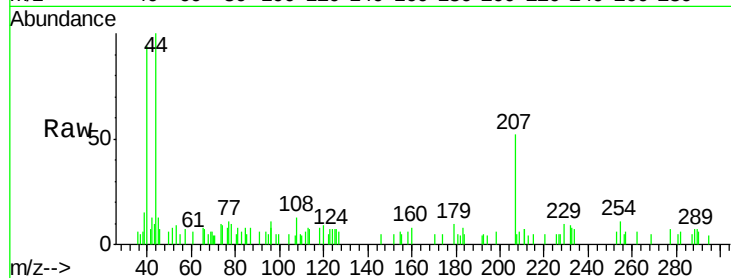




#57
 1,3-Dichloropropane
 Concen: 114.257 ug/l
 RT: 9.13 min Scan# 872
 Delta R.T. 0.11 min
 Lab File: VF062594.D
 Acq: 14 May 2019 22:05

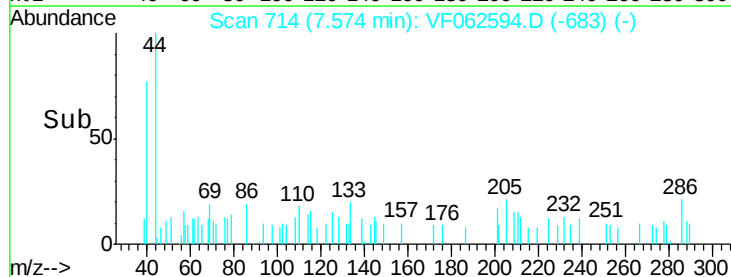
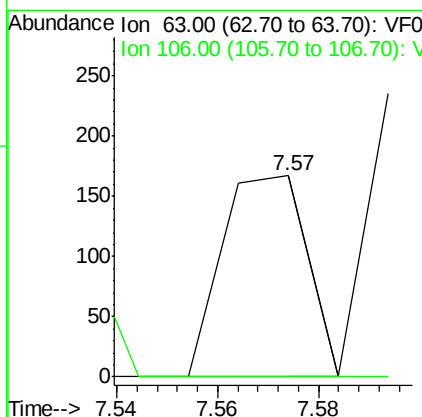
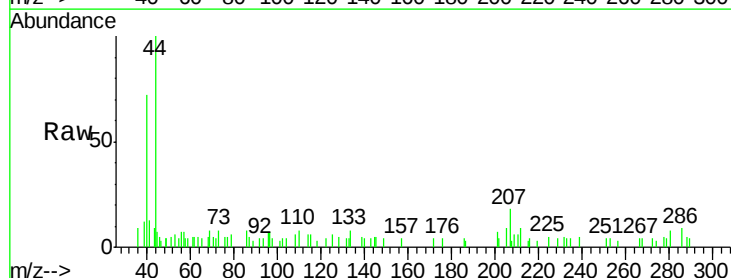
Instrument :
 MSVOA_F
 ClientSampleId :
 CULVER-CBTC-WC1-051019

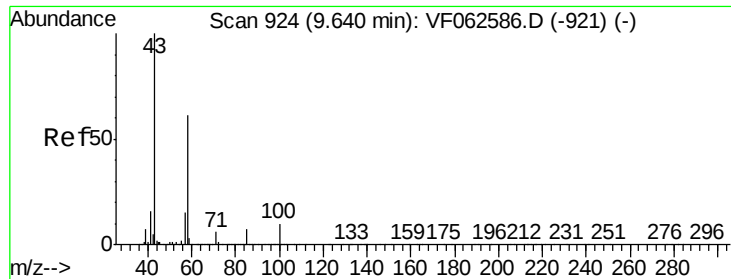
Tot Ion: 76 Resp: 277
 Ion Ratio Lower Upper
 76 100
 78 122.3 26.4 39.6#



#58
 2-Chloroethyl Vinyl ether
 Concen: 385.134 ug/l
 RT: 7.57 min Scan# 714
 Delta R.T. 0.10 min
 Lab File: VF062594.D
 Acq: 14 May 2019 22:05

Tgt Ion: 63 Resp: 194
 Ion Ratio Lower Upper
 63 100
 106 0.0 18.0 27.0#

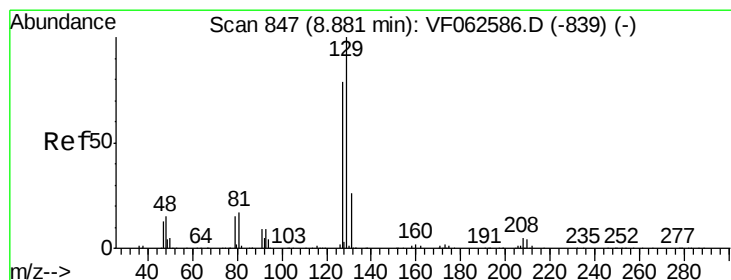
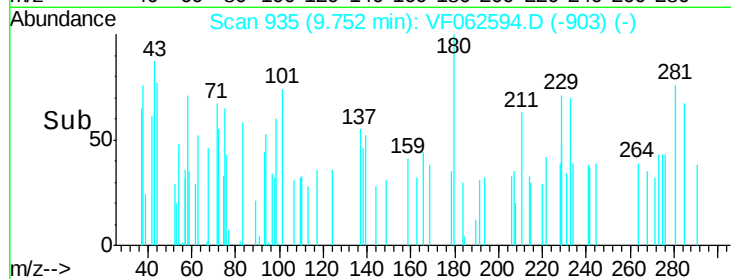
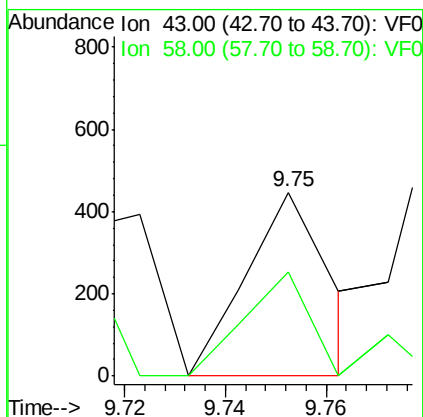
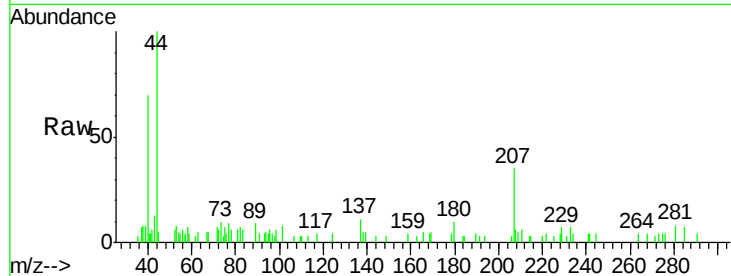




#59
2-Hexanone
Concen: 630.882 ug/l
RT: 9.75 min Scan# 935
Delta R.T. 0.11 min
Lab File: VF062594.D
Acq: 14 May 2019 22:05

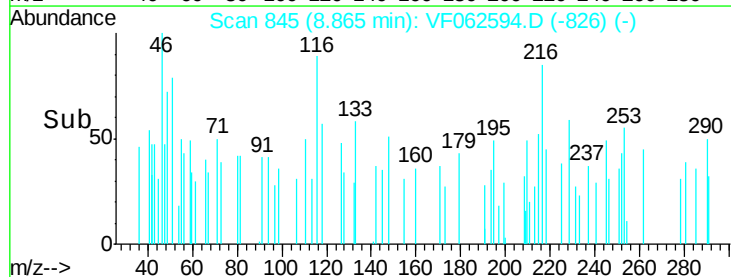
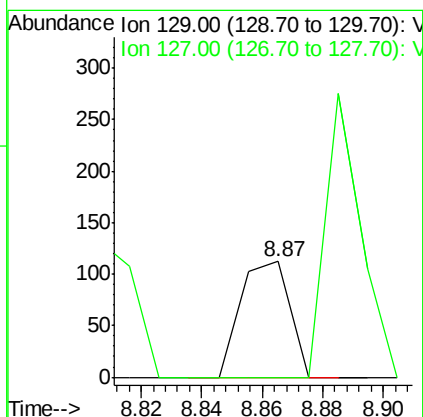
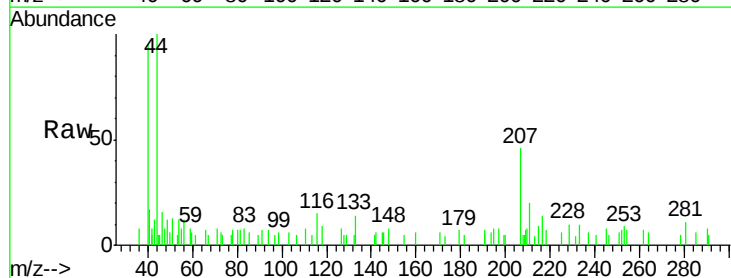
Instrument :
MSVOA_F
ClientSampleId :
CULVER-CBTC-WC1-051019

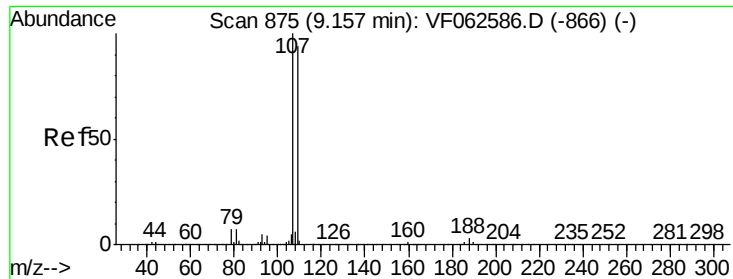
Tot Ion: 43 Resp: 510
Ion Ratio Lower Upper
43 100
58 56.8 28.7 86.3



#60
Dibromochloromethane
Concen: 68.050 ug/l
RT: 8.87 min Scan# 845
Delta R.T. -0.02 min
Lab File: VF062594.D
Acq: 14 May 2019 22:05

Tgt Ion: 129 Resp: 127
Ion Ratio Lower Upper
129 100
127 113.4 39.3 117.9





#61

1,2-Dibromoethane

Concen: 42.764 ug/l

RT: 9.13 min Scan# 872

Delta R.T. -0.03 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

Instrument :

MSVOA_F

ClientSampleId :

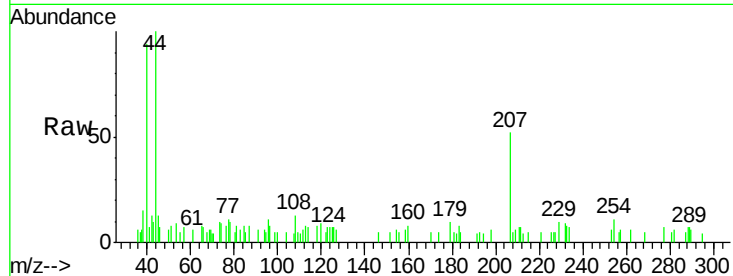
CULVER-CBTC-WC1-051019

Tot Ion:107 Resp: 63

Ion Ratio Lower Upper

107 100

109 105.7 74.9 112.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

200

150

100

50

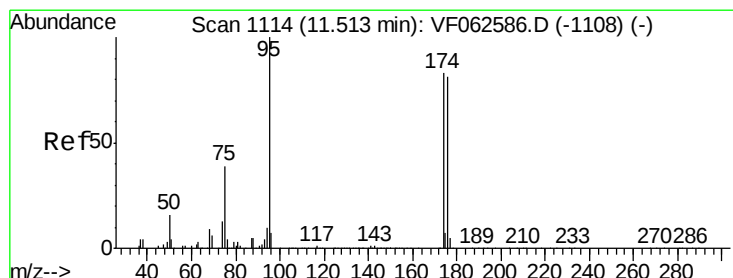
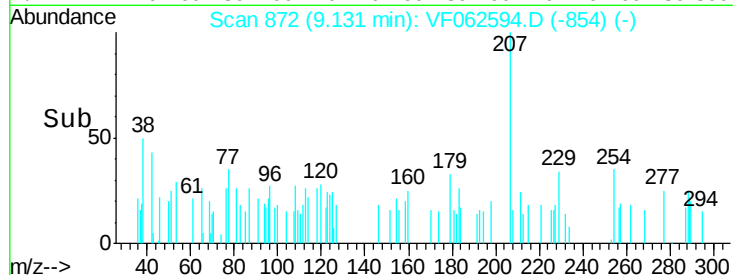
0

