

APPENDIX I: IEEE 802.11 RU SAR EXCLUSION

I.1 IEEE 802.11ax/be RU SAR Exclusion

To make the most efficient use of the additional available subcarriers (data tones), IEEE 802.11ax/be can utilize Orthogonal Frequency-Division Multiple Access (OFDMA) which divides the existing 802.11 channels into smaller subchannels called Resource Units (RUs). Possible RU sizes are: 26T, 52T, 106T, 242T, 484T, 996T, and 996Tx2 and for WIFI 6E additionally 996Tx4.

Per FCC Guidance, 802.11ax/be was considered a higher order 802.11 mode when compared to a/b/g/n/ac to apply KDB Publication 248227 D01v02r02 for OFDM mode selection. Therefore, SAR tests were not required for 802.11ax/be based on the maximum allowed output powers of OFDM modes and the reported SAR values. Per FCC Guidance, maximum conducted powers were performed for each RU size to demonstrate that the output powers would not be higher than the other OFDM 802.11 modes.

I.2 IEEE 802.11ax/be RU Target Powers

I.2.1 2.4 GHz WLAN 802.11ax/be RU WLAN Output Power

The below table is applicable is applicable in the following conditions:

- Pmax
- DSI=0 (Body-worn, Hotspot or Phablet)

Band		IEEE 802.11ax RU (in dBm)							
		Antenna H & Antenna J - SISO				Antenna H & Antenna J in MIMO			
		26T	52T	106T	242T	26T	52T	106T	242T
2.45 GHz	Maximum	14	15	17	18	14	15	17	18
					ch. 1: 16.5 ch. 11: 16.0				ch. 1: 16.5 ch. 11: 16.0
	Nominal	13	14	16	17	13	14	16	17
					ch. 1: 15.5 ch. 11: 15.0				ch. 1: 15.5 ch. 11: 15.0

The below table is applicable is applicable in the following conditions:

- DSI=1 (RCV)

Band		IEEE 802.11ax RU (in dBm)							
		Antenna H & Antenna J - SISO				Antenna H & Antenna J in MIMO			
		26T	52T	106T	242T	26T	52T	106T	242T
2.45 GHz	Maximum	14	15	17	17	14	15	17	17
					ch. 1: 16.5 ch. 11: 16.0				ch. 1: 16.5 ch. 11: 16.0
	Nominal	13	14	16	16	13	14	16	16
					ch. 1: 15.5 ch. 11: 15.0				ch. 1: 15.5 ch. 11: 15.0

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I.2.2 5 GHz WLAN 802.11ax/be RU WLAN Output Power

The below table is applicable is applicable in the following conditions:

