Section 8	Testing
Test name	FCC 27.50
Specification	FCC Part 2

Testing FCC 27.50(j)(4) Peak to Average Power Ratio FCC Part 27



Band n77

Bandwidth: 100 MHz

	TX: 3750 MHz, BW: 100MHz, MOD:	QPSK						PAPR, TX: 375) MHz, BW: 100	MHz, MOD: QF	sk						
	iView Spectrum							MultiView	Spectrum								
	evel 55.21 dBm Offset 30.00 dB = 35 dB SWT 1 ms =	RBW 1 MHz VBW 3 MHz Mode Swee	20			5	GL Count 200/200	Ref Level 55 Att	⊇1 dBm Offset 35 dB SWT	: 30.00 d8 = RI 1 ms = VI	3WINH2 3WINHZ Mod	le Sweep				s	SGL Count 2
	EST' quency Sweep					O 1Pk M	lax = 2Rm Avg	TDF "TEST" 1 Frequency :	weep							O1Pk M	Max • 2P
	7					M1[1]	12.79 dBm 3.750 000 GHz	S0 dBm-								M1[2]	3.750
								12.45									
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								30 dBm									
								20 dBm									
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					harris	~~~~~		-30 dBm	· · · · · · · · · · · · · · · · · · ·						hann		
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	s GHZ ker Table	337 pts	24.4	o MHZZ		spar	1 291-172 MEIZ	2 Marker Tab	e		337 pe	,	2	1.45 MHZ7		Spar	IN 244.
	Ref Trc X-Valu 1 3.75 G	e V-Va Iz 12.79	dBm Band Power/	Function 97.789 MHz		Function R 32.28 dl	esult Bm	Type Re M1	f Trc 2	X-Value 3.75 GHz		Y-Value 3.10 dBm	Band Pow	Function er/97.789 MHz		Function Re 22.36 df	Result Bm
	evel 55.21 dBm Offset 30.00 dB = 35 dB SWT 1 ms = EST' uency Sweep	RBW 1 MHz VBW 3 MHz Mode Swee	P			o 1Pk M	GL Count 200/200 Iax = 2Rm Avg	Ref Level 55 Att TDF "TEST" 1 Frequency	21 dBm Offset 35 dB SWT	1 30.00 dB = RI 1 ms = VI	3W 1 MH2 3W 3 MHz Moo	le Sweep				S C 0 1Pk M	SGL Coun Max
						M1[1]	12.04 dBm	S0 dBm-								M1[2]	3.8.4
							5.640 000 GHZ										a.840
								40 dBm						-	-	+	
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i i		- June proprietant	Marchine Charles and	www.www.				10 d8m			J	proven Gymphyre	1	- and the second	<u>v</u>		
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Intel 3.44 GHz 12.04 GHz	ter Table	337 pts	24.4	is MHZ7		spa	an 24527 MHz	2 Marker Tab	e		337 pe	,	2	1.45 MH27		Spa	an 244
Tendent devide for devide 0.000 de # BW 1 1000;	Ref Trc X-Valu 1 3.84 G	e V-Va Iz 12.04	dBm Band Power/	Function 97.708 MHz		Function Re 32.10 dl	esult Bm	M1 Type Re	2	X-Value 3.84 GHz		Y-Value 2.27 dBm	Band Pow	er/97.708 MHz		Function Re 21.98 df	tesult Bm
Data Strategy Data Strategy<	Temperature de X: 3930 MHz, BW: 100MHz, MOD: View Spectrum avel 55.12 d6m Offset 30.00 d8 = 35 d8< SWT 1 ms =	visition from self alignment. C QPSK RBW 1 MHz VBW 3 MHz Mode Swee	ansider 0.2 dD additional level	i uncertainty.	• 8	trady 5 C	3GL Count 200/200	PAPR, TX: 393 MultiView RefiLevel 55 Att TDF "TEST"	MHz, BW: 100 Spectrum 12 dBm Offset 35 dB SWT	MHz, MOD: QF	ion from self align ' SK 3W 1 MHz 3W 3 MHz Mod	iment, Consider O le Sweep	.2 dB additional l	evel uncertainty.		Ready S C	SGL Count :
Image: Solution of the second seco						M1[1]	11.66 dBm 3.930 000 GHz	S0 dBm-								M1[2]	3.930
Image: State in the state i								40 dim									
Image: State in the state i								30 d8m-							-	-	
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Function Votint Line Votint Exection Exection Exection	GHz	537 pts	24.4	4 MHz/	L	Spar	244.428 MHz	-20 dBm -40 dBm CF 3.93 GHz			537 pt		2	1.44 MHz/		Span	in 244.





