

Table-1-C2mim Tf2n

TI – Tolerance Interval  $Z_{oL}:Z_{oU}$   
 DI – Interval of Typical Data  $Z_L:Z_U$   
 LEL – Local Estimate of Location  $Z_o$

Temp.[C]	[C2mim][Tf2N] [J/gK]				
	$Z_L$	$Z_{oL}$	$Z_o$	$Z_{oU}$	$Z_U$
20	1.287440421	1.288476899	1.288898144	1.289214993	1.289817968
21	1.289015624	1.290265128	1.291161666	1.29171509	1.292002832
22	1.290527265	1.291911143	1.292740359	1.293059911	1.293151862
23	1.292668365	1.293324036	1.293939889	1.294434288	1.294768481
24	1.293997028	1.294515717	1.294788312	1.295094368	1.295977837
25	1.295322118	1.295997075	1.296355098	1.296682808	1.297160831
26	1.296599597	1.297269011	1.297591376	1.297913967	1.298585416
27	1.297916648	1.298553984	1.298824221	1.299078441	1.299566166
28	1.299298358	1.29995581	1.30020086	1.300448787	1.301146101
29	1.300612827	1.301080769	1.301286261	1.301507733	1.302184234
30	1.30192572	1.302313634	1.302592871	1.302930327	1.303768803
31	1.30328166	1.303829289	1.304045	1.304269164	1.30493391
32	1.304838591	1.304928216	1.305058766	1.305309349	1.306315725
33	1.3061149	1.306528588	1.306735239	1.306971226	1.307758311
34	1.307468959	1.307790229	1.307973477	1.30818849	1.308855803
35	1.308617958	1.309139031	1.309410491	1.309722658	1.310734445
36	1.309949228	1.310610049	1.310877439	1.311157999	1.311999102
37	1.311272693	1.311789277	1.312018628	1.312264744	1.312992759
38	1.312745009	1.313289317	1.313539515	1.313810604	1.314611226
39	1.313578689	1.314608163	1.31497778	1.315322947	1.316067962
40	1.31536001	1.315870431	1.316234431	1.31661011	1.317183966
41	1.316833811	1.317109044	1.317469599	1.317942882	1.318610043
42	1.318008624	1.318438176	1.318737689	1.31908906	1.319909471
43	1.319103323	1.319608639	1.320093232	1.320584578	1.321113473
44	1.320220871	1.320900851	1.321285872	1.321641058	1.322636161
45	1.321449761	1.322113442	1.322435747	1.322765537	1.323499671
46	1.322576444	1.323296366	1.323611235	1.323932422	1.32472188
47	1.323743936	1.324626793	1.325027303	1.325404618	1.326089992
48	1.325156497	1.325640512	1.326142547	1.326692863	1.327348588
49	1.326272447	1.326760549	1.327121646	1.327462857	1.327863166
50	1.327806519	1.327909089	1.328087146	1.328430352	1.329377339
51	1.328729345	1.329120186	1.329311072	1.329513064	1.330017859
52	1.329912588	1.3303704	1.330682987	1.330954543	1.331235669
53	1.330702086	1.331278648	1.331707426	1.332106883	1.332557738
54	1.331717757	1.332087408	1.332276572	1.332492027	1.333178222
55	1.333255765	1.333850267	1.334086217	1.334323325	1.334932033
56	1.333889798	1.334240957	1.334466706	1.334755608	1.335855926
57	1.329331517	1.334307599	1.335483383	1.336304827	1.337323778
58	1.336143825	1.33672162	1.3369602	1.337211924	1.337966931
59	1.337039618	1.337563944	1.337803988	1.338068552	1.338914817
60	1.338017559	1.338413692	1.339261199	1.339825714	1.339967366
61	1.338834978	1.339205301	1.339451195	1.339755288	1.340691586
62	1.340103366	1.340606311	1.340858559	1.341095661	1.341486878

Table-1-C2mim Tf2n

63	1.340681704	1.341372638	1.341975414	1.342399029	1.342818085
64	1.341331586	1.341973168	1.342339034	1.342736575	1.343649528
65	1.342354729	1.342991935	1.343460917	1.34390954	1.344454412
66	1.341671799	1.343085894	1.343550223	1.343876274	1.344224882
67	1.343747768	1.344524918	1.344815723	1.345063548	1.345455255
68	1.343819734	1.34401688	1.344217776	1.344554747	1.346439407
69	1.345326172	1.345404277	1.345641273	1.346200505	1.347142275

Table-1-C2mim Tf2n

TI – Tolerance Interval  $Z_{OL}:Z_{OU}$   
 DI – Interval of Typical Data  $Z_L:Z_U$   
 LEL – Local Estimate of Location  $Z_0$

Temp.[C]	[C2mim][Tf2N] + MWCNT (1% wt.) [J/gK]				
	$Z_L$	$Z_{OL}$	$Z_0$	$Z_{OU}$	$Z_U$
20	1.25369301	1.25991284	1.26654993	1.2724266	1.27666691
21	1.25542507	1.26118174	1.2700468	1.27596706	1.27782982
22	1.25722171	1.26239712	1.26550413	1.26899561	1.2916707
23	1.2590402	1.26446112	1.26821673	1.27195229	1.29156048
24	1.25930165	1.26549524	1.27226027	1.27793846	1.28171758
25	1.26135338	1.26690447	1.27070088	1.27446403	1.29414852
26	1.26224807	1.26723628	1.27048654	1.27406503	1.29483087
27	1.26364108	1.2686006	1.27205207	1.2757503	1.29726065
28	1.26429866	1.26968073	1.27290532	1.2764401	1.29785367
29	1.26493056	1.2725753	1.27830769	1.28325351	1.28785107
30	1.26725597	1.27212804	1.27587186	1.27975025	1.29932512
31	1.26745	1.2731738	1.27605098	1.2793545	1.30494054
32	1.26941419	1.27459855	1.27788776	1.28148459	1.30275766
33	1.27008168	1.2754507	1.28383179	1.28979258	1.29258052
34	1.27190096	1.27623206	1.28004528	1.28417943	1.30732032
35	1.27252418	1.27613102	1.28079836	1.28701185	1.30200955
36	1.27368766	1.27797837	1.28428506	1.29096505	1.29883043
37	1.27498356	1.27835615	1.28374607	1.29059053	1.30068437
38	1.27589217	1.28093869	1.28658445	1.29284121	1.30042461
39	1.27714221	1.28234985	1.29018504	1.2971192	1.30119711
40	1.27824786	1.2827026	1.29134616	1.29865942	1.30202752
41	1.27877019	1.28575257	1.28915332	1.29285999	1.31540936
42	1.28086223	1.28499104	1.28881023	1.29326306	1.32188136
43	1.28151064	1.28550999	1.28913801	1.29354597	1.32441691
44	1.28283078	1.28642973	1.29024053	1.2948407	1.32439348
45	1.28398596	1.28884108	1.29269218	1.29700809	1.32368969
46	1.28552296	1.29046551	1.29443299	1.29868679	1.32181894
47	1.28542285	1.29196171	1.29746117	1.30334364	1.31215138
48	1.2872129	1.29267513	1.29931993	1.30680122	1.31354148
49	1.28701642	1.29368764	1.29987429	1.30577376	1.31298477
50	1.28940141	1.29473346	1.29893577	1.30339394	1.32645723
51	1.28902802	1.29418873	1.30029107	1.30732221	1.31580383
52	1.29055497	1.29353057	1.3035704	1.3130976	1.31694872
53	1.29104476	1.29626381	1.30013124	1.30471048	1.33525224
54	1.29172553	1.29716816	1.30345393	1.3107423	1.32073851
55	1.29328038	1.29741846	1.30302589	1.31030048	1.32140325
56	1.2912371	1.30256729	1.30890742	1.31430387	1.32049248
57	1.29377509	1.30270598	1.30675345	1.31084958	1.3317781
58	1.29524486	1.30068826	1.30395645	1.30795211	1.34010023
59	1.27806036	1.31139901	1.31602525	1.31971398	1.32434174
60	1.29748169	1.30198131	1.30950601	1.31899633	1.3252446
61	1.2973769	1.30171636	1.30816703	1.31650334	1.33381508
62	1.29913491	1.3044499	1.31447129	1.32264437	1.32765016

