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The manufacturer modified RFNV\_LTE\_TX\_MAX\_POWER\_BASED\_ON\_EARFCN to solve this problem. The following is a comparison chart before and after this NV modification:

28894 - RFNV_LTE_B12_TX_STATIC_DATA_I		
Decimal		
Name	Value	Type
RFNV_DATA_TYPE_LTE_TX_MAX_POWER_BASED_ON_EARFCN		RFNV_DATA_TYPE
nv_container_index	0	uint8
reserved	0	uint8
tx_upper_bound_earfcn{0-15}	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	uint32
pwr_dbm10{0-15}	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	int16

NV before modify

Name	Value	Type
RFNV_DATA_TYPE_LTE_TX_MAX_POWER_BASED_ON_EARFCN		RFNV_DATA_TYF
nv_container_index	0	uint8
reserved	0	uint8
tx_upper_bound_earfcn{0-15}	23179,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	uint32
pwr_dbm10{0-15}	-150,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	int16

NV after modify

Here is a description of this NV:

RFNV\_LTE\_TX\_MAX\_POWER\_BASED\_ON\_EARFCN

NOTE: This section was added to this document revision.

This NV item specifies the absolute maximum power that a phone can transmit based on EARFCN. Only integers are allowed as values. For example, the maximum Tx power can be specified as 23 dBm but not 23.5 dBm.

Example: Assume max Tx power NV allowed is 24 dBm below Tx channel 18190 and 26 dBm above Tx channel 18190 in band 1. Then set TX\_EARFCN[0] as 18190 and PWR\_DB10 as 240. Also, set TX\_EARFCN[1] as 18599 and PWR\_DB10 as 260.

NOTE: TX\_EARFCN must be mentioned in increasing order.

NOTE: If the last channel in the table is less than the largest allowed channel in the standard, then the last channel is set to the default of 230.

Finally, we modified the 230 in the NV configuration to -150, and the maximum emission power measured at 715.9Mhz was -15dBm, thus solving this problem, thank you