TX: 3750 MHz, BW: 100	0MHz, MOD: 16Q	АМ					PAPR, TX: 3750	MHz, BW: 100	MHz, MOD: 16	QAM						
View Spectrum	n						MultiView	Spectrun	1							
evel 55.31 dBm Offsel	t 30.00 d8 = RBV	V 1 MHz			S	SGL	Ref Level 55.	51 dBm Offset	c 30.00 d8 = RF	W 1 MHz						SGL
35 dB SWT EST'	1 ms 🖷 VBV	V 3 MHz Mod	Je Sweep		c	Sount 200/200	Att TDF "TEST"	35 dB SWT	1 ms 🖷 VB	W 3 MHz Mo	de Sweep					Count 200
uency Sweep					0 1Pk M MIELT	lax = 28m Avg 1 14.32 dBm	1 Frequency S	weep							0 1 Pk 1	Max = 2Rm 21 4.9
						3.750 000 GHz	S0 dBm					-		-		3.750 00
							40 dBm	L								
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							20 dBm	L								
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						<u> </u>	-40 dBm				+					_
5 GHz		536 pts	5	24.37 MHz/	Spr	an 243.74 MHz	CF 3.75 GHz			536 pt	5	2	4.37 MHz/		Sp	pan 243.
Ref Trc	X-Value		Y-Value	Function	Function R	esult	2 Marker Tabl Type Rel	Trc	X-Value		Y-Value		Function		Function F	Result
1	3.75 GHz		14.32 dBm Band I	2ower/97.496 MHz	32.34 di	8m	M1	2	3.75 GHz		4.92 dBm	Band Powe	er/97.496 MHz	_	22.38 d	dBm
Те	imperature deviatio	in from sell align	ment. Consider 0.2 dB additio	narievel uncertainty.	Ready			Те	mperature deviat	ion from self aligi	nment. Consider	0.2 0B additional le	veruncertainty.		ready	
(: 3840 MHz, BW: 100	MHz, MOD: 16Q	АМ					PAPR, TX: 3840	MHz, BW: 100	MHz, MOD: 16	QAM						
iew Spectrum	n						MultiView	Spectrum	1							
vel 55.18 dBm Offsel	t 30.00 d8 = RBV	V 1 MHz			5	SGL	Ref Level 55.	18 dBm Offsel	t 30.00 d8 = RF	W 1 MHz						SGL
35 dB SWT	1 ms 🗢 VBV	V 3 MHz Mod	<b>Je</b> Sweep		C	Count 200/200	Att TDF "TEST"	35 dB SWT	1 ms 🗢 VB	W 3 MHz Mo	de Sweep					Count 20
ency Sweep					0 1Pk M	tax = 2Rm Avg 1 14.44 dBm	1 Frequency S	weep							0 1 Pk 1	Max # 2R
					(44[1]	3.840 000 GHz	50 d8m							-	- Inter	3.840 (
							40 dBm									
							45 000									
						<u> </u>	30 dBm	<u> </u>			+	+			+	
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GHz		537 pts		24.43 MHz/	Spar	n 244.325 MHz	CE 3.84 GHz	L		537 pt	rs	2	4.43 MHz /		Spi	an 244.3
r Table							2 Marker Tabl	в								
Ret Trc	3.84 GHz	1	14.44 dBm Band	Power/97.73 MHz	Function Re 32.19 dl	esult Bm	M1	2	3.84 GHz		4.73 dBm	Band Pow	er/97.73 MHz		22.38 d	dBm
~					- Ready	· ·		v							Ready	
: 3930 MHz. BW: 100	MHz. MOD: 160	АМ					PAPR. TX: 3930	MHz. BW: 100	MHz. MOD: 16	ОАМ						
						_		,		<b>.</b>						
iew Spectrum	1 1 70 00 da <b>e pa</b> t						MultiView	Spectrum	1 - 70 00 da <b>-</b> Di							
35 dB SWT	1 ms = VBV	¥ri≊⊟z ¥3 MHz Miod	<b>je</b> Sweep		5	Count 200/200	Att	35 dB SWT	1 ms = Vf	WARNEZ Mo	de Sweep					Count 2
T' Ency Sweep				_	O 1Pk M	lax = 28m Avg	TDF "TEST" 1 Frequency S	weep							O 1 Pk	Max = 2F
					M1[1]	14.79 dBm	50 d8m								M1[2	2] 4
						3.930.000 GHz										3'9301
							40 d6m		+		+	+		+	+	+
							30 dBm-									
			1 N_1		+		20 dBm		+		+	+	+		+	
		m	hman	AM.	1		10 dem	L	L	nn	$\Delta \Delta$	$\Delta \Lambda c$	1m			
	1 7	~~~~	$h \sim h \sim$			1		_		him	ha			4 -		
	<u>                                     </u>	$\neg \neg \neg$	+ + +		4	<u> </u>	0 d9m		<u> </u>	$\mu u u$	+	+	the has	-	+	
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mouth	month		+		mymment	mansur	-20 dBm	mm	mon		+	+		myrun	- Monten	m
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							-30 d8m								T	
			<u> </u>		+	<b></b>	-40 dBm-		<u> </u>		+				+	_
		526 mb	5	24.39 MHz/	Spar	n 243.942 MHz	CF 3.93 GHz		1	536 pt	:5	- 2	4.39 MHz/		Spa	an 243.9
GHz		330 pts														
GHz r Table Ref Trc	X-Value.	336 pts	Y-Value	Function.	Eunction Re	esult	2 Marker Tabl Type Rel	e Trc	X-Value		Y-Value		Function		Function F	Result