Table-1-C2mim Tf2n

63	1.29882751	1.30485371	1.31354569	1.32244075	1.32934036
64	1.28401332	1.3157835	1.32182784	1.32653656	1.33000213
65	1.30084936	1.30873152	1.31469797	1.32039292	1.33949526
66	1.30090986	1.3100615	1.31786615	1.32495814	1.33161196
67	1.30212704	1.30920018	1.31934318	1.32814833	1.33308745
68	1.30227536	1.30761951	1.31974059	1.32992329	1.33441831
69	1.30407254	1.31105328	1.31620185	1.3215553	1.35046973

Table-2-C4mim Tf2N

TI – Tolerance Interval  $Z_{oL}:Z_{oU}$   
 DI – Interval of Typical Data  $Z_L:Z_U$   
 LEL – Local Estimate of Location  $Z_o$

Temp.[C]	[C4mim][Tf2N] [J/gK]				
	$Z_L$	$Z_{oL}$	$Z_o$	$Z_{oU}$	$Z_U$
20	1.349583953	1.350609636	1.351364253	1.351938147	1.35236293
21	1.351665161	1.35265308	1.353645955	1.354384812	1.354797211
22	1.35313178	1.353629539	1.354413731	1.355353921	1.356208368
23	1.354211463	1.355388319	1.356116715	1.356741389	1.35742245
24	1.356016517	1.356631808	1.357230883	1.357922104	1.358931311
25	1.35726877	1.358108043	1.358801892	1.359476273	1.360237947
26	1.358446244	1.359027722	1.359818529	1.360658077	1.361354035
27	1.359976184	1.360270017	1.360724646	1.361367635	1.362241938
28	1.361006475	1.361575433	1.362156979	1.362831498	1.363773812
29	1.362295469	1.363028223	1.363946452	1.364830414	1.365484354
30	1.364065011	1.364247968	1.364821965	1.365902075	1.366933201
31	1.365456706	1.365692205	1.366379031	1.367390324	1.368051899
32	1.366722043	1.36700616	1.367539873	1.368439103	1.369875985
33	1.368054244	1.368442508	1.369108357	1.370011857	1.370982796
34	1.369516764	1.369884995	1.370452062	1.371256084	1.372363461
35	1.370859743	1.371174676	1.371726569	1.372609476	1.373982202
36	1.372458436	1.372460842	1.372462	1.372463158	1.372465564
37	1.373456163	1.37405687	1.374599346	1.375273589	1.37661816
38	1.374690997	1.375174602	1.375750832	1.376564376	1.378174014
39	1.376438746	1.376623207	1.377005939	1.377758092	1.37930974
40	1.377735608	1.378016648	1.378372237	1.378885263	1.379873282
41	1.378986749	1.379661174	1.380110727	1.380626209	1.381804937
42	1.380715923	1.381002555	1.381331368	1.381849981	1.383447354
43	1.382115427	1.382966314	1.38333708	1.383729132	1.384843756
44	1.383611245	1.384164843	1.384482062	1.384841204	1.385796829
45	1.384761858	1.385221849	1.385499863	1.38589701	1.386956857
46	1.386057042	1.38654346	1.386910062	1.387373442	1.388647473
47	1.386245737	1.387426242	1.387787188	1.388084452	1.388573172
48	1.388724393	1.389120967	1.389599476	1.390257379	1.391437835
49	1.390240097	1.390375867	1.390692875	1.391457724	1.393841473
50	1.391484575	1.391879664	1.39219897	1.392663112	1.39478302
51	1.393203232	1.393540515	1.393991742	1.394680517	1.396121135
52	1.394229588	1.394608878	1.39518087	1.39607663	1.397740389
53	1.395576603	1.396048829	1.396476592	1.397000208	1.397991921
54	1.397012245	1.397307855	1.397779105	1.398566236	1.400177348
55	1.397467874	1.39876792	1.399255901	1.399812408	1.40093875
56	1.399516969	1.400402044	1.400925574	1.401466676	1.402477477
57	1.401184875	1.401352205	1.401521472	1.40180415	1.403377952
58	1.402913935	1.403745465	1.404087471	1.404424128	1.405197107
59	1.404470791	1.405109274	1.405402328	1.40569374	1.406316595
60	1.403807243	1.404533261	1.405182671	1.405931525	1.407140333
61	1.404094517	1.406290426	1.40696189	1.407528842	1.408530132
62	1.406524559	1.406920971	1.407497724	1.408307219	1.409483238

Table-2-C4mim Tf2N

63	1.408087258	1.408849625	1.410000746	1.410817201	1.411119364
64	1.408781332	1.409567637	1.410427017	1.411289965	1.412086597
65	1.411960724	1.412099034	1.412424471	1.412753645	1.412896174
66	1.412716091	1.412851361	1.41318348	1.413892027	1.415240829
67	1.413544384	1.414029745	1.414296957	1.414615799	1.415743666
68	1.414121427	1.415357407	1.416165543	1.416827157	1.417449894
69	1.415931921	1.417075775	1.417655414	1.418180278	1.418953554
70	1.416915608	1.417554481	1.418127608	1.418761574	1.420812936

Table-2-C4mim Tf2N

TI – Tolerance Interval  $Z_{OL}:Z_{OU}$   
 DI – Interval of Typical Data  $Z_L:Z_U$   
 LEL – Local Estimate of Location  $Z_0$

Temp.[C]	[C4mim][Tf2N] + MWCNT (1% wt.) [J/gK]				
	$Z_L$	$Z_{OL}$	$Z_0$	$Z_{OU}$	$Z_U$
20	1.343208442	1.344120177	1.344920883	1.345263504	1.34535431
21	1.345818558	1.346349769	1.346817332	1.347257422	1.347692525
22	1.347140672	1.347449171	1.34839732	1.348902077	1.348970692
23	1.348437678	1.349063563	1.349458118	1.349836821	1.350935854
24	1.350108742	1.35024295	1.350742592	1.351487074	1.351859071
25	1.351353027	1.351493903	1.35215141	1.352987077	1.353239991
26	1.352571257	1.352679032	1.353454631	1.354204177	1.354303764
27	1.353969741	1.354078034	1.354618836	1.355349284	1.35557429
28	1.355375092	1.355660173	1.356133653	1.356686625	1.357134835
29	1.356716383	1.357005293	1.357526663	1.358176519	1.358723355
30	1.358047933	1.358303995	1.358991105	1.359677095	1.359932087
31	1.359586786	1.360083831	1.360508847	1.360958224	1.361562161
32	1.360445344	1.361346331	1.361693722	1.36208894	1.362863898
33	1.361439072	1.362782394	1.363243578	1.363721991	1.36447229
34	1.363444461	1.363777862	1.36440235	1.365250707	1.366068011
35	1.364507231	1.365655379	1.366079173	1.366553762	1.36746996
36	1.366444047	1.366475878	1.366574814	1.366905331	1.368637916
37	1.367405066	1.367564163	1.368257602	1.369690879	1.370730518
38	1.369034425	1.369429412	1.369932606	1.370672709	1.372167455
39	1.370537698	1.371135642	1.371515832	1.371954132	1.373041544
40	1.371991676	1.372258858	1.372664892	1.373259375	1.374165805
41	1.373279483	1.373930612	1.374371566	1.374875228	1.375988989
42	1.374905883	1.375052771	1.375488904	1.376402359	1.377597682
43	1.376232078	1.376858112	1.37736168	1.377938666	1.378979111
44	1.377523906	1.378005297	1.378532546	1.3792255	1.380477645
45	1.37911203	1.379491723	1.380162184	1.381023332	1.381814867
46	1.380303702	1.380823026	1.381400969	1.382122807	1.3832279
47	1.380813542	1.381852741	1.38222616	1.382596945	1.383599713
48	1.382697413	1.38362955	1.384803119	1.385503297	1.385734142
49	1.38432944	1.385142617	1.386052044	1.386914514	1.387605416
50	1.385983859	1.386308429	1.386575467	1.386948128	1.388282741
51	1.387482716	1.387986755	1.388926534	1.389536726	1.389702724
52	1.390492433	1.390597454	1.390651	1.390704671	1.390810765
53	1.389269882	1.390108593	1.390541311	1.391111488	1.392499784
54	1.391344834	1.391421961	1.391591691	1.392000317	1.393468671
55	1.392440907	1.393188982	1.393854704	1.394365113	1.394696076
56	1.393224786	1.394453356	1.395332057	1.395829631	1.39605522
57	1.395384401	1.395710824	1.395918886	1.396156408	1.396722963
58	1.39686524	1.398179654	1.398425284	1.39857667	1.398733288
59	1.399616648	1.399840074	1.399938	1.400020996	1.400134117
60	1.39847079	1.398765655	1.399453161	1.400465925	1.401341641
61	1.398200751	1.400897038	1.401517776	1.401918708	1.402341746
62	1.401419553	1.401767727	1.402169214	1.40251695	1.402744061

