PCN Number:		2	20160216000					PCN Date:			2/17/2016
Title: Qualify Hana Thailand (HNT) as an additional Assembly & Test site for select devices							t devices				
Customer Contact: PCN Manager Dept: Quality Services											
Propose	Proposed 1 st Ship Da			5/17/2016	Estin	Estimated Sample Ava			bility: Provided upon Request		•
Change Type:											
	embly Site		Assembly Process			Assembly Materials					
Des			\square	Electrical Sp			Mechanical Specif				ication
	: Site		<u>ЦЦ</u>	Packing/Ship				Test Process			
	er Bump S		┝╧┥	Wafer Bump Material			Wafer Bump Process				
Waf	er Fab Site	5	닏ᆜ	Wafer Fab Materials				Wafer Fab Process			5
				Part number							
_				P	CN D	etails					
	<mark>tion of C</mark> h			_		1.6. 1. 6		TI ''		171	
additiona		y & Te	st site	to announce t e for the list c ows:							
	W	/hat				NFME		HN	Т		
	М	ount C	Compo	ound	SI	D# A-03	5	SID#40	00154		
test MQ.			, con	ditions will rer	main c	onsistent wit	h cu	rrent te	esting a	and v	erified with
	ty of Supp										
Anticipa	ited impa	ct on	Fit, F	orm, Functio	on, Qı	ality or Re	liabi	lity (po	ositive	e / ne	egative):
None											
Anticipated impact on Material Declaration											
No Impact to the Material Declaratio			Material Declarations or Product Content reports are driven from production data and will be available following the production release. Upon production release the revised reports can be obtained from the <u>TI ECO website</u> .					oduction			
Change	Changes to product identification resulting from this PCN:										
Assembly Site Ass		Assei	sembly Site Origin (22L		Assembly Country Cod		Code	. ,			bly City
NFME			NFM			CHN			Economic Develo Zone		one
Hana Thailand				HNT		THA		A		Ayut	thaya
Sample product shipping label (not actual product label)											

TEXAS INSTRUMENTS MADE IN: Malaysia 2DC: 20: MSL '2 /260C/1 YEAR SEA MSL 1 /235C/UNLIM 03/	(1P) SN74LSO7NSR (a) 2000 (d) 0336 (31t) Lot: 3959047MLA (4W) TKY (1T) 7523483512
1975. LBL: 5A (L)TO:1	(P) (2P) REV: (V) 0033317 (2DL) CSO: SHE (21L) CCO:USA (22L) ASO: MLA (23L) ACO: MYS

Topside Device marking: Assembly site code for NFM= E Assembly site code for HNT = H

Product Affected								
HPA01091DBVR	TLV70230DBVT	TLV70235DBVR	TLV70245DBVT					
TLV70215DBVR	TLV70231DBVR	TLV70235DBVT	TLV702475DBVR					
TLV70215DBVT	TLV70231DBVT	TLV70237DBVR	TLV702475DBVT					
TLV70218DBVR	TLV70233DBVR	TLV70237DBVT	TLV71209DBVR					
TLV70218DBVT	TLV70233DBVT	TLV70245DBVR	TLV71209DBVT					
TLV70230DBVR								



TI Information Selective Disclosure

Qualification Report

HNT AT Qualification (Qual Vehicle TLV70233DBV / RFAB/LBC7)

Product Attributes							
Attributes	Qual Device: TLV70233DBV	QBS Product Reference: TLV70212DBV	QBS Product Reference: TLV70228PDBV	QBS Product Reference: TLV70248DBV	QBS Product Reference: TLV70248PDBV	QBS Product Reference: TLV71207DBV	QBS Product Reference: TLV71207PDBV
Die Attributes		-	-	-	-	•	-
Die Revision	A	A	A	A	A	A	A
Wafer Fab Supplier	RFAB	FFAB	FFAB	FFAB	FFAB	FFAB	FFAB
Wafer Process	LBC7	LBC7	LBC7	LBC7	LBC7	LBC7	LBC7
Assembly Site	HNT	HNT	HNT	HNT	HNT	HNT	HNT
Package Family	SOT-23	SOT23	SOT23	SOT23	SOT23	SOT23	SOT23
Package Designator	DBV	DBV	DBV	DBV	DBV	DBV	DBV
Package Size (mils)	62.99 X 114.17	62.99 X 114.17	62.99 X 114.17	62.99 X 114.17	62.99 X 114.17	62.99 X 114.17	62.99 X 114.17
Body Thickness (mils)	57.09	57.09	57.09	57.09	57.09	57.09	57.09
Pin Count	5	5	5	5	5	5	5
Lead Frame Type	Cu	Cu	Cu	Cu	Cu	Cu	Cu
Lead Finish	NiPdAu	NiPdAu	NiPdAu	NiPdAu	NiPdAu	NiPdAu	NiPdAu
Lead Pitch(mils)	37.4	37.4	37.4	37.4	37.4	37.4	37.4

Qual Device TLV70233DBV is qualified at LEVEL1-260C

Qualification Results

Data Displayed as: Number of lots / Total sample size / Total failed

Туре	Test Name / Condition	Duration	Qual Device: TLV70233DBV	QBS Product Reference: TLV70212DBV	QBS Product Reference: TLV70228PDBV	QBS Product Reference: TLV70248DBV	QBS Product Reference: TLV70248PDBV	QBS Product Reference: TLV71207DBV	QBS Product Reference: TLV71207PDBV
AC	Autoclave 121C	96 Hours		-	-	•	-	-	-
ED	Electrical Characterization	Per Datasheet Parameters	1/30/0	1/10/0	1/10/0	1/10/0	1/30/0	1/10/0	1/10/0
HAST	Biased HAST, 130C/85%RH	96 Hours	3/231/0	-	-	-	-	-	-
HBM	ESD-HBM	3000 V	-	-	-	1/3/0	1/3/0	1/3/0	1/3/0
CDM	ESD-CDM	1500 V	-	-	-	1/3/0	1/3/0	1/3/0	1/3/0
HTOL	Life Test, 140C	324 Hours	-	-	-	-	-	-	-
HTOL	Life Test, 150C	300 Hours	3/231/0	-	-	-	-	-	-
HTSL	High Temp. Storage Bake, 150C	1000 Hours	3/231/0	-	-		-	-	-
LU	Latch-up	(per JESD78)	-	-	-	1/6/0	1/6/0	1/6/0	1/6/0
TC	Temperature Cycle, -65/150C	500 Cycles	3/231/0	-	-	-	-	-	-
UHAST	Unbiased HAST, 130C/85%RH	96 Hours	3/231/0	-	-	-	-	-	-
WBP	Bond Strength	Wires	3/228/0	-	-	1/76/0	1/76/0	-	-

For questions regarding this notice, e-mails can be sent to the regional contacts shown below or your local Field Sales Representative.

Location	E-Mail
USA	PCNAmericasContact@list.ti.com
Europe	PCNEuropeContact@list.ti.com
Asia Pacific	PCNAsiaContact@list.ti.com
Japan	PCNJapanContact@list.ti.com