esting
CC 27.50(j)(4) Peak to Average Power Ratio
CC Part 27



PAPR, TX: 3750 MHz, BW: 100MHz, MOD: 64QAM	F	PAPR, TX: 3750 MHz, BW: 100	MHz, MOD: 64QAM	
MultiView Spectrum		MultiView Spectrum		
Ref Level 55.27 dBm Offset 30.00 dB = RBW 1 MHz Att 25 dB - RWT - Los = VDW 2 MHz - Mode Swace	SGL	Ref Level 55.27 dBm Offset	30.00 dB = RBW 1 MHz	SGL Count 200 (200
TDF TEST	L May # 2009 Aug	TDF "TEST"	THIS # 40H DIFIZ HOUR SWEEP	o tilli Max #200 Aug
1 Heighting Sweep Of H	[1] 12.88 dBm	S0 dBm		M1[2] 2.67 dBm
	3.750 000 GHz			3.750 000 GH2
40 dBm		40 dBm		
30 d8m-		30 dBm-		
20 dbm		20 dBm		
Marca Mar			marthumanter	www.www
10 d8m		10 dBm-	PL PL	
0 dBm		0 dBm		
-10 dan		-10 d8m		
have been and have been a second se	uname	- ANIL AND A DOMESTIC	mander	howard warmen
420 dim		1420 dilmi 10 2 1 4 5 1		
-30 /80		-30 d8m-		
-40 dan		-40 d8m-		
CF 3.75 GHz 537 pts 24.41 MHz/ S	pan 244.148 MHz	CF 3.75 GHz	537 pts 24	.41 MHz/ Span 244.148 MHz
2 Marker Table Type Ref Trc X-Value V-Value Function Function	n Result	2 Marker Table Type Ref Trc	X-Value Y-Value	Function Function Result
M1 1 3.75 GHZ 12.88 dBm Band Power/97.659 MHz 32.41 Ready	dBm	M1 2	3.75 GHZ 2.67 dBm Band Power	797.659 MHz 22.20 dBm
BADD TV: 2840 MH- BM(: 100MH- MOD; 640AM		BADD TY: 2840 MHz BW: 100	MH- MODI 640AM	
PAPK, IX: 3840 MHZ, BW: 100MHZ, MOD: 64QAM		PAPR, 1X: 3640 MHz, BW: 100	MR2, MOD: 64QAM	
MultiView Spectrum		MultiView Spectrum	20.00 /R = DRW 13.04	·
Att 35 dB SWT 1 ms = VBW 3 MHz Mode Sweep	Count 200/200	Att 35 dB SWT	1 ms = VBW 3 MHz Mode Sweep	Count 200/200
1 Frequency Sweep 0 IP	k Max = 2Rm Avg	1 Frequency Sweep		o 1Pk Max = 2Rm Avg
50 dBm	[1] 12.22 dBm 3.840 000 GHz	S0 dBm-		M1[2] 2.15 dBm 3.840 000 GHz
40 d6m		40 dBm		
30 dbm-		30 dBm-		
20 dBm		20 dBm		
10 dam		10 d8m-	an man and the second	windunin
U dem-		U dam-		
-10 dan		-10 d8m-		
man	monthe	2030 march march	mmm	hand have been and have been a