9.12

9.14

9.16

Time-->



#62

4-Bromofluorobenzene

Concen: 150.516 ug/l

RT: 11.64 min Scan# 1126

Delta R.T. 0.12 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

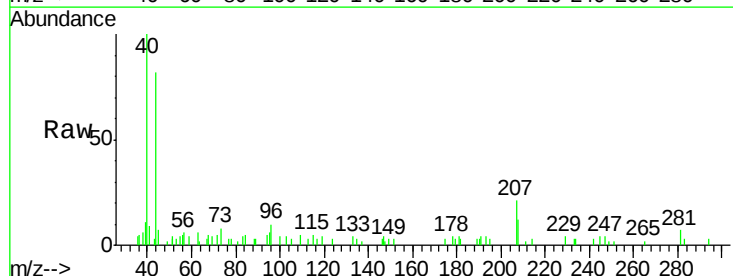
Tgt Ion: 95 Resp: 366

Ion Ratio Lower Upper

95 100

174 53.9 0.0 166.6

176 0.0 0.0 161.8



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

400

300

200

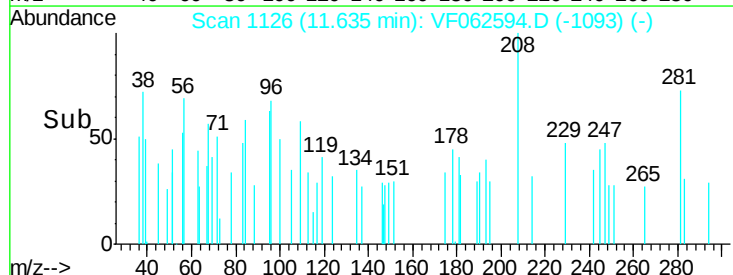
100

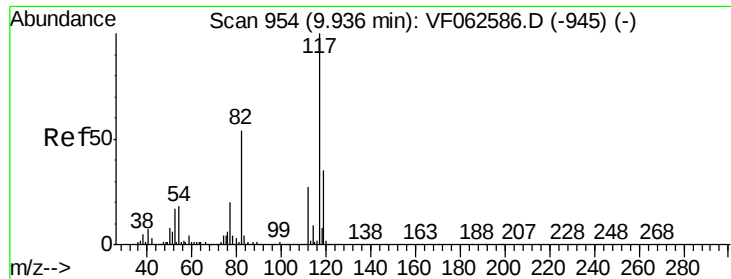
0

11.60

11.65

Time-->

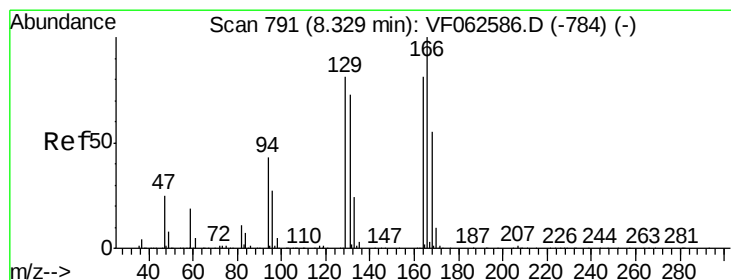
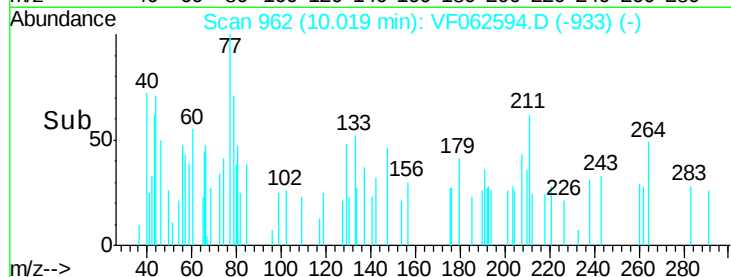
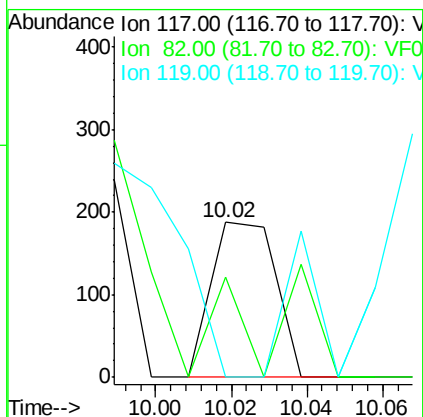
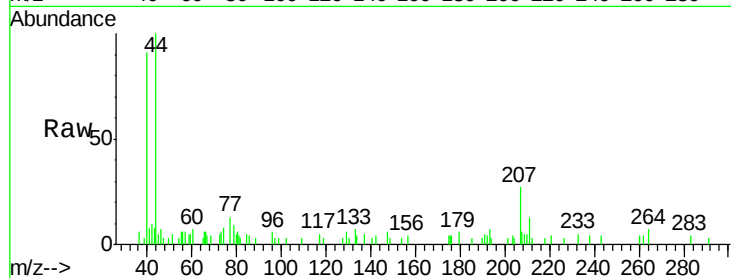




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.02 min Scan# 962
Delta R.T. 0.08 min
Lab File: VF062594.D
Acq: 14 May 2019 22:05

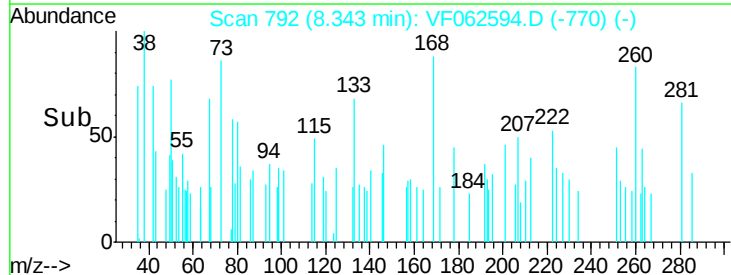
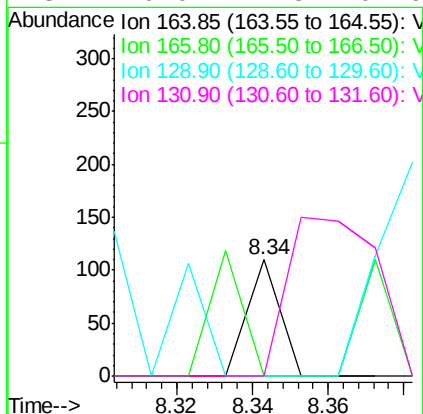
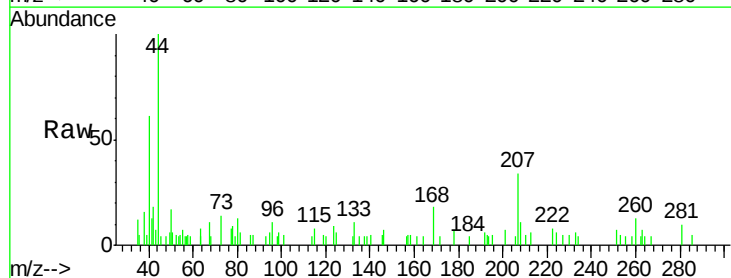
Instrument :
MSVOA_F
ClientSampleId :
CULVER-CBTC-WC1-051019

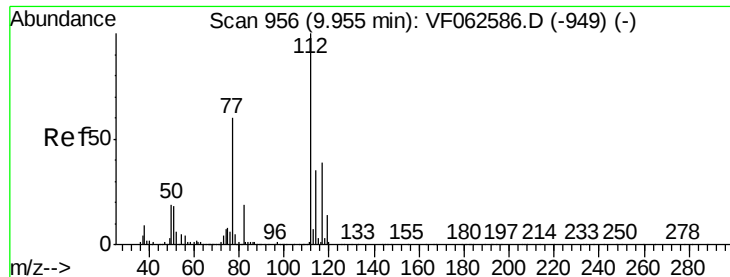
Tot Ion:117 Resp: 219
Ion Ratio Lower Upper
117 100
82 64.4 43.4 65.0
119 0.0 27.7 41.5#



#64
Tetrachloroethene
Concen: 44.916 ug/l
RT: 8.34 min Scan# 792
Delta R.T. 0.01 min
Lab File: VF062594.D
Acq: 14 May 2019 22:05

Tgt Ion:164 Resp: 65
Ion Ratio Lower Upper
164 100
166 0.0 98.6 148.0#
129 0.0 80.2 120.4#
131 0.0 71.8 107.6#





#65

Chlorobenzene

Concen: 51.742 ug/l

RT: 10.01 min Scan# 961

Delta R.T. 0.05 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

Instrument :

MSVOA_F

ClientSampleId :

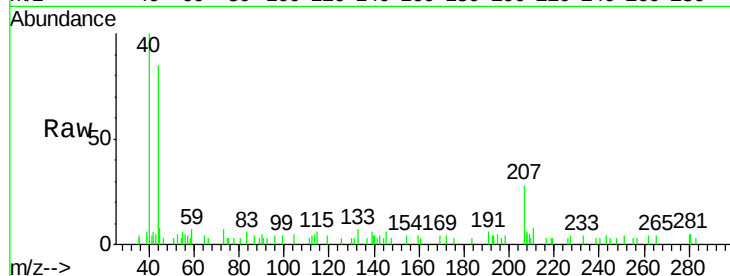
CULVER-CBTC-WC1-051019

Tot Ion:112 Resp: 197

Ion Ratio Lower Upper

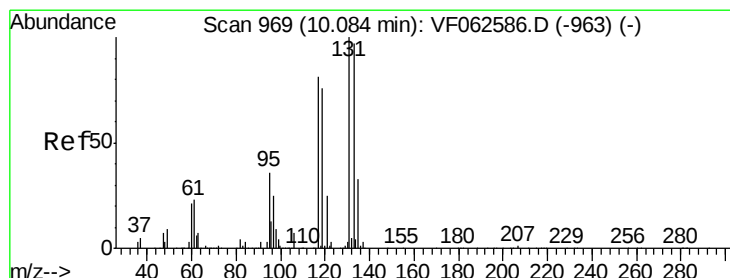
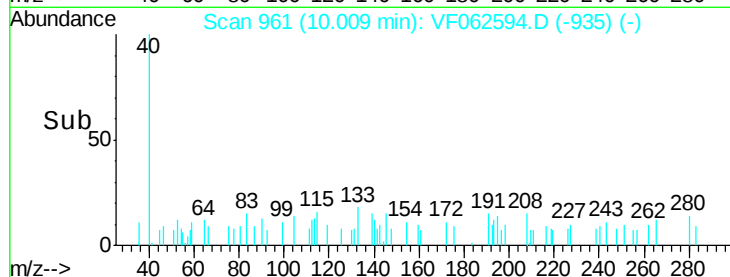
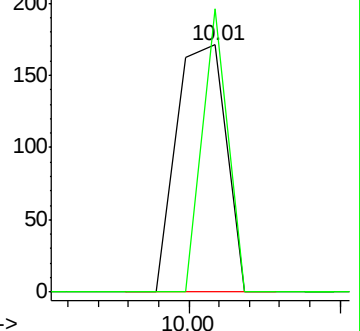
112 100

114 114.6 27.9 41.9#



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 131.088 ug/l

RT: 10.19 min Scan# 979

Delta R.T. 0.10 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

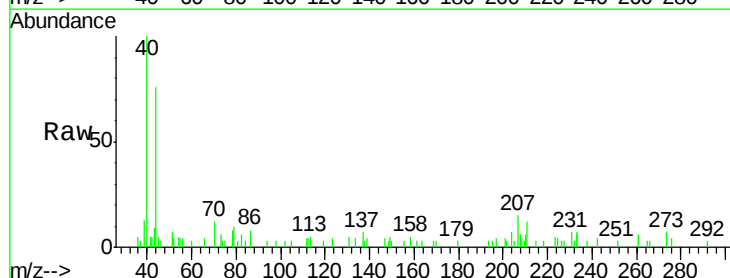
Tgt Ion:131 Resp: 205

Ion Ratio Lower Upper

131 100

133 85.9 48.4 145.3

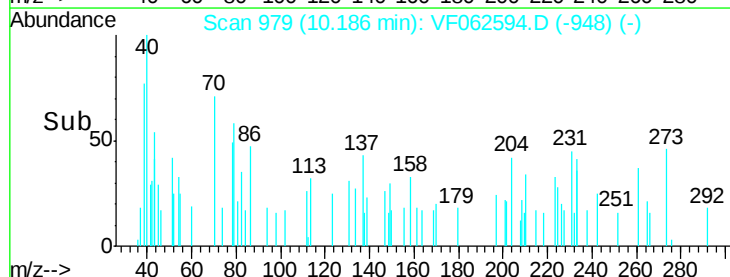
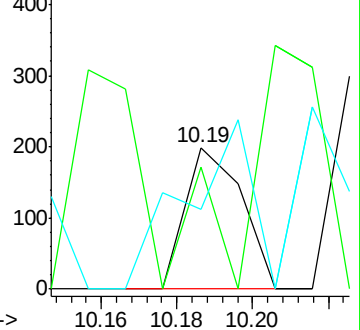
119 56.3 38.5 115.5

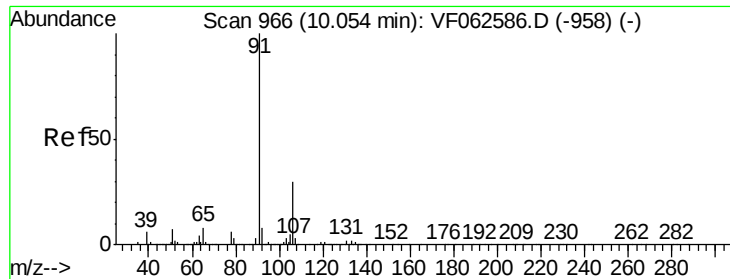


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

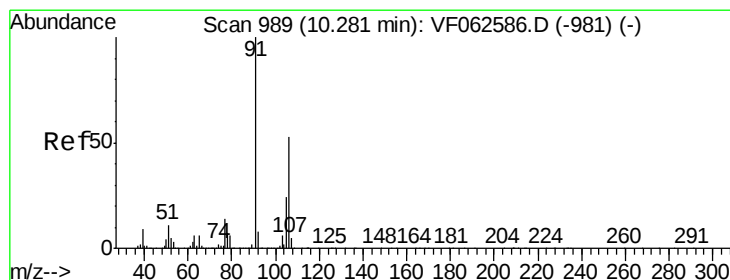
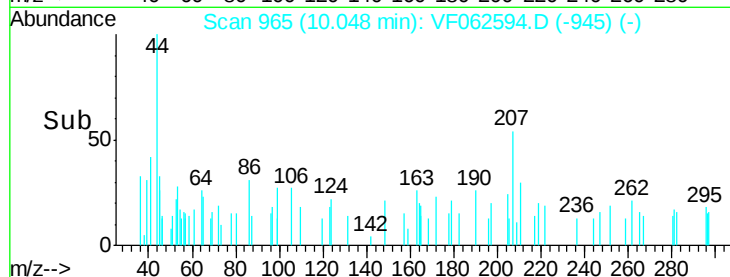
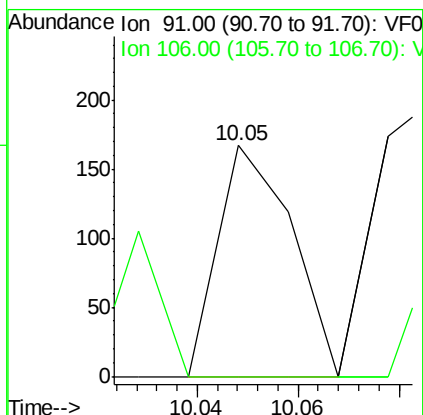
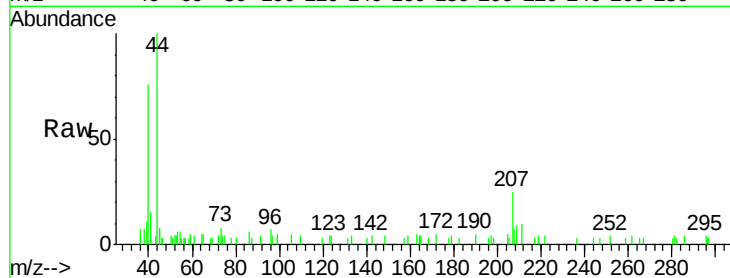




