

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF052819\
 Data File : VF062762.D
 Acq On : 28 May 2019 16:03
 Operator : FY/SY
 Sample : K3054-02
 Misc : 16.50g/5mL/MSVOA F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CULVER-CBTC-WC1A-052419

Quant Time: May 29 01:48:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 05:49:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.07	168	57732	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.79	114	71942	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.93	117	40193	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.62	152	5773	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.04	65	5737	14.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	28.12%	
35) Dibromofluoromethane	4.33	113	16616	30.18	ug/l	0.01
Spiked Amount	50.000		Recovery	=	60.36%	
50) Toluene-d8	7.73	98	53966	41.06	ug/l	0.01
Spiked Amount	50.000		Recovery	=	82.12%	
62) 4-Bromofluorobenzene	11.50	95	9817	19.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	39.38%	

Target Compounds

						Qvalue
3) Chloromethane	1.18	50	995	1.375	ug/l	90
5) Bromomethane	1.40	94	842	2.311	ug/l #	72
6) Chloroethane	1.48	64	587	2.400	ug/l #	66
8) Diethyl Ether	1.73	74	220	1.242	ug/l	53
11) Tert butyl alcohol	2.68	59	1355	50.308	ug/l #	28
12) 1,1-Dichloroethene	1.86	96	628	1.211	ug/l #	14
13) Acrolein	2.12	56	542	19.278	ug/l	84
14) Allyl chloride	2.25	41	1344	2.863	ug/l #	32
15) Acrylonitrile	3.08	53	510	6.713	ug/l #	1
16) Acetone	2.42	43	535	5.055	ug/l	94
18) Methyl Acetate	2.47	43	1492	8.971	ug/l	100
20) Methylene Chloride	2.31	84	963	1.815	ug/l #	68
21) trans-1,2-Dichloroethene	2.40	96	600	1.184	ug/l #	16
22) Diisopropyl ether	2.95	45	1636	1.413	ug/l #	78
25) 2-Butanone	4.53	43	2029	8.973	ug/l #	50
26) 2,2-Dichloropropane	3.77	77	625	1.286	ug/l #	46
28) Bromochloromethane	3.90	49	610	1.281	ug/l #	2
29) Tetrahydrofuran	4.26	42	1428	15.606	ug/l #	61
37) Ethyl Acetate	4.27	43	2166	7.196	ug/l #	32
41) Methacrylonitrile	4.93	41	997	6.318	ug/l #	30
42) 1,2-Dichloroethane	5.13	62	691	1.725	ug/l	71
43) Isopropyl Acetate	7.12	43	1389	3.562	ug/l #	90
46) Dibromomethane	6.25	93	471	1.608	ug/l #	27
48) Methyl methacrylate	6.88	41	867	4.254	ug/l #	51
49) 1,4-Dioxane	6.89	88	203	77.763	ug/l #	36
55) 1,1,2-Trichloroethane	8.63	97	376	1.206	ug/l #	57
56) Ethyl methacrylate	8.77	69	923	2.484	ug/l #	75
58) 2-Chloroethyl Vinyl ether	7.49	63	695	5.747	ug/l #	51
59) 2-Hexanone	9.51	43	584	Below Cal		76
68) m/p-Xylenes	10.27	106	979	1.899	ug/l	92
71) Bromoform	10.85	173	166	1.046	ug/l #	27
73) Isopropylbenzene	11.22	105	1335	3.227	ug/l	84
74) N-amyl acetate	11.43	43	832	2.810	ug/l #	56
75) 1,1,2,2-Tetrachloroethane	11.77	83	156	1.845	ug/l #	23

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

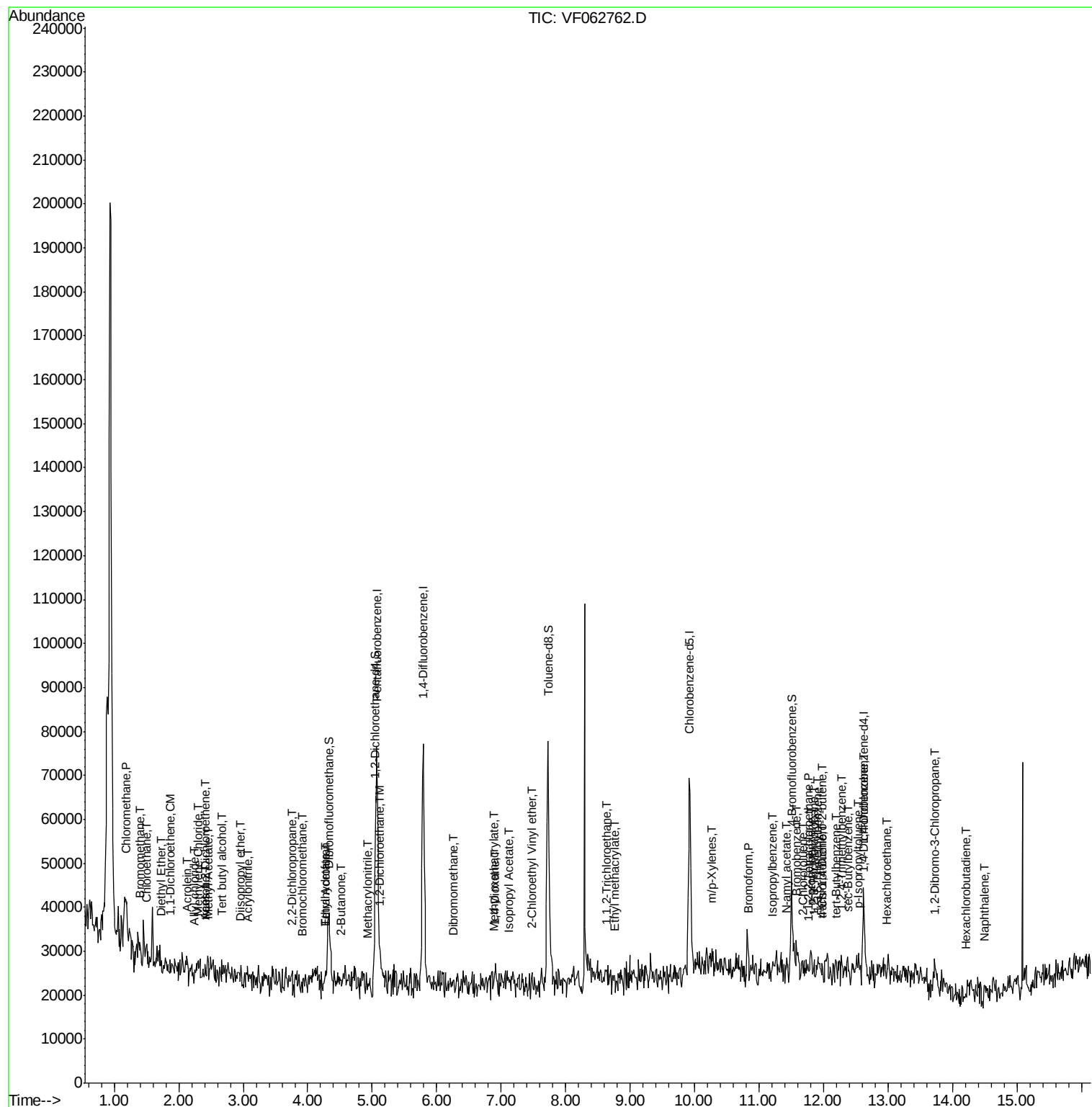
76) 1,2,3-Trichloropropane	11.86	75	733	13.193	ug/l	91
77) Bromobenzene	11.58	156	471	4.580	ug/l	85
78) n-propylbenzene	11.80	91	615	1.256	ug/l	97
79) 2-Chlorotoluene	11.68	91	808	2.928	ug/l	73
80) 1,3,5-Trimethylbenzene	11.91	105	377	1.136	ug/l	83
81) trans-1,4-Dichloro-2-buten	11.97	75	284	11.500	ug/l #	93
82) 4-Chlorotoluene	11.99	91	923	3.392	ug/l #	37
83) tert-Butylbenzene	12.21	119	390	1.159	ug/l #	62
84) 1,2,4-Trimethylbenzene	12.29	105	358	1.115	ug/l #	25
85) sec-Butylbenzene	12.38	105	976	2.161	ug/l #	54
86) p-Isopropyltoluene	12.54	119	771	2.025	ug/l #	80
88) 1,4-Dichlorobenzene	12.64	146	424	2.428	ug/l #	45
90) Hexachloroethane	12.98	117	156	1.708	ug/l #	20
92) 1,2-Dibromo-3-Chloropropan	13.72	75	359	35.589	ug/l #	1
94) Hexachlorobutadiene	14.21	225	162	1.955	ug/l #	58
95) Naphthalene	14.51	128	309	1.433	ug/l #	15

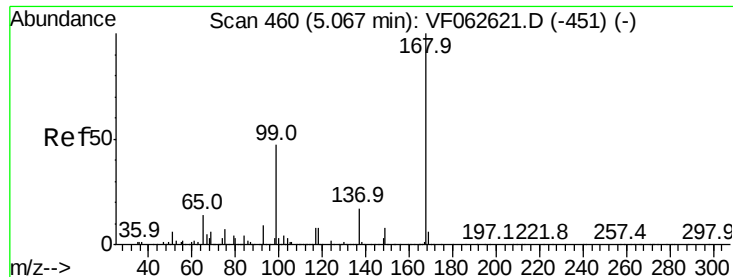
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 460

Delta R.T. 0.00 min

Lab File: VF062762.D

Acq: 28 May 2019 16:03

Instrument :

MSVOA_F

ClientSampleId :

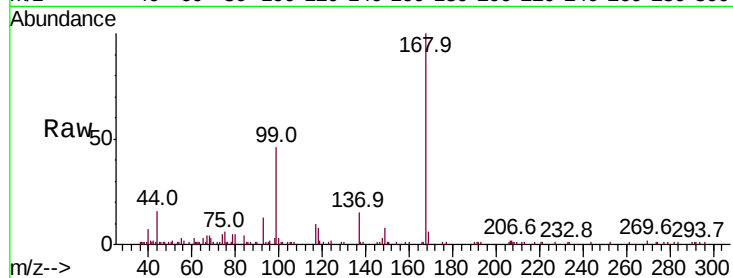
CULVER-CBTC-WC1A-052419

Tot Ion:168 Resp: 57732

Ion Ratio Lower Upper

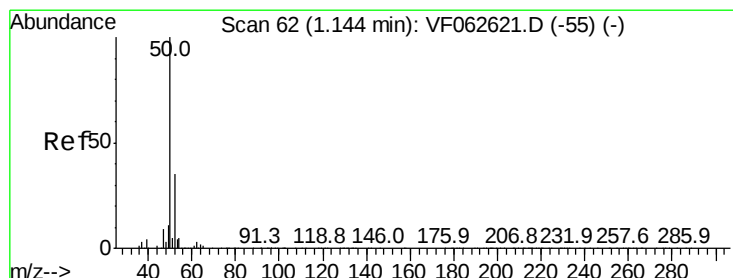
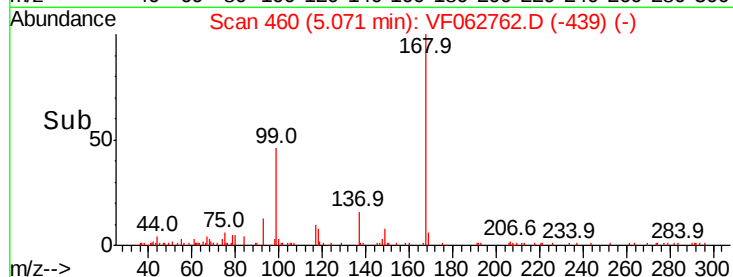
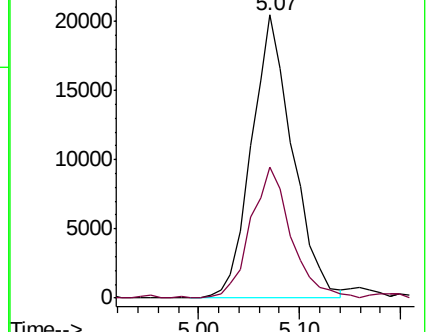
168 100

99 46.2 37.8 56.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#3

Chloromethane

Concen: 1.375 ug/l

RT: 1.18 min Scan# 65

Delta R.T. 0.03 min

Lab File: VF062762.D

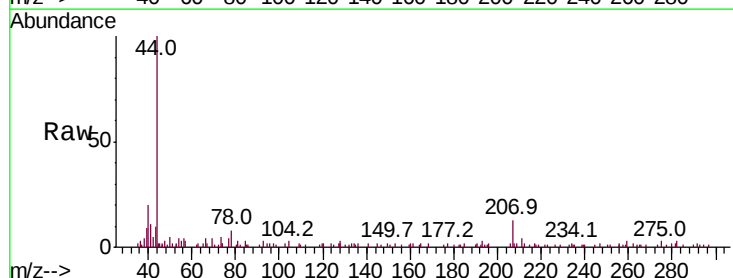
Acq: 28 May 2019 16:03

Tgt Ion: 50 Resp: 995

Ion Ratio Lower Upper

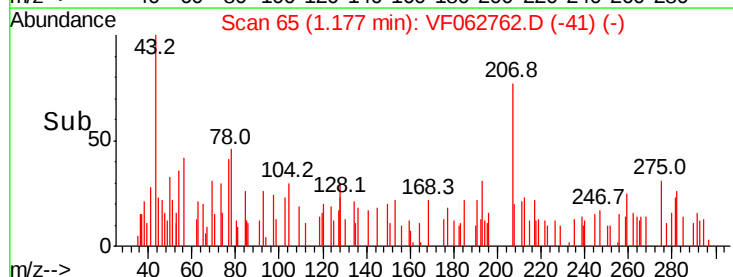
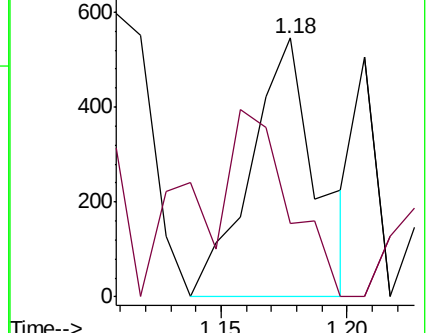
50 100

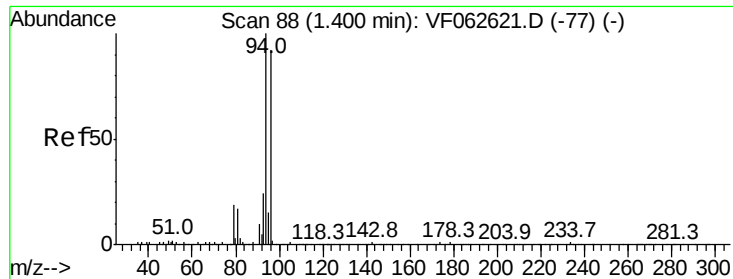
52 28.4 27.5 41.3



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0





#5

Bromomethane

Concen: 2.311 ug/l

RT: 1.40 min Scan# 88

Delta R.T. 0.00 min

Lab File: VF062762.D

Acq: 28 May 2019 16:03

Instrument :

MSVOA_F

ClientSampleId :

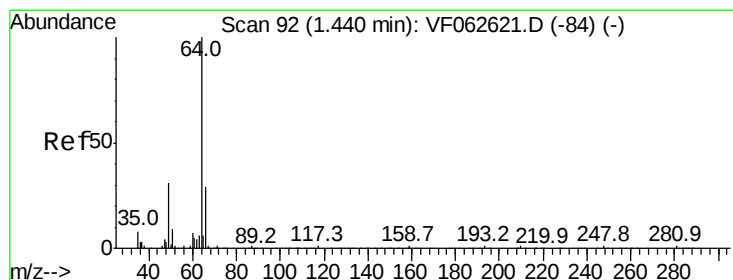
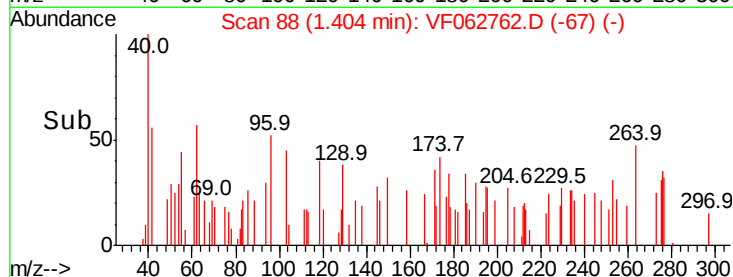
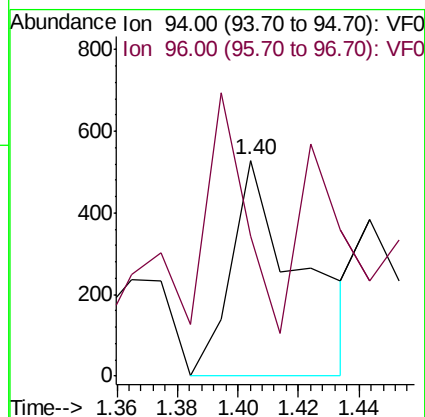
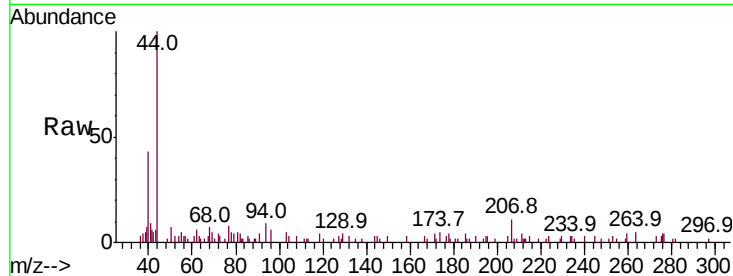
CULVER-CBTC-WC1A-052419

Tot Ion: 94 Resp: 842

Ion Ratio Lower Upper

94 100

96 64.8 73.2 109.8#



#6

Chloroethane

Concen: 2.400 ug/l

RT: 1.48 min Scan# 96

Delta R.T. 0.04 min

Lab File: VF062762.D

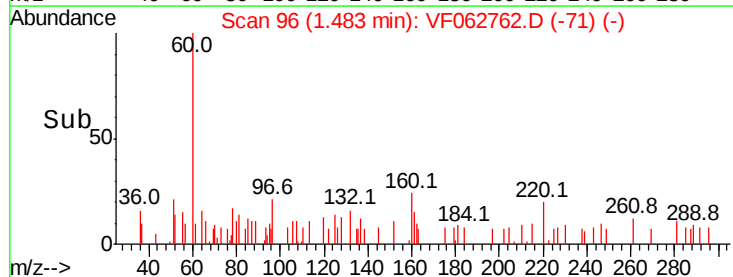
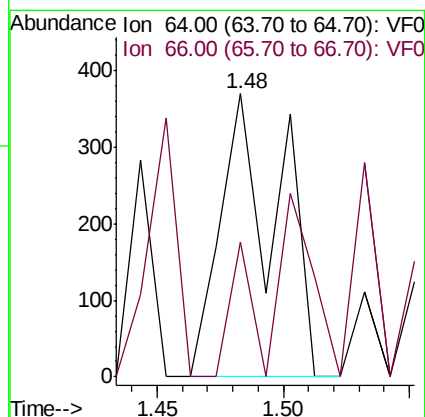
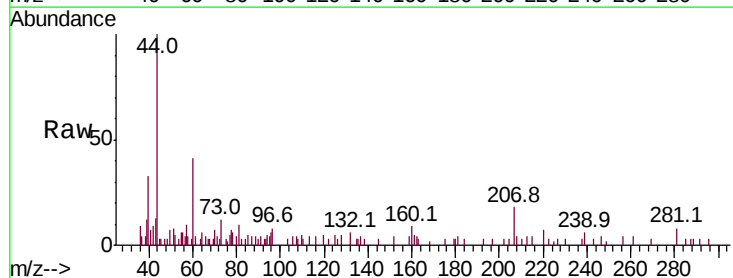
Acq: 28 May 2019 16:03

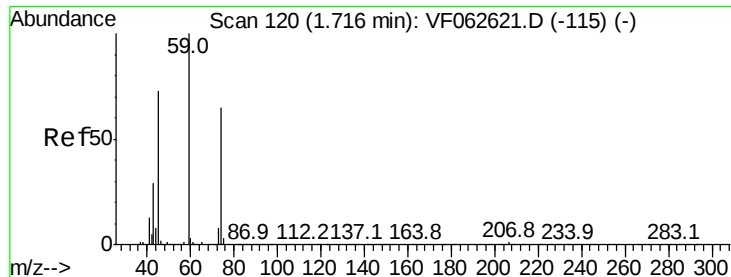
Tgt Ion: 64 Resp: 587

Ion Ratio Lower Upper

64 100

66 47.6 23.4 35.2#





#8

Diethyl Ether

Concen: 1.242 ug/l

RT: 1.73 min Scan# 121

Delta R.T. 0.01 min

Lab File: VF062762.D

Acq: 28 May 2019 16:03

Instrument :

MSVOA_F

ClientSampleId :