Table-2-C4mim Tf2N

63	1.402091759	1.403014004	1.403828532	1.404713479	1.405945793
64	1.403258725	1.404021761	1.404854687	1.40565125	1.406315589
65	1.406558395	1.406883947	1.407448481	1.408234066	1.409115336
66	1.406471597	1.407324538	1.407746772	1.408094686	1.408831269
67	1.407740141	1.407837706	1.408113226	1.408780354	1.410162308
68	1.409870542	1.411313585	1.411738231	1.412081257	1.412628411
69	1.40982329	1.41078739	1.411560653	1.412283576	1.413051024
70	1.411510312	1.413057018	1.413429146	1.413702843	1.414083622



Table-3-C6mim Tf2N

TI – Tolerance Interval  $Z_{0L}:Z_{0U}$   
 DI – Interval of Typical Data  $Z_L:Z_U$   
 LEL – Local Estimate of Location  $Z_0$

Temp.[C]	[C6mim][Tf2N] [J/gK]				
	$Z_L$	$Z_{0L}$	$Z_0$	$Z_{0U}$	$Z_U$
20	1.419457066	1.420653374	1.421309475	1.421693488	1.421910026
21	1.421886542	1.423046916	1.423673606	1.424123498	1.424494638
22	1.423384308	1.424251963	1.424893298	1.425404176	1.425816815
23	1.424306482	1.4256294	1.426468754	1.426971019	1.427239705
24	1.426189674	1.427181554	1.427770627	1.428345285	1.429246438
25	1.42748764	1.428613685	1.429347963	1.429904303	1.430351644
26	1.428621579	1.429848906	1.430641145	1.431148737	1.431450218
27	1.430396489	1.431296783	1.431989476	1.432299716	1.432394774
28	1.431738001	1.43256246	1.433269631	1.433890448	1.434431205
29	1.433291664	1.43428048	1.434867514	1.435379791	1.435981832
30	1.434876106	1.435691736	1.436334839	1.436885964	1.437376615
31	1.436602289	1.437496156	1.437956062	1.43831176	1.438665814
32	1.437913793	1.438606421	1.439179741	1.439784724	1.440622336
33	1.43940483	1.440093917	1.440525994	1.440988182	1.441890864
34	1.440829294	1.441661324	1.442280709	1.442905064	1.443761402
35	1.442515084	1.443188459	1.443642295	1.444154911	1.445253133
36	1.443824152	1.444080617	1.444330542	1.444728259	1.446590262
37	1.445228247	1.445570248	1.446234386	1.447299436	1.448726741
38	1.446816007	1.44748965	1.447947061	1.44850302	1.450042341
39	1.448309347	1.449117024	1.44956224	1.450069433	1.451527453
40	1.449867306	1.450778761	1.451146971	1.451523545	1.452540403
41	1.451233262	1.452182746	1.452644639	1.453157759	1.454726742
42	1.452697262	1.453574904	1.454006415	1.454493629	1.456071675
43	1.4544257	1.455501649	1.455983272	1.456485651	1.457796949
44	1.456101738	1.456676734	1.457214359	1.457845799	1.458862683
45	1.45764867	1.458043325	1.458477187	1.459083244	1.460397027
46	1.458905398	1.45986436	1.460273804	1.460694893	1.461790373
47	1.459316834	1.460459575	1.460930698	1.461350788	1.462052739
48	1.461650932	1.46258605	1.46318972	1.463707397	1.464252626
49	1.463179105	1.464440591	1.464886846	1.465309969	1.466285227
50	1.465028152	1.465047579	1.465197035	1.466031066	1.467950292
51	1.466355191	1.467133982	1.467951868	1.468696114	1.469277961
52	1.467579109	1.468588811	1.46924433	1.469831564	1.470512933
53	1.469354272	1.470051307	1.470512283	1.4709416	1.471480367
54	1.470808098	1.470923149	1.471508177	1.47268657	1.473354129
55	1.471926607	1.47302354	1.473715531	1.474227714	1.474630576
56	1.472925524	1.474371804	1.474926691	1.475394139	1.476097642
57	1.475172643	1.475507311	1.475745131	1.476064288	1.477334673
58	1.478005326	1.478748719	1.478910545	1.479016739	1.479135285
59	1.477472392	1.479165057	1.479667934	1.480058465	1.48061661
60	1.47896005	1.479869809	1.480221658	1.480583192	1.481626039
61	1.47824721	1.481063055	1.481744872	1.482244532	1.482931387
62	1.480900588	1.48127862	1.481710232	1.482364142	1.484115428

Table-3-C6mim Tf2N

63	1.483615818	1.484758337	1.485119192	1.48533565	1.485609908
64	1.483550444	1.484594165	1.485070714	1.485570489	1.486873403
65	1.487220166	1.487372988	1.487787765	1.488530445	1.489316404
66	1.487159568	1.488536665	1.488982615	1.489396261	1.490345488
67	1.488812732	1.489031795	1.489237906	1.489559256	1.491034429
68	1.49120805	1.491895833	1.492053861	1.492157437	1.492270267
69	1.491463126	1.491671916	1.492187775	1.493175372	1.49458014
70	1.493487251	1.494071735	1.494295466	1.49450488	1.494936477

Table-3-C6mim Tf2N

TI – Tolerance Interval                       $Z_{OL}:Z_{OU}$   
 DI – Interval of Typical Data               $Z_L:Z_U$   
 LEL – Local Estimate of Location         $Z_0$