#67
Ethyl Benzene
Concen: 24.983 ug/l
RT: 10.05 min Scan# 965
Delta R.T. -0.01 min
Lab File: VF062594.D
Acq: 14 May 2019 22:05

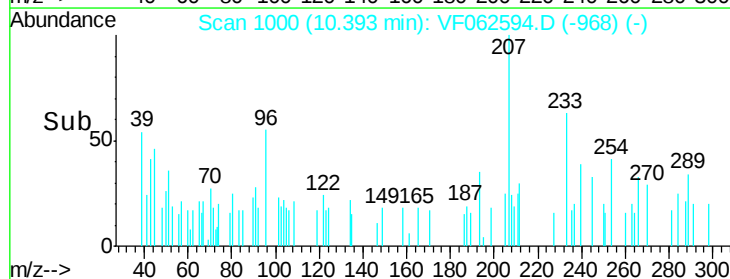
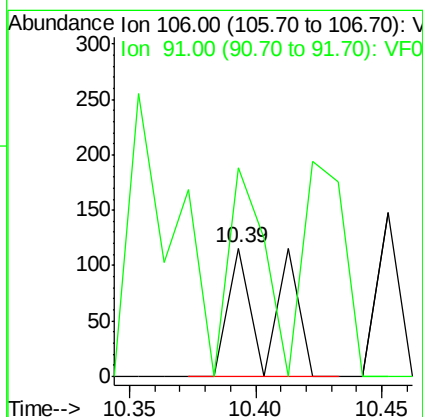
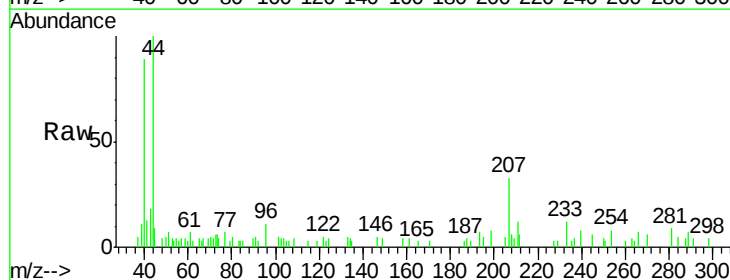
Instrument :
MSVOA_F
ClientSampleId :
CULVER-CBTC-WC1-051019

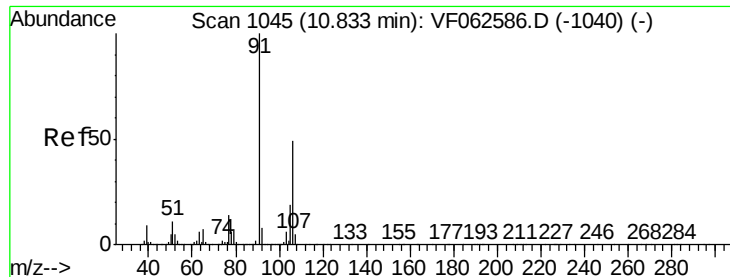
Tot Ion: 91 Resp: 169
Ion Ratio Lower Upper
91 100
106 0.0 24.2 36.4#



#68
m/p-Xylenes
Concen: 57.140 ug/l
RT: 10.39 min Scan# 1000
Delta R.T. 0.11 min
Lab File: VF062594.D
Acq: 14 May 2019 22:05

Tgt Ion: 106 Resp: 137
Ion Ratio Lower Upper
106 100
91 162.1 150.5 225.7

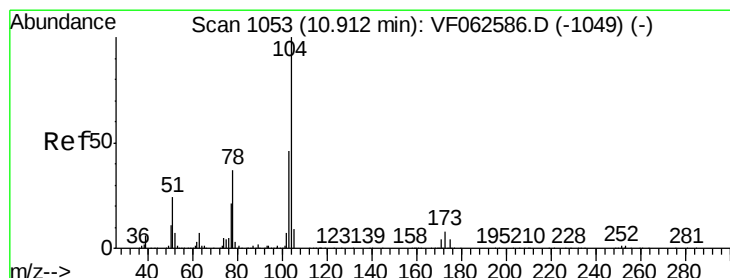
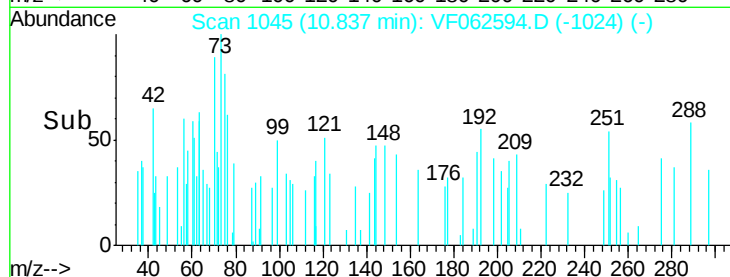
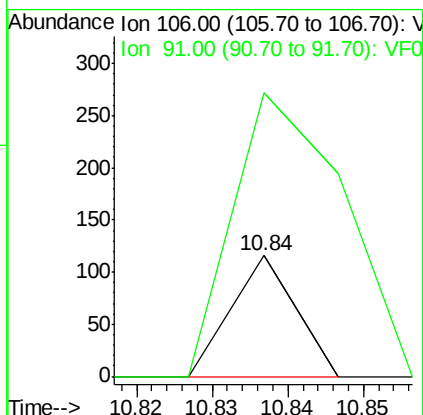
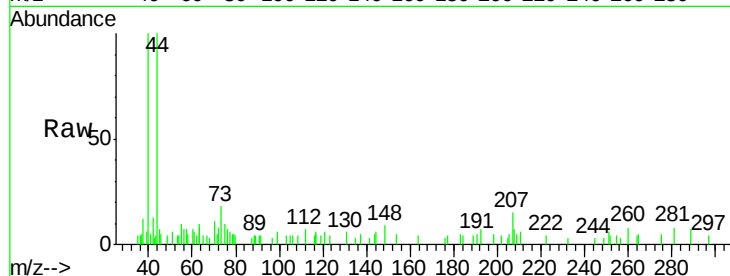




#69
o-Xylene
Concen: 27.434 ug/l
RT: 10.84 min Scan# 1045
Delta R.T. 0.00 min
Lab File: VF062594.D
Acq: 14 May 2019 22:05

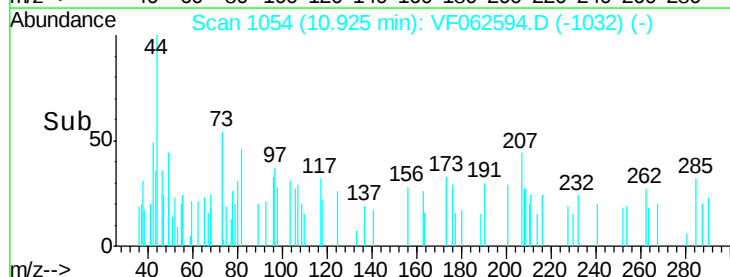
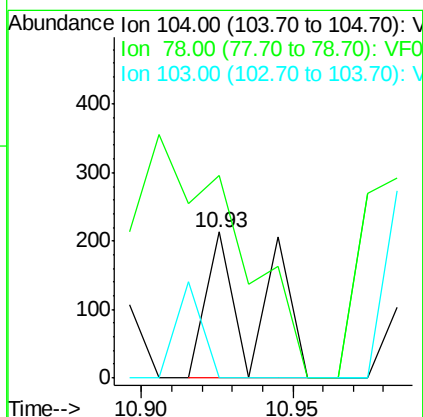
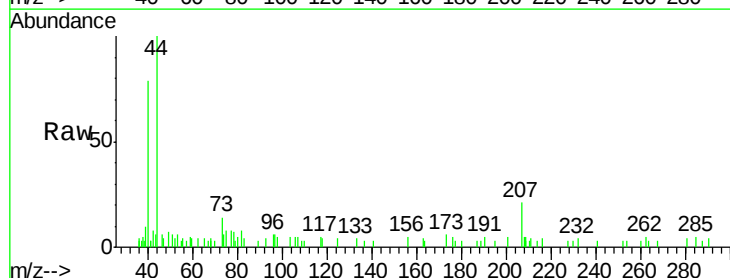
Instrument :
MSVOA_F
ClientSampleId :
CULVER-CBTC-WC1-051019

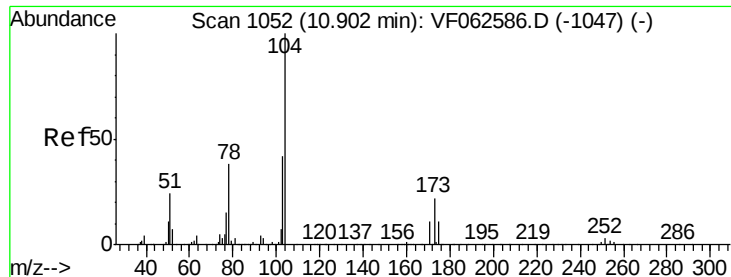
Tot Ion:106 Resp: 69
Ion Ratio Lower Upper
106 100
91 234.5 102.0 305.9



#70
Styrene
Concen: 64.892 ug/l
RT: 10.93 min Scan# 1054
Delta R.T. 0.01 min
Lab File: VF062594.D
Acq: 14 May 2019 22:05

Tgt Ion:104 Resp: 248
Ion Ratio Lower Upper
104 100
78 139.0 30.2 45.2#
103 0.0 37.0 55.6#





#71

Bromoform

Concen: 130.377 ug/l

RT: 10.91 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1-051019

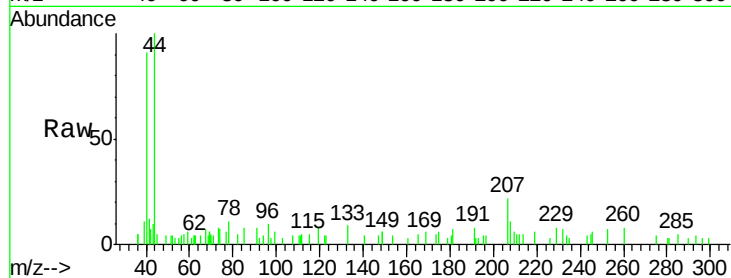
Tot Ion:173 Resp: 96

Ion Ratio Lower Upper

173 100

175 0.0 24.1 72.3#

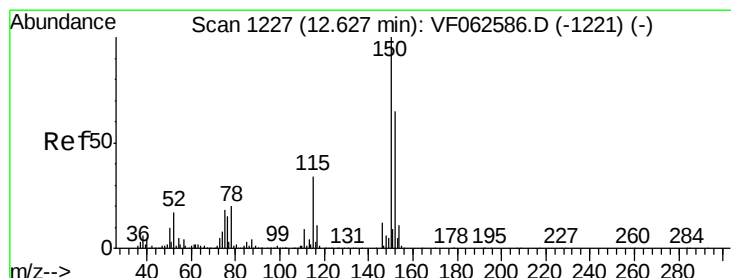
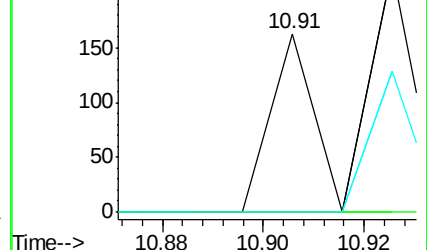
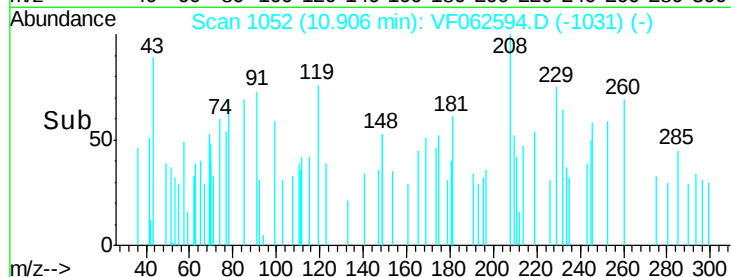
254 0.0 0.0 0.0



