II-6 Band	1103 (U-N	Chain 1 / C	(HE80)_	802.11ax (5 Band)	5 (U-NII	0 / CH5)_Chain	(HE80)	02.11ax	8
Marker 1 [T1] -21.41 dE 6 42338 GI	iz [T1] MP VIEW iz Is	RBW VBW SWT	Att 20 dB	Ref 21.5 dBm	Marker 1 [T1] -21.99 dBm 6 18296 GHz	[T1] MP VIEW	RBW 1 MHz VBW 3 MHz SWT 20 ms	3	Att 20 dE	Ref 21.5 dBm	
Delta 2 [T1]				Offset 11.5 dB	Detta 2 [T1] 0.00 dB					Offset 11.5 dB	21.5
-		Hand Mark Marken		10 - D1 4 58 dBm	00.00 mm2			delibited annual a		D1 4.00 dBm	10
-				0-							0
-				-10-			2				-10
-				-20 - D2 -21.42 dBm						D2 -22 00 dBm	-20
-				-30 -							-30
-	manananan	home	denor deserved and	-40-		mannakkan	parament		endowed	and the second	-40-
-				-50 -							-50
-				-60 -	(UVP)						-60
E Yol					150 6 54						
		F2	F	-70			2	F1 I	F		-70
	I I Span 400 MH	40 MHz/	F	-70 - 78.5 - 1 I Center 6 465 GHz		Span 400 MHz	2	F1 1 40 MHz/	F	I I	-70- 78.5-
	Span 400 MH	F2 40 MHz/		-70 - 78.5		Span 400 MHz		40 MHz/	(11500)	i i center 6.225 GHz	-70-
UREAU VERITAS	Span 400 MF	^{F2} 40 MHz/ Chain 1 / C	(HE80)_	-70- 78.5- Center 6.465 GHz	-7 Band)	Span 400 MHz 7 (U-NII	2 / CH16	40 MHz/	(HE80)	enter 6.225 GHz	-70- 78.5- (0
II-8 Band	Span 400 MH 1215 (U-N 12 12 13 14 15 15 10 10 10 10 10 10 10 10 10 10	40 MHz/ Chain 1 / C RBW VBW SWT:	F (HE80)_ Att 20 dB	-70 78.5 Center 6.465 GHz 802.11ax (••••••••••••••••••••••••••••••••••••••	Span 400 MHz 7 (U-NII [T1] MP VIEW	2 2 / CH16 RBW 1 MHz VBW 3 MHz SWT 20 ms	40 MHz/ Chain 2	(HE80)	enter 6.225 GHz	-70- 78.5- (0 80
z UIII A UIIII A UIIIII A UIIIIII A UIIIIIII A UIIIIIIII	Span 400 MF 1215 (U-N iz [T1] MP VEW iz is	40 MHz/ Chain 1 / C RBW VBW SWT	F (HE80)_ Att 20 dB	770- 78.5- Center 6.485 GHz 802.11ax (21.5- Ref 21.5 dBm Offset 11.5 dB	-7 Band) Marker 1 [11] -20.57 dBm 6.74302 GHz Deta 2 [17]	Span 400 MH2 7 (U-NII [T1] MP VIEW	2 2 / CH16 RBW 1 MHz VBW 3 MHz SWT 20 ms	40 MHz/ Chain 2	(HE80) Att 20 de	Center 6 225 GHz	-70 78.5 80 21.5
z UPREAT	Span 400 MH 1215 (U-N 12 12 12 13 14 15 15 10 10 10 10 10 10 10 10 10 10	40 MHz/ 40 MHz/ Chain 1 / C RBW VBW SWT:	F (HE80)_ Att 20 dB	770 78.5 Center 6.485 GHz 802.11ax (07fset 11.5 dBm 10 11.7 yfs.dtim	-7 Band) Marter 1 [71] -2.57 dBm 6.74302 GHz Deta 2 [71] 0.00 dB 83.65 MHz	Span 400 MH2 7 (U-NII [T1] MP VEW	2 / CH16 RBW 1 MHz VBW 3 MHz SWT 20 ms	40 MHz/ 	f (HE80) Att 20 de	Center 6.225 GHz	-70- 78.5- 21.5- 10-
Durate A U VIII VAS Marker 1 [71] -16 03 dB 6.98319 GH 2 Delta 2 [71] 0.00 d 83.55 MH	Span 400 MH 1215 (U-N 12 12 12 12 12 15 19 19 19 19 19 10 10 10 10 10 10 10 10 10 10	40 MHz/ 40 MHz/ Chain 1 / C RBW VBW SWT: 2000	F (HE80)_ Att 20 dB	70 78.5 Center 6.465 GHz 802.11ax (21.5 Ref 21.5 dBm 0 0 0 0 0 0	-7 Band) Marker 1 [11] 20.57 dBm 6.74302 GHz Deta 2 [11] 0.00 dB 83.65 MHz	Span 400 MH2 7 (U-NII [T1] MP VEW	2 / CH16 RBW1 MHz VBW3 MHz SWT 20 ms	40 MH2/ _Chain :	(HE80) (HE80)	Lenter 6 225 GHz	-70- 78.5- (0 21.5- 10- 0-