- Pmax

Mode	Band		IEEE 802.11ax RU (in dBm)														
			SISO							SISO in MIMO							
			Antenna H & Antenna E							Antenna H & Antenna E in MIMO							
5 GHz WiFi (20MHz BW)	Maximum	26T	52T	106T	242T	484T	996T	996T*2	26T	52T	106T	242T	484T	996T	996T*2		
		10.0	13.0	16.0	ch. 36: 18.0				10.0	13.0	16.0	ch. 36: 18.0					
		10.0	13.0	16.0	ch. 64: 18.0	15.5			10.0	13.0	16.0	ch. 64: 18.0	15.5				
		10.0	13.0	16.0	ch. 100: 18.0	15.0			10.0	13.0	16.0	ch. 100: 18.0	15.0				
		10.0	13.0	16.0	ch. 165: 18.0	17.0			10.0	13.0	16.0	ch. 165: 18.0	17.0				
		10.0	13.0	16.0	18.0				10.0	13.0	16.0	18.0					
		9.0	12.0	15.0	ch. 36: 17.0	15.0			9.0	12.0	15.0	ch. 36: 17.0	15.0				
		9.0	12.0	15.0	ch. 64: 17.0	14.5			9.0	12.0	15.0	ch. 64: 17.0	14.5				
	Nominal	9.0	12.0	15.0	ch. 100: 17.0	14.0			9.0	12.0	15.0	ch. 100: 17.0	14.0				
		9.0	12.0	15.0	ch. 165: 17.0	16.0			9.0	12.0	15.0	ch. 165: 17.0	16.0				
		9.0	12.0	15.0	17.0				9.0	12.0	15.0	17.0					
		10.0	13.0	16.0	ch. 38: 18.0	15.5			10.0	13.0	16.0	ch. 38: 18.0	15.5				
		10.0	13.0	16.0	ch. 54: 18.0	15.5	ch. 62: 14.5		10.0	13.0	16.0	ch. 54: 18.0	15.5	ch. 62: 14.5			
		10.0	13.0	16.0	ch. 102: 18.0	14.0			10.0	13.0	16.0	ch. 102: 18.0	14.0				
		10.0	13.0	16.0	ch. 159: 18.0	16.0			10.0	13.0	16.0	ch. 159: 18.0	16.0				
		10.0	13.0	16.0	ch. 175: 18.0	16.0			10.0	13.0	16.0	ch. 175: 18.0	16.0				
5 GHz WiFi (40MHz BW)	Maximum	9.0	12.0	15.0	ch. 38: 17.0	14.5			9.0	12.0	15.0	ch. 38: 17.0	14.5				
		9.0	12.0	15.0	ch. 54: 17.0	17.0			9.0	12.0	15.0	ch. 54: 17.0	17.0				
		9.0	12.0	15.0	ch. 62: 16.0	13.5			9.0	12.0	15.0	ch. 62: 16.0	13.5				
		9.0	12.0	15.0	ch. 102: 17.0	13.0			9.0	12.0	15.0	ch. 102: 17.0	13.0				
	Nominal	9.0	12.0	15.0	ch. 159: 17.0	15.0			9.0	12.0	15.0	ch. 159: 17.0	15.0				
		9.0	12.0	15.0	ch. 175: 17.0	15.0			9.0	12.0	15.0	ch. 175: 17.0	15.0				
		10.0	13.0	16.0	ch. 106: 15.5	13.5			10.0	13.0	16.0	ch. 106: 15.5	13.5				
		10.0	13.0	16.0	ch. 106: 15.0	12.5			10.0	13.0	16.0	ch. 106: 15.0	12.5				
5 GHz WiFi (80MHz BW)	Maximum	10.0	13.0	16.0	15.5	15.5	15.5	14.0	10.0	13.0	16.0	15.5	15.5	15.5	14.0		
		10.0	13.0	16.0	18.0				10.0	13.0	16.0	18.0					
		10.0	13.0	16.0	ch. 106: 16.0	14.0	ch. 106: 14.0	ch. 106: 13.5		10.0	13.0	16.0	ch. 106: 16.0	14.0	ch. 106: 13.5		
		10.0	13.0	16.0	17.0	16.0	17.0		10.0	13.0	16.0	17.0	16.0	17.0			
	Nominal	9.0	12.0	15.0	15.0	14.5	14.5	16.0		9.0	12.0	15.0	14.5	14.5	14.5		
		9.0	12.0	15.0	14.5	14.5	14.5	17.0		9.0	12.0	15.0	14.5	14.5	14.5		
		9.0	12.0	15.0	17.0	17.0				9.0	12.0	15.0	17.0	17.0			
		9.0	12.0	15.0	ch. 106: 15.0	14.0	ch. 106: 14.0	ch. 106: 13.0	ch. 106: 12.5		9.0	12.0	15.0	ch. 106: 15.0	14.0	ch. 106: 12.5	
5 GHz WiFi (160MHz BW)	Maximum	10.0	13.0	16.0	15.5	15.5	15.5	14.0	10.0	13.0	16.0	15.5	15.5	15.5	14.0		
		10.0	13.0	16.0	15.0	14.0	13.5	12.0		10.0	13.0	16.0	15.0	14.0	13.5		
		10.0	13.0	16.0	17.0	16.0	14.5	14.5	16.0		10.0	13.0	16.0	17.0	16.0	14.5	
		9.0	12.0	15.0	14.5	14.5	14.5	13.0		9.0	12.0	15.0	14.5	14.5	13.0		
	Nominal	9.0	12.0	15.0	14.0	13.0	12.5	11.0		9.0	12.0	14.0	14.0	13.0	12.5		
		9.0	12.0	15.0	16.0	15.0	15.5	13.5		9.0	12.0	15.0	16.0	15.0	15.5		
		9.0	12.0	15.0	16.0	15.0	15.5	13.5		9.0	12.0	15.0	16.0	15.0	15.5		
		9.0	12.0	15.0	16.0	15.0	15.5	13.5		9.0	12.0	15.0	16.0	15.0	15.5		