		-30 dBm		· · · · · · · · · · · · · · · · · · ·
-30 MBI		-30 001		
+40 dkm		-4D dilm-		
CF 3.84 GHz 537 pts 24.44 MHz/ 2 Marker Table	Span 244.44 MHz	CF 3.84 GHz 2 Marker Table	537 pts 24.	44 MHz/ Span 244.44 MHz
Type         Ref         Trc         X-Value         Y-Value         Function         Function           M1         1         3.84 GHz         12.22 dBm         Band Power/97.776 MHz         32.17	i Result ' dBm	Type Ref Trc M1 2	X-Value Y-Value 3.84 GHz 2.15 dBm Band Power	r/97.776 MHz Eunction Result
- Ready	*	~		- Ready 👬
PAPR, TX: 3930 MHz, BW: 100MHz, MOD: 64QAM	P	PAPR, TX: 3930 MHz, BW: 100	MHz, MOD: 64QAM	
MultiView Spectrum		MultiView Spectrum		
RefLevel 55.17 dBm Offset 30.00 dB = RBW 1 MHz Att 35.49 SWT I mm = VBW 3 MHz Mode Sween	SGL Count 200/200	Ref Level 55.17 dBm Offset	30.00 dB = RBW 1 MHz 1 ms = VBW 3 MHz Mode Sween	SGL Count 200/200
Tor "Test" De "Test" De requesto Sween	k Max = 28m Avg	TDF "TEST"	THIS CONTRACTION OF THE	0.10k Max = 28m Ava
S0 dam	[1] 12.97 dBm	S0 dBm-		M1[2] 2.17 dBm
	3.930 000 GHZ			3.930 000 642
40 dBm		40 dBm		
30 d8m-		30 dBm-		
20 dBm-		20 dBm-		
man and and and the and the and the second		10 420	makandunanana	hamman
10 Baw		10 paw-	P1	
	+1	0 d9m		
-10 dan		-10 dBm		
man warman word have been and the second	mannen	normanna	mmilly	Marranamanan
-30.00m		-30 dBm		
-40 dim-		-40 dBm-		
CF 3.93 GHz 536 pts 24.41 MHz/	Span 244.05 MHz	CF 3.93 GHz	536 pts 24	41 MHz/ Span 244.05 MHz
Z Marker Lable      Type Ref Trc X-Value Y-Value Function Function      Function	Result	Z Marker Table	X-Value Y-Value	Function Function Result
MI I S.93 GHZ 12.97 GBM Band Power/97.62 MHz 32.22 Temperature deviation from self alianment. Consider 0.2 db additional level uncertainty. Ready		M1 2	mperature deviation from sett alignment. Consider 0.2 db additional less	797.62 MHZ 21.95 GBM