Marter 1 [71] -160 3 db 6.95319 GH 0 00 0 5.355 Mm	Span 400 MP 1215 (U-N Iz [T1] MP VEW s	د به	F (HE80)_ Att 20 dB	70 - Center 6 465 GHz Red 2.1 5 dBm 215 - Ref 21.5 dBm 10 - 117 J90 dHm 0	-7 Band) Market 1 [11] 6.74302 OHz Deta 2 [71] 0.00 dB 8.865 MHz	Span 400 MHz 7 (U-NII [T1] MP VEW	2 / CH16 RBW 1 MHz VBW 3 MHz SWT 20 ms	40 MH2/ _Chain 2	(HE80)	Center 6.225 GHz	-70- 78.5- (80 10- 0- -10-
The second secon	Span 400 M ¹ 1215 (U-N iz (T1) M ³ VEW iz s	ED 40 MHz/ Chain 1 / C RBW VBW SWF: 20-49-09-06-00-00-00-00-00-00-00-00-00-00-00-00-	F (HE80)_ All 20 dB	70	-7 Band) Marier 1 [[1] 0.732 GHz 6.7432 GHz Defa 2 [1] 0.00 dB 6.8.65 MHz	Span 400 МН2 7 (U-NII [Т1] МР ∨ЕW	2 / CH16 RBW 1 MHz VBW 3 MHz SWT 20 ms	40 MHz/ _Chain :	н н 20 dE	Image: 1 Image: 1 Image: 2 GHz	-70
Z UNDER AND CONTRACT OF CONTRA	Span 400 M ⁺ 1215 (U-N 12 (T1) MP VEW 12 5	دور به مربع به مرب مربع به مربع به مرب مربع به مربع مربع مربع مربع مربع مربع مربع مربع	F (HE80)_ All 20 dB	70	Contraction Contracti	Span 400 MHz 7 (U-NII [T1] MP VEW	2 / CH16 RBW 1 MHz VBW 3 MHz SWT 20 ms	40 MHz/ Chain 2	(HE80) Att 20 de	Contenter 6 225 GHz Contenter 6 225 GHz	-70- 78.5- (80 10- -10- -20- -30-
Anter 1 [T] 0.00 0 0.00 2 0 0.00 0	Span 400 MP 1215 (U-N 12 12 17 19 MP VEW 15 15 16 17 19 MP VEW 15 16 16 16 16 16 16 16 16 16 16		F (HE80)_ All 20 45	70 72 78 78 78 78 78 78 78 78 78 78	Contraction Contracti	Span 400 MHz 7 (U-NII [T1] MP VEW	2 / CH16 RBW 1 MHz VBW 3 MHz SWT 20 ms	40 MHz/ Chain 2	н (НЕ80) Ал 20 de	Lenter 6 225 GHz	-70 78.5- (221.5- -10 -20 -30 -40-
Z UNDERAD	Span 400 MP 1215 (U-N 12 [F1] MP VEW 15 15 15 15 15 15 15 15 15 15	EP 40 MHz/ Chain 1 / C Rew Yew SWT	F (HE80)_ At 20 d9	70 72 72 75 75 75 75 75 75 75 75 75 75	Control of the second sec	5рап 400 МНЭ 7 (U-NII [T1] MP VEW	2 / CH16 RBW 1 MHz VBW 3 MH2 SWT 20 ms	40 MHz/ 	н (НЕ80) Ал 20 ф	Lenter 6 225 GHz	-707078.5(0) 78.5(0) 221.57070707070707070707
Marter 1 (11) 0.00 db 0.00 d	Span 400 MP 1215 (U-N 12 12 12 12 12 14 14 15 14 14 14 14 14 14 14 14 14 14	AD MH2/ Chain 1 / C Rew Very SWT: Chain 2 / C Chain 2 / C Very SWT: Chain 2 / C	F (HE80)_ At 20 dB	70	Anter I [17] 6.7.952 dist 0.7.952 dist 0.7.952 dist 0.0.955 dist 0.7.952 dist 0.0.955 dist 0.0.955 dist 0.7.955 dist 0.7.9555 dist 0.7.9555 dist 0.7.955 dist	Span 400 MH2 7 (U-NII [T] MP VEW (T] MP VEW	2 2 2 2 2 2 2 2 2 2 2 2 2 2	40 MHz/ Chain 2	(HE80) All 20 de	Lenter 6 225 GHz	-70- 78.5 (() 221.5 1 10- -10- -20- -30- -40- -50- -60-