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The below table is applicable is applicable in the following conditions:

- DSI=0 (Body-worn, Hotspot or Phablet)
- DSI=1 (Head)

Mode	Band		IEEE 802.11ax RU (in dBm)														
			SISO						SISO in MIMO								
			Antenna H & Antenna E						Antenna H & Antenna E in MIMO								
			26T	52T	106T	242T	484T	996T	996T*2	26T	52T	106T	242T	484T	996T	996T*2	
5 GHz WiFi (20MHz BW)	UNII-1	Maximum	10.0	13.0	16.0	16.0				10.0	13.0	16.0	16.0				
	UNII-2A		10.0	13.0	16.0	16.0	ch. 64	15.5		10.0	13.0	16.0	16.0	ch. 64	15.5		
	UNII-2C		10.0	13.0	16.0	16.0	ch. 100	15.0	ch. 100	15.5	10.0	13.0	16.0	16.0	ch. 100	15.5	
	UNII-3		10.0	13.0	16.0	16.0				10.0	13.0	16.0	16.0				
	UNII-4	Nominal	10.0	13.0	16.0	16.0				10.0	13.0	16.0	16.0				
	UNII-1		9.0	12.0	15.0	15.0				9.0	12.0	15.0	15.0				
	UNII-2A		9.0	12.0	15.0	15.0	ch. 64	14.5		9.0	12.0	15.0	15.0	ch. 64	14.5		
	UNII-2C		9.0	12.0	15.0	15.0	ch. 100	14.0	ch. 100	14.5	9.0	12.0	15.0	15.0	ch. 100	14.5	
	UNII-3		9.0	12.0	15.0	15.0				9.0	12.0	15.0	15.0				
	UNII-4		9.0	12.0	15.0	15.0				9.0	12.0	15.0	15.0				
5 GHz WiFi (40MHz BW)	UNII-1	Maximum	10.0	13.0	16.0	16.0	16.0	ch. 38: 15.5		10.0	13.0	16.0	16.0	16.0	ch. 38: 15.5		
	UNII-2A		10.0	13.0	16.0	16.0	ch. 62: 15.5	ch. 62: 14.5		10.0	13.0	16.0	16.0	ch. 62: 15.5	ch. 62: 15.5		
	UNII-2C		10.0	13.0	16.0	16.0	ch. 102: 15.0	ch. 102: 15.0	ch. 102: 14.0	10.0	13.0	16.0	16.0	ch. 102: 15.5	ch. 102: 15.5	ch. 102: 15.5	
	UNII-3		10.0	13.0	16.0	16.0				10.0	13.0	16.0	16.0				
	UNII-4	Nominal	10.0	13.0	16.0	16.0	16.0	16.0		10.0	13.0	16.0	16.0	16.0	16.0		
	UNII-1		9.0	12.0	15.0	15.0	15.0	ch. 38: 14.5		9.0	12.0	15.0	15.0	15.0	ch. 38: 14.5		