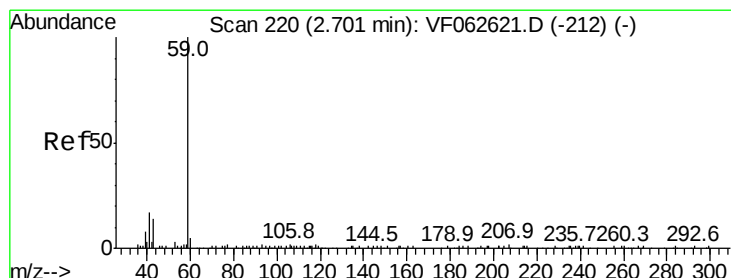
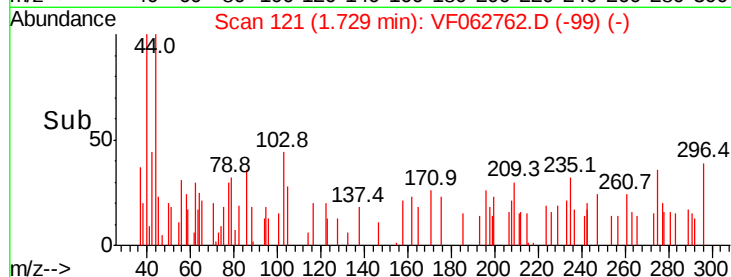
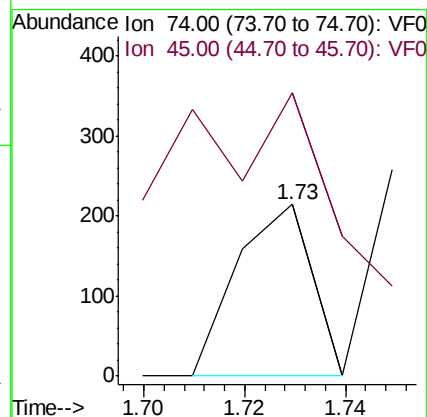
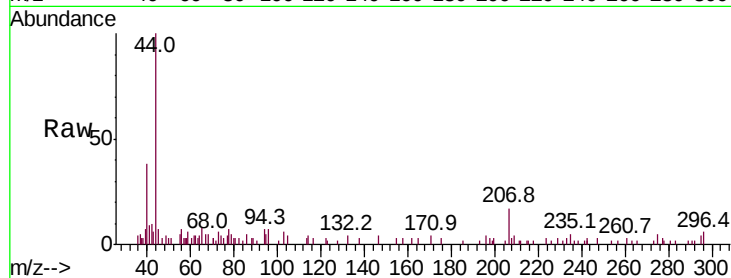
CULVER-CBTC-WC1A-052419

Tot Ion: 74 Resp: 220

Ion Ratio Lower Upper

74 100

45 165.0 57.0 170.8



#11

Tert butyl alcohol

Concen: 50.308 ug/l

RT: 2.68 min Scan# 217

Delta R.T. -0.03 min

Lab File: VF062762.D

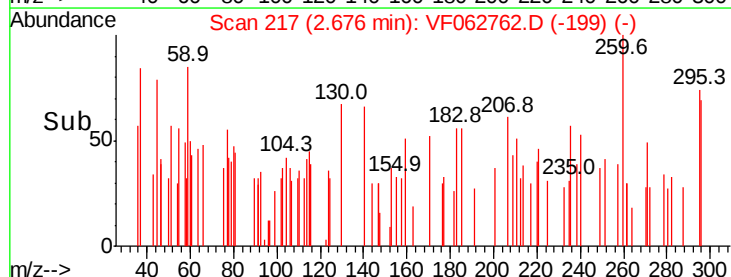
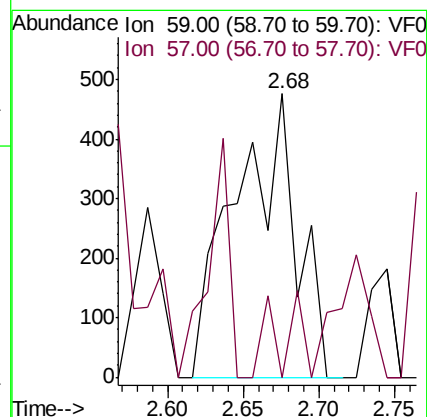
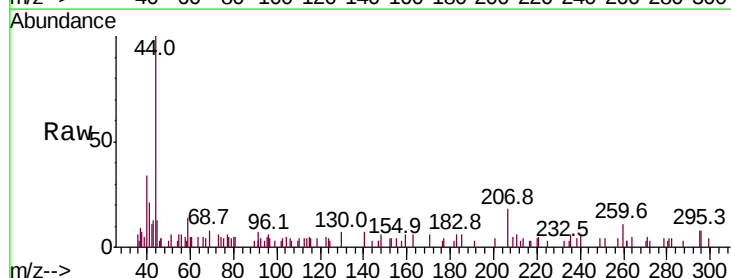
Acq: 28 May 2019 16:03

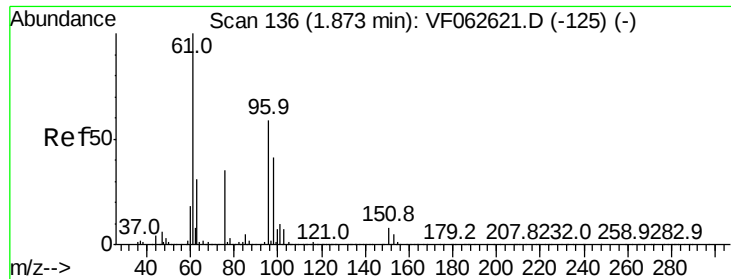
Tgt Ion: 59 Resp: 1355

Ion Ratio Lower Upper

59 100

57 39.5 9.3 13.9#





#12

1,1-Dichloroethene

Concen: 1.211 ug/l

RT: 1.86 min Scan# 134

Delta R.T. -0.02 min

Lab File: VF062762.D

Acq: 28 May 2019 16:03

Instrument :

MSVOA_F

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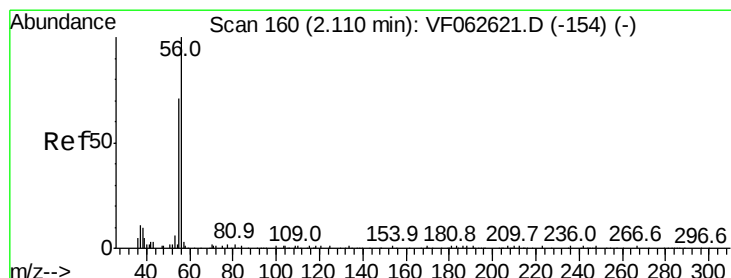
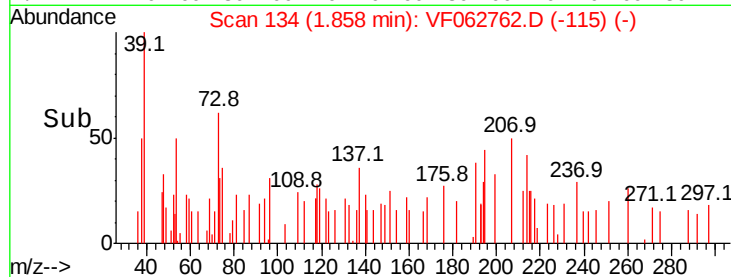
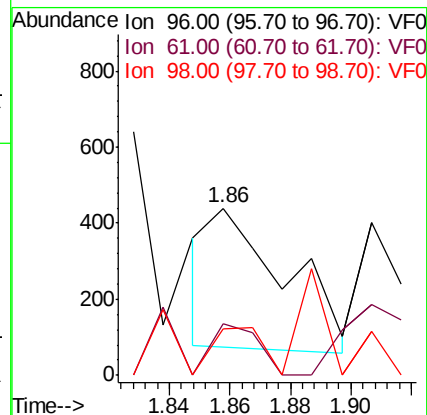
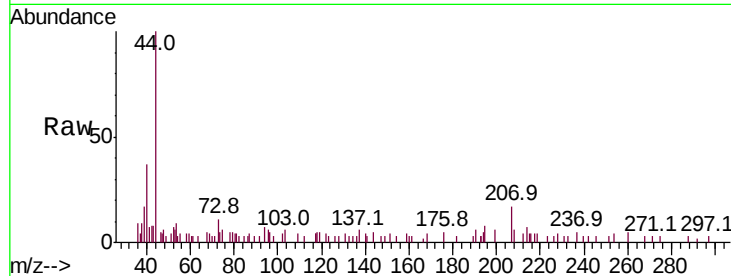
Tot Ion: 96 Resp: 628

Ion Ratio Lower Upper

96 100

61 31.2 134.3 201.5#

98 27.6 55.0 82.6#



#13

Acrolein

Concen: 19.278 ug/l

RT: 2.12 min Scan# 161

Delta R.T. 0.01 min

Lab File: VF062762.D

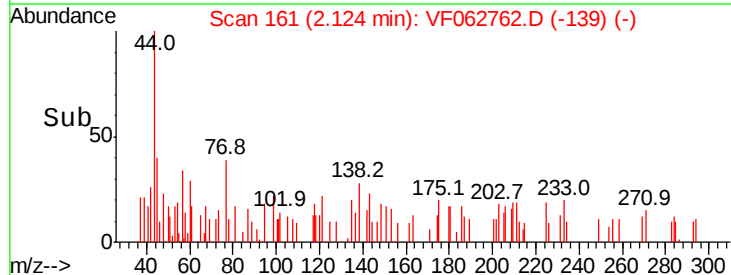
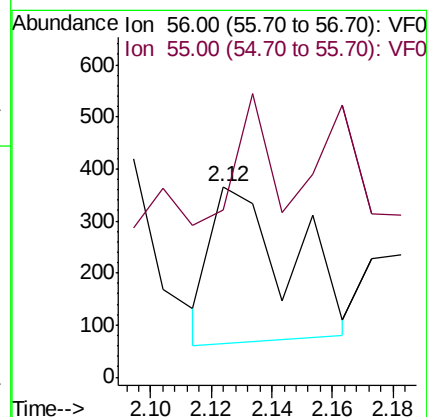
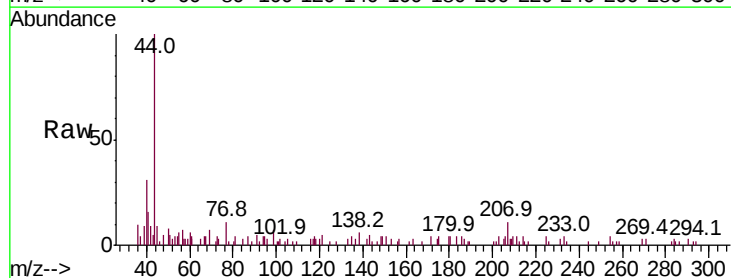
Acq: 28 May 2019 16:03

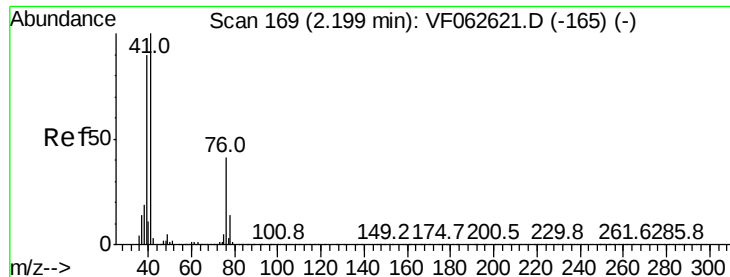
Tgt Ion: 56 Resp: 542

Ion Ratio Lower Upper

56 100

55 87.4 59.4 89.0

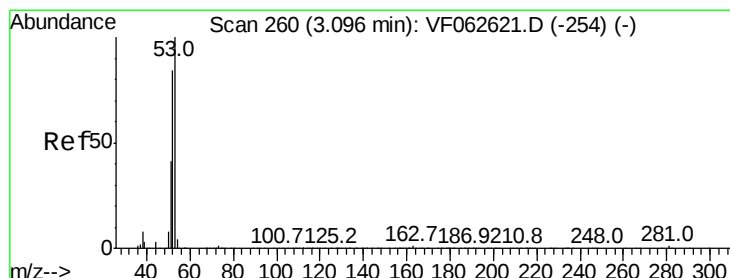
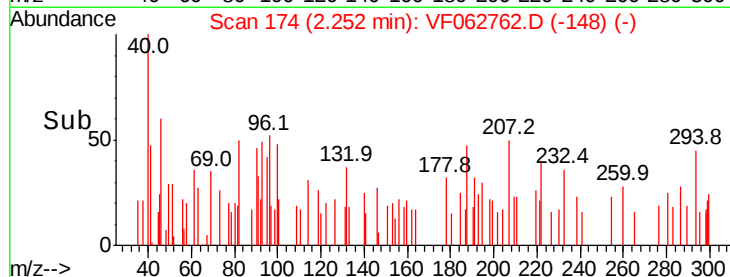
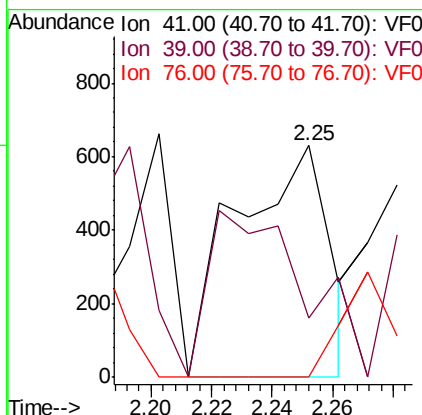
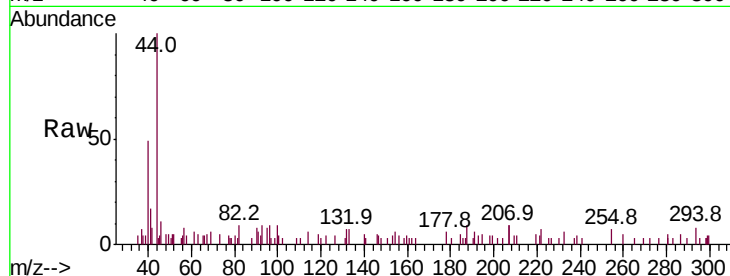




#14
Allvl chloride
Concen: 2.863 ug/l
RT: 2.25 min Scan# 174
Delta R.T. 0.05 min
Lab File: VF062762.D
Acq: 28 May 2019 16:03

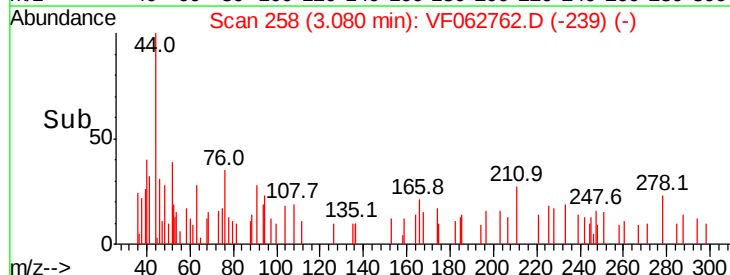
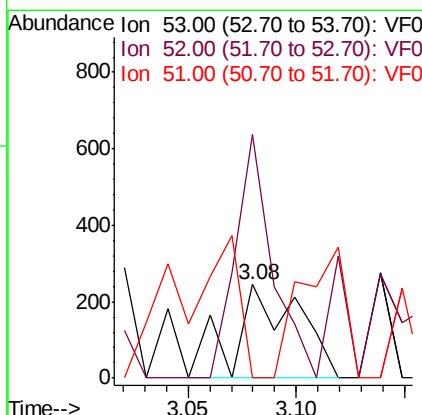
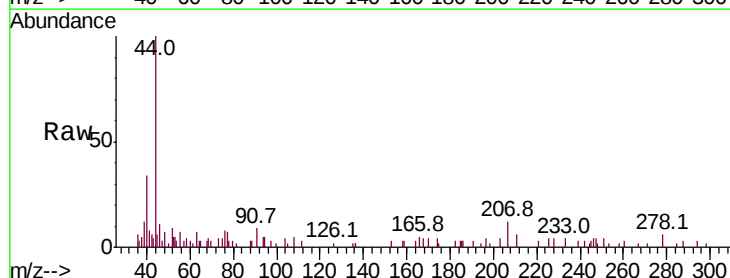
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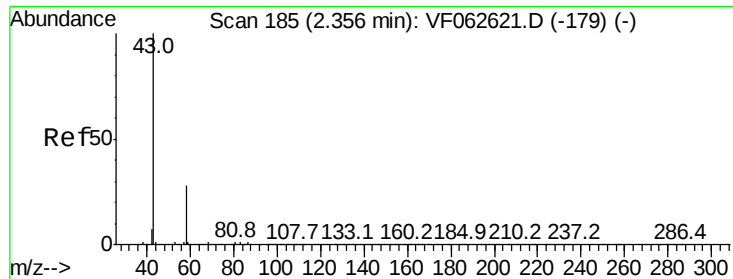
Tot Ion: 41 Resp: 1344
Ion Ratio Lower Upper
41 100
39 25.4 72.0 108.0#
76 0.0 34.8 52.2#



#15
Acrylonitrile
Concen: 6.713 ug/l
RT: 3.08 min Scan# 258
Delta R.T. -0.02 min
Lab File: VF062762.D
Acq: 28 May 2019 16:03

Tgt Ion: 53 Resp: 510
Ion Ratio Lower Upper
53 100
52 260.0 67.3 100.9#
51 174.7 33.0 49.6#

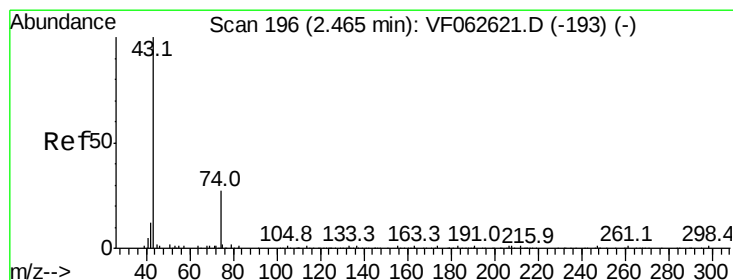
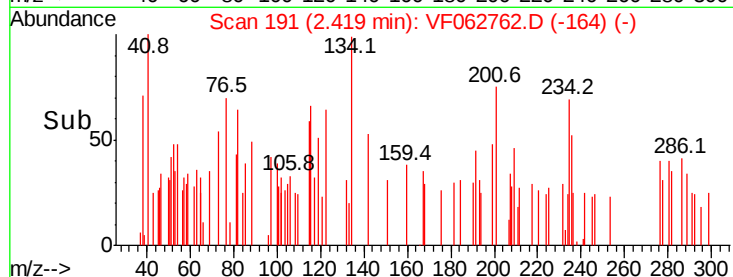
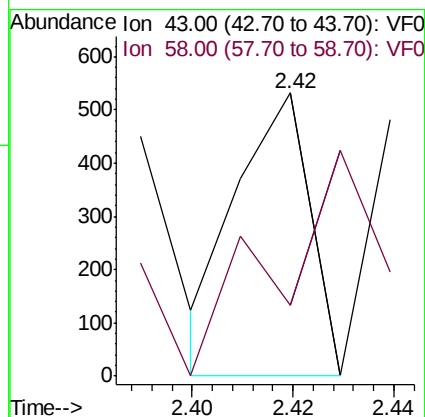
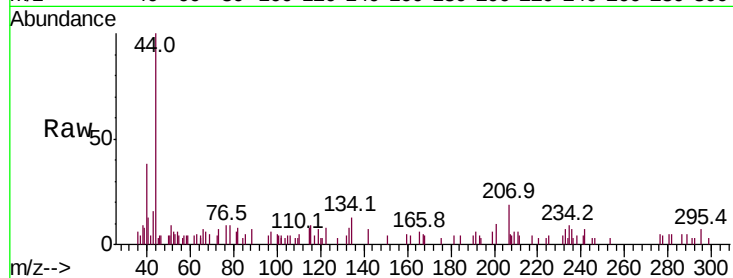




#16
Acetone
Concen: 5.055 ug/l
RT: 2.42 min Scan# 191
Delta R.T. 0.06 min
Lab File: VF062762.D
Acq: 28 May 2019 16:03

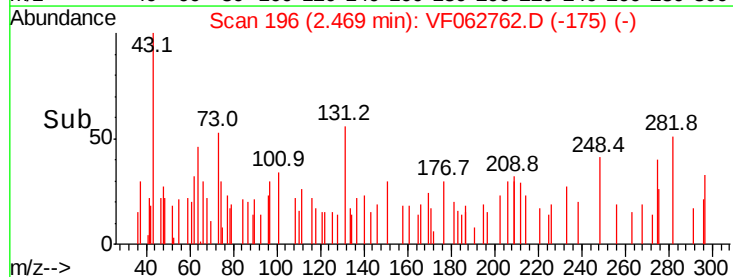
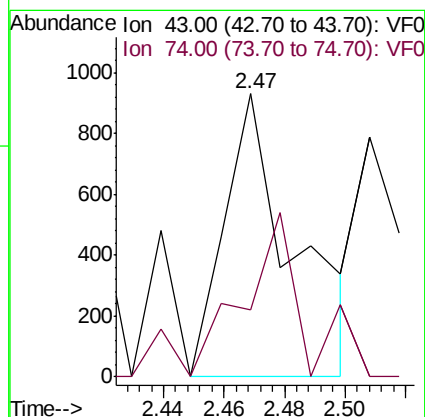
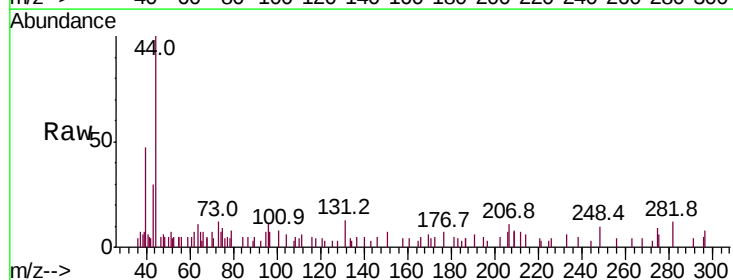
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ClientSampleId :
CULVER-CBTC-WC1A-052419

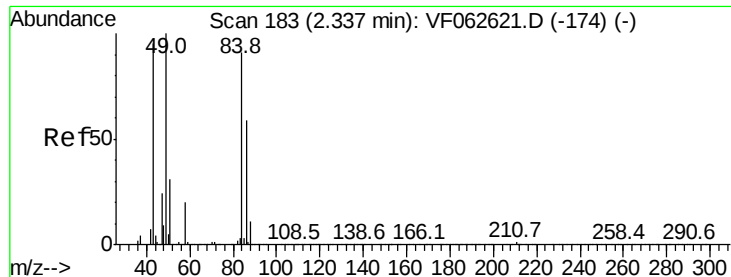
Tot Ion: 43 Resp: 535
Ion Ratio Lower Upper
43 100
58 25.2 22.6 33.8