					Oper								
8	02.11ax	(HE160)_Chain	1 / CH7	79 (U-NI	I-5 Band)	80	2.11ax	(HE160)	_Chain	2 / CH1	11 (U-	NII-6 Ba
21.5 -	Ref 21.5 dBm	Att 20 dB		RBW 3 MHz VBW 10 MHz SWT 20 ms	[T1] MP VIEW	Marker 1 [T1] -17.21 dBm 6.26093 GHz	21.5-	Ref 21.5 dBm	Att 20 dB		RBW 3 MHz VBW 10 MHz SWT 20 ms	[T1] MP VIEV	V Marker 1 [T1] -15. 6.420
-	Offset 11.5 dB					Delta 2 [T1] 0.00 dB	-	Offset 11.5 dB					Delta 2 [T1]
10-	D1 8.79 dBm		mandrawith			168.88 MHz	10-	D1 10 51 dBm		WWWW Vounter			168.
0-			<u>ر م</u>				0-						
-													
-10-						-	-10 -	D2 -15 49 dBm			2		
-20-	D2 -17.22 dBm					-	-20 -	02 12 42 0011					
									1				
-30-						1	-30 -		appendent		Lunder		
-40-	where man and and	and the state of the		programment and	remanue bladded	-	-40 -	and marked and	Summer .		- Mart	withours	Malana
-50 -						1	-50-						
-60 -						-	-60 -						
-70-		F				(iii 💥 iii)	-70-		F		2		- E 202
				¥									L'AUS
-78.5 -	Center 6.345 GHz	1	80 MHz/	1	I I Span 800 MH	BUREAU Z VERITAS	-78.5 -	Center 6.505 GHz	1 1	80 MHz/	I I	I I Span 800	
.78.5 -	Center 6.345 GHz	HE160)	⁸⁰ MHz/	2 / CH1	Span 800 MH	II-7 Band)	-78.5- 80	Center 6.505 GHz	(HE160)	^{80 MHz/}	3 / CH2	Span 800	-NII-8 Ba
80	Center 6.345 GHz	(HE160)	^{80 MHz/}	r 2 / CH1 RBW 3 MHz VBW 10 MHz SWT 20 ms	Span 800 MH 43 (U-N [T1] NP VIEW	II-7 Band)	-78.5- 80	Center 6.505 GHz	(HE160)	⁸⁰ MHz/ _Chain	3 / CH2 RBW 3 MHz VBW 10 MHz SWT 20 ms	Span 800 207 (U- [T1] MP VIEV	-NII-8 Ba
21.5 <u>-</u>	Center 6.345 GHz	(HE160) Att 20 dB	^{80 MHz/}	2 / CH1 RBW 3 MHz VBW 10 MHz SWT 20 ms	Span 800 MH 43 (U-N [T1] MP VIEW	z VERTAS II-7 Band) Marker 1 [T1] -16.74 dBm 6.55048 GHz Deta 2 [T1]	-78.5- 80 21.5	Center 6.505 GHz 2.11ax Ref 21.5 dBm Offset 11.5 dB	(HE160)	so MHz/ _Chain	3 / CH2 RBW 3 MHz VBW 10 MHz SWT 20 ms	Span 800	•NII-8 Ba
78.5- 80 21.5 <u>-</u> 10-	Center 6.345 GHz Center	(HE160) Att 20 dB	^{80 MHz/}	2 / CH1 RBW 3 MHz VBW 10 MHz SWT 20 ms	Span 800 MH 43 (U-N [T1] NP VIEW	z VERTAS II-7 Band) Marker 1 [T1] -16.74 dBm 6.58048 GHz Deta 2 [T1] 0.00 dB 169.35 MHz	-78.5- 80 21.5 <u>-</u> 10-	Center 6.505 GHz 2.11ax Ref 21.5 dBm Offset 11.5 dB D1 12.91 dBm	(HE160)	So MHZ/	3 / CH2 RBW 3 MHz VBW 10 MHz SWT 20 ms	Span 800	•NII-8 Ba •NII-8
-78.5 - 80 21.5 <u>-</u> 10 -	Center 6.345 GHz	(HE160) Att 20 dB	80 MHz/	2 / CH1 RBW 3 MHz VBW 10 MHz SWT 20 ms	Span 800 MH 43 (U-N [T1] MP VIEW	II-7 Band) Marker 1 [[1] -16.74 dBm 6.58048 GHz Defta 2 [11] 0.00 dB 169.35 MHz	-78.5- 80 21.5 <u>-</u> 10-	Center 6.505 GHz 2.11ax Ref 21.5 dBm OTfset 11.5 dB D1 12.91 dBm	(HE160)	⁸⁰ MHz/ _Chain	3 / CH2 RBW 3 MHz VBW 10 MHz SWT 20 ms	Span 800	•NII-8 Ba •NII-8 Ba •NII-8 I [11] •-13 6.901 Delta 2 [11] 167.