	UNII-2A		9.0	12.0	15.0	15.0	15.0	15.0	ch. 62: 14.5	ch. 62: 13.5	9.0	12.0	15.0	15.0	15.0	ch. 62: 14.5	ch. 62: 14.5
	UNII-2C		9.0	12.0	15.0	15.0	15.0	15.0	ch. 102: 14.0	ch. 102: 13.0	9.0	12.0	15.0	15.0	15.0	ch. 102: 14.5	ch. 102: 14.5
	UNII-3		9.0	12.0	15.0	15.0	15.0	15.0		9.0	12.0	15.0	15.0	15.0			
	UNII-4		9.0	12.0	15.0	15.0	15.0	15.0		9.0	12.0	15.0	15.0	15.0			
5 GHz WiFi (80MHz BW)	UNII-1	Maximum	10.0	13.0	16.0	16.0	15.5	15.5	15.5	10.0	13.0	16.0	16.0	15.5	15.5	15.5	
	UNII-2A		10.0	13.0	16.0	16.0	15.5	15.5	15.5	10.0	13.0	16.0	16.0	15.5	15.5	15.5	
	UNII-2C		10.0	13.0	16.0	16.0	16.0	16.0	16.0	10.0	13.0	16.0	16.0	16.0	16.0	16.0	
	UNII-3		10.0	13.0	16.0	16.0	16.0	16.0	16.0	10.0	13.0	16.0	16.0	16.0	16.0	16.0	
	UNII-4	Nominal	10.0	13.0	16.0	16.0	16.0	16.0	16.0	10.0	13.0	16.0	16.0	16.0	16.0	16.0	
	UNII-1		9.0	12.0	15.0	15.0	14.5	14.5	14.5	9.0	12.0	15.0	15.0	14.5	14.5	14.5	
	UNII-2A		9.0	12.0	15.0	15.0	15.0	15.0	15.0	9.0	12.0	15.0	15.0	15.0	15.0	15.0	
	UNII-2C		9.0	12.0	15.0	15.0	15.0	15.0	15.0	ch. 106: 12.5	9.0	12.0	15.0	15.0	15.0	15.0	ch. 106: 12.5
	UNII-3		9.0	12.0	15.0	15.0	15.0	15.0	15.0		9.0	12.0	15.0	15.0	15.0	15.0	
	UNII-4		9.0	12.0	15.0	15.0	15.0	15.0	15.0		9.0	12.0	15.0	15.0	15.0	15.0	
5 GHz WiFi (160MHz BW)	UNII-1/2A	Maximum	10.0	13.0	16.0	15.5	15.5	15.5	14.0	10.0	13.0	16.0	15.5	15.5	15.5	14.0	
	UNII-2C		10.0	13.0	15.0	15.0	14.0	13.5	12.0	10.0	13.0	15.0	15.0	14.0	13.5	12.0	
	UNII-3/4	Nominal	10.0	13.0	16.0	16.0	16.0	14.5	14.5	10.0	13.0	16.0	16.0	16.0	16.0	14.5	
	UNII-1/2A		9.0	12.0	15.0	14.5	14.5	14.5	13.0	9.0	12.0	15.0	14.5	14.5	14.5	13.0	
	UNII-2C		9.0	12.0	14.0	14.0	13.0	12.5	11.0	9.0	12.0	14.0	14.0	13.0	12.5	11.0	
	UNII-3/4		9.0	12.0	15.0	15.0	15.0	15.0	13.5	9.0	12.0	15.0	15.0	15.0	15.0	13.5	