#18
Methyl Acetate
Concen: 8.971 ug/l
RT: 2.47 min Scan# 196
Delta R.T. 0.00 min
Lab File: VF062762.D
Acq: 28 May 2019 16:03

Tgt Ion: 43 Resp: 1492
Ion Ratio Lower Upper
43 100
74 23.5 18.9 28.3

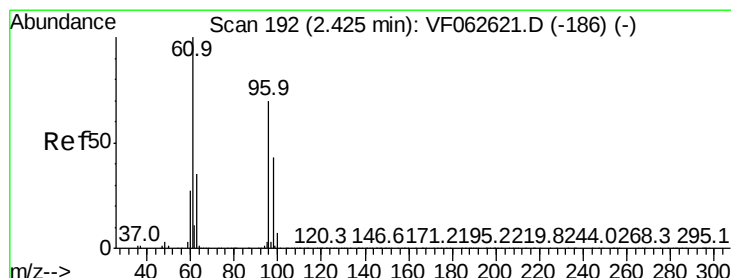
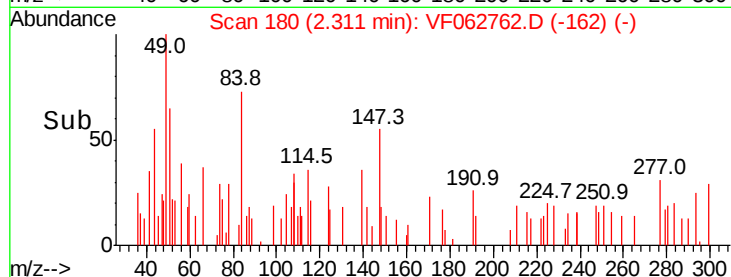
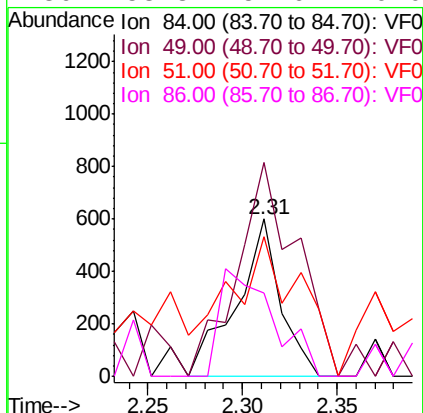
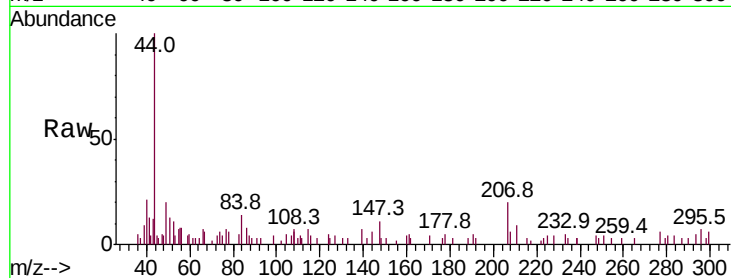




#20
Methvlene Chloride
Concen: 1.815 ug/l
RT: 2.31 min Scan# 180
Delta R.T. -0.03 min
Lab File: VF062762.D
Acq: 28 May 2019 16:03

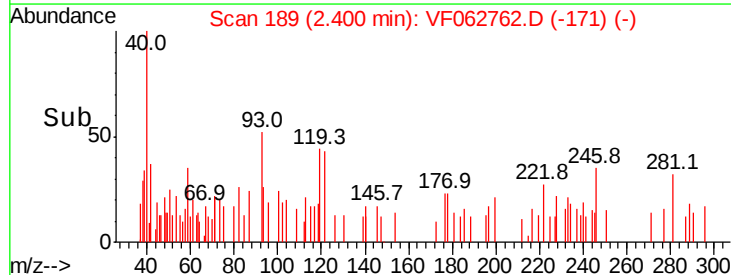
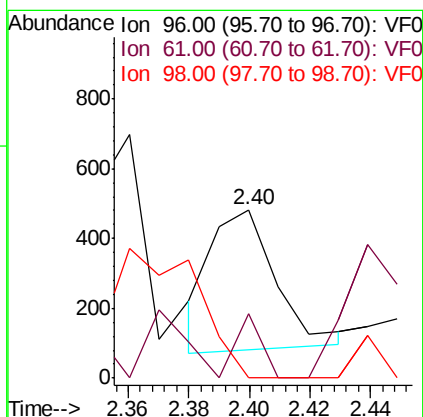
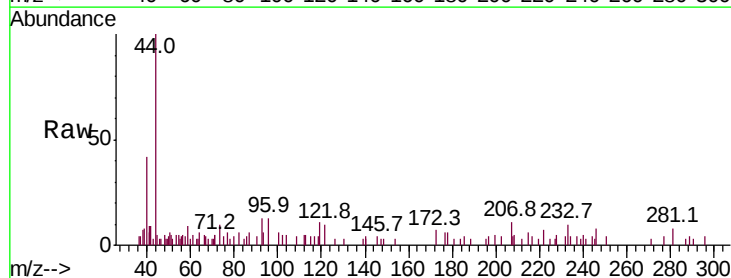
Instrument :
MSVOA_F
ClientSampleId :
CULVER-CBTC-WC1A-052419

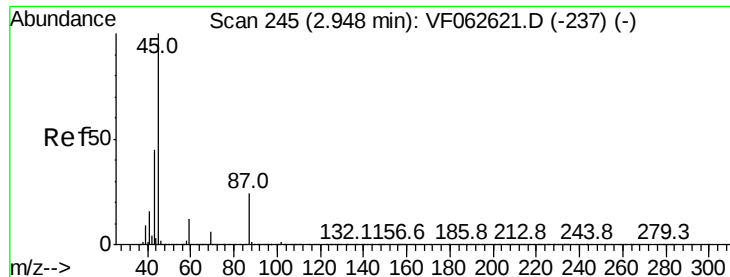
Tot Ion:	84	Resp:	963
Ion	Ratio	Lower	Upper
84	100		
49	136.1	89.8	134.8#
51	89.0	28.4	42.6#
86	53.3	52.6	79.0



#21
trans-1,2-Dichloroethene
Concen: 1.184 ug/l
RT: 2.40 min Scan# 189
Delta R.T. -0.03 min
Lab File: VF062762.D
Acq: 28 May 2019 16:03

Tgt Ion:	96	Resp:	600
Ion	Ratio	Lower	Upper
96	100		
61	38.3	114.6	171.8#
98	0.0	49.5	74.3#





#22

Diisopropyl ether

Concen: 1.413 ug/l

RT: 2.95 min Scan# 245

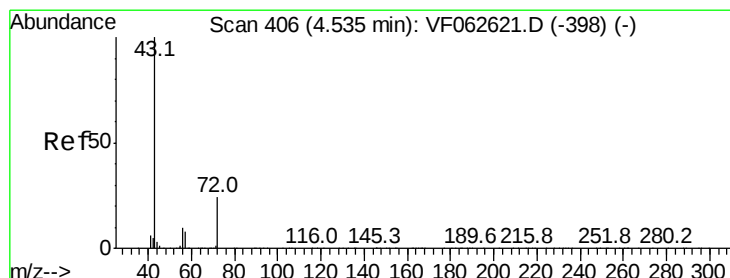
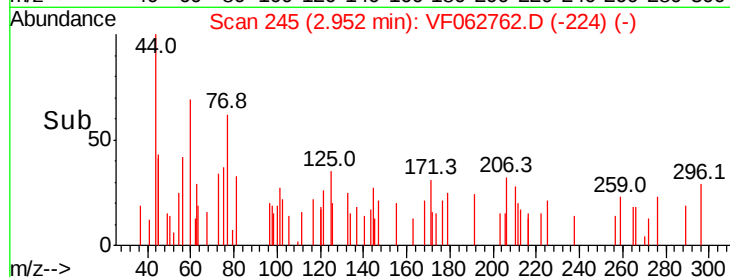
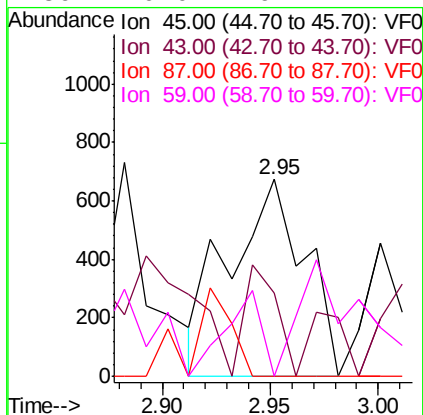
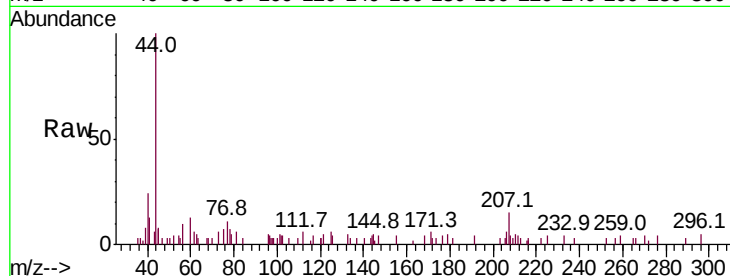
Delta R.T. 0.00 min

Lab File: VF062762.D

Acq: 28 May 2019 16:03

Instrument :
MSVOA_F
ClientSampleId :
CULVER-CBTC-WC1A-052419

Tot Ion:	45	Resp:	1636
Ion	Ratio	Lower	Upper
45	100		
43	42.3	36.4	54.6
87	0.0	19.3	28.9#
59	0.0	9.4	14.2#



#25

2-Butanone

Concen: 8.973 ug/l

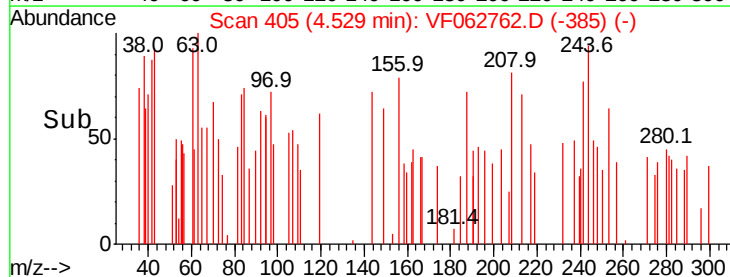
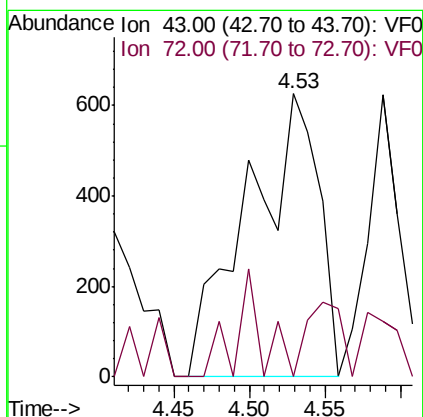
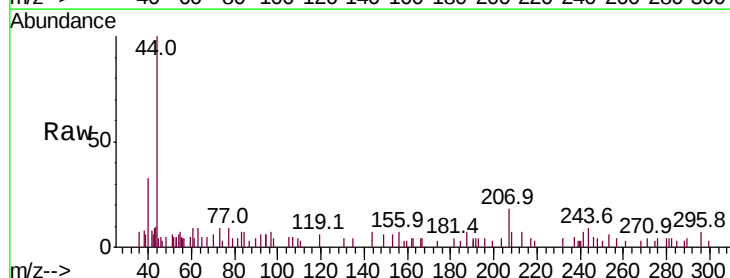
RT: 4.53 min Scan# 405

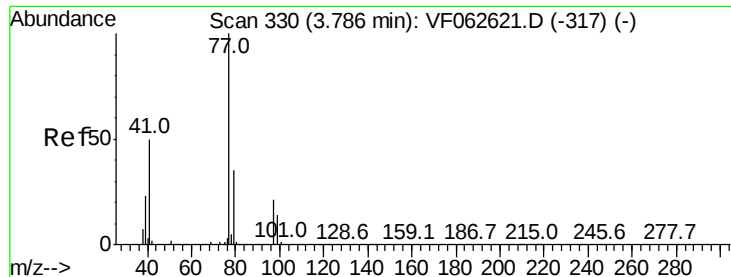
Delta R.T. -0.01 min

Lab File: VF062762.D

Acq: 28 May 2019 16:03

Tgt Ion:	43	Resp:	2029
Ion	Ratio	Lower	Upper
43	100		
72	0.0	20.1	30.1#





#26

2,2-Dichloropropane

Concen: 1.286 ug/l

RT: 3.77 min Scan# 328

Delta R.T. -0.02 min

Lab File: VF062762.D

Acq: 28 May 2019 16:03

Instrument :

MSVOA_F

ClientSampleId :

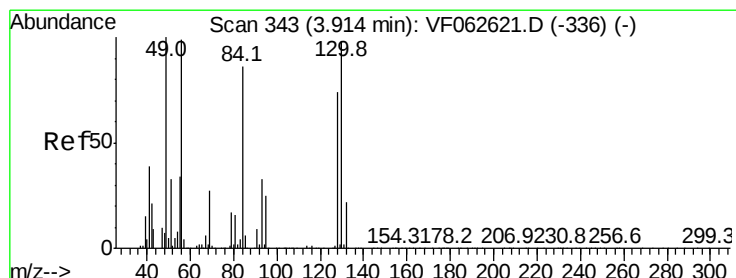
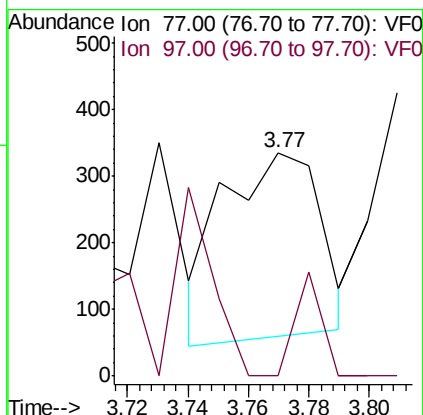
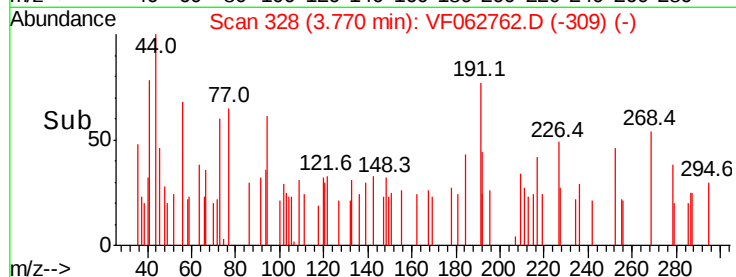
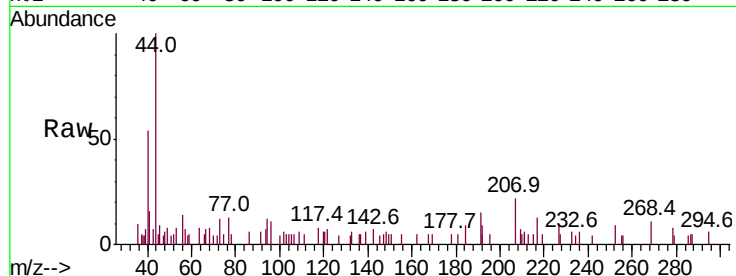
CULVER-CBTC-WC1A-052419

Tot Ion: 77 Resp: 625

Ion Ratio Lower Upper

77 100

97 0.0 14.1 42.4#



#28

Bromochloromethane

Concen: 1.281 ug/l

RT: 3.90 min Scan# 341

Delta R.T. -0.02 min

Lab File: VF062762.D

Acq: 28 May 2019 16:03

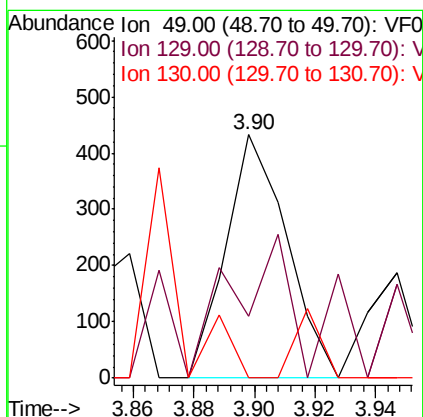
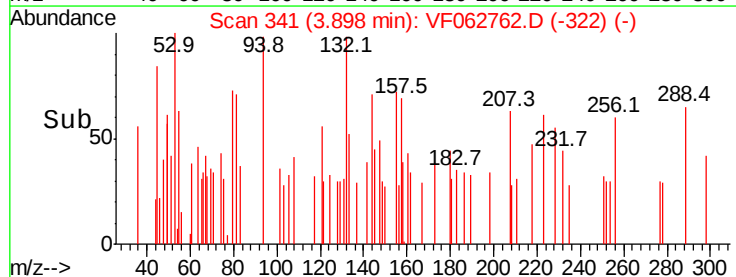
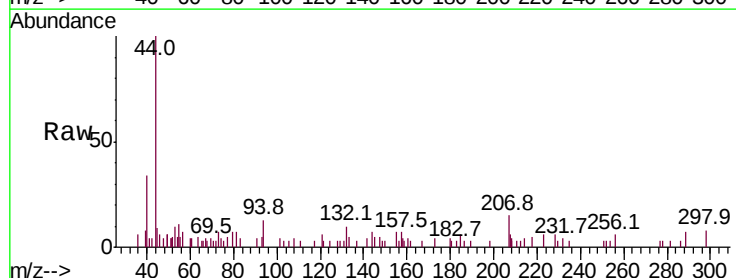
Tgt Ion: 49 Resp: 610

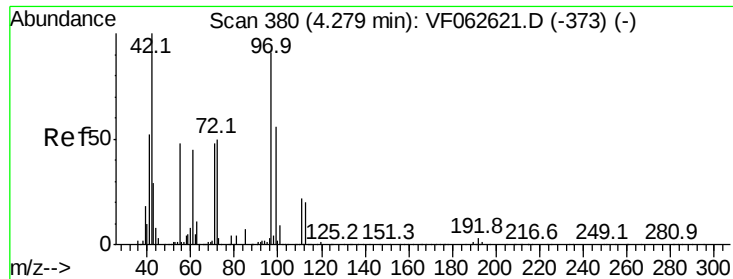
Ion Ratio Lower Upper

49 100

129 25.2 0.0 4.0#

130 0.0 77.8 116.8#

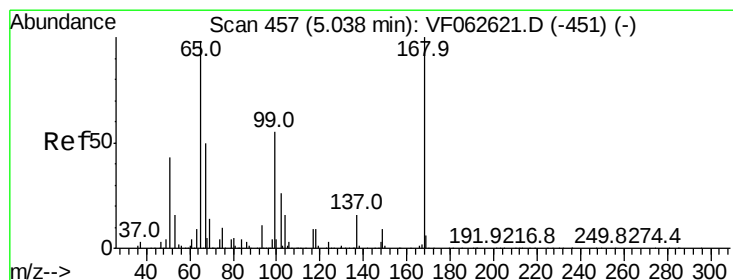
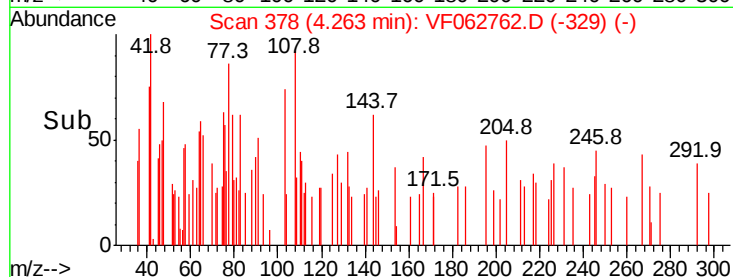
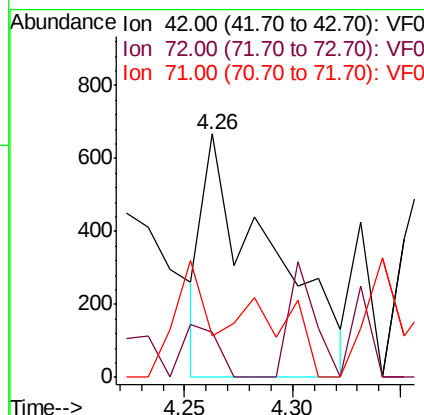
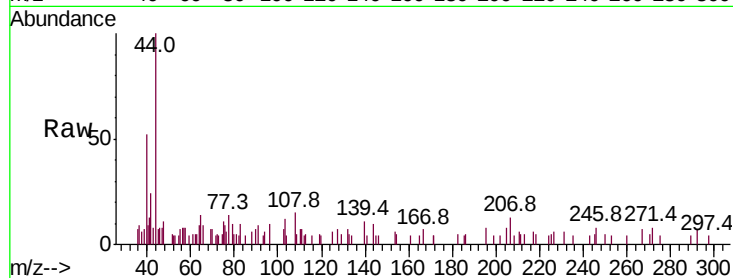




#29
Tetrahydrofuran
Concen: 15.606 ug/l
RT: 4.26 min Scan# 378
Delta R.T. -0.02 min
Lab File: VF062762.D
Acq: 28 May 2019 16:03