-78.5 - 80 21.5 <u>-</u> 10 - 0 -	Center 6.345 GHz Center	(HE160) Att 20 dB	80 MHz/	2 / CH1 RBW 3 MHz VBW 10 MHz SWT 20 ms	Span 800 MH 43 (U-N [T1] MP VEW	II-7 Band) Marker 1 [71] -6.74 dBm 65.0948 OHz Defa 2 [71] 0.00 dB 169.35 MHz	-78.5- 80 21.5- 10- 0-	Center 6.505 GHz 2.11ax (Ref 21.5 dBm Offset 11.5 dB D1 12.91 dBm	(HE160)	⁸⁰ MHz/ _Chain	3 / CH2 RBW 3 MHz VBW 10 MHz SWT 20 ms	Span 800	•NII-8 Ba •NII-8 Ba •NII-8 Data 2 [71] Deta 2 [71] 167.
-78.5 - 80 21.5 - 10 - 0 - -10 -	Center 6.345 OHz Center	(HE160) Att 20 dB	Chain	2 / CH1 RBW 3 MHz VBW 10 MHz SWT 20 ms	Span 800 MH 43 (U-N [T1] MP VIEW	II-7 Band) Marker 1 [71] 0.00 dB 0.00 dB 169.35 MHz	-78.5 - 80 21.5 - 10 - 0 - -10 -	Center 6.505 GHz 2.11ax (Ref 21.5 dBm Offset 11.5 dB D112.91 dBm	(HE160)	so MH2/ _Chain	3 / CH2 RBW 3 MHz VBW 10 MHz SWT 20 ms	Span 800	Marker 1 [71] Marker 2 [71] Deta 2 [71] Deta 2 [71] 167
78.5- 80 21.5 - 10- 0- -10-	Center 6.345 OHz Center	HE160)	Chain	2 / CH1 RBW 3 MH2 VBW 10 MH2 SWT 20 ms	Span 800 MH 43 (U-N [T1] MP VIEW	II-7 Band) Marker 1 [11] 6 59046 GHz Defa 2 [11] 0.00 d9 169.35 MHz	-78.5 - 80 2 21.5 - 10 - 0 - -10 -	Center 6.505 GHz 2.11ax (Ref 21.5 dBm Offset 11.5 dB D1 12.91 dBm D2-13.09 dBm	(HE160)	BO MH2/	3 / CH2 RBW 3 MHz VBW 10 MHz SWT 20 ms	Span 800 207 (U- [T1] MP VEV	MH2 MII-8 Ba Marker 1 [T1] 0.6301 Detta 2 [T1] 167
78.5- 80 21.5 ₌ 10- 0- -10- -20-	Center 6.345 OHz Center	(HE160)	eo MHz/	2 / CH1 RBW 3 MHz VBW 10 MHz SWT 20 ms	Span 800 MH 43 (U-N [T1] MP VEW	II-7 Band) Marker 1 [17] Deta 2 [7] 	-78.5 - 80 2 21.5 - 10 - 0 - -10 - -20 -	Center 6.505 GHz 2.11ax (Ref 21.5 dBm Offset 11.5 dB D1 12.91 dBm D2 -13.09 dBm	(HE160)	Chain	3 / CH2 RBW 3 MHz VBW 10 MHz SWT 20 ms	Span 800	Mil-8 Ba -NII-8 Ba -13 -13 -13 -13 -13 -13 -13 -13
78.5 - 80 21.5 - 10 - 0 - -10 - -20 - -30 -	Center 6.345 OHz Center	(HE160)	BO MH2/	2 / CH1 RBW 3 MH: VBW 10 MH2 SWT 20 ms	Span 800 MH	II-7 Band) Marker 1 [11] Deta 2 [11] 0 00 d8 169 35 MHz	-78.5- 80 21.5 <u>-</u> 10- 0- -10- -20- -30-	Center 6.505 GHz C.11ax (Ref21.5 dBm Offset 11.5 dB D112.91 dBm D12.91 dBm D2-13.09 dBm	(HE160)) Att 20 45	Chain	3 / CH2 RBW 3 MHz VBW 10 MHz SWT 20 ms	Span 800 (07 (U- (Г1) MP VEV	MHz With A Marker 1 [[71] -3. -3. Defa 2 [71] 167.
78.5 - 80 21.5 - 10 - 0 - -10 - -20 - -30 -	Center 6.345 OHz Center	HE160)	so MHz/	2 / CH1 RBW 3 MHz VBW 10 MHz SWT 20 ms	Span 800 MH 43 (U-N [T1] MP VEW	II-7 Band) Marker 1 [71] -16.74 dBm 06.9048 0Hz 06.9048 0Hz 169.35 IMHz	-78.5- 80 21.5 <u>-</u> 10- 0- -10- -20- -30-	Center 6.505 GHz 2.11ax (Ref 21.5 dBm 0ffset 11.5 dB D112.91 dBm D2-13.09 dBm	(HE160)	So MHz/	3 / CH2 RBW 3 MHz VBW 10 MHz SWT 20 ms	Span 800 2007 (U- [т1] МР VEV	MHz Wil-8 Ba NII-8 Ba Marker 1 [[1]