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.61 min Scan# 1225

Delta R.T. -0.02 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

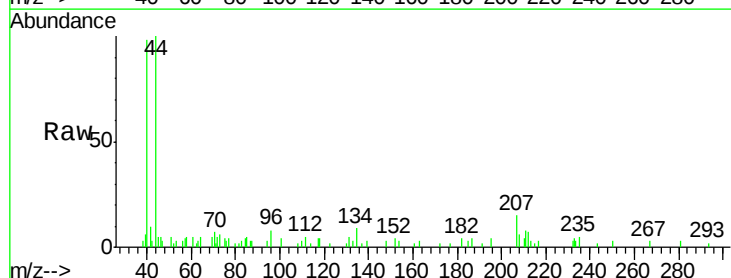
Tgt Ion:152 Resp: 318

Ion Ratio Lower Upper

152 100

115 0.0 26.2 78.6#

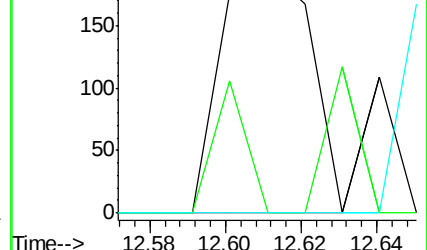
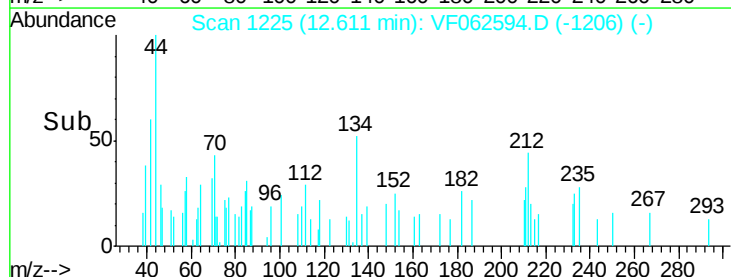
150 0.0 0.0 316.0

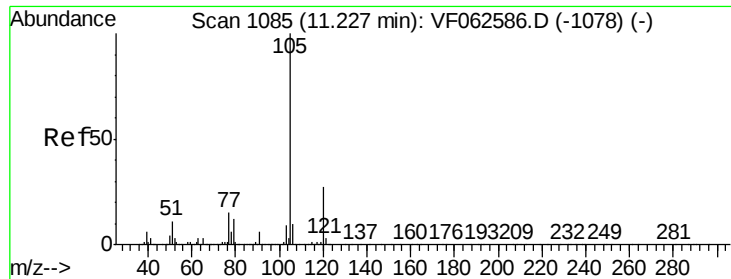


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 3.648 ug/l

RT: 11.19 min Scan# 1081

Delta R.T. -0.04 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

Instrument :

MSVOA_F

ClientSampleId :

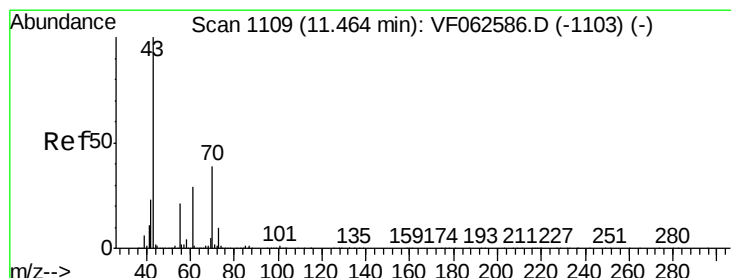
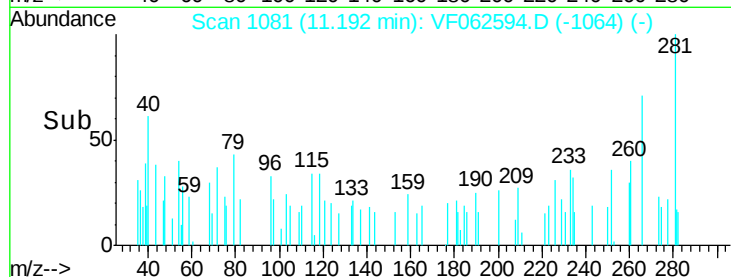
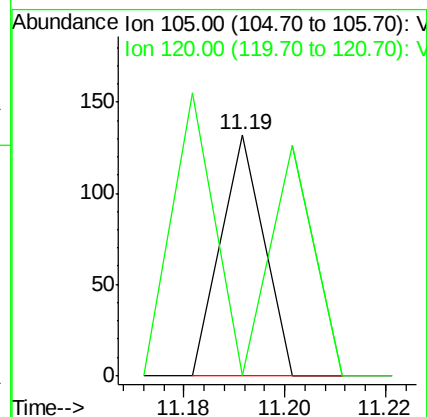
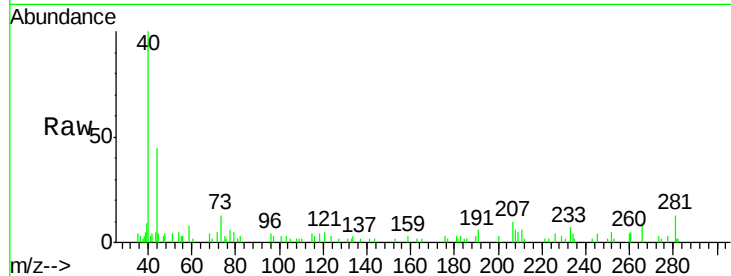
CULVER-CBTC-WC1-051019

Tot Ion:105 Resp: 78

Ion Ratio Lower Upper

105 100

120 0.0 13.5 40.4#



#74

N-ethyl acetate

Concen: 179.326 ug/l

RT: 11.49 min Scan# 1111

Delta R.T. 0.02 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

Tgt Ion: 43 Resp: 931

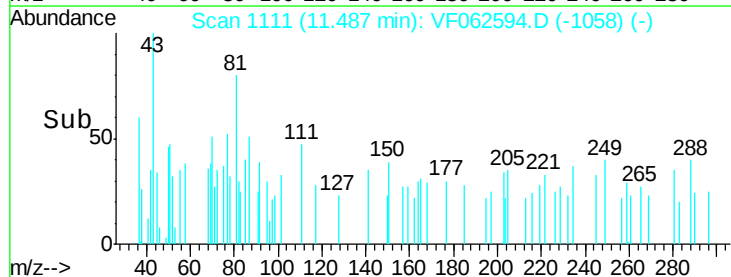
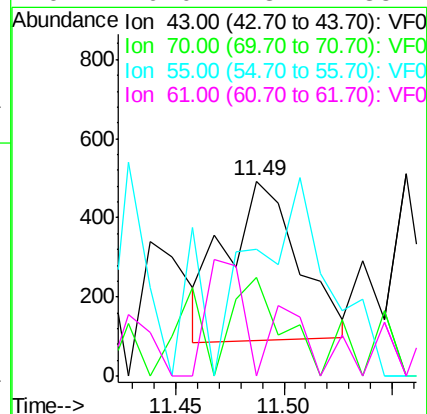
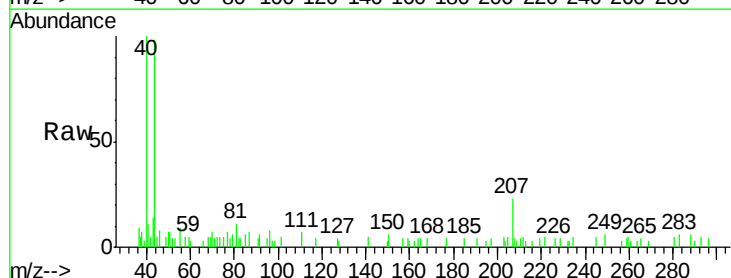
Ion Ratio Lower Upper

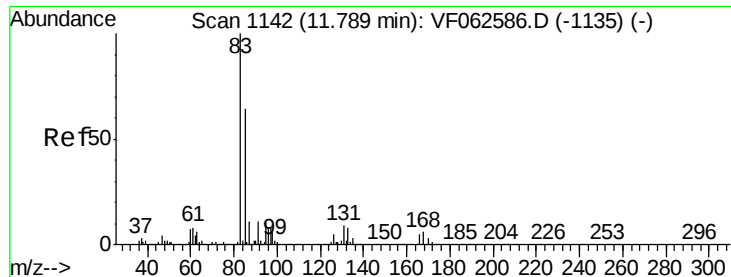
43 100

70 50.8 31.0 46.4#

55 64.8 16.7 25.1#

61 0.0 23.4 35.2#





#75

1,1,2,2-Tetrachloroethane

Concen: 81.958 ug/l

RT: 11.83 min Scan# 1146

Delta R.T. 0.04 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1-051019

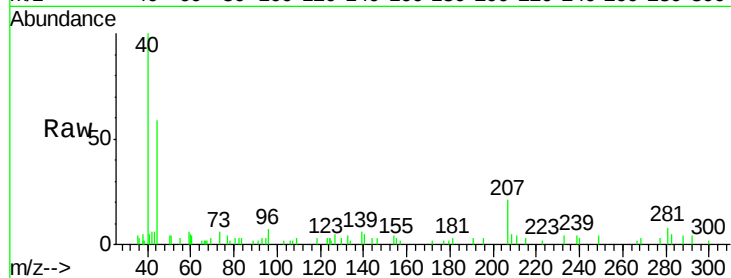
Tot Ion: 83 Resp: 359

Ion Ratio Lower Upper

83 100

131 0.0 4.6 13.8#

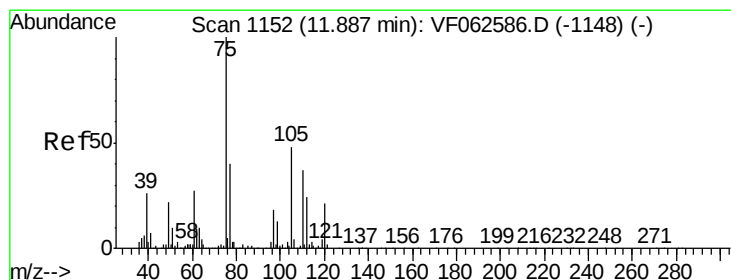
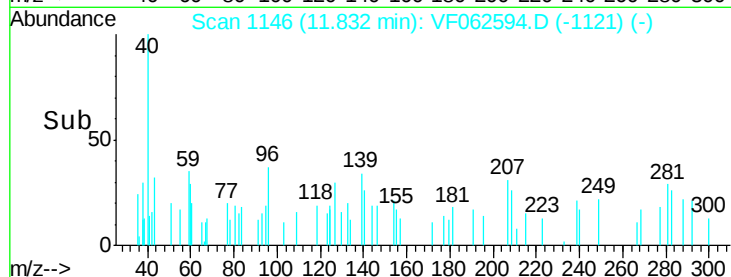
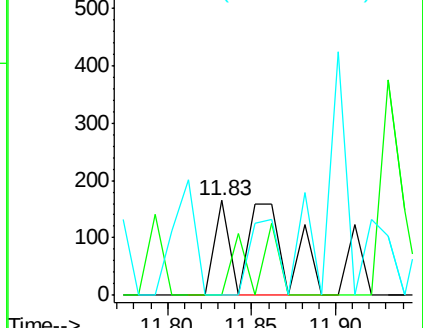
85 0.0 32.1 96.3#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 106.476 ug/l

RT: 11.87 min Scan# 1150

Delta R.T. -0.02 min

Lab File: VF062594.D

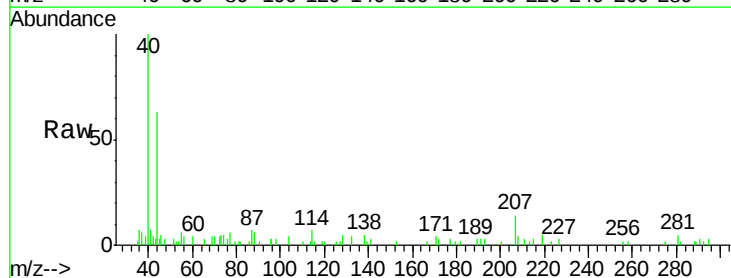
Acq: 14 May 2019 22:05

Tgt Ion: 75 Resp: 299

Ion Ratio Lower Upper

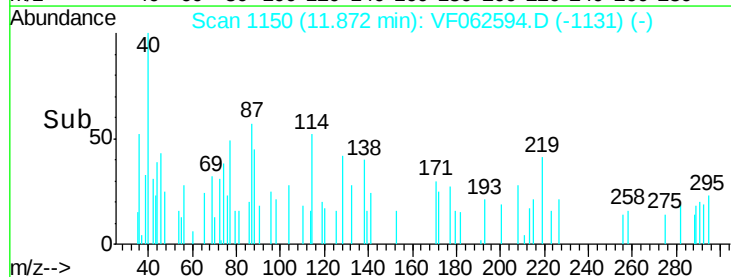
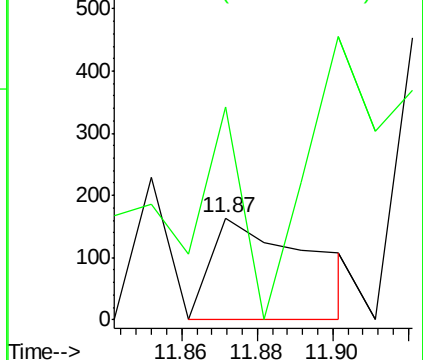
75 100

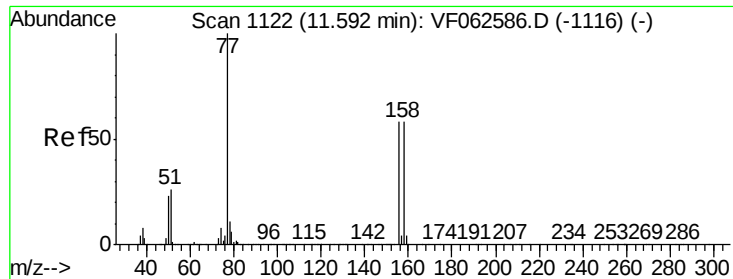
77 209.1 20.4 61.3#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 38.495 ug/l