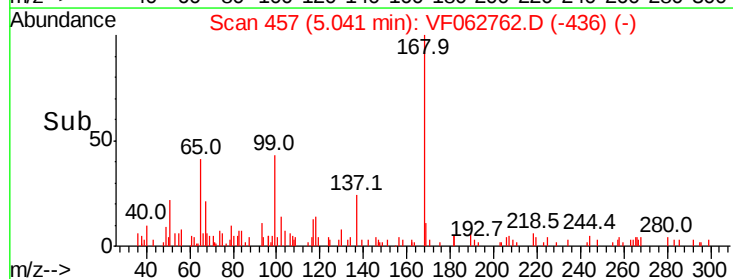
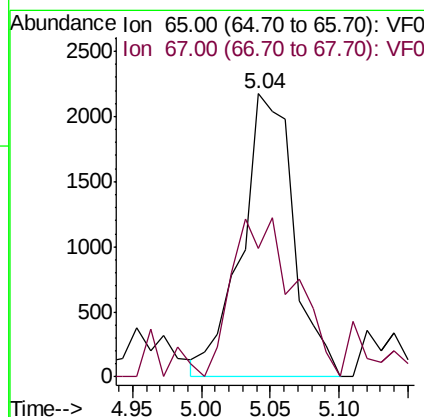
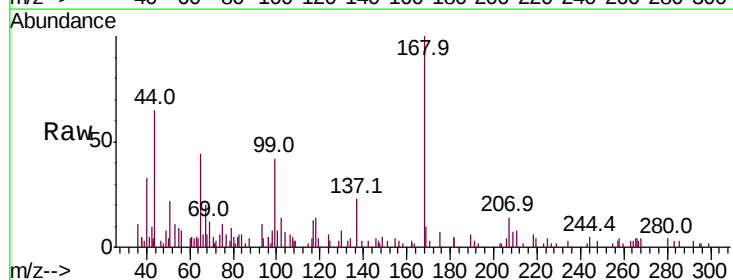
Instrument :
MSVOA_F
ClientSampleId :
CULVER-CBTC-WC1A-052419

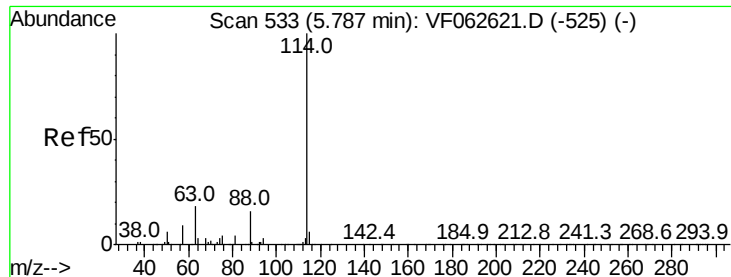
Tot Ion: 42 Resp: 1428
Ion Ratio Lower Upper
42 100
72 11.1 38.2 57.2#
71 29.6 35.8 53.6#



#33
1,2-Dichloroethane-d4
Concen: 14.063 ug/l
RT: 5.04 min Scan# 457
Delta R.T. 0.00 min
Lab File: VF062762.D
Acq: 28 May 2019 16:03

Tgt Ion: 65 Resp: 5737
Ion Ratio Lower Upper
65 100
67 45.5 0.0 117.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.79 min Scan# 533

Delta R.T. 0.00 min

Lab File: VF062762.D

Acq: 28 May 2019 16:03

Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1A-052419

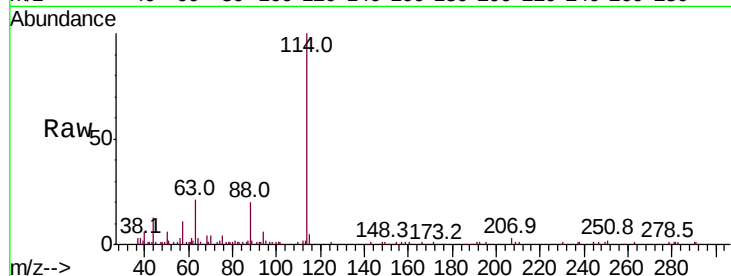
Tot Ion:114 Resp: 71942

Ion Ratio Lower Upper

114 100

63 20.9 0.0 35.4

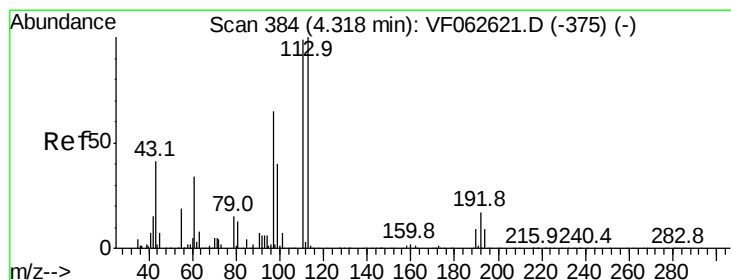
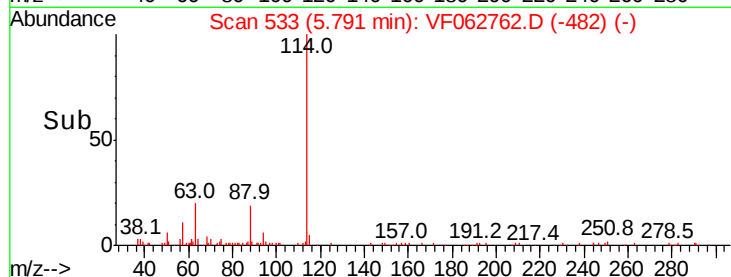
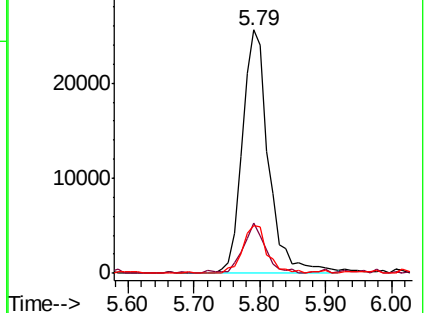
88 19.9 0.0 32.4



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: 30.183 ug/l

RT: 4.33 min Scan# 385

Delta R.T. 0.01 min

Lab File: VF062762.D

Acq: 28 May 2019 16:03

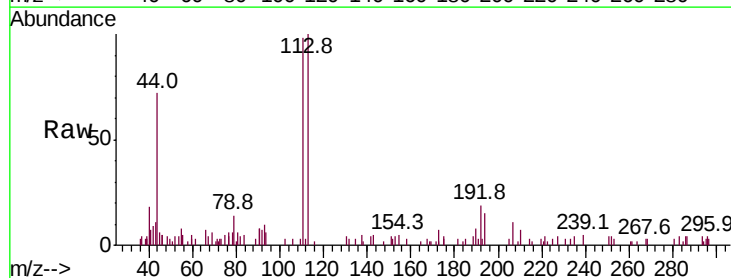
Tgt Ion:113 Resp: 16616

Ion Ratio Lower Upper

113 100

111 100.6 79.4 119.2

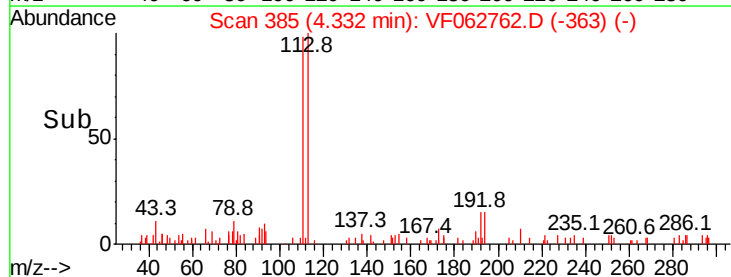
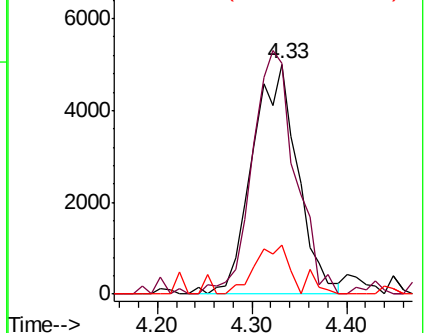
192 21.3 13.4 20.2#

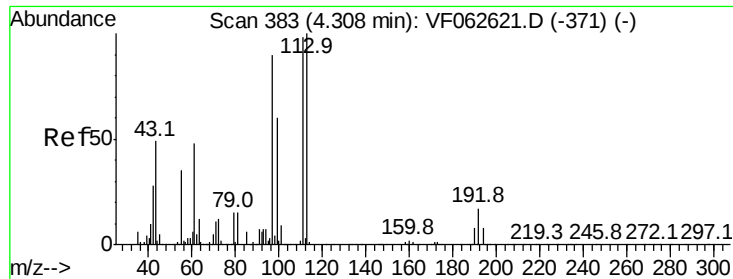


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#37

Ethyl Acetate

Concen: 7.196 ug/l

RT: 4.27 min Scan# 379

Delta R.T. -0.04 min

Lab File: VF062762.D

Acq: 28 May 2019 16:03

Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1A-052419

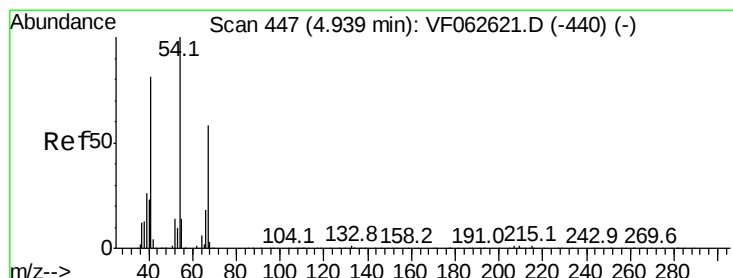
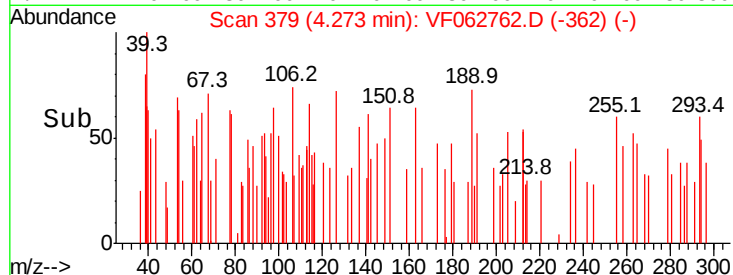
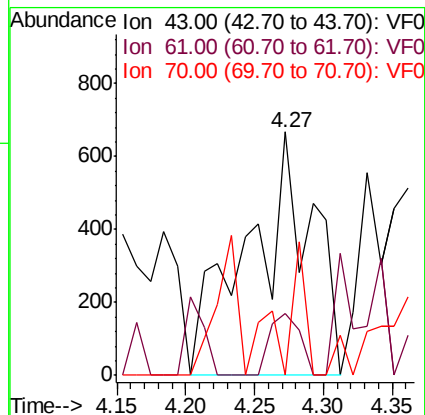
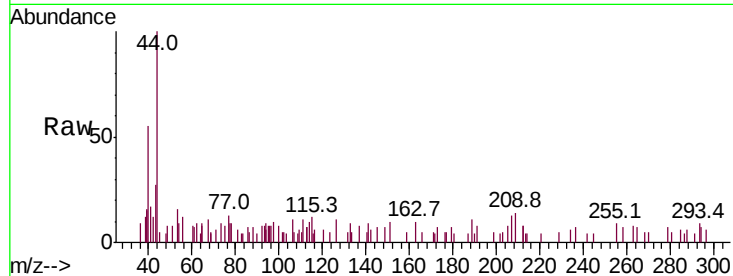
Tot Ion: 43 Resp: 2166

Ion Ratio Lower Upper

43 100

61 25.3 76.9 115.3#

70 0.0 8.8 13.2#



#41

Methacrylonitrile

Concen: 6.318 ug/l

RT: 4.93 min Scan# 446

Delta R.T. -0.01 min

Lab File: VF062762.D

Acq: 28 May 2019 16:03

Tgt Ion: 41 Resp: 997

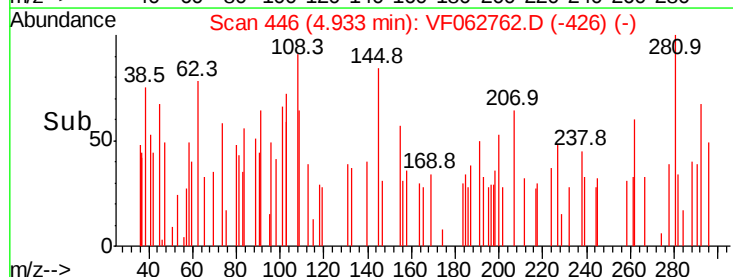
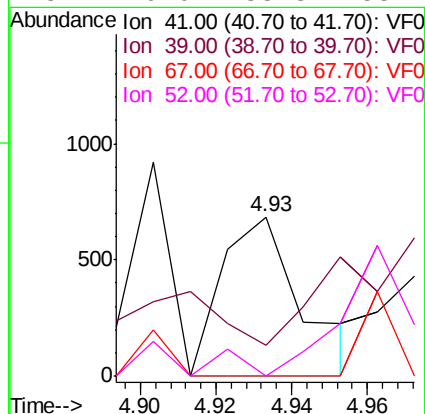
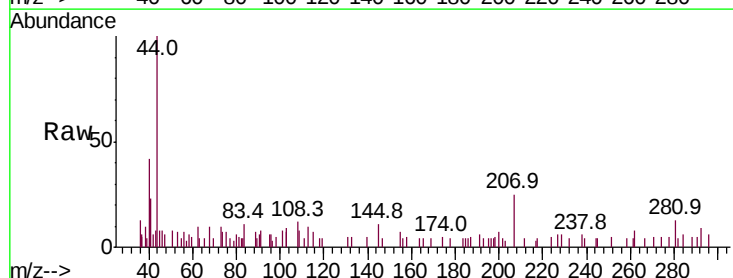
Ion Ratio Lower Upper

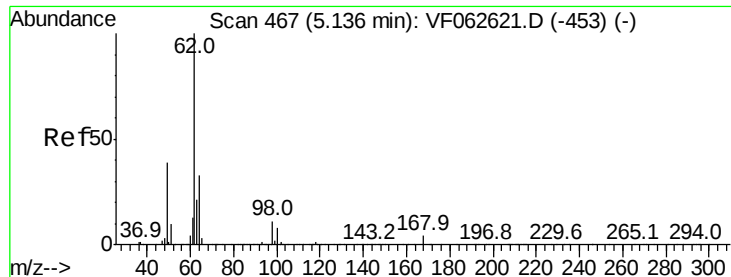
41 100

39 19.3 42.2 63.2#

67 0.0 56.4 84.6#

52 0.0 38.8 58.2#

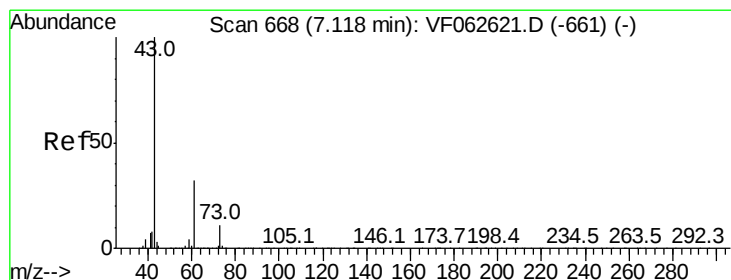
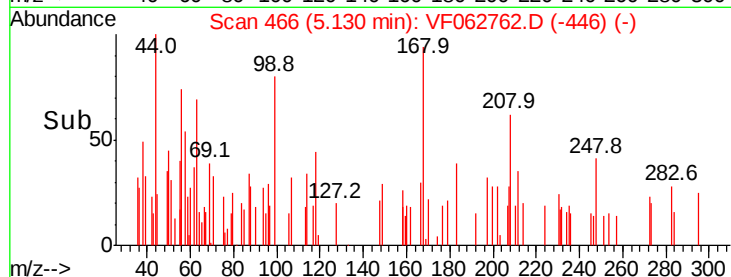
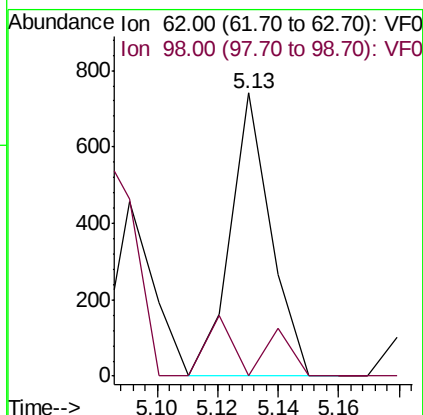
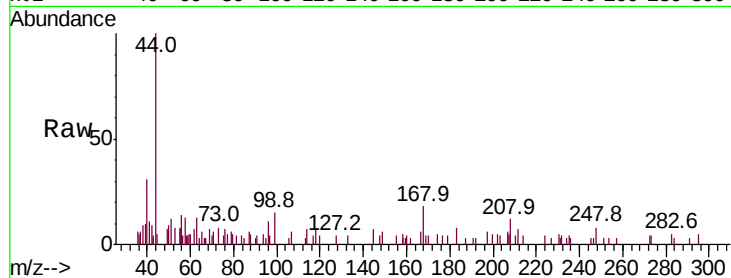




#42
1,2-Dichloroethane
Concen: 1.725 ug/l
RT: 5.13 min Scan# 466
Delta R.T. -0.01 min
Lab File: VF062762.D
Acq: 28 May 2019 16:03

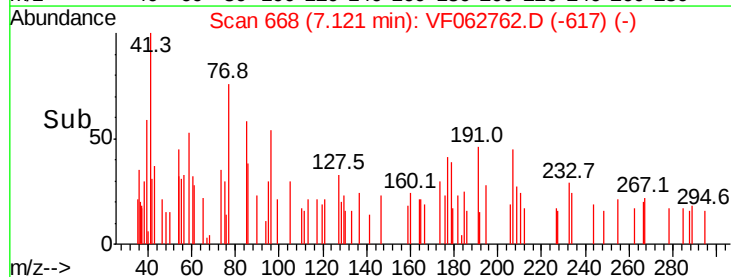
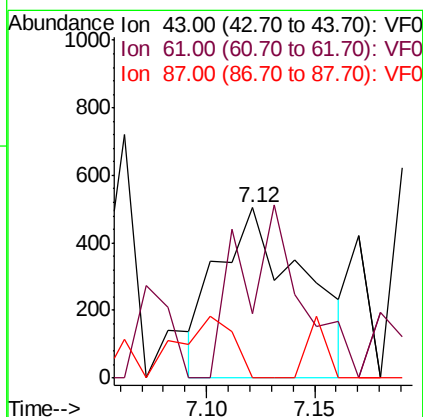
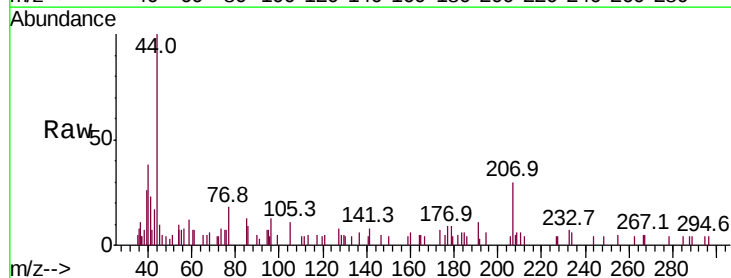
Instrument :
MSVOA_F
ClientSampleId :
CULVER-CBTC-WC1A-052419

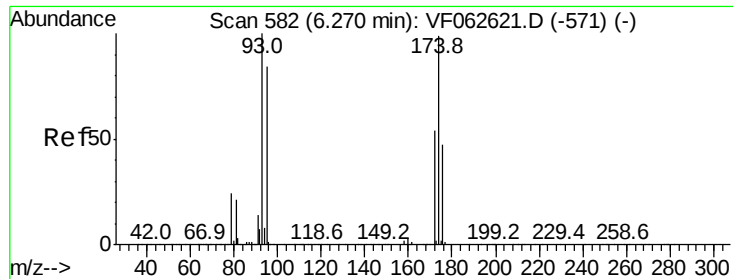
Tot Ion: 62 Resp: 691
Ion Ratio Lower Upper
62 100
98 0.0 0.0 21.6



#43
Isopropyl Acetate
Concen: 3.562 ug/l
RT: 7.12 min Scan# 668
Delta R.T. 0.00 min
Lab File: VF062762.D
Acq: 28 May 2019 16:03

Tgt Ion: 43 Resp: 1389
Ion Ratio Lower Upper
43 100
61 38.1 25.8 38.8
87 0.0 0.4 0.6#





#46

Dibromomethane

Concen: 1.608 ug/l

RT: 6.25 min Scan# 580

Delta R.T. -0.02 min

Lab File: VF062762.D

Acq: 28 May 2019 16:03

Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1A-052419

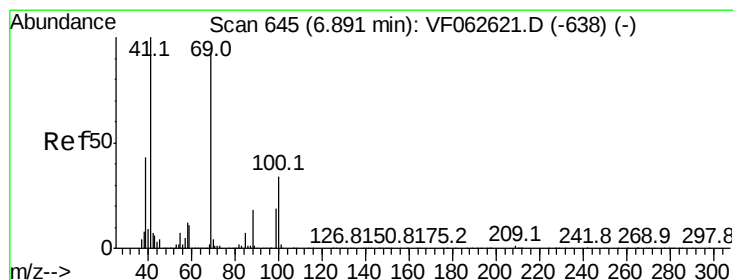
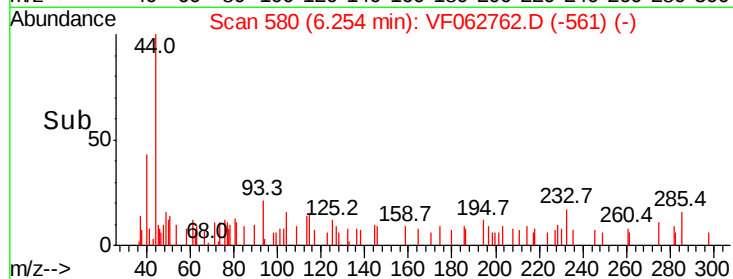
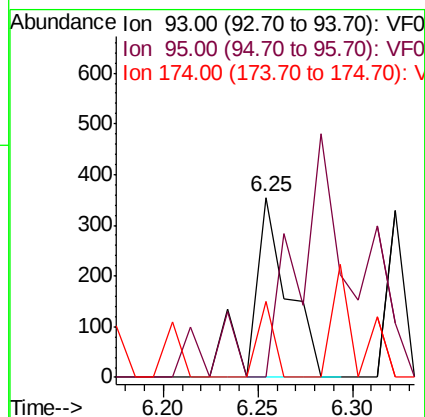
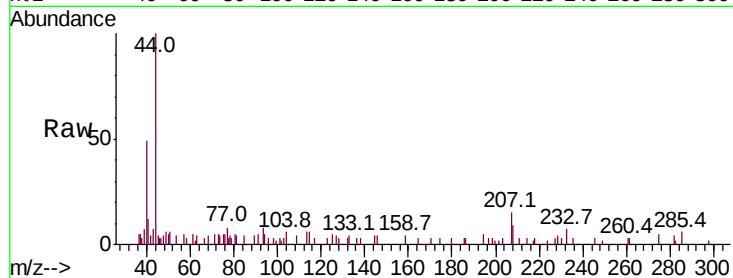
Tot Ion: 93 Resp: 471