78.5 - 80 21.5 - 10 - -10 - -20 - -30 - -40 -	Center 6.345 OHz Center	не 20 db	Chain	2 / CH11 BBW 3 MHz VBW 10 MHz SWT 20 ms	Span 800 MH 43 (U-N (T1) MP VEW	II-7 Band)	-78.5- 80 21.5= 10- 0- -10- -20- -30- -40-	Center 6.565 GHz 2.11ax (Ref215.dbm Offset 115.db D11291.dbm D2-13.09.dbm	(HE160), Att 20 dB	so MHz/ _Chain	3 / CH2 RBW 3 MH2 VBW 10 MH2 SWT 20 ms	Span 800 2007 (U- [Т1] МР VEV	Mil-8 Ba Mil-8 Ba Marker 1 [1-] 5 500 Deta 2 [11] 167.
78.5 - 80 21.5 :: 10 - 0 - -10 - -20 - -30 - -40 - -50 -	Center 6.345 OHz Center	HE160) At 20 dB	BO MH2/	2 / CH1 800 Mit 900 10 Mit	Span 800 M ⁺ 43 (U-N [11] MP VEW 	II-7 Band)	-78.5- 80 21.5 <u>-</u> 10- 0- -10- -20- -30- -40- -50-	Center 6 505 OHz Center 6 505 OHz Center 6 505 OHz Center 6 505 OHz Office 115 88 Office 115 88 D1 12 91 dBm D2 -13 09 dBm	(HE160)	So MH2/	3 / CH2 BWY 10 MHZ SWY 10 MHZ SWY 20 ms	Span 800 207 (U- [т1] МР VEV	MHz Winner 1 [71] Marker 1 [71] 0 Delta 2 [71] 167 167 167
78.5 - 80 21.5 :: 10 - -10 - -20 - -30 - -40 - -50 -	Center 6.345 OHz Center	HE160)	BO MHZ	2 / CH1 RBW 3 MHz VEW 10 MHz SWT 20 ms	Span 800 MH 43 (U-N [1] MP VEW	II-7 Band) Marker 1 [[1] Deta 2 [[1] 000 dB 169.35 MHz	-78.5- 80 21.5 10- 0- -10- -20- -30- -40- -50-	Center 6.555 GHz 2.111aX (Ref 21.5 dBm 01964 T1.5 dB 01964 T1.5 dB 012.013 09 dBm 02.13 09 dBm 0100000000000000000000000000000000000	(HE160)	So MH2/	3 / CH2 Reno Mrs. SWT20 ms	Span 800 2007 (U- [т1] МР VEV	MHz Wither 1 [[1]] Marker 1 [[1]] 0 deta 2 [1] 0 deta 2 [1] 167.
78.5 - 80 21.5 :: 10 - -10 - -20 - -30 - -40 - -50 - -60 -	Center 6.345 OHz Center	не160) лт 20 db	Chain	2 / CH1 RBW 3 MH2 VBW 10 MH2 SWT 20 ms	Span 800 MH 43 (U-N [T1] MP VEW	II-7 Band)	-78.5- 80 2 21.5 ₋ 10- 0- -10- -20- -30- -30- -50- -50- -60-	Center 6.505 OHz 2.111aX (Ref 215.58m 076e H15.88 D112.91.48m D12.91.48m	(HE160)	Chain	3 / CH2 Rev 3 Mr2 909 1 Mr2 907 20 ms	Span 800 207 (U- [Г1] MP VEV (Г1] MP VEV	MHz With A Marker 1 [71] -1.3 -1.5
78.5 - 21.5 - 10 - -10 - -20 - -30 - -40 - -50 - -60 - -70 -	Center 6.345 OHz Center	не 20 db	Chain	Part of the second seco	Span 900 М 43 (U-N [T1] ИР VEW	II-7 Band)	-78.5- 800 21.5 <u>-</u> 10- 0- -10- -20- -30- -30- -50- -50- -70- -70-	Center 6.505 GHz 2.111ax (Ref 21.5.86m Office 115.86m Office 115.86m D112.91.48m D1.2.91.48m	(HE160), Att 20 dB	so MH2/	3 / CH2 Rev Julz SWT 20 ms	Span 800 СОТ (U- [Т1] МР VEV	Mile NII-8 Ba Marker 1 [[1] -13 Delta 2 [11] 167 167
78.5 - 21.5 <u>-</u> 10 - -10 - -20 - -30 - -30 - -50 - -60 - -70 -	Center 6.345 OHz Center	HE160)	BO MH2/	2 / CH1 Rev 3 M/2 VEW 20 M/2 2	Span 800 М ⁴ 43 (U-N [Г1] ИР УЕУ	II-7 Band)	-78.5 800 21.5 10- 0- -10- -20- -30- -30- -40- -50- -50- -70-	Center 6.555 GHz Center 6.555 GHz Center 6.555 GHz Center 115 dB Offset	(HE160)	SO LIME2	3 / CH2 Rev J Mit: SWT 20 ms 2 4 4 4 4 4 4 4 4 4 4 4 4 4	Spin 800 207 (U- [11] MP VEV	MHz V Marker 1 [[1] -13 -13 -13 -13 -13 -13 -13 -13