Temp.[C]	[C6mim][Tf2N] + MWCNT (1% wt.) [J/gK]				
	$Z_L$	$Z_{OL}$	$Z_0$	$Z_{OU}$	$Z_U$
20	1.414166354	1.414648975	1.415042657	1.415487629	1.416245266
21	1.415919726	1.416437734	1.417211166	1.41778953	1.418024241
22	1.417416681	1.41814527	1.418879926	1.419322417	1.419496976
23	1.418368995	1.419017509	1.419829451	1.420632449	1.421259663
24	1.420220438	1.420566056	1.42113784	1.421877	1.422622873
25	1.421727434	1.421821474	1.422477913	1.42361347	1.423961112
26	1.423084399	1.423520097	1.424016977	1.42460348	1.425355251
27	1.424621352	1.425099437	1.425493432	1.425899145	1.426428892
28	1.426185251	1.426450355	1.426878859	1.427522083	1.428478614
29	1.42696468	1.428142006	1.428549693	1.428976964	1.429665756
30	1.429434717	1.429547217	1.429974696	1.430766988	1.431332432
31	1.431084789	1.431208537	1.431462911	1.431944907	1.432855843
32	1.432176113	1.432736915	1.433011111	1.433361513	1.434176634
33	1.43378806	1.4339381	1.434437476	1.435416765	1.436351454
34	1.43529125	1.435663537	1.435981125	1.436413862	1.437717714
35	1.436732397	1.436908191	1.437308821	1.438141954	1.439839375
36	1.438240949	1.438243383	1.438253	1.438293291	1.438604067
37	1.439399402	1.43994969	1.440550037	1.441373647	1.443079309
38	1.441178358	1.441793397	1.442271352	1.442892493	1.444707301
39	1.443019092	1.44324612	1.443648937	1.44437162	1.445888873
40	1.444388389	1.444575838	1.444801527	1.445181107	1.446554022
41	1.445954343	1.446525125	1.446913186	1.447395553	1.44885671
42	1.447598007	1.447808813	1.448138693	1.448727087	1.450263455
43	1.449242244	1.449706594	1.450094786	1.450604533	1.45197799
44	1.450627119	1.450741874	1.45104387	1.451758051	1.453352575
45	1.452318446	1.452507173	1.452728942	1.453102164	1.454538343
46	1.454165948	1.454287591	1.454432734	1.454700944	1.456348872
47	1.454162365	1.455352482	1.455948715	1.456125691	1.456165317
48	1.456721024	1.456936464	1.457324263	1.458013763	1.45938742
49	1.458366202	1.459031668	1.459387618	1.459790387	1.460963279
50	1.459419964	1.46005247	1.460412408	1.460846364	1.462375321
51	1.460722647	1.462120846	1.462593188	1.463073681	1.463789416
52	1.462740275	1.462896596	1.463202736	1.463811653	1.465268446
53	1.464040221	1.464476456	1.464740575	1.464939357	1.465105815
54	1.465341087	1.466204957	1.466577911	1.466915211	1.46748118
55	1.467220286	1.467449726	1.467975743	1.468367853	1.46847665
56	1.467884773	1.468722575	1.469396524	1.469866047	1.470142959
57	1.470015175	1.470379525	1.470676525	1.471017026	1.471622177
58	1.471628296	1.472092356	1.472675975	1.473082894	1.47325326
59	1.472733203	1.473352385	1.473677156	1.47405389	1.475311694
60	1.473585449	1.474195143	1.474415488	1.47463612	1.475249852
61	1.473227223	1.47545873	1.476222494	1.476648869	1.476934818
62	1.475202389	1.47626336	1.4768074	1.477301111	1.478025505

Table-3-C6mim Tf2N

63	1.478319488	1.478930662	1.479161044	1.479422884	1.479950388
64	1.479226589	1.479473496	1.479960532	1.480899576	1.482912424
65	1.48128674	1.48153776	1.481780772	1.482076745	1.482582754
66	1.48323745	1.484003337	1.484694896	1.48506574	1.485198444
67	1.483314548	1.484254734	1.484585545	1.48490126	1.485649752
68	1.485762025	1.485872091	1.486304732	1.48681812	1.486986321
69	1.486648901	1.488150059	1.488630201	1.489073055	1.490079146
70	1.487207682	1.488005244	1.48838313	1.488664769	1.488938691

Table-4-C8mim Tf2N

TI – Tolerance Interval                       $Z_{oL}:Z_{oU}$   
 DI – Interval of Typical Data               $Z_L:Z_U$   
 LEL – Local Estimate of Location           $Z_o$

Temp.[C]	[C8mim][Tf2N] [J/gK]				
	$Z_L$	$Z_{oL}$	$Z_o$	$Z_{oU}$	$Z_U$
20	1.471144569	1.472028419	1.472756069	1.473322711	1.473724979
21	1.473832105	1.474600116	1.475139875	1.475680766	1.477306939
22	1.475188917	1.475750094	1.476539055	1.47738759	1.478085098
23	1.476439892	1.477328402	1.47832512	1.479016455	1.479330826
24	1.478285551	1.478988178	1.479636215	1.480359714	1.481390623
25	1.480152495	1.480643269	1.481257248	1.481969645	1.482755477
26	1.48121588	1.481903307	1.482414073	1.482977978	1.483977827
27	1.483032836	1.483706361	1.484120128	1.484532781	1.485199319
28	1.484733999	1.485015302	1.485549126	1.486401294	1.487569726
29	1.486369623	1.486789104	1.487587004	1.488491526	1.489087522
30	1.488437364	1.488553456	1.48905141	1.489934606	1.490434129
31	1.489980728	1.490261313	1.490760532	1.491403658	1.491993143
32	1.491380147	1.491713947	1.492111736	1.492688016	1.493923124
33	1.492447656	1.493673955	1.494090696	1.494513361	1.495136683
34	1.494359469	1.494746491	1.495270862	1.495963183	1.496910427
35	1.49586601	1.496286028	1.496779705	1.497439925	1.498575636
36	1.497275636	1.49758535	1.497841405	1.498216126	1.499898256
37	1.498705518	1.499410005	1.499772338	1.500247677	1.501393324
38	1.500743482	1.501166975	1.501486706	1.501900814	1.503153764
39	1.502505971	1.502965958	1.503353237	1.503865754	1.505272011
40	1.503843944	1.504254941	1.504545329	1.504908327	1.505966525
41	1.505684084	1.505981461	1.506328196	1.506853922	1.508213956
42	1.50716803	1.507622486	1.508076083	1.508642651	1.509644117
43	1.509054188	1.509730763	1.510123105	1.510550962	1.51152645
44	1.510736171	1.510959959	1.511205461	1.511563766	1.512465977
45	1.512075968	1.512775509	1.513053244	1.513380122	1.514083384
46	1.513635142	1.514381543	1.514729413	1.515144095	1.515945544
47	1.513995559	1.514453247	1.514980116	1.515632907	1.516569467
48	1.516791328	1.517441063	1.517989188	1.518483212	1.518944981
49	1.51801216	1.518784672	1.519265089	1.519793103	1.520930892
50	1.519629914	1.520112034	1.520411192	1.52078285	1.522089296
51	1.521473339	1.522015335	1.522895024	1.523746428	1.524240794
52	1.523021245	1.523459419	1.523920614	1.524509064	1.525539346
53	1.524623336	1.52470017	1.525272174	1.526341461	1.52668221
54	1.526322394	1.526608848	1.527199033	1.527815723	1.528138407
55	1.527204006	1.528517706	1.529315111	1.529617533	1.529702112
56	1.528627919	1.529782311	1.530238906	1.530656485	1.531434235
57	1.530940429	1.530986172	1.531026	1.531077326	1.531203374
58	1.532771678	1.534053502	1.534329576	1.534507332	1.53469865
59	1.53390445	1.534797087	1.535087158	1.535339765	1.535809471
60	1.535112442	1.53595914	1.536285689	1.536581533	1.537127748
61	1.534461841	1.537206388	1.537817848	1.538220733	1.538670239
62	1.537184157	1.53779156	1.538317901	1.538947512	1.540125519

Table-4-C8mim Tf2N

63	1.539778698	1.540828908	1.541356923	1.541662537	1.541840494
64	1.540736105	1.541012608	1.541600873	1.542506073	1.543474647
65	1.544079653	1.54410584	1.544154004	1.544258812	1.544658872
66	1.544410525	1.545145882	1.545549096	1.545983487	1.546997118
67	1.54578835	1.545894183	1.546032098	1.546284542	1.54739586
68	1.547570389	1.548450129	1.548720929	1.54894101	1.54928833
69	1.548205325	1.549479959	1.550012135	1.550401208	1.550795384
70	1.549230243	1.551322641	1.551748771	1.551951296	1.552078254