Ion Ratio Lower Upper

93 100

95 0.0 67.4 101.2#

174 42.5 79.4 119.2#



#48

Methyl methacrylate

Concen: 4.254 ug/l

RT: 6.88 min Scan# 644

Delta R.T. -0.01 min

Lab File: VF062762.D

Acq: 28 May 2019 16:03

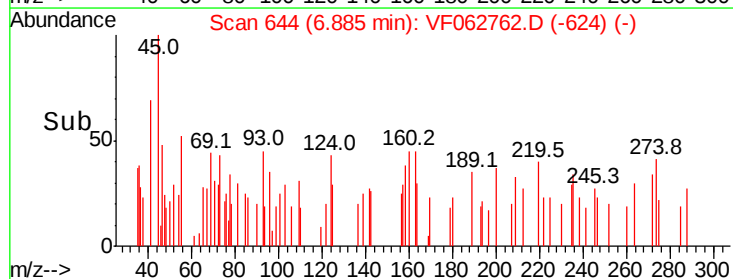
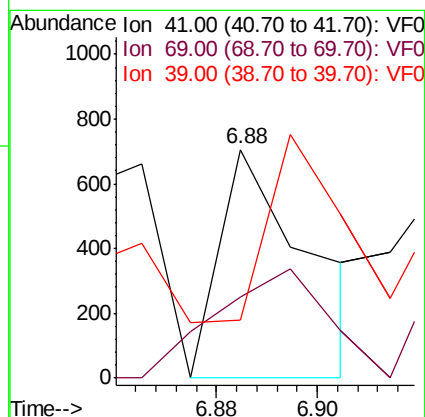
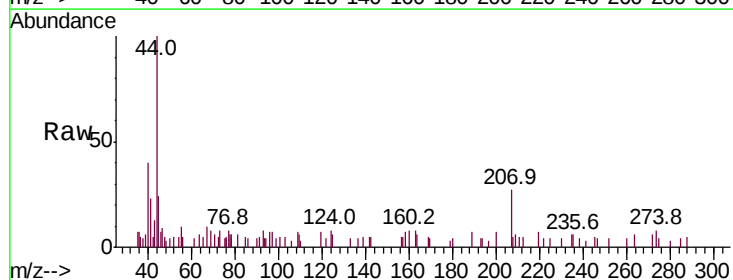
Tgt Ion: 41 Resp: 867

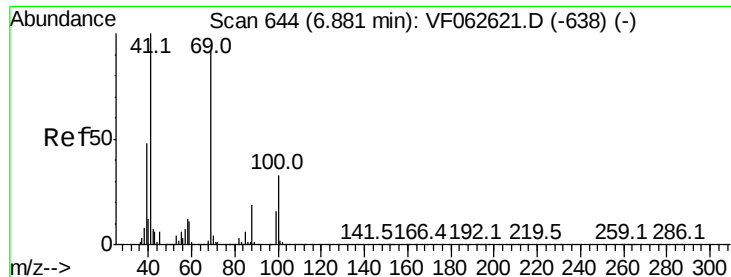
Ion Ratio Lower Upper

41 100

69 35.7 74.2 111.2#

39 25.5 34.2 51.4#

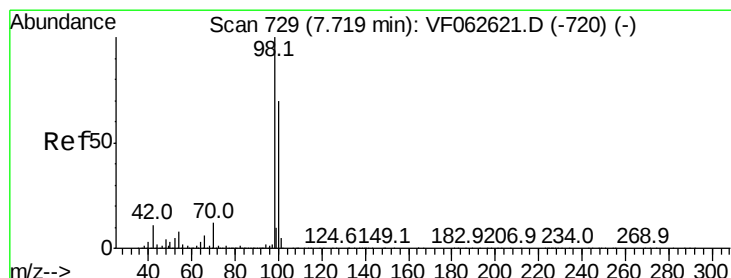
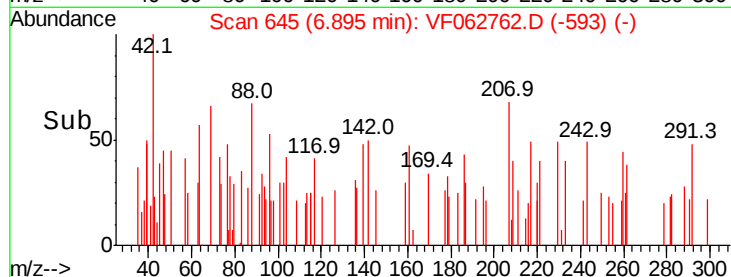
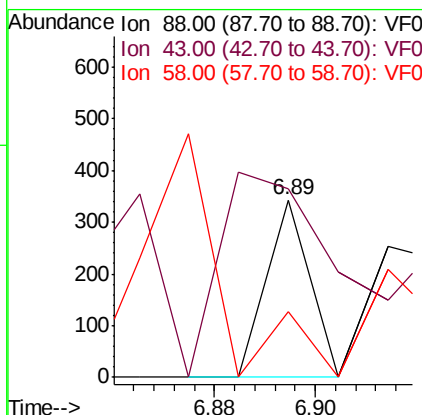
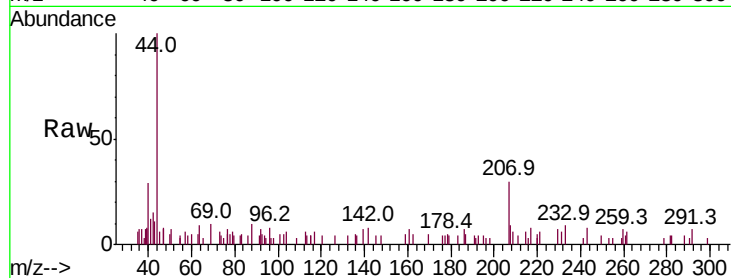




#49
1,4-Dioxane
Concen: 77.763 ug/l
RT: 6.89 min Scan# 645
Delta R.T. 0.01 min
Lab File: VF062762.D
Acq: 28 May 2019 16:03

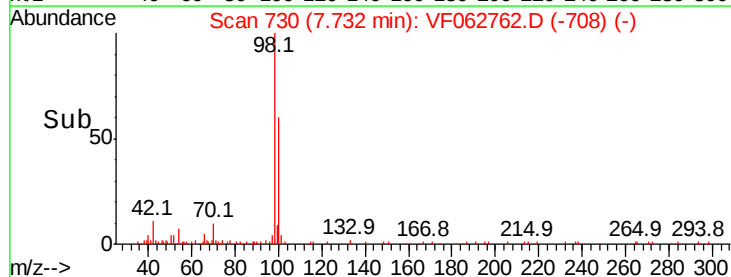
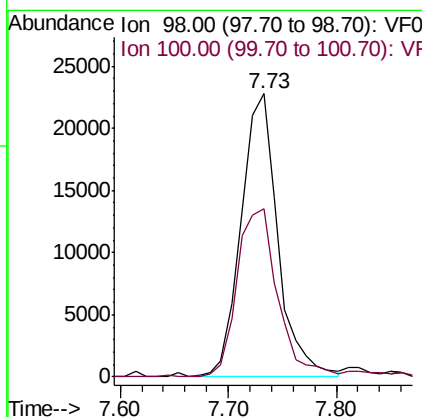
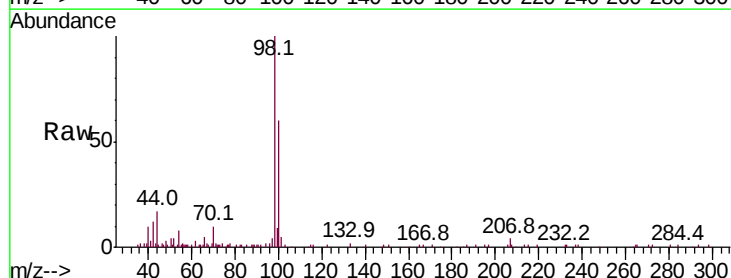
Instrument :
MSVOA_F
ClientSampleId :
CULVER-CBTC-WC1A-052419

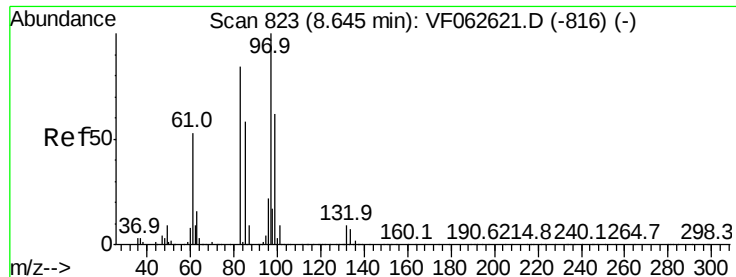
Tot Ion: 88 Resp: 203
Ion Ratio Lower Upper
88 100
43 106.4 30.0 45.0#
58 37.0 51.1 76.7#



#50
Toluene-d8
Concen: 41.058 ug/l
RT: 7.73 min Scan# 730
Delta R.T. 0.01 min
Lab File: VF062762.D
Acq: 28 May 2019 16:03

Tgt Ion: 98 Resp: 53966
Ion Ratio Lower Upper
98 100
100 59.6 56.2 84.2





#55

1,1,2-Trichloroethane

Concen: 1.206 ug/l

RT: 8.63 min Scan# 821

Delta R.T. -0.02 min

Lab File: VF062762.D

Acq: 28 May 2019 16:03

Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1A-052419

Tot Ion: 97 Resp: 376

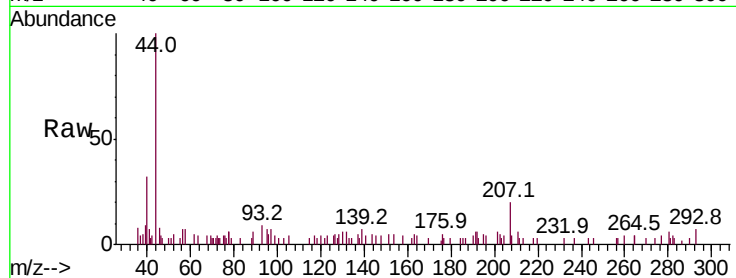
Ion Ratio Lower Upper

97 100

83 39.9 67.3 100.9#

85 0.0 46.6 69.8#

99 64.8 49.7 74.5

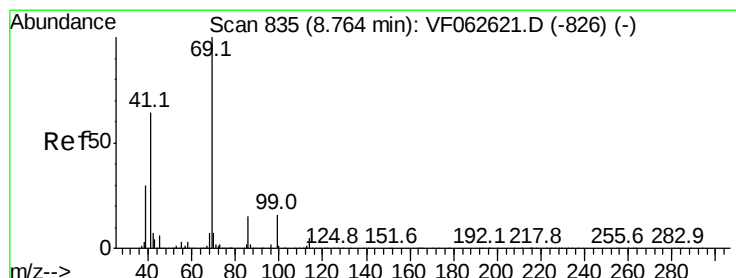
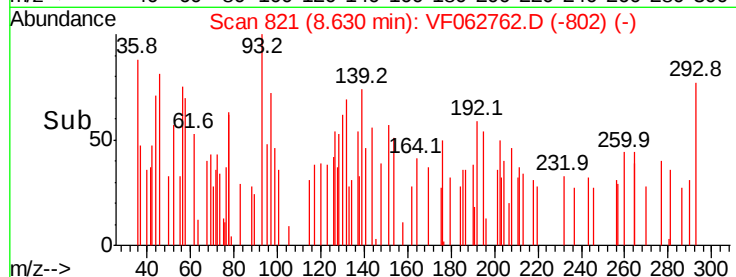
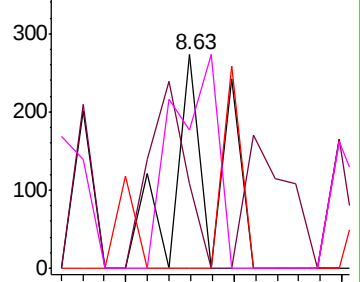


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 2.484 ug/l

RT: 8.77 min Scan# 835

Delta R.T. 0.00 min

Lab File: VF062762.D

Acq: 28 May 2019 16:03

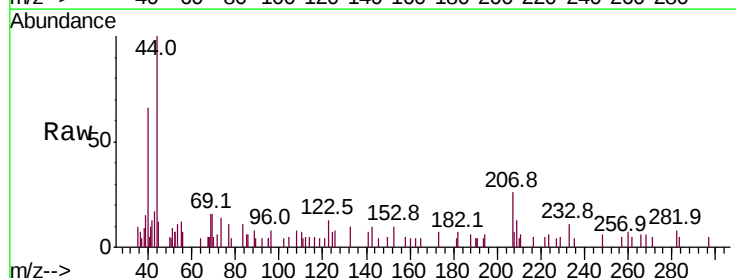
Tgt Ion: 69 Resp: 923

Ion Ratio Lower Upper

69 100

41 45.7 51.4 77.2#

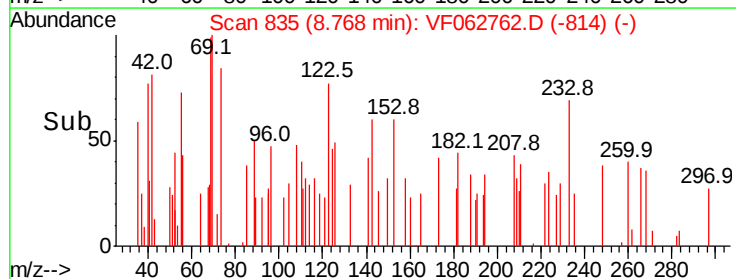
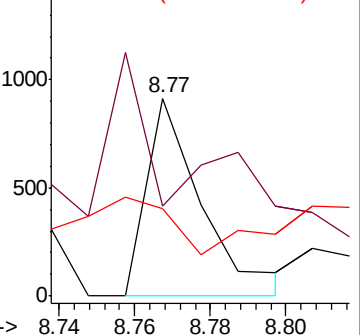
39 44.5 23.6 35.4#

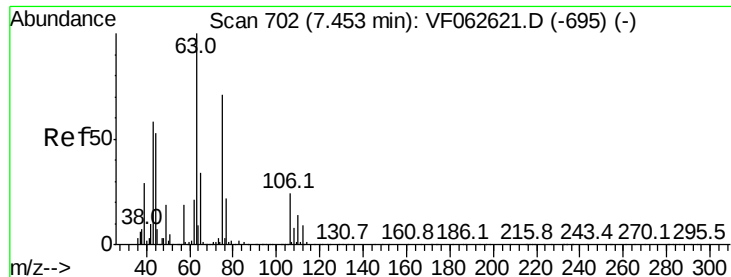


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

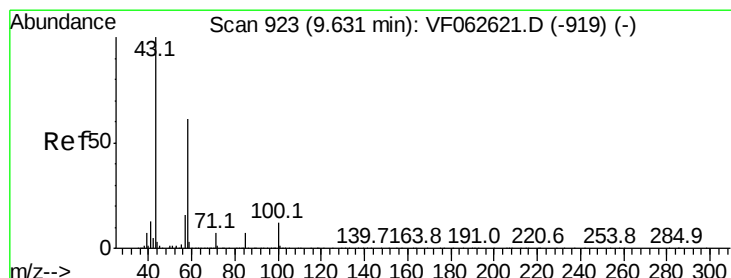
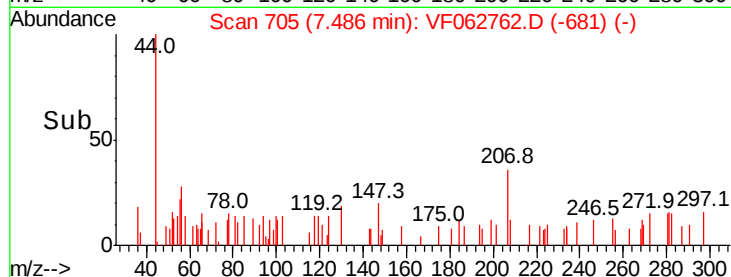
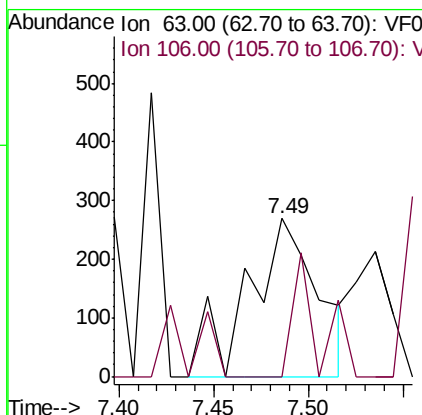
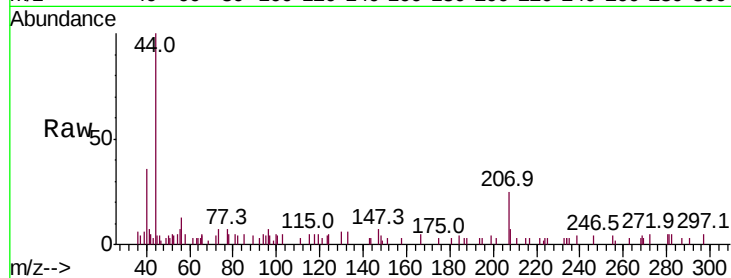




#58
 2-Chloroethyl Vinyl ether
 Concen: 5.747 ug/l
 RT: 7.49 min Scan# 705
 Delta R.T. 0.03 min
 Lab File: VF062762.D
 Acq: 28 May 2019 16:03

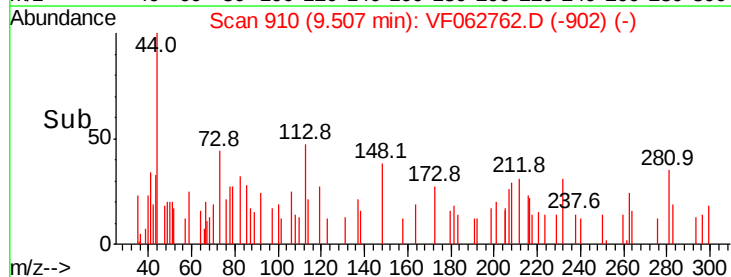
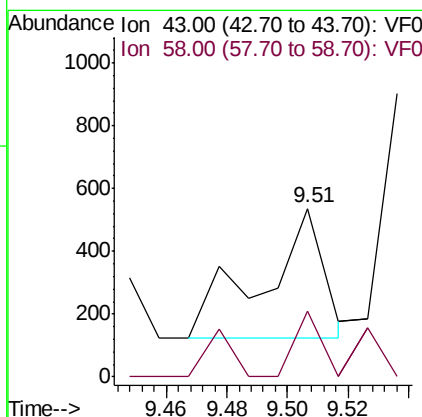
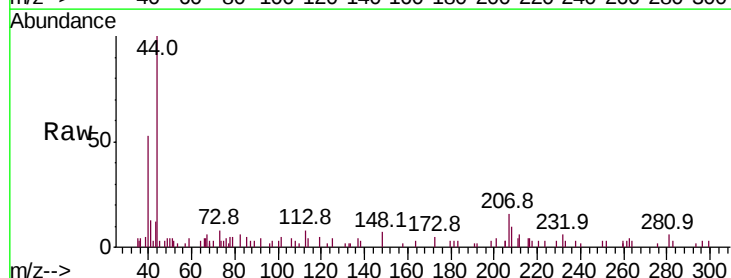
Instrument :
 MSVOA_F
 ClientSampleId :
 CULVER-CBTC-WC1A-052419

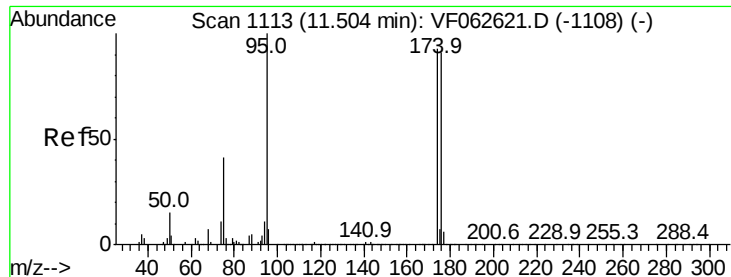
Tot Ion: 63 Resp: 695
 Ion Ratio Lower Upper
 63 100
 106 0.0 19.1 28.7#



#59
 2-Hexanone
 Concen: Below Cal
 RT: 9.51 min Scan# 910
 Delta R.T. -0.12 min
 Lab File: VF062762.D
 Acq: 28 May 2019 16:03