4.6 Peak Power Spectral Density Measurement

4.6.1 Limits of Peak Power Spectral Density Measurement

Operation	ELIT Cotogon/	Limit
Band	EUT Calegory	Peak Power Density (EIRP)
U-NII-5		
U-NII-6	Indeen AD / Cubendinete Device	
U-NII-7	Indoor AP / Subordinate Device	5 dBm/MHZ
U-NII-8		

4.6.2 Test Setup



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.



4.6.4 Test Procedure

- a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP level.
- e. Follow ANSI 63.10 and KDB 412172 D01 v01r01, EIRP Value (dBm) = Field Strength Value (dBμV/m) + Correction Factor @ 3m.
- f. Correction Factor (dB) @ 3m = 20log(D) 104.7; where D is the measurement distance @3m=-95.15dB

Note: Spectrum analyzer setting as below:

Method SA-1

- 1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2. Set RBW = 1 MHz, Set VBW \ge 3 MHz, Detector = RMS
- 3. Sweep time = auto, trigger set to "free run" (duty cycle ≥ 98 percent) ; Set video trigger (duty cycle < 98 percent).
- 4. Trace average at least 100 traces in power averaging mode.
- 5. Record the max value
- 4.6.5 EUT Operating Condition

Same as Item 4.3.6.



4.6.6 Test Results

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
33	6115	100.10	-95.15	4.95	5.00	Pass
61	6255	100.09	-95.15	4.94	5.00	Pass
93	6415	100.09	-95.15	4.94	5.00	Pass
97	6435	100.07	-95.15	4.92	5.00	Pass
105	6475	100.09	-95.15	4.94	5.00	Pass
113	6515	100.08	-95.15	4.93	5.00	Pass
117	6535	100.07	-95.15	4.92	5.00	Pass
153	6715	100.11	-95.15	4.96	5.00	Pass
181	6855	100.06	-95.15	4.91	5.00	Pass
185	6875	100.12	-95.15	4.97	5.00	Pass
213	7015	100.14	-95.15	4.99	5.00	Pass
229	7095	100.14	-95.15	4.99	5.00	Pass

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
35	6125	100.00	-95.15	4.85	5.00	Pass
59	6165	100.01	-95.15	4.86	5.00	Pass
91	6405	100.05	-95.15	4.90	5.00	Pass
99	6445	100.05	-95.15	4.90	5.00	Pass
107	6485	100.05	-95.15	4.90	5.00	Pass
115	6525	100.06	-95.15	4.91	5.00	Pass
123	6565	100.03	-95.15	4.88	5.00	Pass
155	6725	100.05	-95.15	4.90	5.00	Pass
179	6845	100.03	-95.15	4.88	5.00	Pass
187	6885	100.11	-95.15	4.96	5.00	Pass
211	7005	100.06	-95.15	4.91	5.00	Pass
227	7085	100.03	-95.15	4.88	5.00	Pass



802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
39	6145	100.13	-95.15	4.98	5.00	Pass
55	6225	100.08	-95.15	4.93	5.00	Pass
87	6385	100.08	-95.15	4.93	5.00	Pass
103	6465	100.08	-95.15	4.93	5.00	Pass
119	6545	100.11	-95.15	4.96	5.00	Pass
135	6625	100.10	-95.15	4.95	5.00	Pass
151	6705	100.04	-95.15	4.89	5.00	Pass
167	6785	100.13	-95.15	4.98	5.00	Pass
183	6865	100.13	-95.15	4.98	5.00	Pass
199	6945	100.08	-95.15	4.93	5.00	Pass
215	7025	100.12	-95.15	4.97	5.00	Pass

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
47	6185	100.12	-95.15	4.97	5.00	Pass
79	6345	100.10	-95.15	4.95	5.00	Pass
111	6505	100.05	-95.15	4.90	5.00	Pass
143	6665	100.11	-95.15	4.96	5.00	Pass
175	6825	100.14	-95.15	4.99	5.00	Pass
207	6985	100.10	-95.15	4.95	5.00	Pass







4.7 Contention Based Protocol Measurement

4.7.1 Limits of Contention Based Protocol Measurement

Unlicensed indoor low-power devices must detect co-channel radio frequency power that is at least -62 dBm (The threshold is referenced to a 0 dBi antenna gain.) or lower. Additionally, indoor low-power devices must detect co-channel energy with 90% or greater certainty.