RT: 11.61 min Scan# 1123

Delta R.T. 0.01 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1-051019

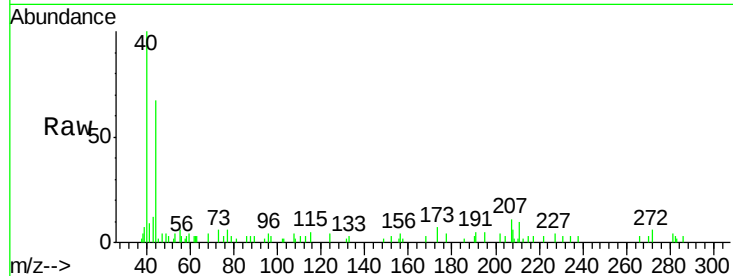
Tot Ion:156 Resp: 186

Ion Ratio Lower Upper

156 100

77 169.1 86.5 259.5

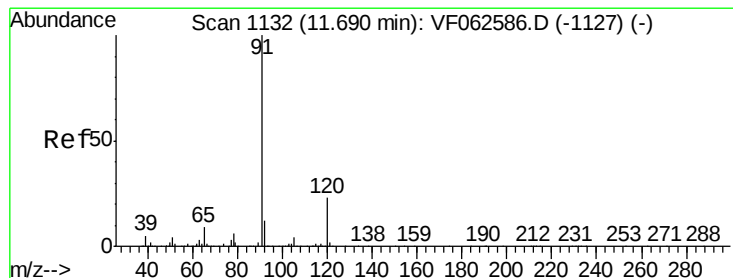
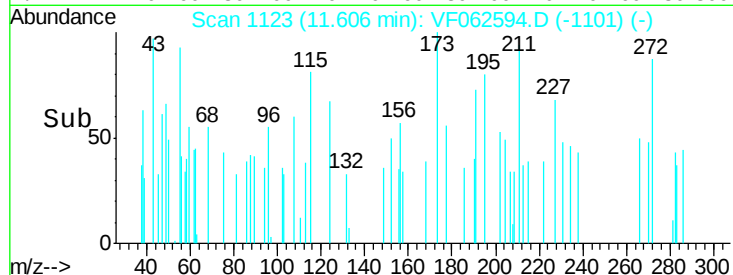
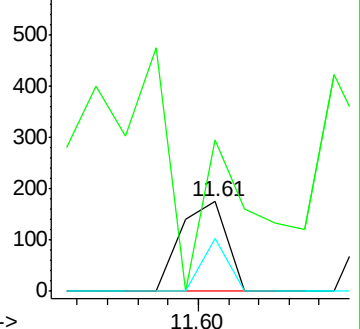
158 58.9 50.3 150.9



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 18.402 ug/l

RT: 11.69 min Scan# 1132

Delta R.T. 0.00 min

Lab File: VF062594.D

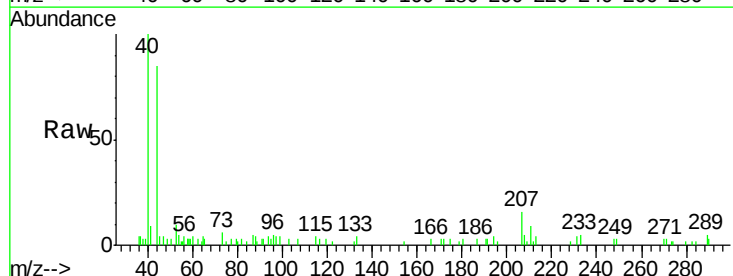
Acq: 14 May 2019 22:05

Tgt Ion: 91 Resp: 468

Ion Ratio Lower Upper

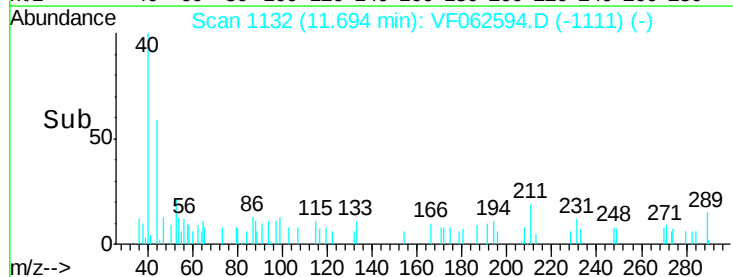
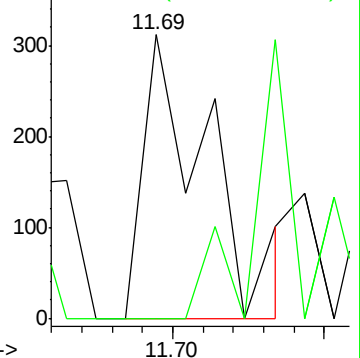
91 100

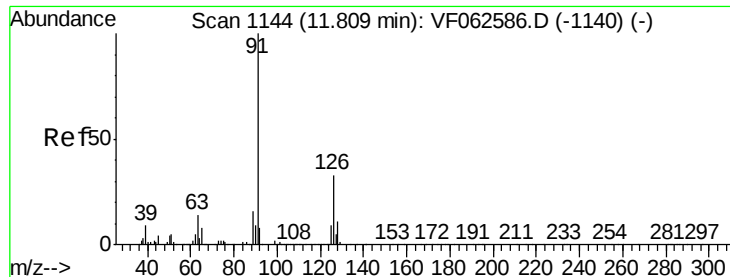
120 0.0 11.7 35.1#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

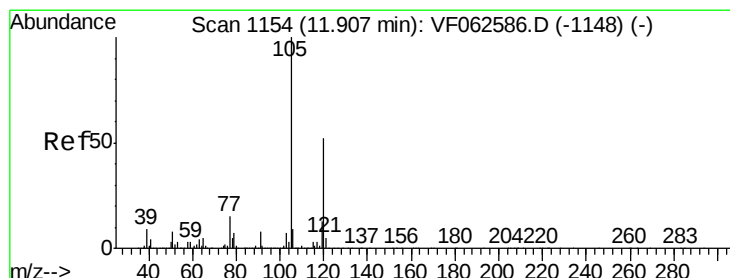
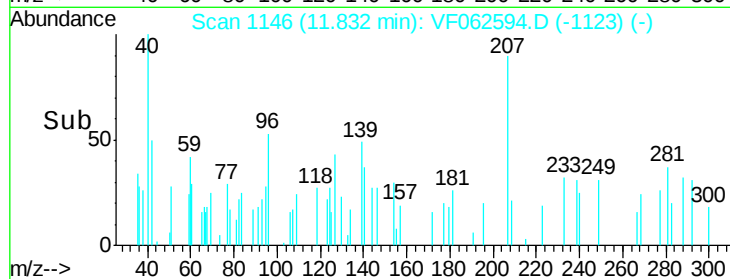
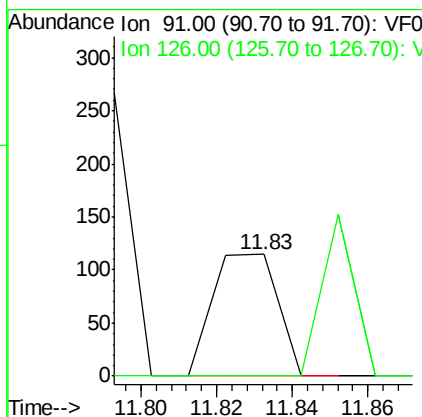
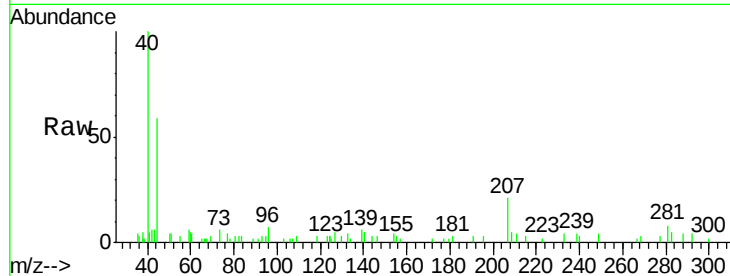




#79
 2-Chlorotoluene
 Concen: 9.619 ug/l
 RT: 11.83 min Scan# 1146
 Delta R.T. 0.02 min
 Lab File: VF062594.D
 Acq: 14 May 2019 22:05

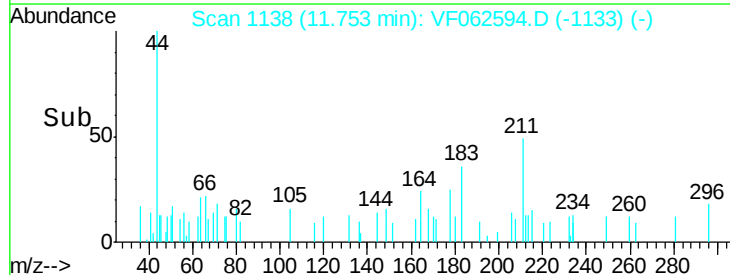
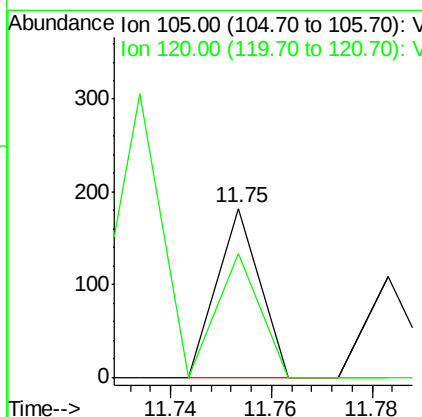
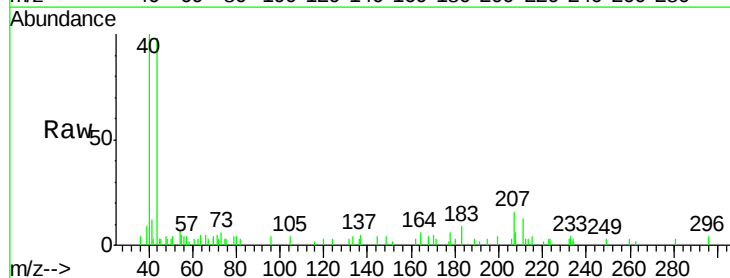
Instrument :
 MSVOA_F
 ClientSampleId :
 CULVER-CBTC-WC1-051019

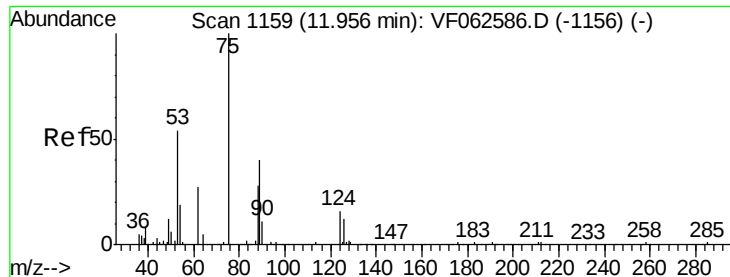
Tot Ion: 91 Resp: 135
 Ion Ratio Lower Upper
 91 100
 126 243.5 16.6 49.8#



#80
 1,3,5-Trimethylbenzene
 Concen: 6.453 ug/l
 RT: 11.75 min Scan# 1138
 Delta R.T. -0.15 min
 Lab File: VF062594.D
 Acq: 14 May 2019 22:05

Tgt Ion: 105 Resp: 108
 Ion Ratio Lower Upper
 105 100
 120 73.1 25.9 77.6





#81

trans-1,4-Dichloro-2-butene

Concen: 389.336 ug/l

RT: 11.97 min Scan# 1160

Delta R.T. 0.01 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1-051019

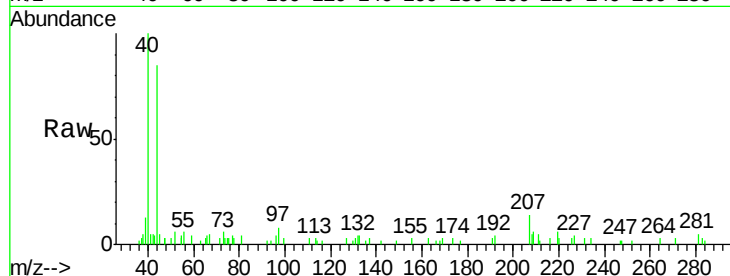
Tot Ion: 75 Resp: 466

Ion Ratio Lower Upper

75 100

53 0.0 46.6 70.0#

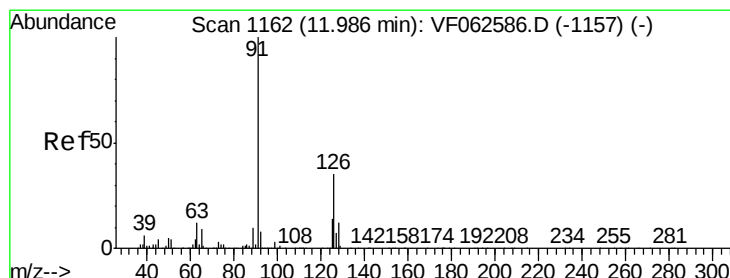
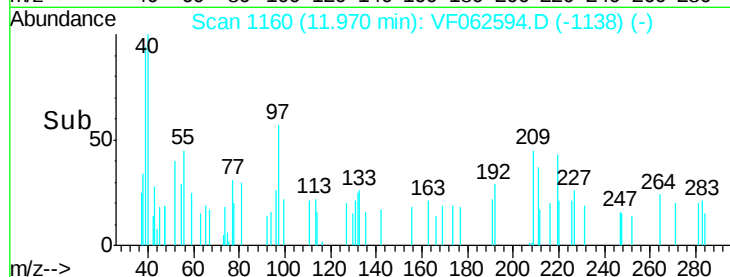
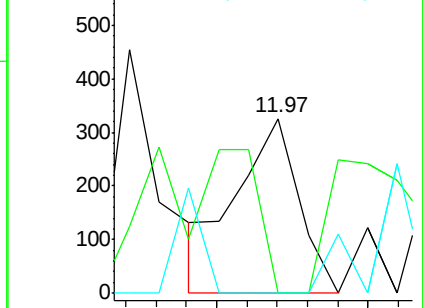
89 0.0 33.8 50.8#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 5.465 ug/l