Table-4-C8mim Tf2N

TI – Tolerance Interval  $Z_{OL}:Z_{OU}$   
 DI – Interval of Typical Data  $Z_L:Z_U$   
 LEL – Local Estimate of Location  $Z_0$

Temp.[C]	[C8mim][Tf2N] + MWCNT (1% wt.) [J/gK]				
	$Z_L$	$Z_{OL}$	$Z_0$	$Z_{OU}$	$Z_U$
20	1.459989056	1.460940967	1.461464991	1.461797666	1.462012987
21	1.462322413	1.462973263	1.463519308	1.464059441	1.464686529
22	1.46388118	1.464199212	1.464965222	1.465759376	1.466109057
23	1.465155122	1.466079299	1.466566896	1.467005848	1.468199057
24	1.467115327	1.467606538	1.468334806	1.468944884	1.469244835
25	1.468614042	1.46901987	1.470159744	1.470842328	1.470959267
26	1.46976644	1.470412254	1.470979298	1.47160554	1.472522526
27	1.471884399	1.472543083	1.47286007	1.473130059	1.473788828
28	1.473248288	1.473495147	1.474030376	1.474718067	1.475214054
29	1.47478133	1.475279186	1.475775141	1.476345875	1.477151129
30	1.476104518	1.477207179	1.477615557	1.478075768	1.478977096
31	1.477806535	1.47914093	1.479561602	1.479952813	1.480419225
32	1.479890552	1.480275788	1.480787073	1.481374779	1.481967869
33	1.48117819	1.481513519	1.48248397	1.483211727	1.4833766
34	1.483168788	1.48355016	1.484058699	1.484589466	1.485023203
35	1.483856308	1.485197386	1.485640778	1.486079857	1.486690264
36	1.486050797	1.486160148	1.486215	1.486269224	1.486373223
37	1.487291167	1.487470398	1.488031442	1.489158794	1.490397784
38	1.489165499	1.489564672	1.489978943	1.490560201	1.491961665
39	1.491108309	1.491550863	1.491890088	1.492304411	1.493283127
40	1.492757002	1.492848314	1.493057204	1.493519915	1.494651745
41	1.494313904	1.494915318	1.495221154	1.495557494	1.496488248
42	1.495833608	1.496093273	1.49656798	1.497313438	1.498350488
43	1.497546788	1.498201739	1.498593795	1.499048805	1.500307295
44	1.499374813	1.499544556	1.499898954	1.500480705	1.501221878
45	1.50063394	1.501386236	1.501687917	1.502044566	1.502815648
46	1.502419055	1.502812098	1.503262549	1.503863656	1.504928708
47	1.502755697	1.503359329	1.503704424	1.504056733	1.504713148
48	1.505048912	1.505917399	1.506238805	1.506600662	1.507307814
49	1.507096079	1.507304885	1.507600412	1.508108362	1.509530204
50	1.508189786	1.508710394	1.509065321	1.509523913	1.51116665
51	1.510235667	1.510627101	1.511547371	1.512579895	1.513112284
52	1.511543212	1.511985712	1.512565619	1.513289844	1.514190182
53	1.513347942	1.513554148	1.514302547	1.515088205	1.515320767
54	1.514938582	1.51537627	1.51581242	1.516392659	1.517641337
55	1.516442351	1.517017361	1.517521147	1.518114509	1.519159297
56	1.517374172	1.518372941	1.519078188	1.519719764	1.520437143
57	1.519580467	1.519708322	1.519751	1.51977705	1.519797143
58	1.521660075	1.522861843	1.523176942	1.523396325	1.523653782
59	1.522538879	1.523622936	1.523985585	1.524280162	1.524720922
60	1.524010317	1.524741076	1.525085416	1.525440175	1.526275759
61	1.523251984	1.52587756	1.526607811	1.527196549	1.528162225
62	1.526051232	1.526119262	1.526403972	1.527253489	1.528667345

Table-4-C8mim Tf2N

63	1.528566948	1.529650174	1.53024441	1.530584507	1.530769234
64	1.529228875	1.529915091	1.530543724	1.531172851	1.531860865
65	1.53256302	1.532639779	1.532748272	1.532925714	1.533346102
66	1.533609653	1.53390896	1.534093497	1.534323634	1.535156547
67	1.534471192	1.534729243	1.534961397	1.535292596	1.536388322
68	1.536208957	1.53707958	1.537374463	1.537632551	1.538105667
69	1.53742817	1.538244826	1.538744387	1.539173794	1.539648967
70	1.537689355	1.539655389	1.540126818	1.540455613	1.540859201



Table-5-C10mim Tf2N

TI – Tolerance Interval                     $Z_{OL}:Z_{OU}$   
 DI – Interval of Typical Data            $Z_L:Z_U$   
 LEL – Local Estimate of Location        $Z_0$

Temp.[C]	[C10mim][Tf2N] [J/gK]					
	$Z_L$	$Z_{OL}$	$Z_0$	$Z_{OU}$	$Z_U$	
20	1.491273	1.491327	1.491405	1.491624	1.492045	
21	1.498665	1.499016	1.499195	1.499405	1.49957	
22	1.501429	1.501462	1.501476	1.50149	1.501551	
23	1.502971	1.502972	1.502978	1.50303	1.50337	
24	1.504077	1.504272	1.504477	1.504915	1.505565	
25	1.506226	1.506268	1.506338	1.506562	1.507058	
26	1.507435	1.507455	1.507497	1.507679	1.508222	
27	1.509116	1.509207	1.50933	1.509654	1.510242	
28	1.509478	1.510223	1.510623	1.511139	1.511619	
29	1.510968	1.511637	1.512023	1.512558	1.513121	
30	1.512991	1.513423	1.513725	1.514195	1.514736	
31	1.514391	1.514954	1.515251	1.515647	1.516115	
32	1.516259	1.516309	1.516391	1.51666	1.517261	
33	1.517377	1.5177	1.517932	1.518302	1.518733	
34	1.518613	1.518893	1.519145	1.519616	1.520242	
35	1.520424	1.520594	1.520784	1.521209	1.521869	
36	1.522127	1.522349	1.522549	1.522923	1.523421	
37	1.523822	1.523829	1.523848	1.52395	1.524354	
38	1.525356	1.525368	1.525395	1.525535	1.526037	
39	1.526403	1.5266	1.526795	1.527188	1.527745	
40	1.527933	1.528048	1.528199	1.528593	1.529298	
41	1.529567	1.529874	1.530114	1.530514	1.531002	
42	1.530598	1.531465	1.531669	1.531894	1.532739	
43	1.531587	1.532599	1.53313	1.533789	1.534362	
44	1.533906	1.534033	1.5342	1.534631	1.535397	
45	1.535394	1.535594	1.535822	1.536344	1.537169	
46	1.536779	1.537215	1.537519	1.537992	1.538536	
47	1.538671	1.538732	1.538815	1.53904	1.539456	
48	1.540217	1.540434	1.540609	1.54091	1.541285	
49	1.541263	1.541832	1.542142	1.542548	1.54294	
50	1.543205	1.543433	1.543631	1.54399	1.544457	
51	1.544902	1.544905	1.544916	1.544977	1.545256	
52	1.54545	1.54637	1.546819	1.54731	1.547646	
53	1.546816	1.547348	1.547666	1.548118	1.548601	
54	1.54869	1.549181	1.549441	1.549772	1.55007	
55	1.550862	1.551142	1.551283	1.551449	1.551578	
56	1.552029	1.552057	1.552107	1.552287	1.552729	
57	1.553052	1.553498	1.553773	1.554169	1.554597	
58	1.555124	1.55523	1.555338	1.555564	1.555892	
59	1.556249	1.557255	1.55773	1.558215	1.558507	
60	1.558205	1.558311	1.558429	1.558695	1.559108	
61	1.559459	1.559572	1.559711	1.560052	1.560628	
62	1.561407	1.561462	1.561536	1.561734	1.562097	