4.7.2 Test Setup



4.7.3 Test Instruments

DESCRIPTION &			CALIBRATED	CALIBRATED
MANUFACTURER	MODEL NO.	SERIAL NO.	DATE	UNTIL
N9030B - PXA Signal Analyzer	N9030B	MY60070562	2021/1/6	2022/1/5
N9030B - PXA Signal Analyzer	N9030B	MY57140938	2021/5/9	2022/5/8
MXG -X Vector Signal Generator	N5182B	MY57301272	2021/1/22	2022/1/21
N5182BU	N5182BU	MY59360189	NA	NA
Splitters/Combiners	WDIV- 4R40291	NA	2021/1/13	2022/1/12

NOTE: 1. The test was performed in Femtocell room.

2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

3. Tested Date: 2021/10/18



4.7.4 Test Procedure

- a. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
- b. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters (set as following section 4.7.5 EUT operating condition).
- c. Determine number of times detection threshold test as following table,

lf	Number of Tests	Placement of Incumbent Transmission
$BW_{EUT} \leq \ BW_{Inc}$	Once	Same as EUT transmission
BW_{Inc} < $BW_{EUT} \leq 2xBW_{Inc}$	Once	Contained within BWEUT
$2 x B W_{\text{inc}} \text{<} B W_{\text{EUT}} \leq \ 4 x B W_{\text{inc}}$	Twice. (Incumbent transmission is contained within BW _{EUT})	Closely to the lower edge and upper edge of the EUT Channel
$BW_{EUT} > 4xBW_{Inc}$	Three times	Closely to the lower edge ,in the middle and upper edge of the EUT Channel

- d. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use step c table to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
- e. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT.
- f. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
- g. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
- h. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
- i. Refer to step c table to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step d, choose a different center frequency for the AWGN signal and repeat the process.

4.7.5 EUT Operating Condition

Set the EUT to transmit with a constant duty cycle and relative operating parameters which including power level, operating frequency, modulation and bandwidth.



4.7.6 Test Results

For U-NII-5 band

				c	PB Test Res	ult						
						Test Result						
Operation Band	Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Frequency (MHz)	Incumbent Signals (AWGN)	Detection Level	Number of Trail	Number of	Ratio	Detection Criterion	Pass/ Fail	
					Freq. (MHz)	(UBIII)	ITali	Delected		(ubiii)		
		20	45	6175	6175	-64.05	10	10	100%	-62	Pass	
					6110	-64.05	10	10	100%	-62	Pass	
U-NII 5	802.11ax	160	47	6185	6185	-62.04	10	10	100%	-62	Pass	
					6260	-65.02	10	10	100%	-62	Pass	
Note:Detec	tion criterion	= -62 dBm +0	G (0 dBi) =	-62 dBm								











For U-NII-6 band

				c	PB Test Res	ult					
					Test Result						
Operation Band	Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Frequency (MHz)	Incumbent Signals (AWGN) Freq. (MHz)						Pass/ Fail
		20	97	6435	6435	-64.02	10	10	100%	-62	Pass
					6430	-65.04	10	10	100%	-62	Pass
U-NII 6	802.11ax	160	111	6505	6505	-64.04	10	10	100%	-62	Pass
					6580	-62.03	10	10	100%	-62	Pass
Note:Detect	tion criterion	= -62 dBm +0	G (0 dBi) =	-62 dBm							

Plots of EUT transmission conditions
802.11ax (HE20) / CH97
802.11ax (HE160) / CH111

KEYSGHT Park (HE20) / CH97

Regeneration of the first of the f





	PIOU		ransr		e time domain	H111 (High Edg	<u></u>
Spectrum Analyzer 1 KEYSIGHT method for Scalar Div 10 Bi CO 10 Social Div 10 Bi 10 Div 10 Bi	Ref Level 10.00 etilin	20) / CH97 Ang top / CH97 Ang top / Ang top	r Settings Settings Peak Search Prost Config Prost Search Search Prost Search Prost Search Prost Search Prost Search Prost Search Prost Search Prost Search Prost Search Prost Search Prost Search Prost S S S S S S S S S S S S S S S S S S S	Sectors Analyzer 1 President Sectors 1 Preside	AX (HE160) / Cl Advanced by the second seco	H1111 (High Edg	C) Marker of Config Config Config Config Propert P
Revenue Analyses 1 Revenue ANALYSES 1 REVENU	Contract (HE160) /	CH1111 (Middle)	r Settings Search Peak Search Pic Search Coning Pic Search Pic Sea	Recently and a second s	Ax (HE160) / C	H1111 (Low Edge And Type Power (RAM) (2 4 4 4 The External And Type Power (RAM) (2 4 4 4 And Type And The External And Type Power (RAM) (2 4 4 4 And	e Bang Research Resea



For U-NII-7 band

CPB Test Result												
Operation Band	Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Frequency (MHz)	Test Result							
					Incumbent Signals (AWGN) Freq. (MHz)	Detection Level (dBm)	Number of Trail	Number of Detected	Ratio	Detection Criterion (dBm)	Pass/ Fail	
U-NII 7	802.11ax	20	149	6695	6695	-64.03	10	10	100%	-62	Pass	
		160	143	6665	6590	-66.02	10	10	100%	-62	Pass	
					6665	-62.03	10	10	100%	-62	Pass	
					6740	-66.03	10	10	100%	-62	Pass	
Note:Detection criterion= -62 dBm +G (0 dBi) = -62 dBm												