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I.2.3 6 GHz WLAN Maximum 802.11ax/be RU WLAN Output Power

The below table is applicable is applicable in the following conditions:

- Pmax, DSI = 1 (Head)

Mode	Band		IEEE 802.11ax RU (in dBm)																
			SISO								SISO in MIMO								
			Antenna H & Antenna E								Antenna H & Antenna E in MIMO								
			26T	52T	106T	242T	484T	996T	996T*2	996T*4	26T	52T	106T	242T	484T	996T	996T*2	996T*4	
6 GHz WFI (20MHz BW) - LPI	LNI#5	Maximum	0.0	3.0	6.0	10.0						0.0	3.0	6.0	10.0				
						ch 2.7/9								ch 2.7/9					
			0.0	3.0	6.0	10.0					0.0	3.0	6.0	10.0					
			0.0	3.0	6.0	10.0					0.0	3.0	6.0	10.0					
	LNI#6	Maximum	0.0	3.0	6.0	10.0						0.0	3.0	6.0	10.0				
						ch 2.6/8								ch 2.6/8					
			-1.0	2.0	5.0	9.0					-1.0	2.0	5.0	9.0					
			-1.0	2.0	5.0	9.0					-1.0	2.0	5.0	9.0					
6 GHz WFI (40MHz BW) - LPI	LNI#6	Maximum	0.0	3.0	6.0	10.0	13.0	16.0				0.0	3.0	6.0	10.0	13.0	16.0		
						ch 2.6/8								ch 2.6/8					
			0.0	3.0	6.0	10.0	13.0	16.0			0.0	3.0	6.0	10.0	13.0	16.0			
			0.0	3.0	6.0	10.0	13.0	16.0			0.0	3.0	6.0	10.0	13.0	16.0			
	LNI#7	Maximum	0.0	3.0	6.0	10.0	13.0	16.0				0.0	3.0	6.0	10.0	13.0	16.0		
						ch 2.6/8								ch 2.6/8					
			-1.0	2.0	5.0	9.0	12.0	15.0			-1.0	2.0	5.0	9.0	12.0	15.0			
			-1.0	2.0	5.0	9.0	12.0	15.0			-1.0	2.0	5.0	9.0	12.0	15.0			
6 GHz WFI (80MHz BW) - LPI	LNI#8	Maximum	0.0	3.0	6.0	10.0	13.0	16.0	15.0			0.0	3.0	6.0	10.0	13.0	16.0	15.0	
						ch 2.6/8								ch 2.6/8					
			0.0	3.0	6.0	10.0	13.0	16.0	15.0			0.0	3.0	6.0	10.0	13.0	16.0	15.0	
			0.0	3.0	6.0	10.0	13.0	16.0	15.0			0.0	3.0	6.0	10.0	13.0	16.0	15.0	
	LNI#9	Maximum	0.0	3.0	6.0	10.0	13.0	16.0	15.0			0.0	3.0	6.0	10.0	13.0	16.0	15.0	
						ch 2.6/8								ch 2.6/8					
			-1.0	2.0	5.0	9.0	12.0	15.0	14.0			-1.0	2.0	5.0	9.0	12.0	15.0	14.0	
			-1.0	2.0	5.0	9.0	12.0	15.0	14.0			-1.0	2.0	5.0	9.0	12.0	15.0	14.0	
6 GHz WFI (160MHz BW) - SP	LNI#9	Maximum	14.0	14.0	14.0	17.0	17.0	17.0				14.0	14.0	14.0	17.0	17.0	17.0		
						ch 2.7/9								ch 2.7/9					
			13.0	13.0	13.0	16.0	16.0	16.0			13.0	13.0	13.0	16.0	16.0	16.0			
			13.0	13.0	13.0	16.0	16.0	16.0			13.0	13.0	13.0	16.0	16.0	16.0			
	LNI#10	Maximum	14.0	14.0	14.0	17.0	17.0	17.0				14.0	14.0	14.0	17.0	17.0	17.0		
						ch 2.7/9								ch 2.7/9					
			13.0	13.0	13.0	16.0	16.0	16.0			13.0	13.0	13.0	16.0	16.0	16.0			
			13.0	13.0	13.0	16.0	16.0	16.0			13.0	13.0	13.0	16.0	16.0	16.0			
6 GHz WFI (320MHz BW) - SP	LNI#10	Maximum	14.0	14.0	14.0	17.0	17.0	17.0				14.0	14.0	14.0	17.0	17.0	17.0		
						ch 2.7/9								ch 2.7/9					
			13.0	13.0	13.0	16.0	16.0	16.0			13.0	13.0	13.0	16.0	16.0	16.0			
			13.0	13.0	13.0	16.0	16.0	16.0			13.0	13.0	13.0	16.0	16.0	16.0			
	LNI#11	Maximum	14.0	14.0	14.0	17.0	17.0	17.0				14.0	14.0	14.0	17.0	17.0	17.0		
						ch 2.7/9								ch 2.7/9					
			13.0	13.0	13.0	16.0	16.0	16.0			13.0	13.0	13.0	16.0	16.0	16.0			