RT: 11.98 min Scan# 1161

Delta R.T. -0.01 min

Lab File: VF062594.D

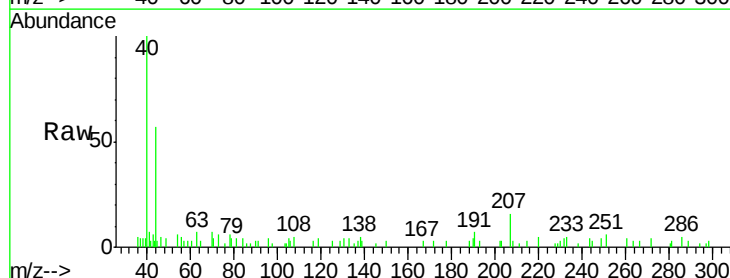
Acq: 14 May 2019 22:05

Tgt Ion: 91 Resp: 75

Ion Ratio Lower Upper

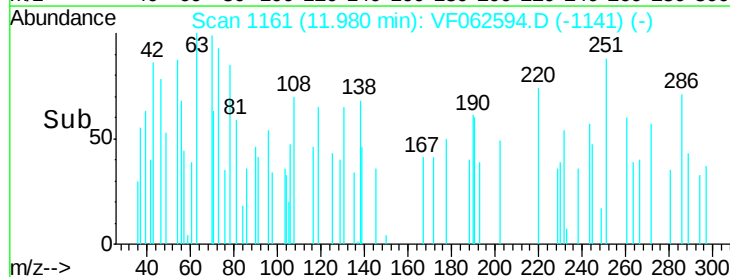
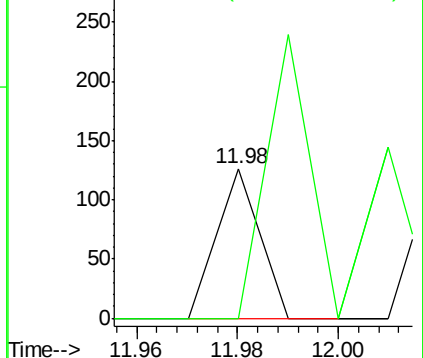
91 100

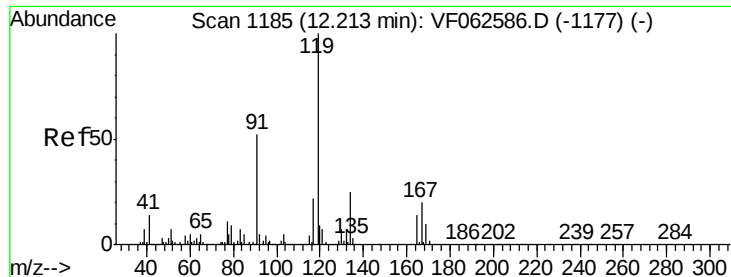
126 0.0 17.5 52.5#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





#83

tert-Butylbenzene

Concen: 26.332 ug/l

RT: 12.20 min Scan# 1183

Delta R.T. -0.02 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1-051019

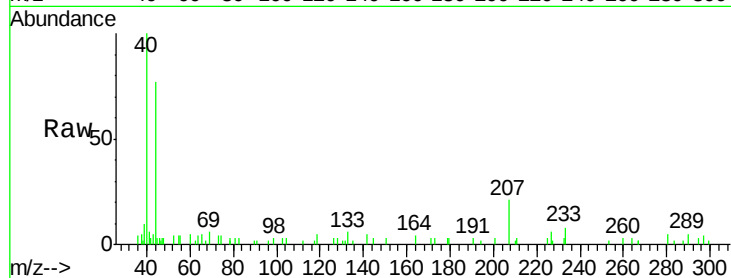
Tot Ion:119 Resp: 461

Ion Ratio Lower Upper

119 100

91 0.0 26.0 78.0#

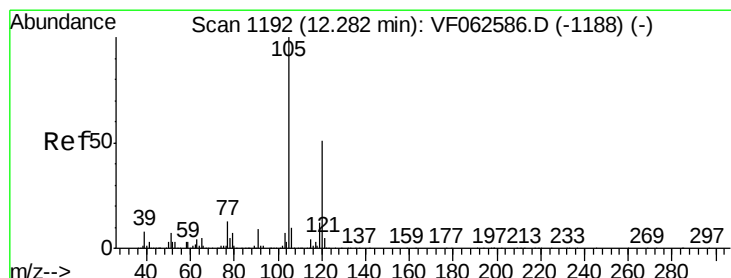
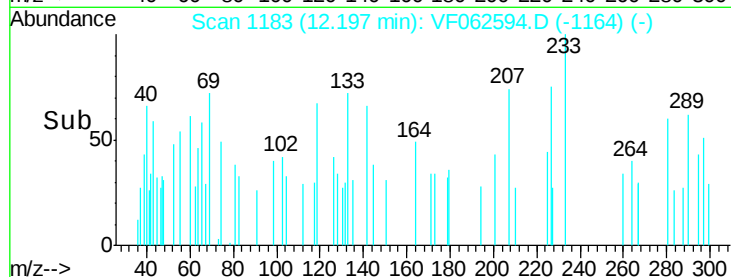
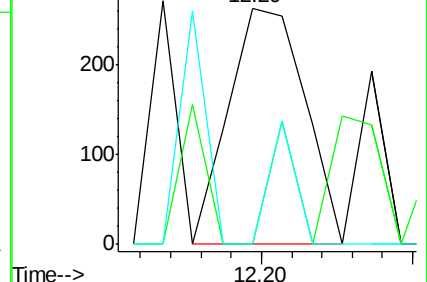
134 0.0 12.6 37.8#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 13.381 ug/l

RT: 12.29 min Scan# 1192

Delta R.T. 0.00 min

Lab File: VF062594.D

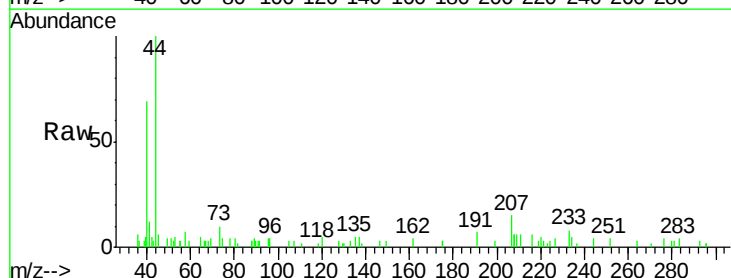
Acq: 14 May 2019 22:05

Tgt Ion:105 Resp: 220

Ion Ratio Lower Upper

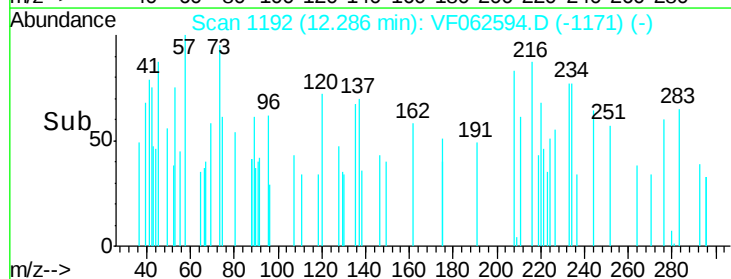
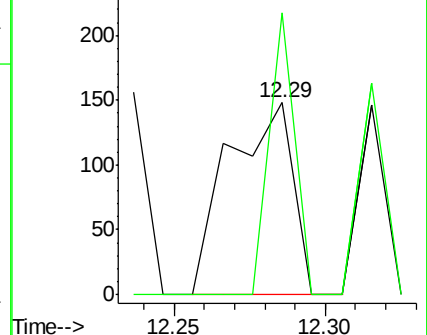
105 100

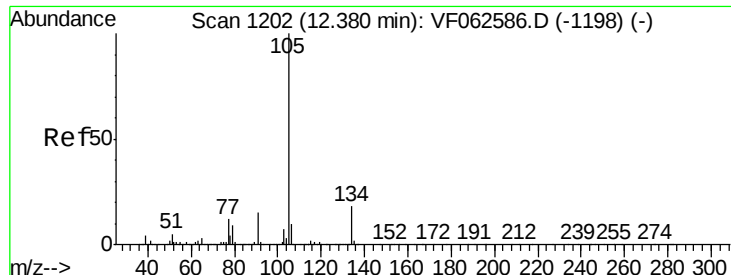
120 147.3 25.4 76.0#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 2.903 ug/l

RT: 12.35 min Scan# 1199

Delta R.T. -0.03 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

Instrument :

MSVOA_F

ClientSampleId :

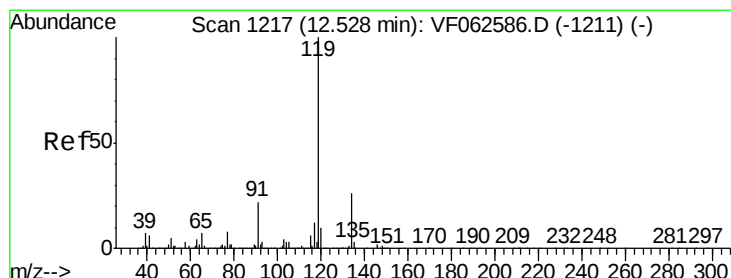
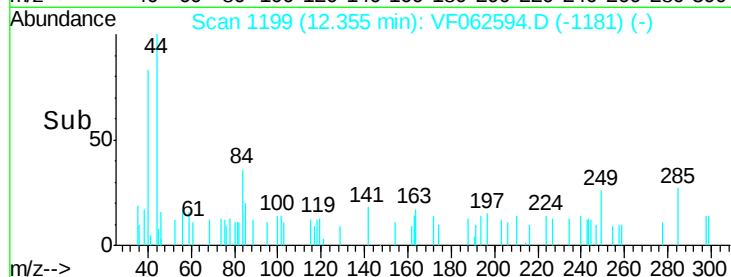
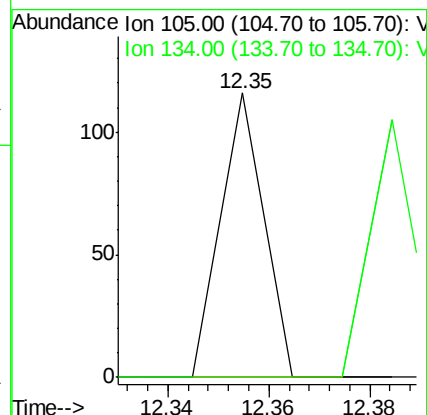
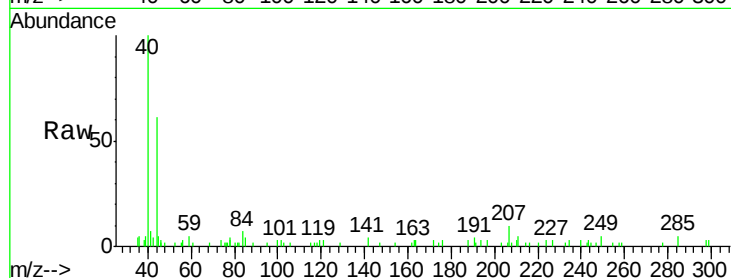
CULVER-CBTC-WC1-051019

Tot Ion:105 Resp: 69

Ion Ratio Lower Upper

105 100

134 0.0 9.3 27.7#



#86

p-Isopropyltoluene

Concen: 9.864 ug/l

RT: 12.54 min Scan# 1218

Delta R.T. 0.01 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

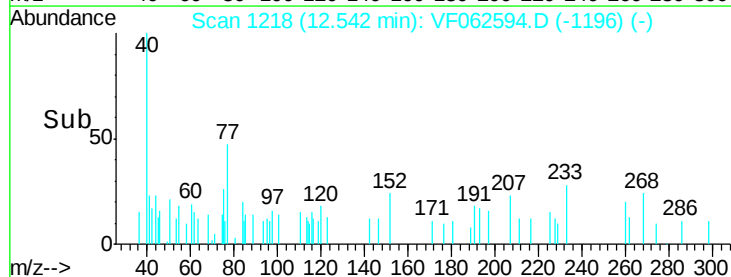
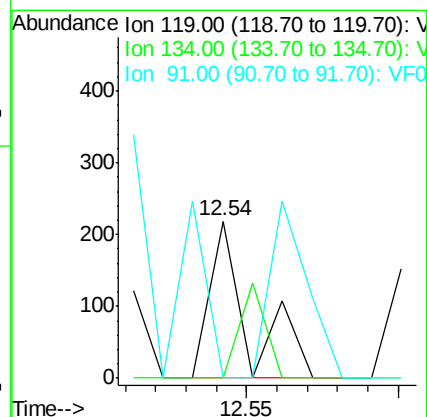
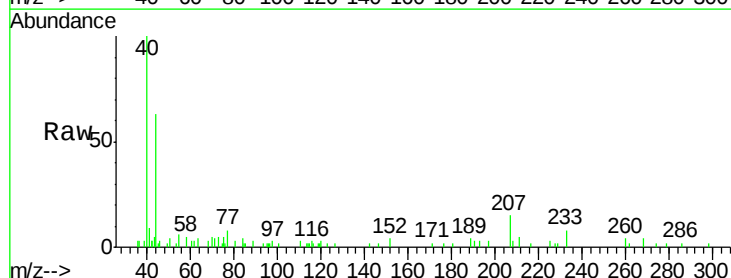
Tgt Ion:119 Resp: 193