Tgt Ion: 43 Resp: 584
 Ion Ratio Lower Upper
 43 100
 58 38.9 28.1 84.4

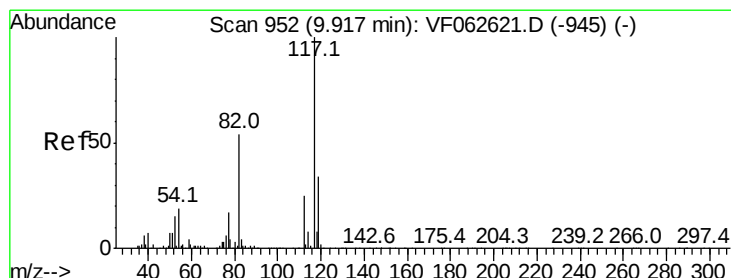
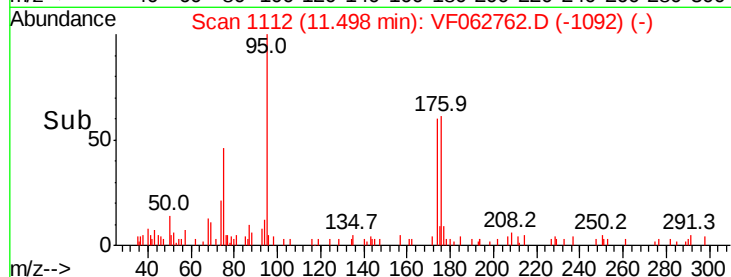
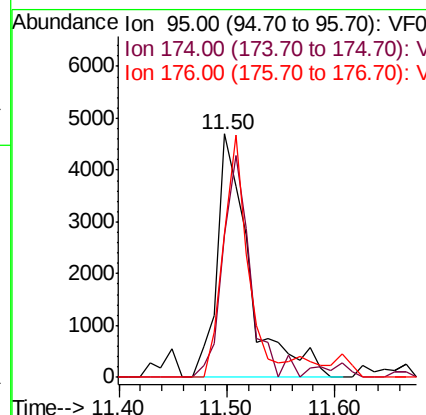
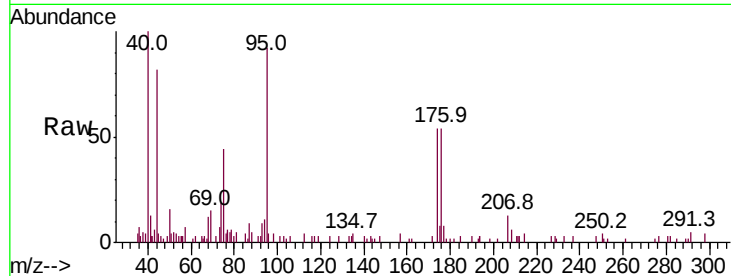




#62
4-Bromofluorobenzene
Concen: 19.693 ug/l
RT: 11.50 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VF062762.D
Acq: 28 May 2019 16:03

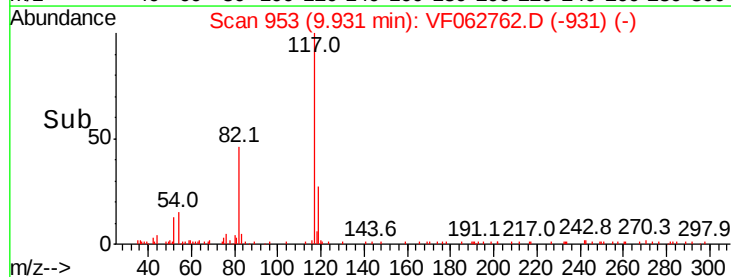
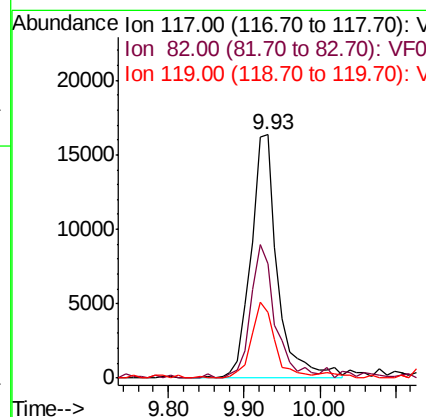
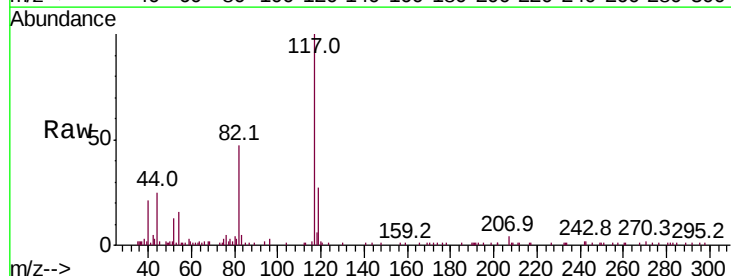
Instrument :
MSVOA_F
ClientSampleId :
CULVER-CBTC-WC1A-052419

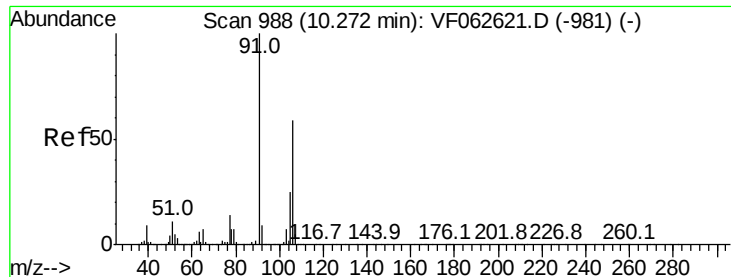
Tot Ion: 95 Resp: 9817
Ion Ratio Lower Upper
95 100
174 58.7 0.0 185.6
176 58.9 0.0 182.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.93 min Scan# 953
Delta R.T. 0.01 min
Lab File: VF062762.D
Acq: 28 May 2019 16:03

Tgt Ion: 117 Resp: 40193
Ion Ratio Lower Upper
117 100
82 46.9 43.3 64.9
119 26.9 27.4 41.0#

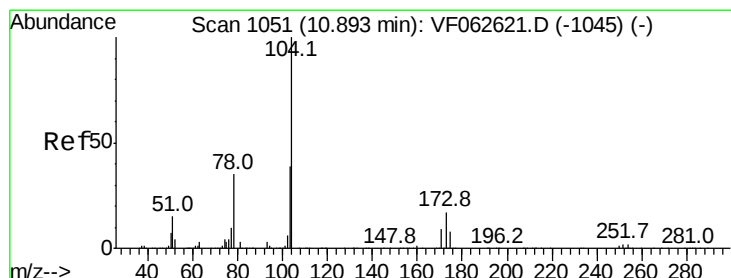
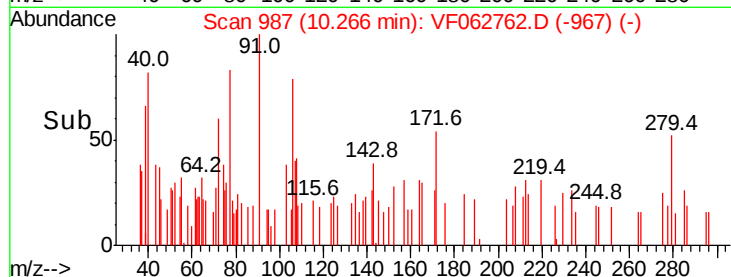
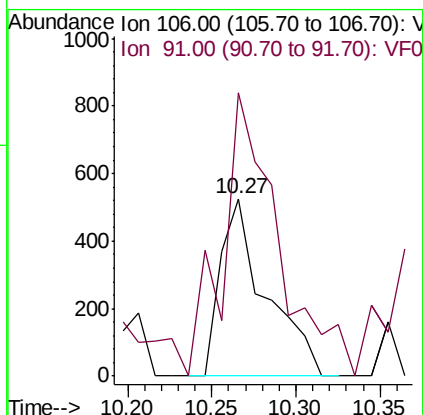
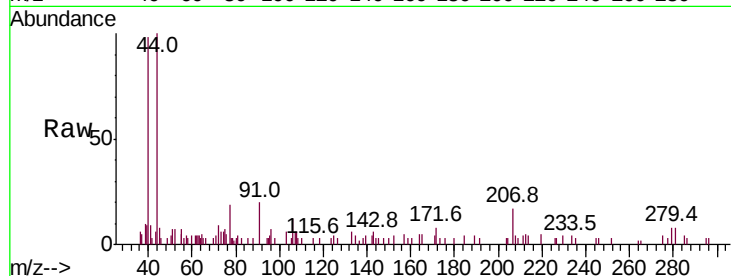




#68
m/p-Xvlenes
Concen: 1.899 ug/l
RT: 10.27 min Scan# 987
Delta R.T. -0.01 min
Lab File: VF062762.D
Acq: 28 May 2019 16:03

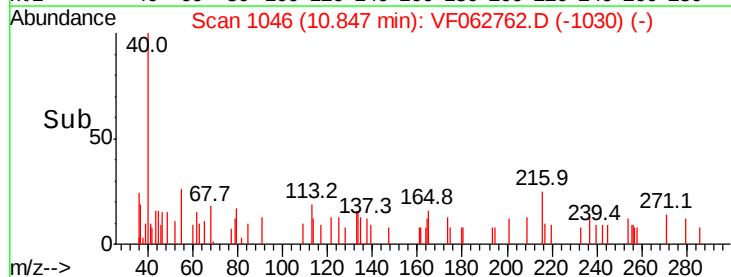
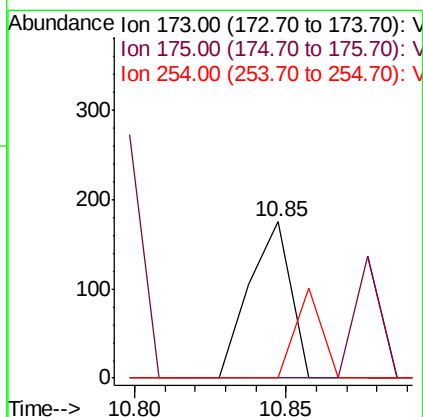
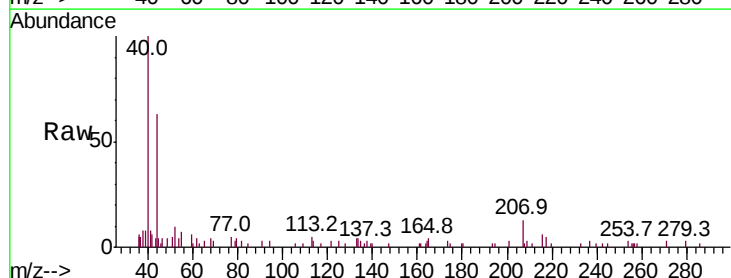
Instrument :
MSVOA_F
ClientSampleId :
CULVER-CBTC-WC1A-052419

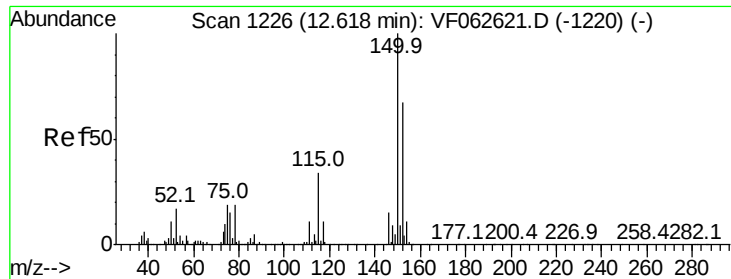
Tot Ion:106 Resp: 979
Ion Ratio Lower Upper
106 100
91 159.6 136.9 205.3



#71
Bromoform
Concen: 1.046 ug/l
RT: 10.85 min Scan# 1046
Delta R.T. -0.05 min
Lab File: VF062762.D
Acq: 28 May 2019 16:03

Tgt Ion:173 Resp: 166
Ion Ratio Lower Upper
173 100
175 0.0 25.3 75.9#
254 0.0 0.2 0.2#



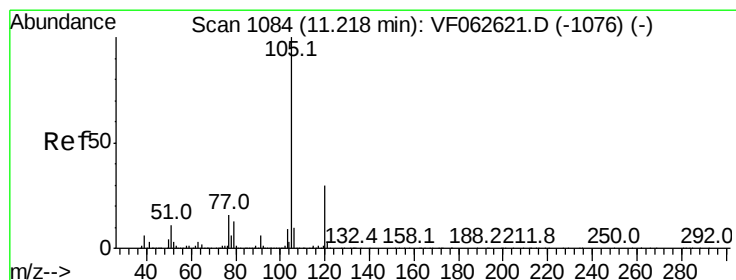
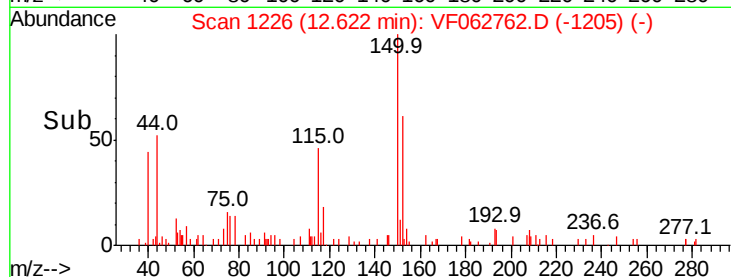
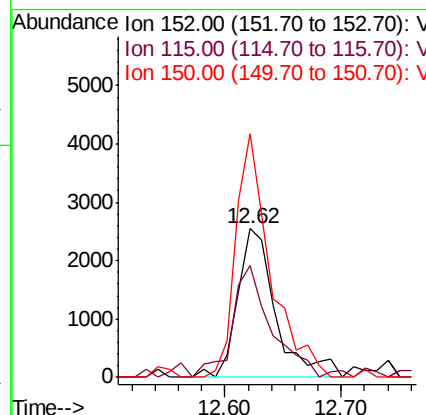
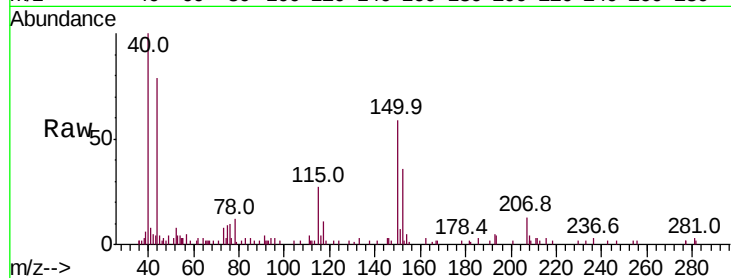


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. 0.00 min
Lab File: VF062762.D
Acq: 28 May 2019 16:03

Instrument :
MSVOA_F
ClientSampleId :
CULVER-CBTC-WC1A-052419

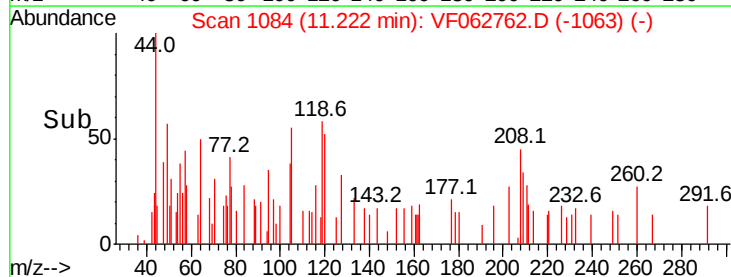
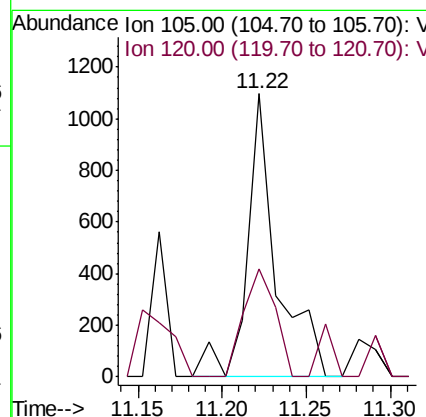
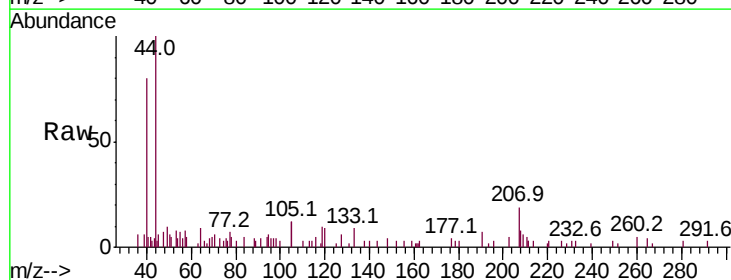
Tot Ion:152 Resp: 5773
Ion Ratio Lower Upper
152 100
115 75.5 25.2 75.6
150 164.0 0.0 306.2

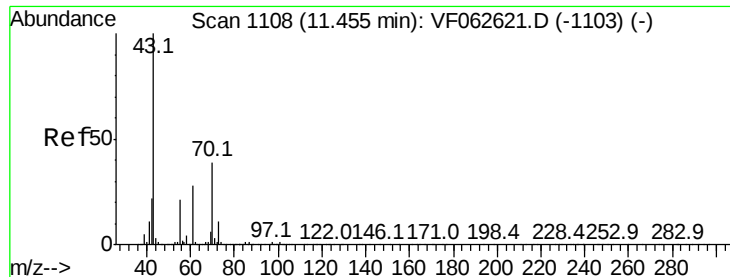


#73

Isopropylbenzene
Concen: 3.227 ug/l
RT: 11.22 min Scan# 1084
Delta R.T. 0.00 min
Lab File: VF062762.D
Acq: 28 May 2019 16:03

Tgt Ion:105 Resp: 1335
Ion Ratio Lower Upper
105 100
120 38.1 14.8 44.4





#74

N-amvl acetate

Concen: 2.810 ug/l

RT: 11.43 min Scan# 1105

Delta R.T. -0.03 min

Lab File: VF062762.D

Acq: 28 May 2019 16:03

Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1A-052419

Tot Ion: 43 Resp: 832

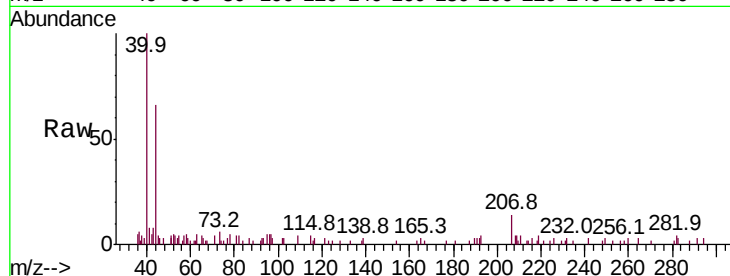
Ion Ratio Lower Upper

43 100

70 0.0 30.9 46.3#

55 45.8 17.0 25.4#

61 22.5 22.6 34.0#



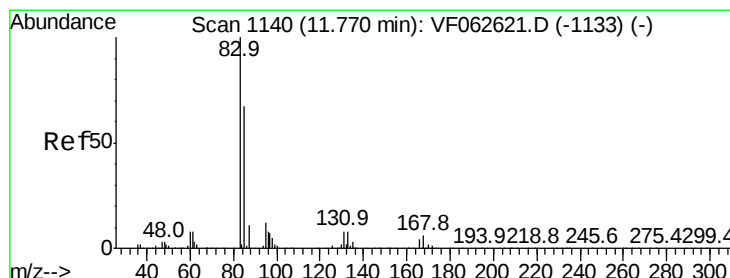
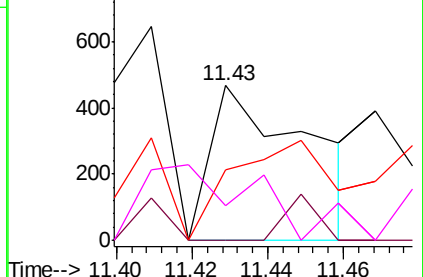
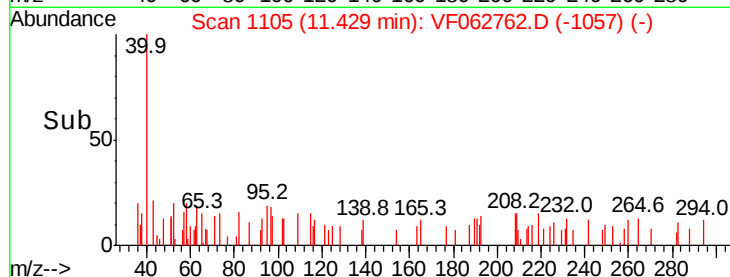
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Time--> 11.40 11.42 11.44 11.46



#75

1,1,2,2-Tetrachloroethane

Concen: 1.845 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. 0.00 min

Lab File: VF062762.D

Acq: 28 May 2019 16:03

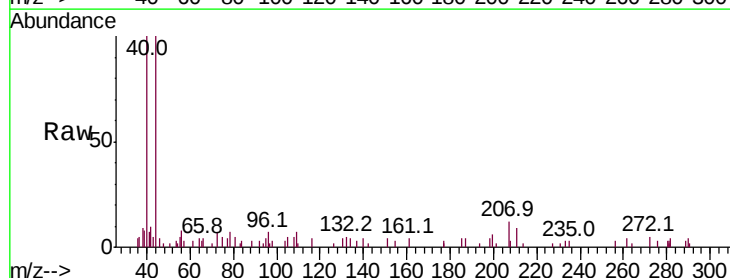
Tgt Ion: 83 Resp: 156

Ion Ratio Lower Upper

83 100

131 0.0 4.0 12.0#

85 0.0 33.5 100.5#

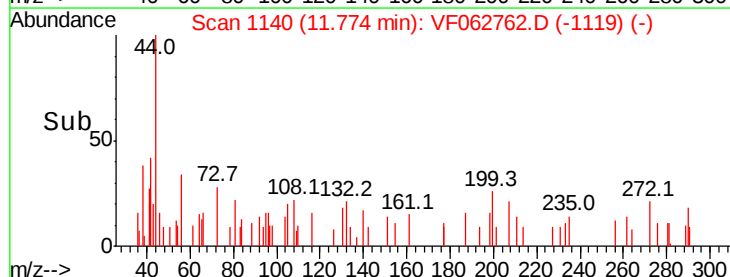


Abundance Ion 83.00 (82.70 to 83.70): VF0

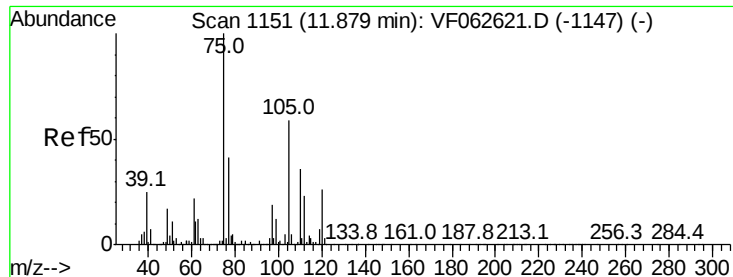
Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0

