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(Ab.Rahim & Hanafi, 2007)

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%29	24	3	
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3 Way MANOVA

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1	0.45	3.21		9
2	0.54	3.00		4
3	0.61	2.93		5
4	0.54	2.86		1
5	0.50	2.82		2
6	0.61	2.71		6
7	0.55	2.70		3
8	0.50	2.65		8
9	0.61	2.1		7
	0.55	2.78		

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	1	0.69	3.23		4
	2	0.78	3.13		12
	3	0.71	3.05		1
	4	0.65	3.02		7
	5	0.67	2.93		6
	6	0.71	2.88		11
	7	0.68	2.83		13
	8	0.76	2.81		5
	9	0.73	2.78		8
	10	0.86	2.76		10
	11	0.66	2.70		9
	12	0.81	2.56		2
	13	0.70	2.55	(... )	3

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	1	0.66	3.30		14
	2	0.67	3.13		19
	3	0.68	3.04		15
	4	0.66	2.84		22
	5	0.64	2.80		21
	6	0.70	2.80	(... )	16
	7	0.75	2.80		23
	8	0.81	2.56		20
	9	0.72	2.49		17
	10	0.81	2.47		18

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(1997 ) (Lamberth, 1982)

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	1	0.77	3.05		30
	2	0.76	3.02	( )	27
	3	0.67	2.92		24
	4	0.86	2.88		34
	5	0.78	2.82		28
	6	0.72	2.68		26
	7	0.70	2.66		31
	8	0.72	2.60		32
	9	0.94	2.53		33
	10	0.71	2.38		29
	11	0.76	2.20		25

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	1	0.73	3.33		35
	2	0.64	3.03		38
	3	0.73	3.01		41
	4	0.69	2.98		36
	5	0.69	2.93		40
	6	0.69	2.91		37
	7	0.74	2.82		39

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	1	0.68	3.20		43
	2	0.82	3.15		42
	3	0.71	3.14		44
	4	0.75	2.98		49
	5	0.77	2.92		46
	6	0.85	2.84		45
	7	0.86	2.79		48
	8	0.92	2.77		51
	9	0.93	2.74		47
	10	0.86	2.73		50

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	1	0.74	3.02		52
	2	0.73	3.01		53
	3	0.75	2.88		54
	4	0.81	2.62		57
	5	0.79	2.56		55
	6	0.80	2.56		56
	7	0.76	2.42		58
	8	0.93	2.20		59

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	1	0.95	2.78		60
	2	0.90	2.48		61
	3	0.92	2.34	Word processor	62
	4	0.87	2.23		63
	5	0.84	2.13	(Data Show)	64
	6	0.87	2.08		69

	7	0.76	1.94		65
	8	0.66	1.88		66
	9	0.54	1.78		67
	10	0.64	1.68		68

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(UNESCO, 2008)

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(Lu & Mille, 2002)

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	1	0.60	2.98		75
	2	0.66	2.93		71
	3	0.60	2.80		72
	4	0.68	2.59		74
	5	0.67	2.58		73
	6	0.66	2.00		70

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	1	0.56	3.40		82
	2	0.57	3.33		76
	3	0.61	3.28		81
	4	0.67	3.23		79
	5	0.66	3.13		78
	6	0.70	3.10		80
	7	0.59	3.03		77

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.(Ab.Rahim & Hanafi, 2007)

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3-Way

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		F-Value			
0.207	1	1.38	0.885		
*0.00	2	5.098	0.458		
*0.00	2	5.489	0.436		
0.600	2	0.883	0.853		*
0.253	2	1.21	0.806		*
0.399	4	1.047	0.689		*
0.998	4	0.304	0.945		* *

$(0.05 \geq \alpha)$

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$(0.05 \geq \alpha)$

$(0.05 \geq \alpha)$

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(Univariate F- ( ) :  
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1.32	5.04	3.022	6.09	2.24	2.36	4.25	4.39	5.47		
0.660	2.52	1.51	3.05	1.12	1.18	2.13	2.19	2.73		
6.03	20.33	4.18	8.92	7.05	11.4	24.8	29.4	38.06		
2	2	2	2	2	2	2	2	2		
*0.02	*0.00	*0.02	*0.01	*0.01	*0.01	*0.00	* 0.00	*0.00		

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		( )	( )
0.00	*0.4383		
0.00	*0.6199		
0.00	*0.4383-		
0.00	*0.1816		
0.00	*0.6199-		
0.00	*0.1816-		

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2.67	4.01	1.12	4.055	7.99	6.00	7.07	4.79	4.68		
1.33	2.00	0.559	2.03	3.99	3.00	3.54	2.40	2.34		
12.19	16.17	1.55	5.94	25.2	28.9	41.2	32.1	32.56		
2	2	2	2	2	2	2	2	2		
*0.01	*0.01	0.218	*0.04	*0.00	*0.00	*0.00	*0.00	*0.00		

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0.00	*0.6182-	10-5	5
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0.00	*0.6182	5	10-5
0.980	0.0128	10	
0.00	*0.6311	5	10
0.980	0.0128	10-5	

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[ucfcmem@yahoo.fr](mailto:ucfcmem@yahoo.fr)

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