Table-5-C10mim Tf2N

63	1.562938	1.562939	1.562942	1.56298	1.563296
64	1.563665	1.56453	1.564927	1.565304	1.565502
65	1.564913	1.565486	1.565793	1.566189	1.566557
66	1.567378	1.567415	1.567473	1.567652	1.568031
67	1.567582	1.568304	1.568655	1.569037	1.569293
68	1.569304	1.569995	1.570354	1.570792	1.571159
69	1.571467	1.571586	1.571724	1.572045	1.572561
70	1.572657	1.572891	1.573068	1.573358	1.573705

**after purification of the sample and Ion Chromatography analysis**

Table-5-C10mim Tf2N

TI – Tolerance Interval  $Z_{OL}:Z_{OU}$   
 DI – Interval of Typical Data  $Z_L:Z_U$   
 LEL – Local Estimate of Location  $Z_0$

Temp.[C]	[C10mim][Tf2N] + MWCNT (1% wt.) [J/gK]				
	$Z_L$	$Z_{OL}$	$Z_0$	$Z_{OU}$	$Z_U$
21	1.498051	1.498692	1.499128	1.499674	1.501392
22	1.500229	1.500952	1.501304	1.501642	1.50225
23	1.501314	1.502112	1.502486	1.502875	1.503829
24	1.503195	1.504121	1.504506	1.504854	1.505451
25	1.504634	1.50562	1.506113	1.506588	1.507429
26	1.506272	1.506945	1.507339	1.507779	1.508879
27	1.508027	1.508709	1.509199	1.509725	1.510613
28	1.509123	1.50975	1.510126	1.510585	1.512152
29	1.510235	1.51119	1.511687	1.512242	1.51383
30	1.512011	1.512897	1.513387	1.51393	1.515325
31	1.513678	1.513895	1.514076	1.514342	1.515496
32	1.515084	1.516194	1.516716	1.517297	1.519164
33	1.51687	1.517343	1.517725	1.518226	1.519665
34	1.518487	1.519291	1.519815	1.520443	1.522164
35	1.520467	1.521315	1.522025	1.522876	1.524558
36	1.522416	1.522702	1.522911	1.523184	1.524084
37	1.523492	1.524504	1.524987	1.525529	1.527294
38	1.525108	1.525373	1.525883	1.526843	1.528832
39	1.526763	1.526858	1.52713	1.527872	1.530072
40	1.528204	1.529089	1.52956	1.530097	1.531732
41	1.530352	1.53065	1.53098	1.531507	1.533356
42	1.531605	1.531836	1.532214	1.532936	1.535142
43	1.532668	1.532975	1.533461	1.534343	1.536752
44	1.534699	1.536018	1.536523	1.536837	1.537077
45	1.536385	1.537636	1.538119	1.538526	1.539136
46	1.537825	1.538033	1.538406	1.539033	1.540101
47	1.5394	1.540331	1.540647	1.540951	1.541703
48	1.541013	1.541822	1.542121	1.542369	1.542745
49	1.542193	1.543746	1.544115	1.544211	1.544234
50	1.544183	1.544471	1.544746	1.545095	1.545786
51	1.545387	1.545794	1.546033	1.546312	1.547118
52	1.547066	1.547742	1.547924	1.547997	1.54803
53	1.548389	1.549402	1.549648	1.549831	1.550093
54	1.54974	1.550759	1.5511	1.551336	1.551578
55	1.551652	1.552095	1.55229	1.552447	1.552643
56	1.552389	1.55291	1.55312	1.55333	1.553857
57	1.554151	1.554867	1.555149	1.555382	1.555702
58	1.55571	1.556133	1.556312	1.556483	1.55682
59	1.557155	1.55776	1.557934	1.558069	1.558264
60	1.558856	1.559199	1.559602	1.559931	1.56012
61	1.56054	1.560568	1.560608	1.560676	1.560842
62	1.561825	1.561897	1.562027	1.562229	1.563046

Table-5-C10mim Tf2N

63	1.56324	1.563267	1.563385	1.563809	1.564819
64	1.564673	1.565022	1.565193	1.565363	1.565709
65	1.565783	1.565897	1.566417	1.566913	1.567015
66	1.56768	1.567885	1.567989	1.568074	1.568174
67	1.568813	1.56909	1.569385	1.569763	1.570419
68	1.570586	1.570678	1.570846	1.571187	1.572176
69	1.572109	1.572145	1.572238	1.572447	1.572856
70	1.572819	1.573361	1.573606	1.573865	1.574567

Table-5-C10mim Tf2N

TI – Tolerance Interval  $Z_{OL}:Z_{OU}$   
 DI – Interval of Typical Data  $Z_L:Z_U$   
 LEL – Local Estimate of Location  $Z_0$

Temp.[C]	[C10mim][Tf2N] [J/gK]				
	$Z_L$	$Z_{OL}$	$Z_0$	$Z_{OU}$	$Z_U$
21	1.498665	1.499016	1.499195	1.499405	1.49957
22	1.501429	1.501462	1.501476	1.50149	1.501551
23	1.502971	1.502972	1.502978	1.50303	1.50337
24	1.504077	1.504272	1.504477	1.504915	1.505565
25	1.506226	1.506268	1.506338	1.506562	1.507058
26	1.507435	1.507455	1.507497	1.507679	1.508222
27	1.509116	1.509207	1.50933	1.509654	1.510242
28	1.509478	1.510223	1.510623	1.511139	1.511619
29	1.510968	1.511637	1.512023	1.512558	1.513121
30	1.512991	1.513423	1.513725	1.514195	1.514736
31	1.514391	1.514954	1.515251	1.515647	1.516115
32	1.516259	1.516309	1.516391	1.51666	1.517261
33	1.517377	1.5177	1.517932	1.518302	1.518733
34	1.518613	1.518893	1.519145	1.519616	1.520242
35	1.520424	1.520594	1.520784	1.521209	1.521869
36	1.522127	1.522349	1.522549	1.522923	1.523421
37	1.523822	1.523829	1.523848	1.52395	1.524354
38	1.525356	1.525368	1.525395	1.525535	1.526037
39	1.526403	1.5266	1.526795	1.527188	1.527745
40	1.527933	1.528048	1.528199	1.528593	1.529298
41	1.529567	1.529874	1.530114	1.530514	1.531002
42	1.530598	1.531465	1.531669	1.531894	1.532739
43	1.531587	1.532599	1.53313	1.533789	1.534362
44	1.533906	1.534033	1.5342	1.534631	1.535397
45	1.535394	1.535594	1.535822	1.536344	1.537169
46	1.536779	1.537215	1.537519	1.537992	1.538536
47	1.538671	1.538732	1.538815	1.53904	1.539456
48	1.540217	1.540434	1.540609	1.54091	1.541285
49	1.541263	1.541832	1.542142	1.542548	1.54294
50	1.543205	1.543433	1.543631	1.54399	1.544457
51	1.544902	1.544905	1.544916	1.544977	1.545256
52	1.54545	1.54637	1.546819	1.54731	1.547646
53	1.546816	1.547348	1.547666	1.548118	1.548601
54	1.54869	1.549181	1.549441	1.549772	1.55007
55	1.550862	1.551142	1.551283	1.551449	1.551578
56	1.552029	1.552057	1.552107	1.552287	1.552729
57	1.553052	1.553498	1.553773	1.554169	1.554597
58	1.555124	1.55523	1.555338	1.555564	1.555892
59	1.556249	1.557255	1.55773	1.558215	1.558507
60	1.558205	1.558311	1.558429	1.558695	1.559108
61	1.559459	1.559572	1.559711	1.560052	1.560628
62	1.561407	1.561462	1.561536	1.561734	1.562097