Time--> 11.74 11.76 11.78



Time--> 11.74 11.76 11.78



#76

1,2,3-Trichloropropane

Concen: 13.193 ug/l

RT: 11.86 min Scan# 1149

Delta R.T. -0.02 min

Lab File: VF062762.D

Acq: 28 May 2019 16:03

Instrument :

MSVOA_F

ClientSampleId :

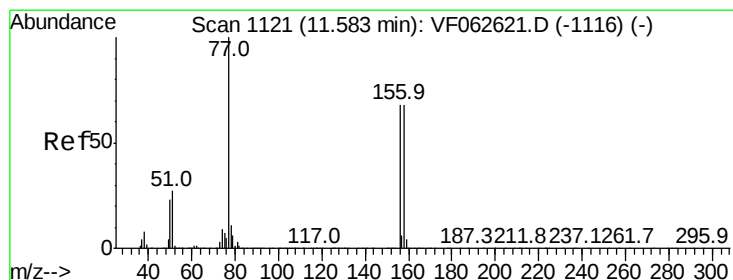
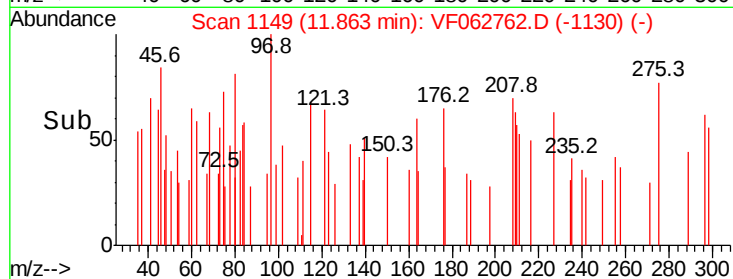
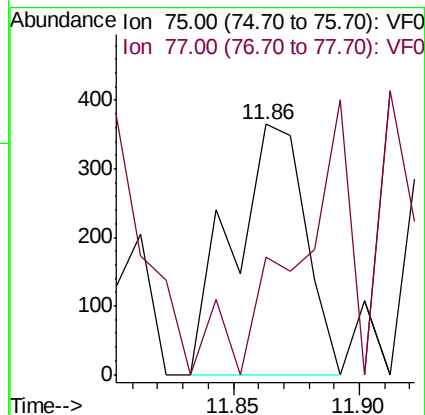
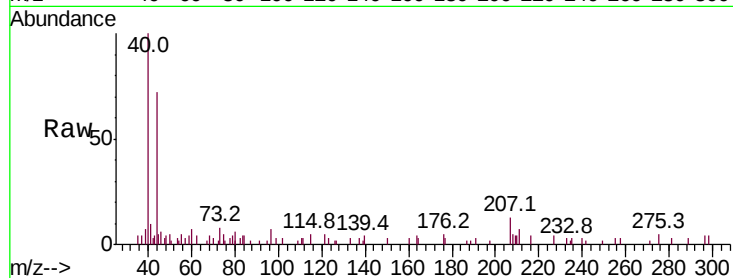
CULVER-CBTC-WC1A-052419

Tot Ion: 75 Resp: 733

Ion Ratio Lower Upper

75 100

77 46.8 20.6 61.8



#77

Bromobenzene

Concen: 4.580 ug/l

RT: 11.58 min Scan# 1120

Delta R.T. -0.01 min

Lab File: VF062762.D

Acq: 28 May 2019 16:03

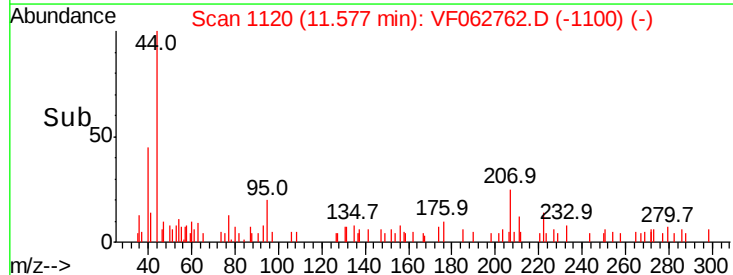
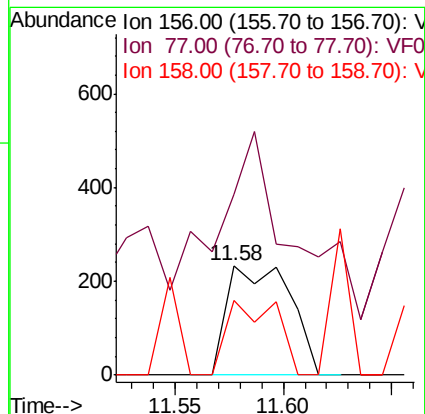
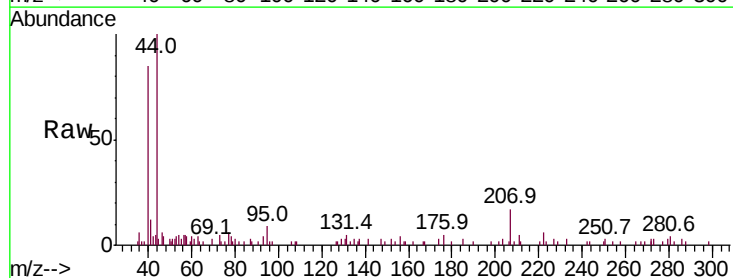
Tgt Ion: 156 Resp: 471

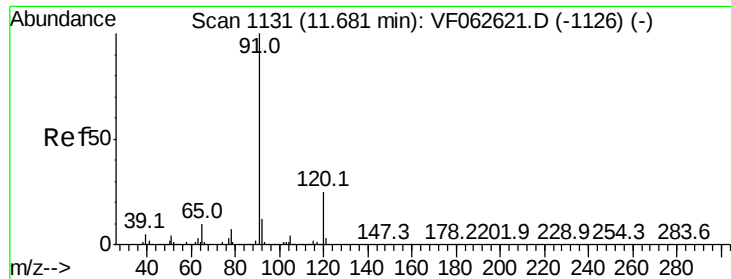
Ion Ratio Lower Upper

156 100

77 165.7 73.6 220.8

158 115.5 49.6 148.8





#78

n-propylbenzene

Concen: 1.256 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. 0.12 min

Lab File: VF062762.D

Acq: 28 May 2019 16:03

Instrument :

MSVOA_F

ClientSampleId :

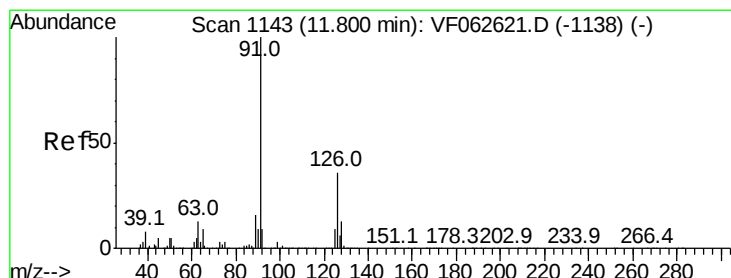
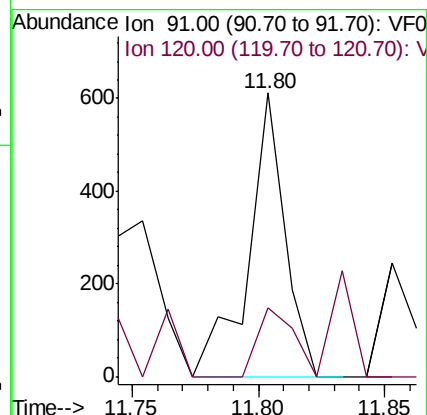
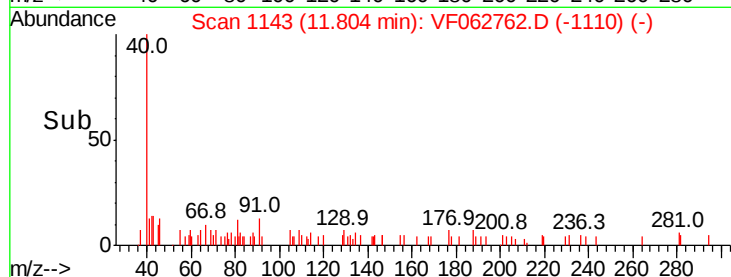
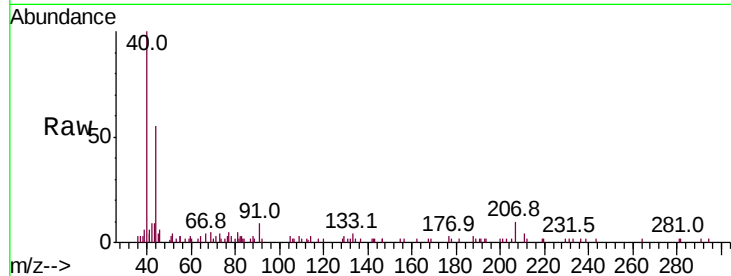
CULVER-CBTC-WC1A-052419

Tot Ion: 91 Resp: 615

Ion Ratio Lower Upper

91 100

120 24.0 12.7 38.1



#79

2-Chlorotoluene

Concen: 2.928 ug/l

RT: 11.68 min Scan# 1130

Delta R.T. -0.12 min

Lab File: VF062762.D

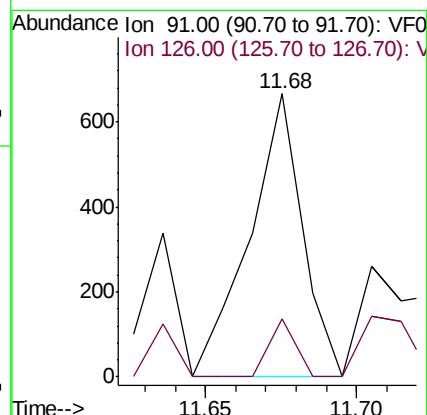
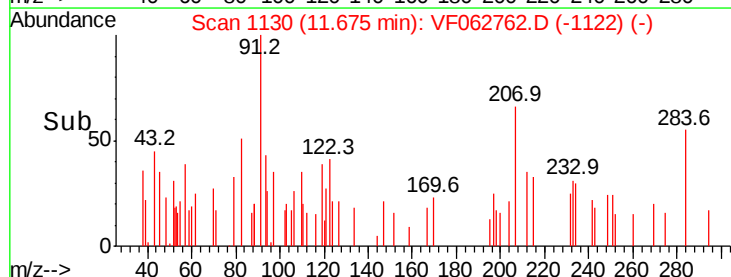
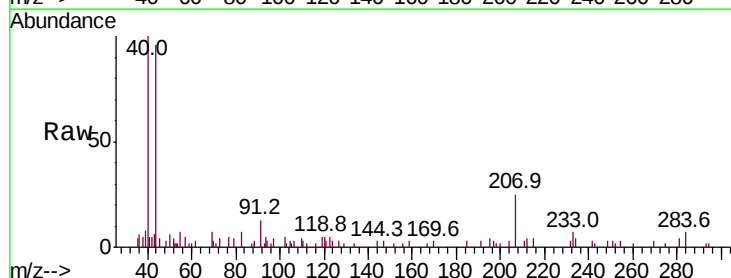
Acq: 28 May 2019 16:03

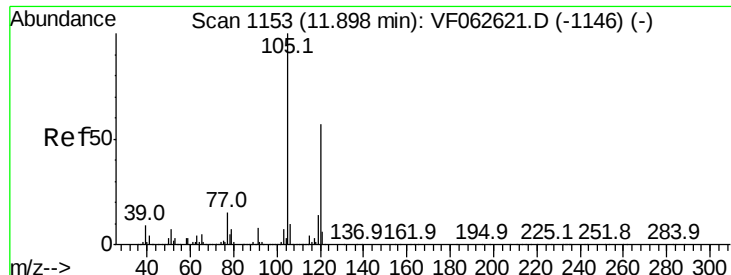
Tgt Ion: 91 Resp: 808

Ion Ratio Lower Upper

91 100

126 20.6 18.1 54.4





#80

1,3,5-Trimethylbenzene

Concen: 1.136 ug/l

RT: 11.91 min Scan# 1154

Delta R.T. 0.01 min

Lab File: VF062762.D

Acq: 28 May 2019 16:03

Instrument :

MSVOA_F

ClientSampleId :

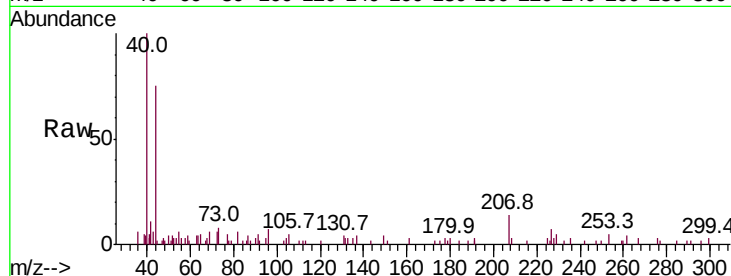
CULVER-CBTC-WC1A-052419

Tot Ion:105 Resp: 377

Ion Ratio Lower Upper

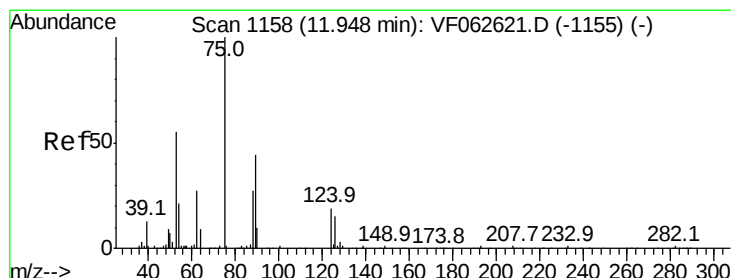
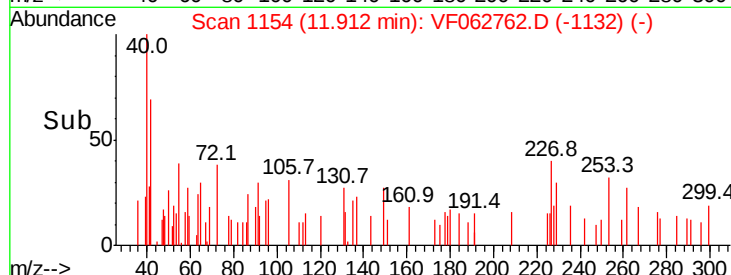
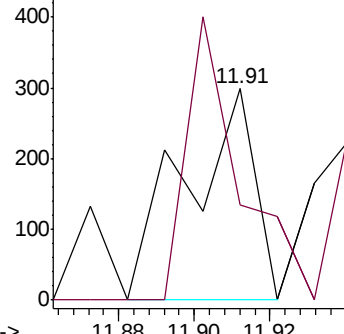
105 100

120 44.8 28.7 86.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 11.500 ug/l

RT: 11.97 min Scan# 1160

Delta R.T. 0.02 min

Lab File: VF062762.D

Acq: 28 May 2019 16:03

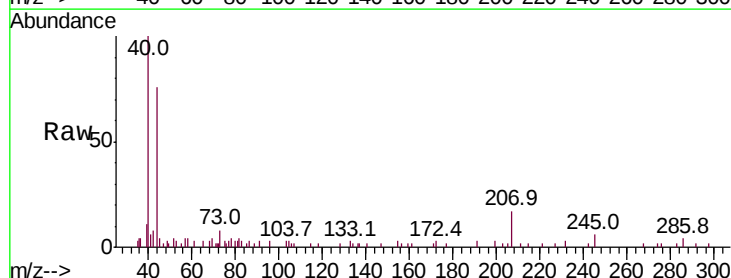
Tgt Ion: 75 Resp: 284

Ion Ratio Lower Upper

75 100

53 58.9 46.9 70.3

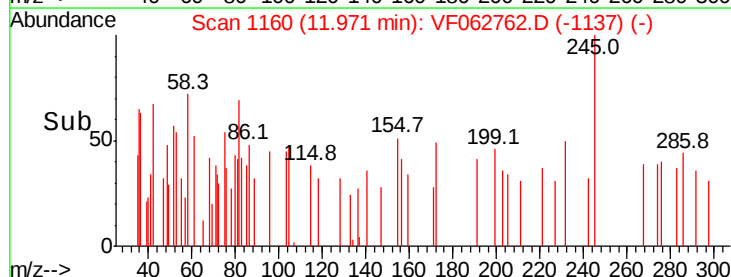
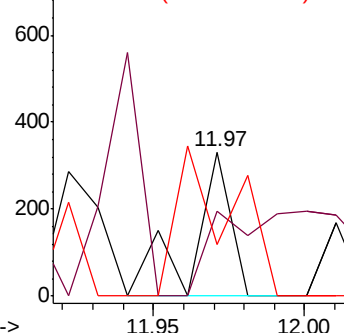
89 35.6 36.4 54.6#

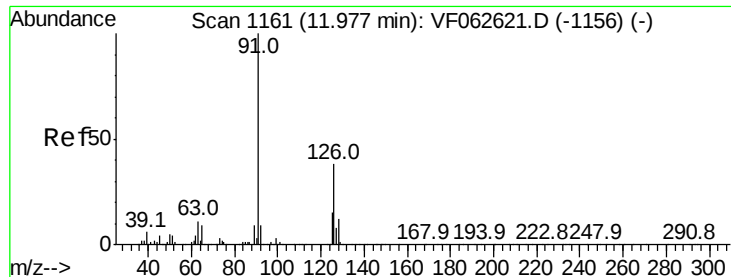


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0

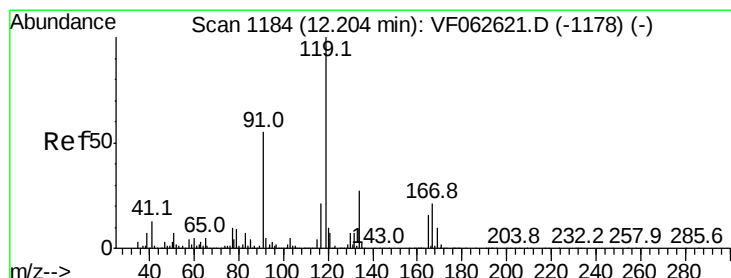
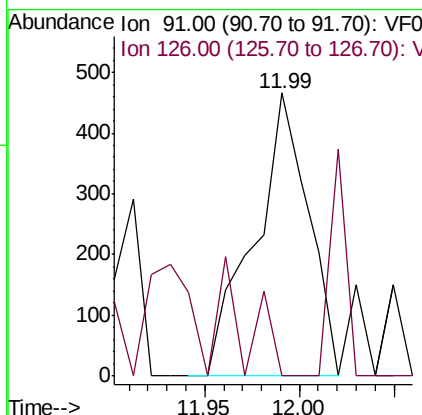
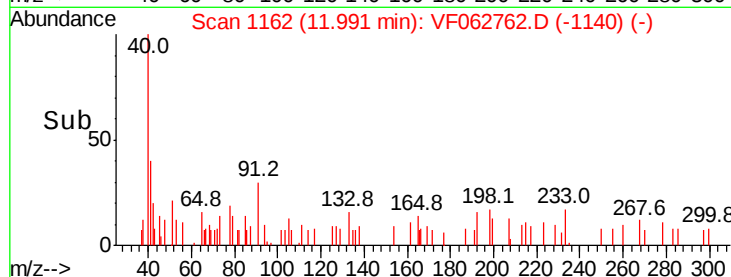
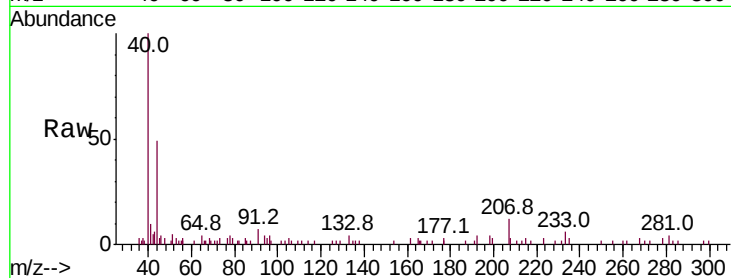




#82
4-Chlorotoluene
Concen: 3.392 ug/l
RT: 11.99 min Scan# 1162
Delta R.T. 0.01 min
Lab File: VF062762.D
Acq: 28 May 2019 16:03

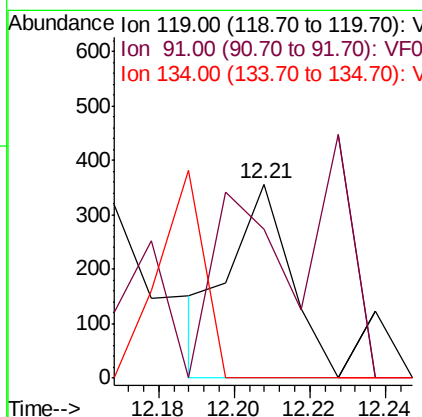
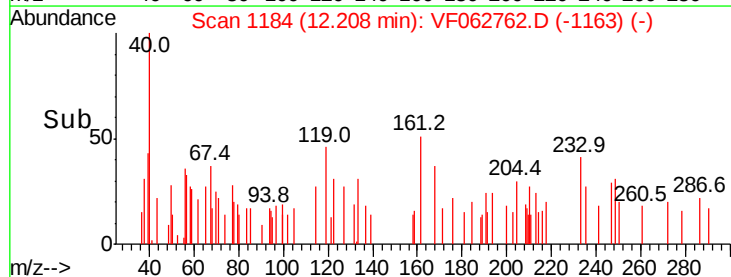
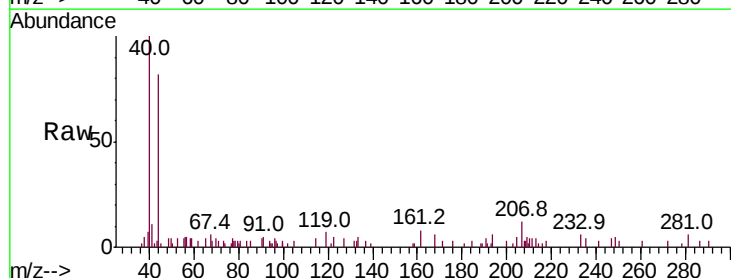
Instrument :
MSVOA_F
ClientSampleId :
CULVER-CBTC-WC1A-052419