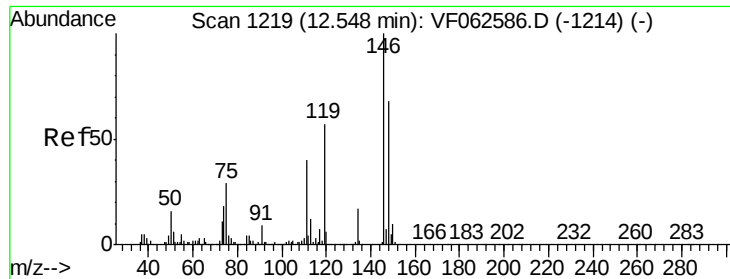
Ion Ratio Lower Upper

119 100

134 0.0 13.0 39.0#

91 0.0 10.9 32.9#





#87

1,3-Dichlorobenzene

Concen: 23.173 ug/l

RT: 12.52 min Scan# 1216

Delta R.T. -0.03 min

Lab File: VF062594.D

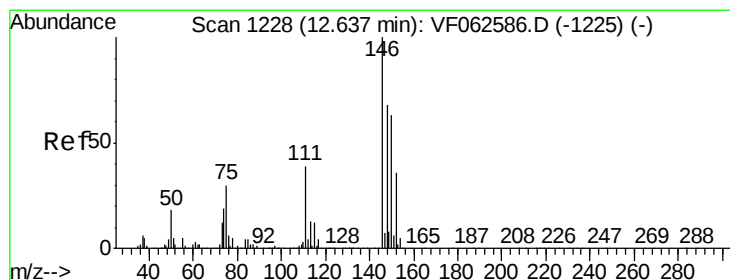
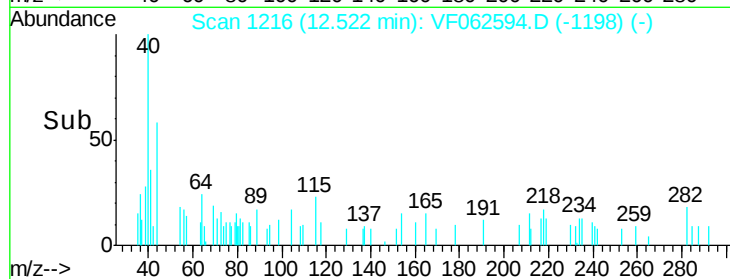
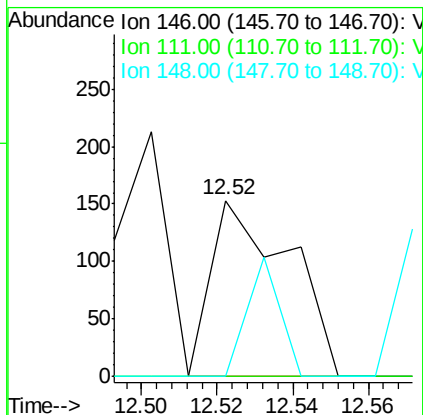
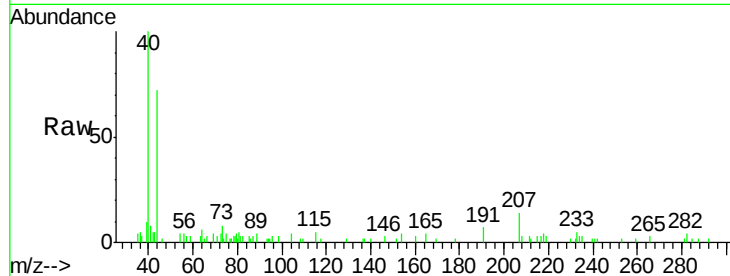
Acq: 14 May 2019 22:05

Instrument :
MSVOA_F

ClientSampleId :
CULVER-CBTC-WC1-051019

Tot Ion:146 Resp: 219

Ion	Ratio	Lower	Upper
146	100		
111	0.0	20.1	60.2#
148	0.0	34.0	101.8#



#88

1,4-Dichlorobenzene

Concen: 9.137 ug/l

RT: 12.67 min Scan# 1231

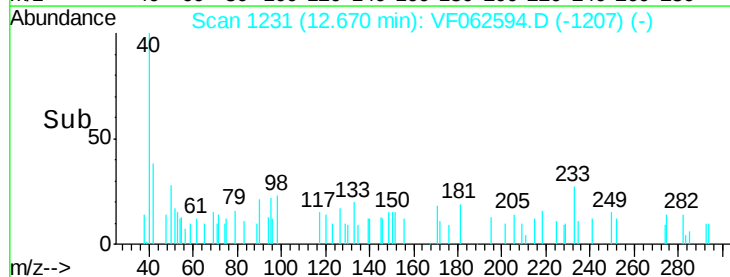
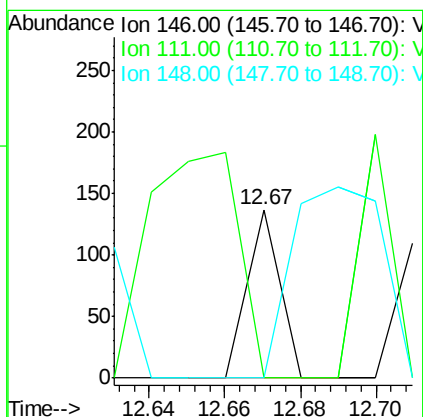
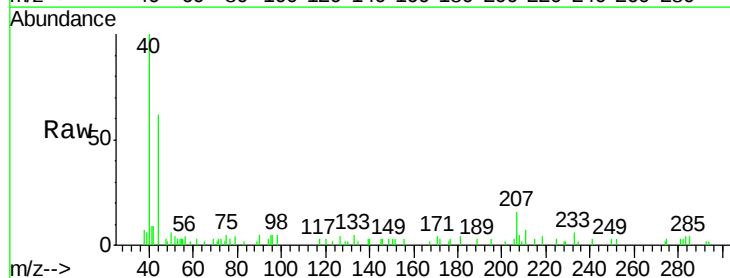
Delta R.T. 0.03 min

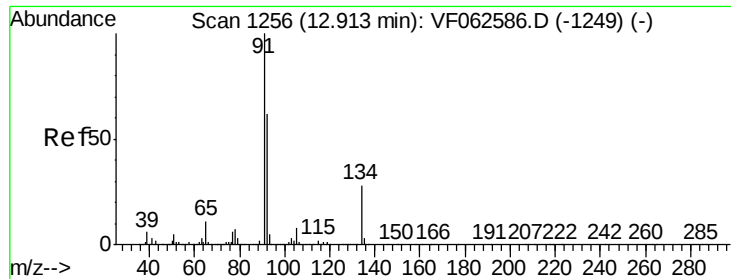
Lab File: VF062594.D

Acq: 14 May 2019 22:05

Tgt Ion:146 Resp: 81

Ion	Ratio	Lower	Upper
146	100		
111	0.0	19.4	58.1#
148	0.0	34.2	102.5#





#89

n-Butylbenzene

Concen: 5.875 ug/l

RT: 12.93 min Scan# 1257

Delta R.T. 0.01 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

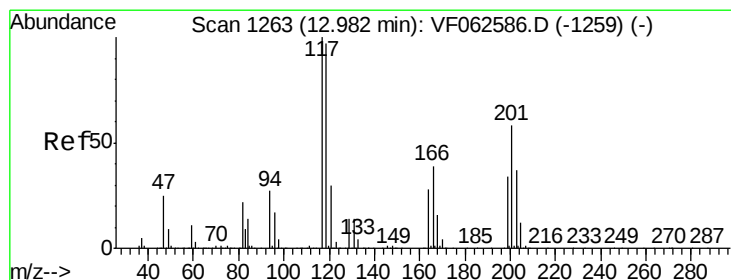
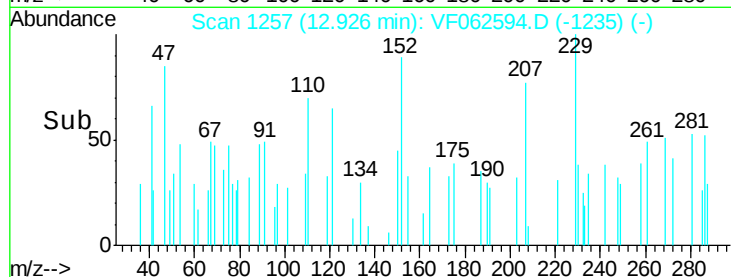
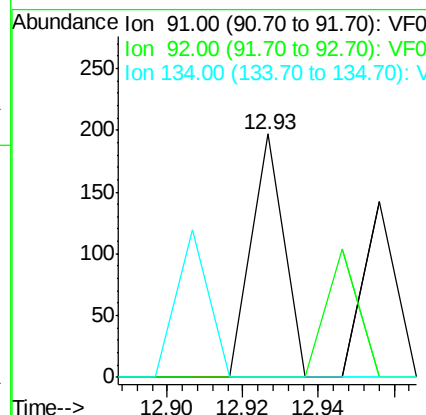
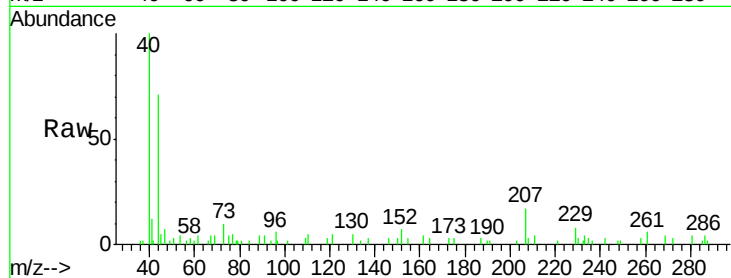
Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1-051019

Tot Ion:	91	Resp:	117
Ion	Ratio	Lower	Upper
91	100		
92	0.0	30.9	92.8#
134	0.0	13.9	41.6#



#90

Hexachloroethane

Concen: 59.260 ug/l

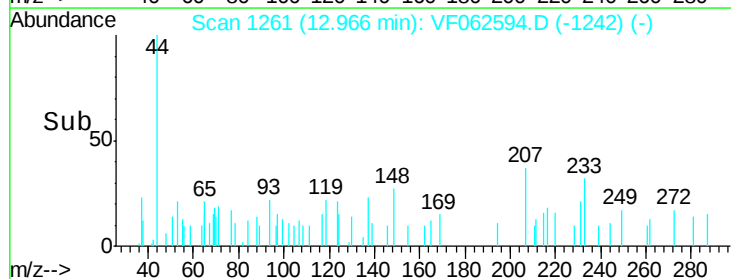
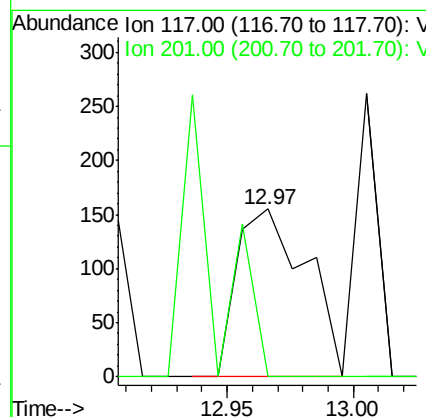
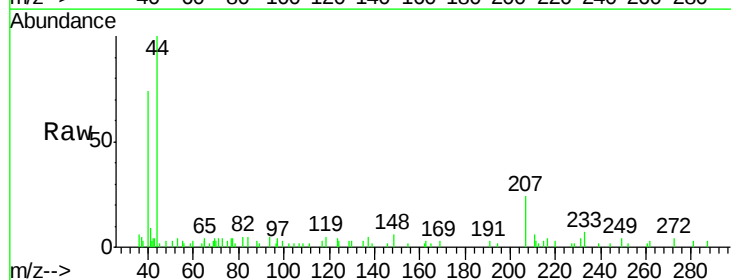
RT: 12.97 min Scan# 1261

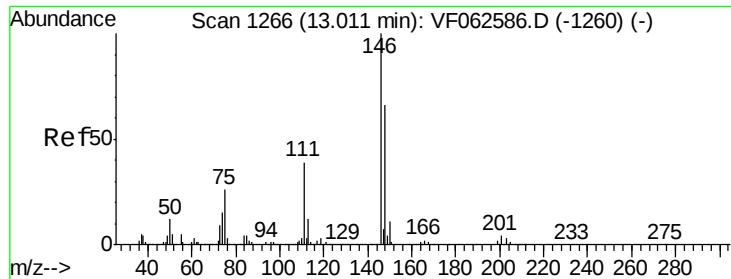
Delta R.T. -0.02 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

Tgt Ion:	117	Resp:	297
Ion	Ratio	Lower	Upper
117	100		
201	0.0	29.7	89.1#





#91

1,2-Dichlorobenzene

Concen: 28.030 ug/l

RT: 13.01 min Scan# 1265

Delta R.T. -0.01 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

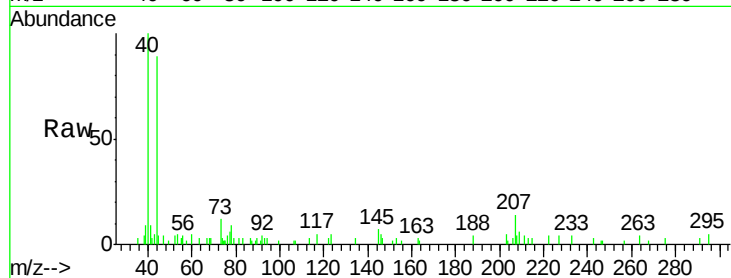
Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1-051019