Table-5-C10mim Tf2N

63	1.562938	1.562939	1.562942	1.56298	1.563296
64	1.563665	1.56453	1.564927	1.565304	1.565502
65	1.564913	1.565486	1.565793	1.566189	1.566557
66	1.567378	1.567415	1.567473	1.567652	1.568031
67	1.567582	1.568304	1.568655	1.569037	1.569293
68	1.569304	1.569995	1.570354	1.570792	1.571159
69	1.571467	1.571586	1.571724	1.572045	1.572561
70	1.572657	1.572891	1.573068	1.573358	1.573705

**before purification of the sample and Ion Chromatography analysis**

Table-5-C10mim Tf2N

TI – Tolerance Interval  $Z_{0L}:Z_{0U}$   
 DI – Interval of Typical Data  $Z_L:Z_U$   
 LEL – Local Estimate of Location  $Z_0$

Temp.[C]	[C10mim][Tf2N] + MWCNT (1% wt.) [J/gK]				
	ZL	Z0L	Z0	Z0U	ZU
21	1.518072494	1.518723004	1.519851245	1.520616441	1.520852115
22	1.519568452	1.522089083	1.522806287	1.523378978	1.523863223
23	1.52257134	1.5229068	1.523714965	1.524892972	1.525849777
24	1.523847955	1.524229176	1.524960059	1.526101715	1.527564478
25	1.525609498	1.525937175	1.526637315	1.527874906	1.529698025
26	1.526334109	1.52818608	1.528831756	1.529510049	1.53060916
27	1.528927057	1.529154927	1.529557517	1.530333809	1.532401564
28	1.530663084	1.53094653	1.531454668	1.532304027	1.533736119
29	1.532125333	1.532838791	1.533292987	1.533842559	1.53549078
30	1.534027502	1.534114439	1.534499804	1.535771602	1.538212838
31	1.535631898	1.535739208	1.536093633	1.537101037	1.539495714
32	1.537716363	1.53783072	1.538132516	1.538920217	1.541325347
33	1.539106881	1.539520099	1.539901122	1.540482848	1.542996302
34	1.540593599	1.541045979	1.541430752	1.54199841	1.544485882
35	1.542361233	1.542670868	1.542812	1.542937243	1.54312514
36	1.543770795	1.544221266	1.544625784	1.54524904	1.548272932
37	1.544709021	1.545331471	1.545838551	1.546577606	1.549938225
38	1.546399244	1.547035625	1.547582863	1.548392357	1.551897756
39	1.548880262	1.548911465	1.548953	1.549022272	1.549233019
40	1.550576087	1.550689081	1.550732	1.550762404	1.550792028
41	1.552212559	1.552394988	1.552632646	1.553106103	1.556614558
42	1.55400146	1.554210753	1.554494437	1.555067165	1.559030853
43	1.555582791	1.555661816	1.555747	1.555871056	1.556208062
44	1.557319285	1.55770633	1.558150036	1.5589265	1.562828414
45	1.558997028	1.559004923	1.559076847	1.559749535	1.564645568
46	1.560624549	1.560714956	1.560913691	1.561468362	1.565087678
47	1.562400294	1.562465971	1.562552	1.562693931	1.563121779
48	1.562505662	1.563584396	1.564167637	1.56482976	1.566756117
49	1.565106557	1.565269383	1.565621519	1.566503471	1.570445248
50	1.566825769	1.567268202	1.56774473	1.568546849	1.572435086
51	1.567752794	1.568367856	1.568921385	1.569777152	1.57398618
52	1.570432012	1.570574777	1.570935175	1.571908282	1.575720433
53	1.571446668	1.571579282	1.571878881	1.57266802	1.576568906
54	1.573359951	1.573654787	1.574063491	1.574798093	1.577342038
55	1.575128733	1.575592596	1.576008876	1.576636069	1.579336932
56	1.576708442	1.576999733	1.577488132	1.578417141	1.581050155
57	1.57788488	1.57849027	1.578987025	1.579687818	1.582343286
58	1.57946188	1.579693506	1.579827	1.579967896	1.580259779
59	1.582315557	1.582860363	1.583235463	1.583731895	1.5856937
60	1.582963903	1.58352104	1.583947166	1.584533182	1.58680207
61	1.584435946	1.584796281	1.585188114	1.585814	1.588093467
62	1.583419202	1.586195065	1.587101755	1.587939387	1.589821418

Table-5-C10mim Tf2N

63	1.586139027	1.586642895	1.587169049	1.587949337	1.590219324
64	1.589657871	1.589848709	1.590368849	1.591241357	1.592041898
65	1.590060825	1.59115397	1.591644915	1.592133936	1.593208074
66	1.593586833	1.593601988	1.593628119	1.593688085	1.5940573
67	1.594458759	1.594657619	1.594829898	1.595065074	1.595759472
68	1.595196357	1.59588909	1.59612602	1.596350861	1.596886057
69	1.597420048	1.598128791	1.598286256	1.598383959	1.598480195
70	1.598103259	1.599546115	1.599998092	1.600361292	1.600911365



Table-6-C12mim Tf2N

TI – Tolerance Interval  $Z_{oL}:Z_{oU}$   
 DI – Interval of Typical Data  $Z_L:Z_U$   
 LEL – Local Estimate of Location  $Z_o$

Temp.[C]	[C12mim][Tf2N] [J/gK]				
	$Z_L$	$Z_{oL}$	$Z_o$	$Z_{oU}$	$Z_U$
20	1.544680955	1.545171875	1.545380017	1.545598114	1.546214357
21	1.546913332	1.547272898	1.5475016	1.547780095	1.548639463
22	1.548295347	1.548952968	1.549209646	1.54946572	1.550115908
23	1.549560399	1.550391444	1.550707209	1.55099977	1.551586583
24	1.55120648	1.551881139	1.552295718	1.552665419	1.553110146
25	1.553072426	1.55329486	1.553624543	1.554071839	1.554653306
26	1.553922019	1.554908764	1.555223832	1.555522002	1.555893307
27	1.556442013	1.556564827	1.556650725	1.556756809	1.55705597
28	1.557854147	1.558340578	1.558504927	1.558610025	1.558701293
29	1.55940717	1.559729069	1.559965452	1.560206116	1.560938684
30	1.56119045	1.561484764	1.56186015	1.562038272	1.562080412
31	1.563086571	1.563404657	1.563536462	1.563653899	1.563848921
32	1.564495851	1.564910717	1.565153887	1.565315843	1.565425615
33	1.565708952	1.566381154	1.567038304	1.567358466	1.567453058
34	1.567612392	1.56797612	1.568332973	1.568741659	1.570077076
35	1.569078573	1.569599943	1.569957512	1.57034786	1.571081672
36	1.570203149	1.570615071	1.570887	1.571241243	1.57264402
37	1.571793151	1.57227787	1.572627448	1.573062954	1.574275202
38	1.57404008	1.574099551	1.57422998	1.574561697	1.576086309
39	1.575785701	1.576027382	1.576220005	1.5764917	1.577585711
40	1.577402781	1.577495495	1.577602279	1.577783706	1.578552891
41	1.579092762	1.579436135	1.579704699	1.580051422	1.581027407
42	1.580853299	1.580937364	1.581111071	1.581483987	1.582508454
43	1.582553605	1.583038375	1.583333991	1.583687937	1.58477217
44	1.584377192	1.584398114	1.584538652	1.585192616	1.586329621
45	1.585971892	1.586291427	1.586638124	1.587083595	1.587847191
46	1.587574836	1.587834795	1.588256153	1.58893141	1.590123911
47	1.588248386	1.588635789	1.589071261	1.589617067	1.590449756
48	1.590933093	1.591138311	1.591484869	1.592063365	1.59313521
49	1.592598999	1.592900908	1.593381728	1.594069722	1.59499497
50	1.593969483	1.594558926	1.594884721	1.595263591	1.596447994
51	1.59579613	1.596553109	1.597093521	1.597524015	1.598132836
52	1.597456535	1.59777757	1.59842773	1.599106766	1.599468088
53	1.599030379	1.599475328	1.600035564	1.600366369	1.60047378
54	1.600760604	1.600840286	1.601279541	1.602084631	1.602438581
55	1.601855333	1.602352872	1.60292228	1.603490282	1.603984023
56	1.603212669	1.604086419	1.604547957	1.604936725	1.60539768
57	1.605188213	1.605404575	1.605589121	1.605866144	1.607191008
58	1.607594773	1.60840234	1.608670359	1.608911802	1.609403845
59	1.608849021	1.60940621	1.609626393	1.609855137	1.610530144
60	1.61027658	1.610462704	1.610653856	1.610958198	1.612208271
61	1.609265481	1.611800969	1.61253551	1.613151169	1.61425266
62	1.611899111	1.612569191	1.613007387	1.613636366	1.615162622