Plots of EUT transmission conditions 802.11ax (HE20) / CH149 Recent Advint 1 Ferror 1 Sector 1 Sector









For U-NII-8 band

CPB Test Result												
Operation Band	Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Frequency (MHz)	Test Result							
					Incumbent Signals (AWGN) Freq. (MHz)	Detection Level (dBm)	Number of Trail	Number of Detected	Ratio	Detection Criterion (dBm)	Pass/ Fail	
U-NII 8	802.11ax	20	209	6995	6995	-66.04	10	10	100%	-62	Pass	
		160	207	6985	6910	-66.02	10	10	100%	-62	Pass	
					6985	-62.02	10	10	100%	-62	Pass	
					7060	-66.03	10	10	100%	-62	Pass	

Note:Detection criterion= -62 dBm +G (0 dBi) = -62 dBm





4.8 Frequency Stability Measurement

4.8.1 Limits of Frequency Stability Measurement

The frequency of the carrier signal shall be maintained within band of operation

4.8.2 Test Setup

4.8.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.8.4 Test Procedure

- a. The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
- b. Turn the EUT on and couple its output to a spectrum analyzer.
- c. Turn the EUT off and set the chamber to the highest temperature specified.
- d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 Minutes.
- e. Repeat step (d) with the temperature chamber set to the next desired temperature until measurements down to the lowest specified temperature have been completed.
- f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 Minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

4.8.5 EUT Operating Condition

Set the EUT transmit at un-modulation mode to test frequency stability.

4.8.6 Test Results

802.11ax (HE20)

Frequency Stability Versus Temp.													
Operating Frequency: 6115MHz													
	Power	0 Minute		2 Minutes		5 Mir	nutes	10 Minutes					
TEMP . (℃)	Supply (Vac)	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail				
40	120	6114.9767	Pass	6114.9723	Pass	6114.9762	Pass	6114.9721	Pass				
30	120	6114.9864	Pass	6114.9861	Pass	6114.9833	Pass	6114.9836	Pass				
20	120	6114.9805	Pass	6114.9806	Pass	6114.9857	Pass	6114.9857	Pass				
10	120	6115.0272	Pass	6115.0249	Pass	6115.0231	Pass	6115.027	Pass				
0	120	6114.9998	Pass	6114.9975	Pass	6114.9985	Pass	6114.9993	Pass				

	Frequency Stability Versus Voltage												
Operating Frequency: 6115MHz													
ТЕМР . (°С)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes					
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail				
	138	6114.9807	Pass	6114.9806	Pass	6114.9865	Pass	6114.9851	Pass				
20	120	6114.9805	Pass	6114.9806	Pass	6114.9857	Pass	6114.9857	Pass				
	102	6114.9803	Pass	6114.9795	Pass	6114.9851	Pass	6114.9847	Pass				

4.9 Operational Restrictions for 6GHz U-NII Devices

- 4.9.1 Limits of Operational Restrictions for 6 GHz U-NII Devices
 - (1) Operation of indoor access points in the 5.925-7.125 GHz band is prohibited on oil platforms, cars, trains, boats, and aircraft, except that indoor access points are permitted to operate in the 5.925-6.425 GHz bands in large aircraft while flying above 10,000 feet.
 - (2) Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.
 - (3) Transmitters operating under the provisions of paragraphs (a)(5), (a)(6), and (a)(8) of this section are limited to indoor locations.
 - (4) In the 5.925-7.125 GHz band, indoor access points must bear the following statement in a conspicuous location on the device and in the user's manual: FCC regulations restrict operation of this device to indoor use only. The operation of this device is prohibited on oil platforms, cars, trains, boats, and aircraft, except that operation of this device is permitted in large aircraft while flying above 10,000 feet.
 - (5) In the 5.925-7.125 GHz band, Access points and subordinate devices may connect to other access points or subordinate devices.
 - (6) Indoor access points, operating in the 5.925-7.125 GHz band must employ a contention-based protocol.

4.9.2 Test Setup

N/A

4.9.3 Test Instruments

N/A

4.9.4 Test Procedure

N/A.

4.9.5 Test Results

Device is an indoor access point, / subordinate modes all restrictions are meet the §15.407 (d) requirements. Please refer to the Attestation letter exhibit supplied within this application.

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Annex A - Band-Edge Measurement

CDD Mode

Appendix A– Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Lin Kou EMC/RF Lab Tel: 886-2-26052180 Fax: 886-2-26051924 Hsin Chu EMC/RF/Telecom Lab Tel: 886-3-6668565 Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab Tel: 886-3-3183232 Fax: 886-3-3270892

Email: <u>service.adt@tw.bureauveritas.com</u> Web Site: <u>www.bureauveritas-adt.com</u>

The address and road map of all our labs can be found in our web site also.

--- END ---