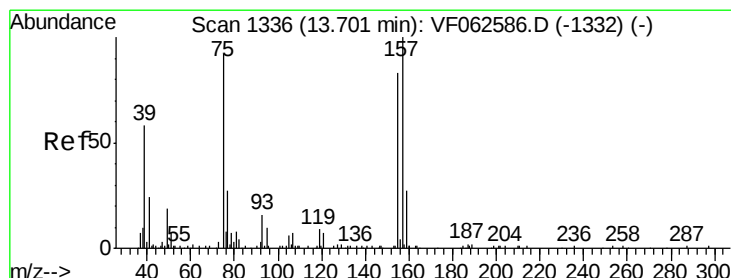
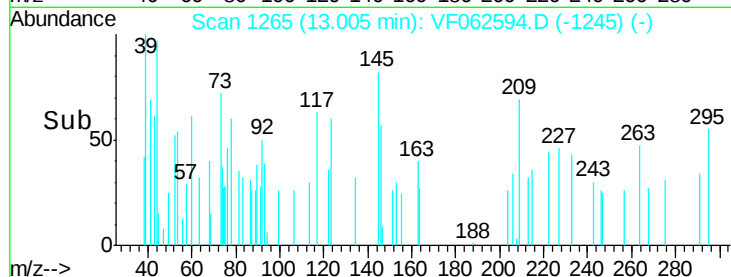
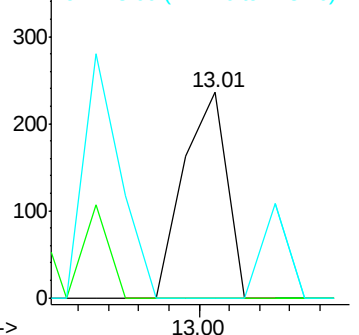
Tot Ion:	146	Resp:	235
Ion	Ratio	Lower	Upper
146	100		
111	0.0	19.4	58.2#
148	0.0	33.1	99.5#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 905.120 ug/l

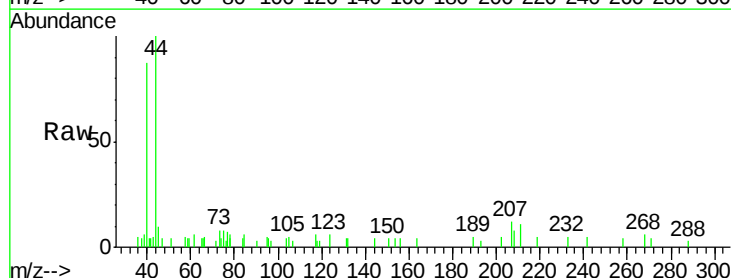
RT: 13.70 min Scan# 1335

Delta R.T. -0.01 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

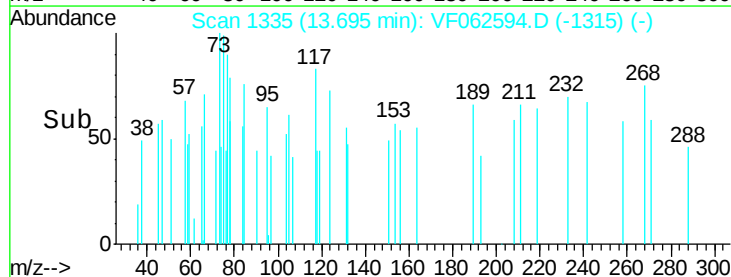
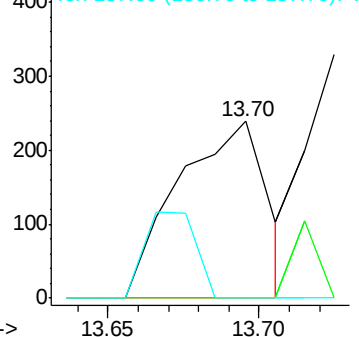
Tgt Ion:	75	Resp:	487
Ion	Ratio	Lower	Upper
75	100		
155	0.0	44.8	134.4#
157	0.0	54.1	162.3#

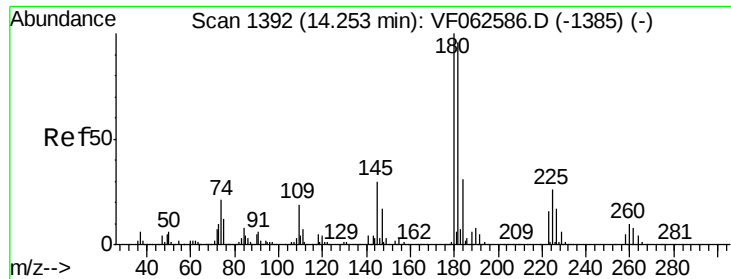


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

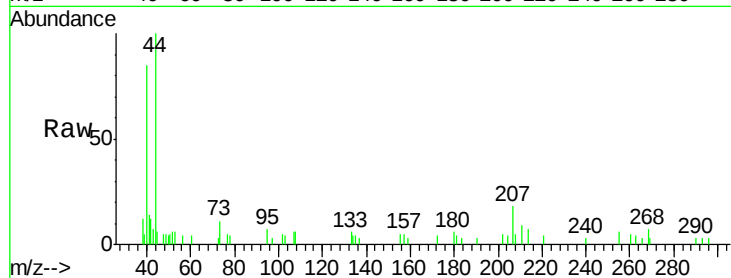




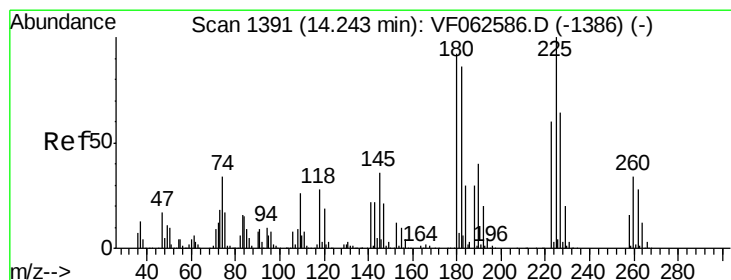
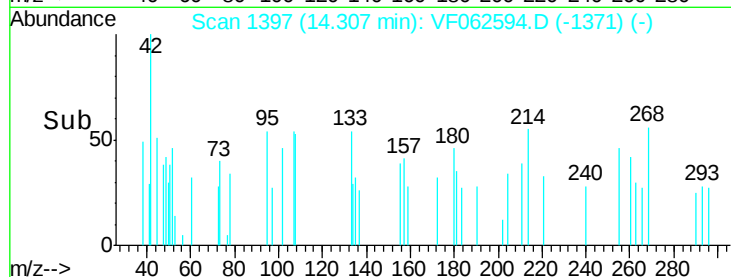
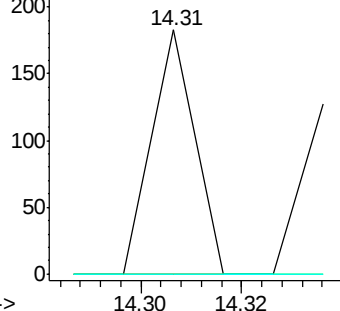
#93
 1,2,4-Trichlorobenzene
 Concen: 18.525 ug/l
 RT: 14.31 min Scan# 1397
 Delta R.T. 0.05 min
 Lab File: VF062594.D
 Acq: 14 May 2019 22:05

Instrument :
 MSVOA_F
 ClientSampleId :
 CULVER-CBTC-WC1-051019

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.9	143.8#
145	0.0	14.8	44.4#

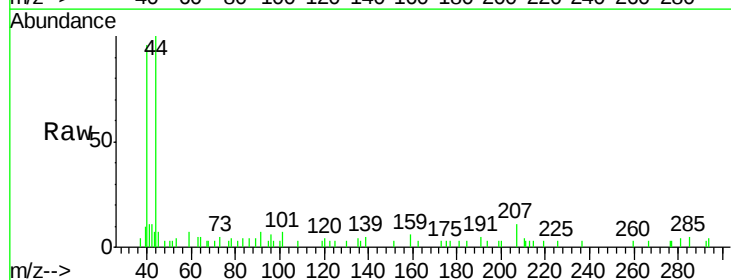


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

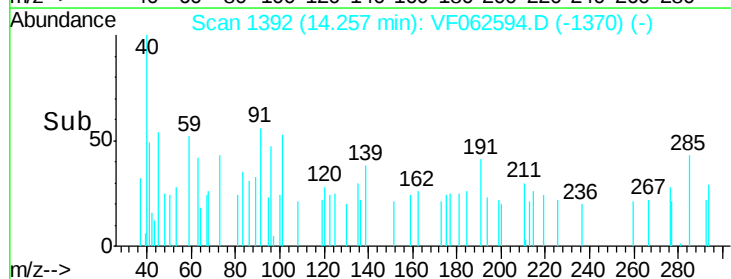
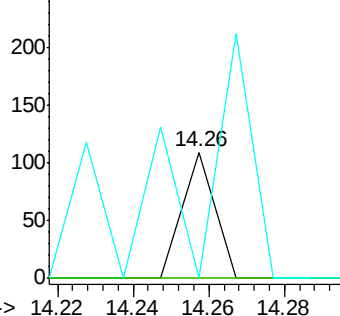


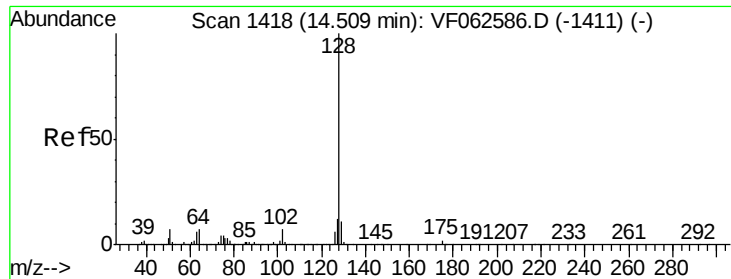
#94
 Hexachlorobutadiene
 Concen: 15.112 ug/l
 RT: 14.26 min Scan# 1392
 Delta R.T. 0.01 min
 Lab File: VF062594.D
 Acq: 14 May 2019 22:05

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	29.9	89.7#
227	0.0	31.9	95.9#



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 49.108 ug/l

RT: 14.50 min Scan# 1417

Delta R.T. -0.01 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1-051019

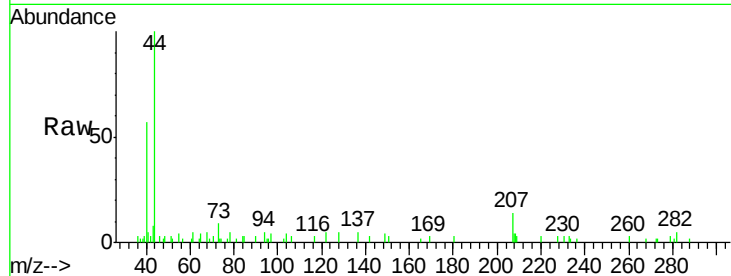
Tot Ion:128 Resp: 466

Ion Ratio Lower Upper

128 100

127 0.0 9.5 14.3#

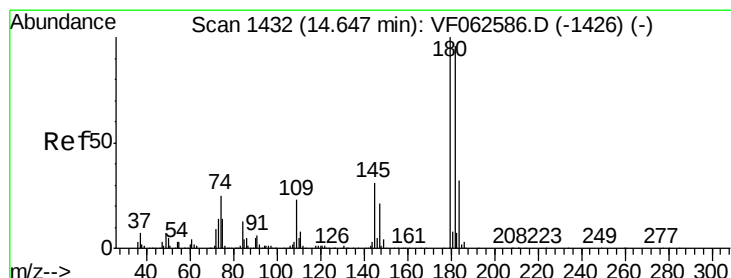
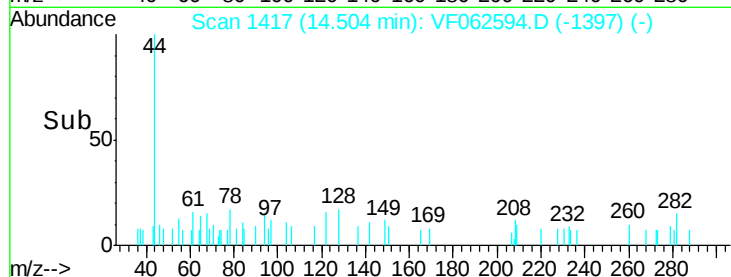
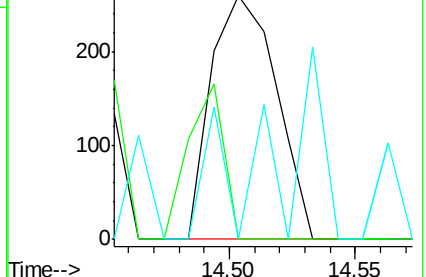
129 0.0 8.6 13.0#



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: 12.942 ug/l

RT: 14.66 min Scan# 1433

Delta R.T. 0.01 min

Lab File: VF062594.D

Acq: 14 May 2019 22:05

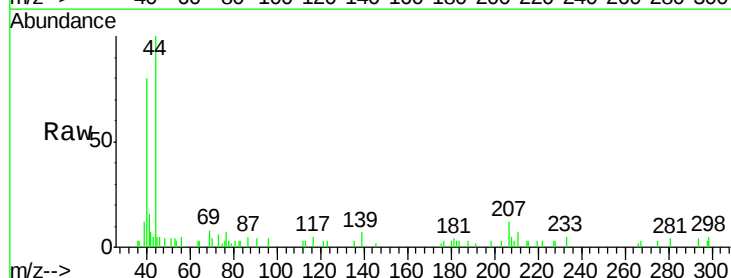
Tgt Ion:180 Resp: 70

Ion Ratio Lower Upper

180 100

182 0.0 48.1 144.3#

145 86.4 15.6 46.7#



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