Table-6-C12mim Tf2N

63	1.615140333	1.615643408	1.616607919	1.617178466	1.617311502
64	1.615825184	1.615930759	1.616267213	1.617304081	1.620836595
65	1.618993576	1.619157537	1.61929538	1.619497269	1.620372307
66	1.619920017	1.620191531	1.620449671	1.620857084	1.6228028
67	1.621246326	1.621287682	1.621358	1.621529569	1.623392244
68	1.623362537	1.624152006	1.624442986	1.624737869	1.625582722
69	1.624336802	1.625601667	1.626126758	1.626600214	1.627412887
70	1.625023926	1.626884612	1.627405705	1.627794447	1.628313455

Table-6-C12mim Tf2N

TI – Tolerance Interval  $Z_{OL}:Z_{OU}$   
 DI – Interval of Typical Data  $Z_L:Z_U$   
 LEL – Local Estimate of Location  $Z_0$

Temp.[C]	[C12mim][Tf2N] + MWCNT (1% wt.) [J/gK]				
	$Z_L$	$Z_{OL}$	$Z_0$	$Z_{OU}$	$Z_U$
20	1.557356248	1.558230697	1.558530221	1.558817175	1.559523689
21	1.559771324	1.560424577	1.560754092	1.561047995	1.561465466
22	1.561206959	1.561866247	1.562387694	1.562744033	1.562949753
23	1.562058336	1.563100545	1.563665648	1.564076202	1.564422119
24	1.564265689	1.564525346	1.565240434	1.565774793	1.565900842
25	1.56598833	1.566210763	1.566889062	1.567483339	1.567643413
26	1.567194523	1.567603113	1.568402259	1.568922691	1.569059252
27	1.568844192	1.569173772	1.569744526	1.570057666	1.570129172
28	1.57039702	1.570547666	1.570963094	1.571517898	1.571843137
29	1.571822793	1.572327677	1.572934167	1.573381302	1.573593992
30	1.57372144	1.573867621	1.57465239	1.575235586	1.575308793
31	1.575524057	1.575752599	1.576066845	1.576375936	1.576593642
32	1.576897886	1.5770925	1.577504939	1.578026852	1.57840223
33	1.578302889	1.578582402	1.579179104	1.579730524	1.579957446
34	1.580235157	1.580570046	1.580937503	1.581265243	1.5815019
35	1.58150453	1.581759943	1.582272057	1.582921413	1.583421453
36	1.582703072	1.582904457	1.583083267	1.583355979	1.584642968
37	1.584146225	1.584457489	1.584919988	1.585598382	1.586672676
38	1.586195387	1.586275355	1.58651992	1.587174384	1.588711915
39	1.588107802	1.588250305	1.588510125	1.588973612	1.589885138
40	1.58975523	1.589807111	1.589987783	1.590473131	1.591354958
41	1.591308773	1.591545311	1.591925684	1.592498598	1.593364654
42	1.592906008	1.593284943	1.593555086	1.593895193	1.5949016
43	1.594907748	1.595428144	1.595737673	1.596077227	1.59684389
44	1.596644535	1.596963829	1.597235225	1.597556871	1.598156573
45	1.598328028	1.598922717	1.59913514	1.599341865	1.599861741
46	1.599785757	1.600407742	1.600606016	1.60078707	1.601185335
47	1.600326355	1.600755955	1.601114577	1.60151578	1.602161116
48	1.603164211	1.603608771	1.603817502	1.604021665	1.604425865
49	1.605052195	1.605085973	1.605184441	1.605489343	1.606878796
50	1.60548707	1.606451548	1.606828983	1.607220192	1.60837586
51	1.606786895	1.608744335	1.609314578	1.609786151	1.610214826
52	1.609309425	1.609669379	1.610100652	1.610618619	1.611271767
53	1.611008074	1.611705438	1.612103146	1.61237006	1.61255683
54	1.61300428	1.613571206	1.613978271	1.614319567	1.614633139
55	1.614573442	1.61487892	1.615094095	1.615365173	1.61618539
56	1.615800853	1.616708708	1.617083771	1.617410889	1.617923642
57	1.617807396	1.617936951	1.618104427	1.618397856	1.619469572
58	1.620044171	1.621035812	1.621264348	1.621427731	1.621644108
59	1.620971449	1.621515933	1.62186684	1.622241949	1.622950825
60	1.622391617	1.622713818	1.623132123	1.623682777	1.624474177
61	1.621350661	1.623951136	1.624661965	1.625233293	1.626171852
62	1.624140376	1.624508959	1.625082823	1.625934965	1.627236505

Table-6-C12mim Tf2N

63	1.627608991	1.628064696	1.628510677	1.628939281	1.629340384
64	1.627633343	1.62858434	1.629243942	1.629843011	1.630520918
65	1.631580203	1.631679465	1.631749046	1.631842117	1.6322166
66	1.632667098	1.632873657	1.633044001	1.633283413	1.634165395
67	1.633174985	1.633642339	1.633925804	1.634268619	1.635374899
68	1.635515364	1.635787963	1.636500904	1.636793059	1.636825874
69	1.63668826	1.637951777	1.63833983	1.638633549	1.639020044
70	1.637319281	1.639027083	1.639379759	1.639559003	1.639684153

Table-7-IC\_Analysis-C10mim Tf2N

**[C10mim][Tf2N] – Ion Chromatography**

No.	note	Amount (ppm)	Amount (ppm)	Amount (ppm)	Amount (ppm)
		F <sup>-</sup>	Cl <sup>-</sup>	NO <sup>-2</sup>	SO <sup>-4</sup>
[C10mim][Tf2N]_1	original sample	n.a.	4230.619	n.a.	7727.876
[C10mim][Tf2N]_2	purified sample	n.a.	2385.48	n.a.	6008.889
[C10mim][Tf2N]_3	purified sample	n.a.	1510.036	n.a.	2120.919
[C10mim][Tf2N]_pure	average of purified s	n.a.	1947.758	n.a.	4064.904

Table-7-IC\_Analysis-C10mim Tf2N

Amount (ppm)	Amount (ppm)	Amount (ppm)	Amount (ppm)	Amount (ppm)	Amount (ppm)	Amount (ppm)
Br <sup>-</sup>	NO <sup>-3</sup>	Oxa	H <sub>2</sub> PO <sub>4</sub>	Li <sup>+</sup>	Na <sup>+</sup>	NH <sub>4</sub> <sup>+</sup>
9514.973	10330.077	1425.813	n.a.	n.a.	1912.994	1071.616
933.561	3353.825	1245.087	n.a.	n.a.	637.683	394.393
395.834	2946.738	423.161	n.a.	n.a.	413.959	176.243
664.697	3150.282	834.124	n.a.	n.a.	525.821	285.318

Table-7-IC\_Analysis-C10mim Tf2N

Amount (ppm)	Amount (ppm)	Amount (ppm)
K <sup>+</sup>	Mg <sup>+</sup>	Ca <sup>+</sup>
309.841	337.307	3426.6
487.879	289.664	2428.251
323.157	93.262	890.822
405.518	191.463	1659.536