			13.0	13.0	13.0	16.0	16.0	16.0			13.0	13.0	13.0	16.0	16.0	16.0			
6 GHz WFI (60MHz BW) - SP	LNI#11	Maximum	14.0	14.0	14.0	17.0	17.0	17.0				14.0	14.0	14.0	17.0	17.0	17.0		
						ch 2.7/9								ch 2.7/9					
			13.0	13.0	13.0	16.0	16.0	16.0			13.0	13.0	13.0	16.0	16.0	16.0			
			13.0	13.0	13.0	16.0	16.0	16.0			13.0	13.0	13.0	16.0	16.0	16.0			
	LNI#12	Maximum	14.0	14.0	14.0	17.0	17.0	17.0				14.0	14.0	14.0	17.0	17.0	17.0		
						ch 2.7/9								ch 2.7/9					
			13.0	13.0	13.0	16.0	16.0	16.0			13.0	13.0	13.0	16.0	16.0	16.0			
			13.0	13.0	13.0	16.0	16.0	16.0			13.0	13.0	13.0	16.0	16.0	16.0			
6 GHz WFI (120MHz BW) - SP	LNI#12	Maximum	14.0	14.0	14.0	17.0	17.0	17.0				14.0	14.0	14.0	17.0	17.0	17.0		
						ch 2.7/9								ch 2.7/9					
			13.0	13.0	13.0	16.0	16.0	16.0			13.0	13.0	13.0	16.0	16.0	16.0			
			13.0	13.0	13.0	16.0	16.0	16.0			13.0	13.0	13.0	16.0	16.0	16.0			
	LNI#13	Maximum	14.0	14.0	14.0	17.0	17.0	17.0				14.0	14.0	14.0	17.0	17.0	17.0		
						ch 2.7/9								ch 2.7/9					
			13.0	13.0	13.0	16.0	16.0	16.0			13.0	13.0	13.0	16.0	16.0	16.0			
			13.0	13.0	13.0	16.0	16.0	16.0			13.0	13.0	13.0	16.0	16.0	16.0			
6 GHz WFI (240MHz BW) - VLP	LNI#13	Maximum	-4.0	-1.0	2.0	6.0	9.0				-4.0	-1.0	2.0	6.0	9.0				
						ch 2.6/8								ch 2.6/8					
			-4.0	-1.0	2.0	6.0	9.0				-4.0	-1.0	2.0	6.0	9.0				
			-4.0	-1.0	2.0	6.0	9.0				-4.0	-1.0	2.0	6.0	9.0				
	LNI#14	Maximum	-4.0	-1.0	2.0	6.0	9.0				-4.0	-1.0	2.0	6.0	9.0				
						ch 2.6/8								ch 2.6/8					
			-4.0	-1.0	2.0	6.0	9.0				-4.0	-1.0	2.0	6.0	9.0				
			-4.0	-1.0	2.0	6.0	9.0				-4.0	-1.0	2.0	6.0	9.0				
6 GHz WFI (480MHz BW) - VLP	LNI#14	Maximum	-4.0	-1.0	2.0	6.0	9.0				-4.0	-1.0	2.0	6.0	9.0				
						ch 2.6/8								ch 2.6/8					
			-4.0	-1.0	2.0	6.0	9.0				-4.0	-1.0	2.0	6.0	9.0				
			-4.0	-1.0	2.0	6.0	9.0				-4.0	-1.0	2.0	6.0	9.0				
	LNI#15	Maximum	-4.0	-1.0	2.0	6.0	9.0				-4.0	-1.0	2.0	6.0	9.0				
						ch 2.6/8								ch 2.6/8					
			-4.0	-1.0	2.0	6.0	9.0				-4.0	-1.0	2.0	6.0	9.0				
			-4.0	-1.0	2.0	6.0	9.0				-4.0	-1.0	2.0	6.0	9.0				
6 GHz WFI (960MHz BW) - VLP	LNI#15	Maximum	-4.0	-1.0	2.0	6.0	9.0				-4.0	-1.0	2.0	6.0	9.0				
						ch 2.6/8								ch 2.6/8					
			-4.0	-1.0	2.0	6.0	9.0				-4.0	-1.0	2.0	6.0	9.0				
			-4.0	-1.0	2.0	6.0	9.0				-4.0	-1.0	2.0	6.0	9.0				
	LNI#16	Maximum	-4.0	-1.0	2.0	6.0	9.0				-4.0	-1.0	2.0	6.0	9.0				
						ch 2.6/8								ch 2.6/8					
			-4.0	-1.0	2.0	6.0	9.0				-4.0	-1.0	2.0	6.0	9.0				
			-4.0	-1.0	2.0	6.0	9.0				-4.0	-1.0	2.0	6.0	9.0				
6 GHz WFI (1920MHz BW) - VLP	LNI#16	Maximum	-4.0	-1.0	2.0	6.0	9.0				-4.0	-1.0	2.0	6.0	9.0				
						ch 2.6/8								ch 2.6/8					
			-4.0	-1.0	2.0	6.0	9.0				-4.0	-1.0	2.0	6.0	9.0				
			-4.0	-1.0	2.0	6.0	9.0				-4.0	-1.0	2.0	6.0	9.0				
	LNI#17	Maximum	-4.0	-1.0	2.0	6.0	9.0				-4.0	-1.0	2.0	6.0	9.0				
						ch 2.6/8								ch 2.6/8					
			-4.0	-1.0	2.0	6.0	9.0				-4.0	-1.0	2.0	6.0	9.0				
			-4.0	-1.0	2.0	6.0	9.0				-4.0	-1.0	2.0	6.0	9.0				