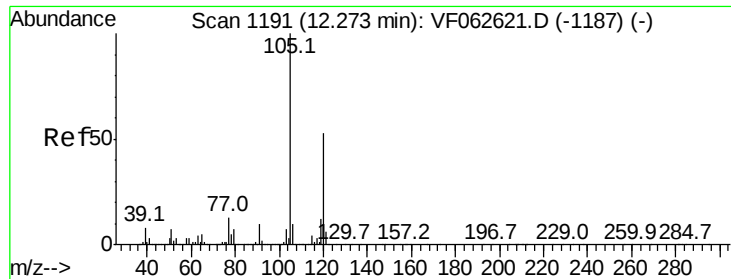
Tot Ion: 91 Resp: 923
Ion Ratio Lower Upper
91 100
126 0.0 19.1 57.1#



#83
tert-Butylbenzene
Concen: 1.159 ug/l
RT: 12.21 min Scan# 1184
Delta R.T. 0.00 min
Lab File: VF062762.D
Acq: 28 May 2019 16:03

Tgt Ion: 119 Resp: 390
Ion Ratio Lower Upper
119 100
91 77.0 27.3 81.9
134 0.0 13.6 40.7#

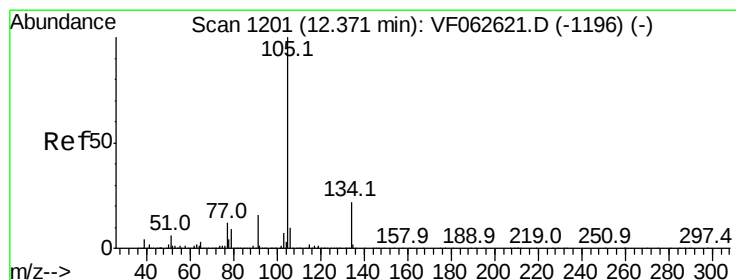
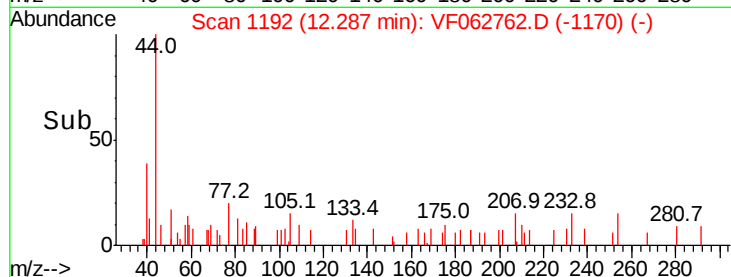
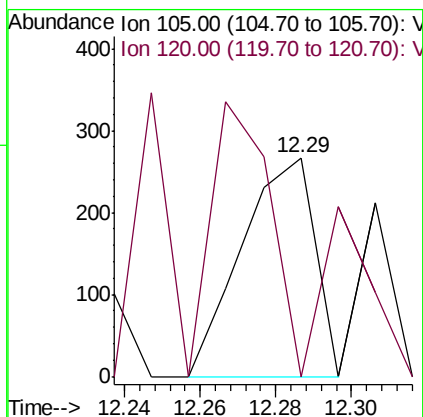
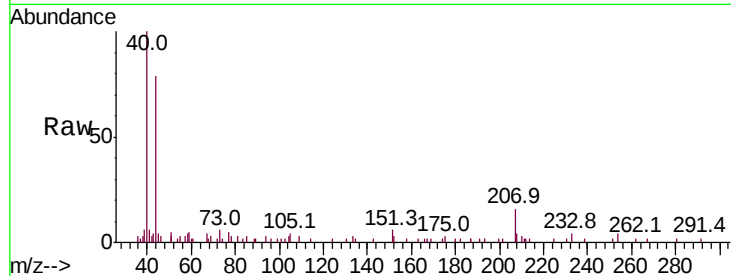




#84
 1,2,4-Trimethylbenzene
 Concen: 1.115 ug/l
 RT: 12.29 min Scan# 1192
 Delta R.T. 0.01 min
 Lab File: VF062762.D
 Acq: 28 May 2019 16:03

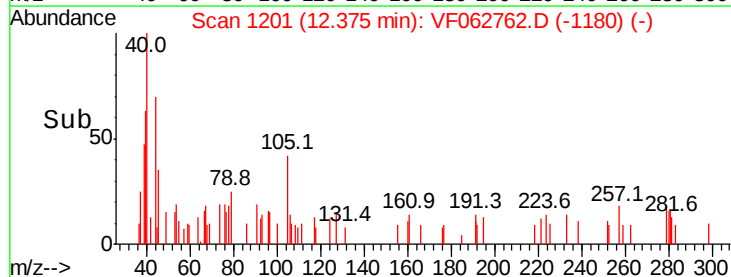
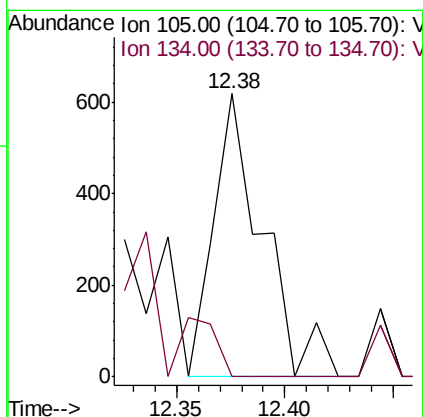
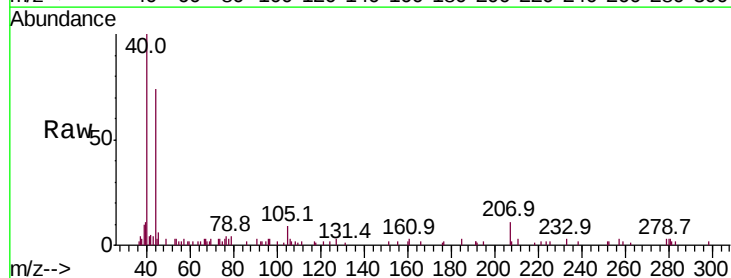
Instrument :
 MSVOA_F
 ClientSampleId :
 CULVER-CBTC-WC1A-052419

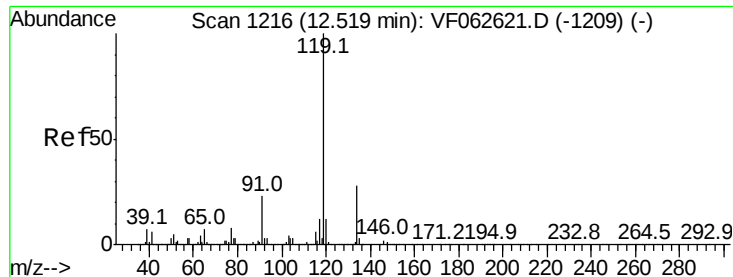
Tot Ion:105 Resp: 358
 Ion Ratio Lower Upper
 105 100
 120 0.0 26.7 80.1#



#85
 sec-Butylbenzene
 Concen: 2.161 ug/l
 RT: 12.38 min Scan# 1201
 Delta R.T. 0.00 min
 Lab File: VF062762.D
 Acq: 28 May 2019 16:03

Tgt Ion:105 Resp: 976
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.8 32.4#





#86

p-Isopropyltoluene

Concen: 2.025 ug/l

RT: 12.54 min Scan# 1218

Delta R.T. 0.02 min

Lab File: VF062762.D

Acq: 28 May 2019 16:03

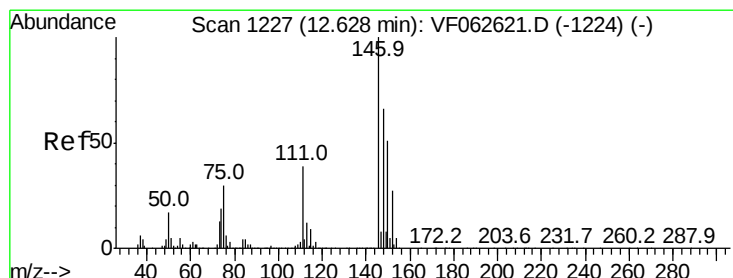
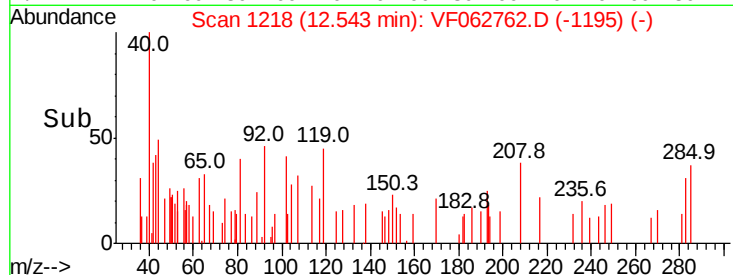
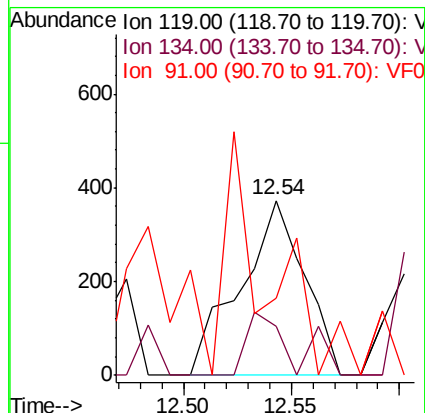
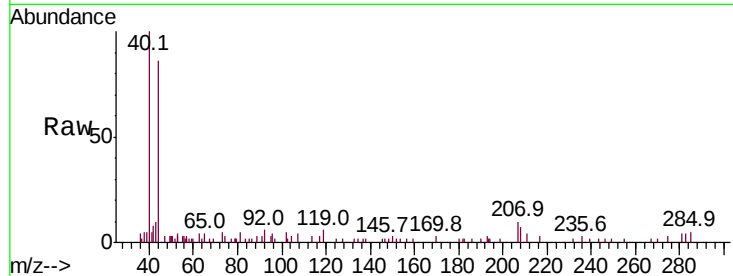
Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1A-052419

Tot Ion:	119	Resp:	771
Ion	Ratio	Lower	Upper
119	100		
134	27.7	14.1	42.3
91	44.4	11.4	34.2#



#88

1,4-Dichlorobenzene

Concen: 2.428 ug/l

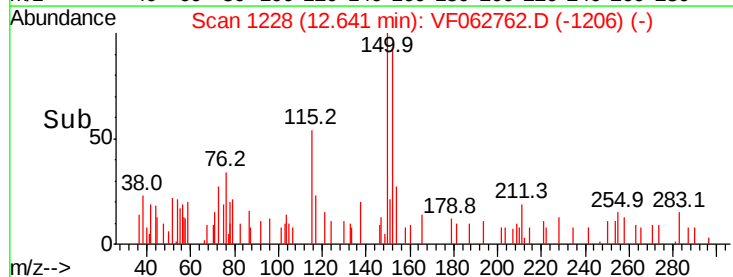
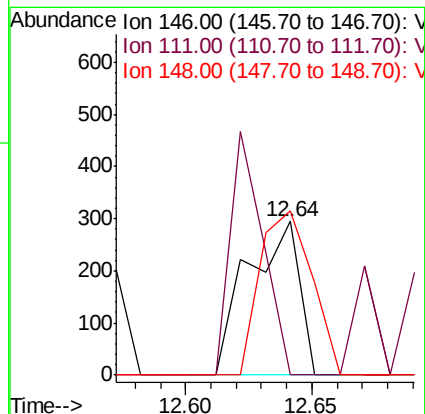
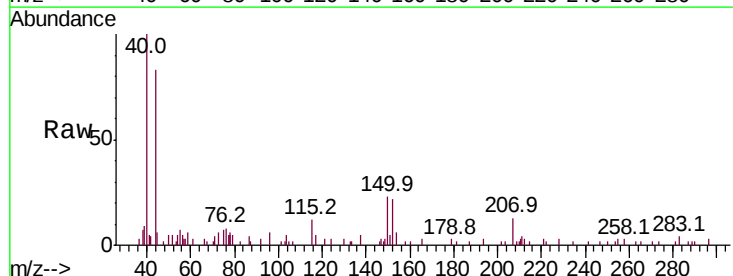
RT: 12.64 min Scan# 1228

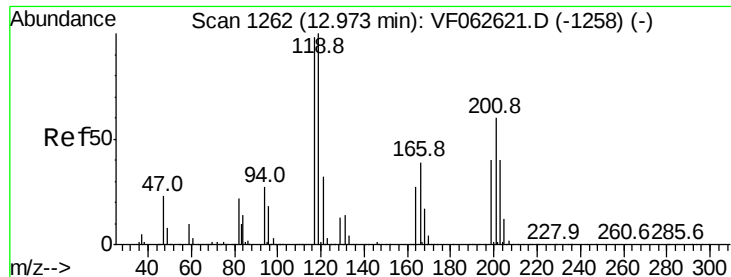
Delta R.T. 0.01 min

Lab File: VF062762.D

Acq: 28 May 2019 16:03

Tgt Ion:	146	Resp:	424
Ion	Ratio	Lower	Upper
146	100		
111	0.0	19.4	58.2#
148	106.8	33.2	99.6#





#90

Hexachloroethane

Concen: 1.708 ug/l

RT: 12.98 min Scan# 1262

Delta R.T. 0.00 min

Lab File: VF062762.D

Acq: 28 May 2019 16:03

Instrument :

MSVOA_F

ClientSampleId :

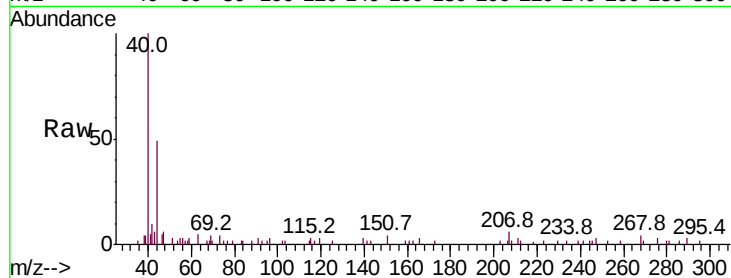
CULVER-CBTC-WC1A-052419

Tot Ion:117 Resp: 156

Ion Ratio Lower Upper

117 100

201 0.0 30.7 92.1#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

12.98

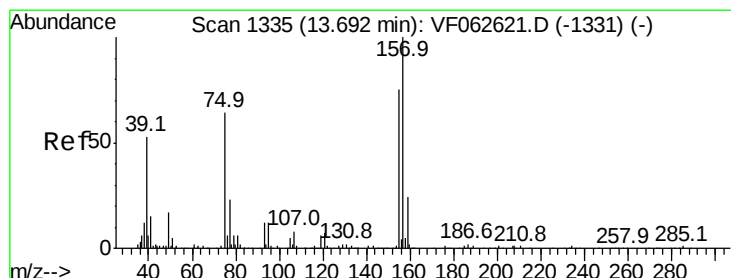
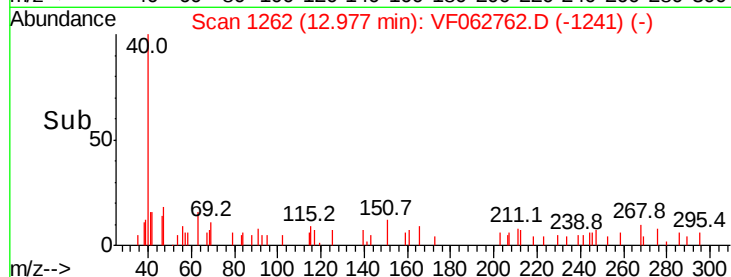
150

100

50

0

Time--> 12.95 13.00



#92

1,2-Dibromo-3-Chloropropane

Concen: 35.589 ug/l

RT: 13.72 min Scan# 1337

Delta R.T. 0.02 min

Lab File: VF062762.D

Acq: 28 May 2019 16:03

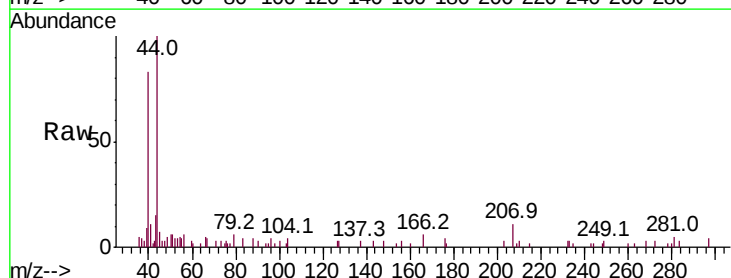
Tgt Ion: 75 Resp: 359

Ion Ratio Lower Upper

75 100

155 0.0 58.1 174.3#

157 0.0 77.8 233.4#



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

13.72

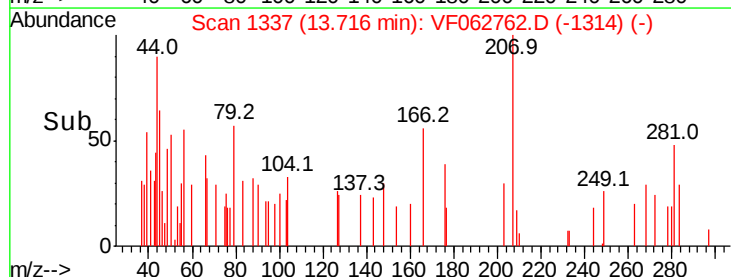
300

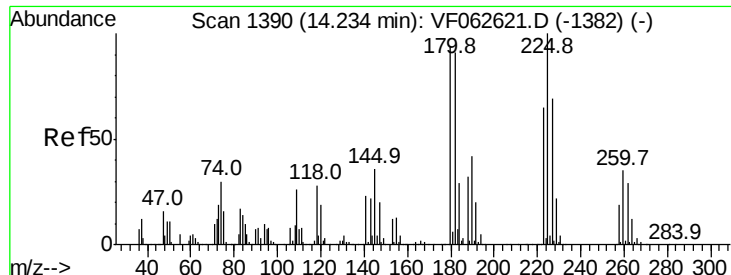
200

100

0

Time--> 13.70 13.72 13.74





#94

Hexachlorobutadiene

Concen: 1.955 ug/l

RT: 14.21 min Scan# 1387

Delta R.T. -0.03 min

Lab File: VF062762.D

Acq: 28 May 2019 16:03

Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1A-052419

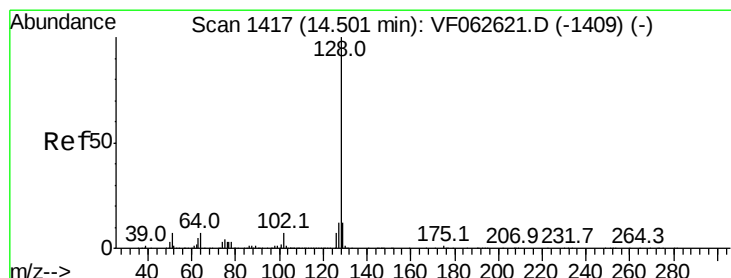
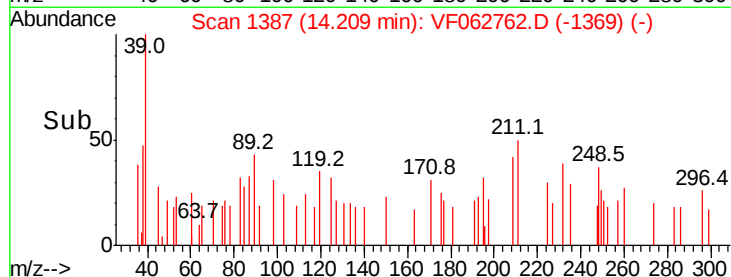
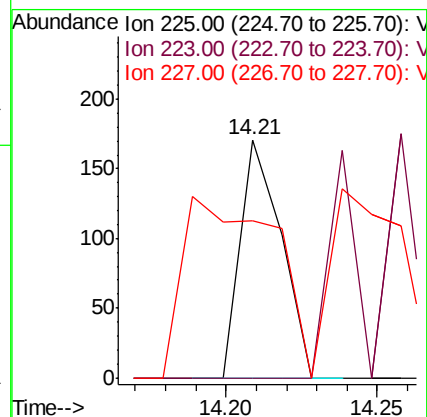
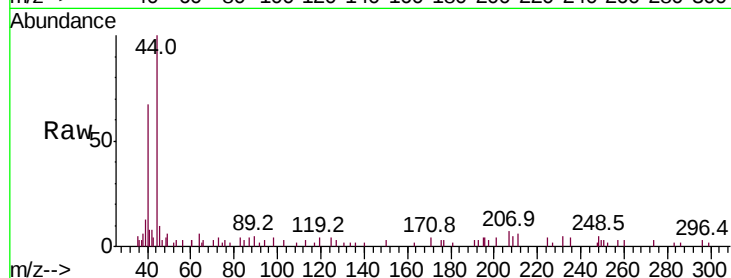
Tot Ion:225 Resp: 162

Ion Ratio Lower Upper

225 100

223 0.0 32.5 97.4#

227 66.1 34.5 103.5



#95

Naphthalene

Concen: 1.433 ug/l

RT: 14.51 min Scan# 1418

Delta R.T. 0.01 min

Lab File: VF062762.D

Acq: 28 May 2019 16:03

Tgt Ion:128 Resp: 309

Ion Ratio Lower Upper

128 100

127 0.0 9.7 14.5#

129 66.3 9.3 13.9#