ing
27.50(j)(4) Peak to Average Power Ratio
Part 27



PAPR, TX: 3750 MHz, BW: 100MHz, MOD: 256QAM	PAPR, TX: 3750 MHz, BW: 100MHz, MOD: 256QAM
MultiView * Spectrum	MultiView Spectrum
Ref Level 55.34 dBm         Offset 30.00 dB ■ RBW 1 MHz         SGL           Att         35 dB         SWT         1 ms ● VBW 3 MHz         Mode Sweep         Count 200/200	Ref Level 55:34 d8m         Offset 30:00 d8 = RBW 1 MHz         SGL           Att         35 d8         SWT         1 ms = VBW 3 MHz         Mode Sweep         Count 200/200
TDF TEST' 1 Frequency Sweep 0 1Pk Max = 28m Avg	TDF "TEST" 1 Frequency Sweep 01Pk Max = 28m Avg
90 dBm 3750 000 GHz	50 dBm 81(2) 2.54 dBm 87,50 000 GH2
45 dEm	A5 480-
*) UGH	<b>1</b> 0 U001
20 dBm-	20 dbm
20 dBm-	20 dbm
10 sim www.changed.und.und.und.und.und.und.und.und.und.un	10 thm White March
0 dtm	0.00n-
-10 @n	-10 dan
130 mar M	128 200 man with and the second stranger and the second se
-30 00	
40 d/m	-40 @n CE 3.75 CHz538 pts24.46 MHz /5pap 244.608 MHz
2 Marker Table	2 Marker Table
M1 1 3.75 GHz 12.77 dBm Band Power/97.843 MHz 32.35 dBm	M1 2 3.75 GHz 2.54 dBm Band Power/97.843 MHz 22.31 dBm
- Ready 👬	Ready Ready
PAPR, TX: 3840 MHz, BW: 100MHz, MOD: 256QAM	PAPR, TX: 3840 MHz, BW: 100MHz, MOD: 256QAM
MultiView Spectrum	MultiView Spectrum
Ref Level 55.21 dBm         Offset 30.00 dB = RBW 1 MHz         SGL           Att         35 dB         SWT         1 ms = VBW 3 MHz         Mode Sweep         Count 200/200	RefLevel 55:21.06m         Offset 30:00 d8 = RBW 1 MHz         SGL           Att         35 d8         SWT         1 ms = VBW 3 MHz         Count 200/200
TDF "TEST" 1 Frequency Sweep 0:1Pk Max + 2Pm Avg	TDF 'TEST' 1 Frequency Sweep 0.1Pk Max #08m Avg
80 d8m	50 d8m
40 dBm	47 dbm
30 dBm-	30 dkm
20 dbm	20 dbm
10 den	10 den
-10 08m	-10 8m
223 from the water water and the second	2034 www.www.www.www.www.www.www.www.www.ww
-30 dan	-30 gm
-10.90	+10.980
CF 3.84 GHz 537 pts 24.43 MHz/ Span 244.26 MHz	CF 3.84 GHz 537 pts 24.43 MHz/ Span 244.26 MHz
2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result	2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result
M1 1 3.84 GHz 13.02 dBm Band Power/97.704 MHz 32.22 dBm	M1 2 3.84 GHz 2.63 dBm Band Power/97.704 MHz 22.08 dBm
PADD TY: 3030 MHz RW: 100MHz MOD: 2550AM	DADD TX: 3930 MHz RW: 100MHz MOD: 2550AM
Ref Level 55.25 dBm Offset 30.00 dB = RBW 1 MHz SGL	Ref Level 55.25 dbm Offset 30.00 db = RBW 1 MHz SGL
Att 35 dB SWT 1 ms = VBW 3 MHz Mode Sweep Count 200/200 TDF "TEST"	Att         35 dB         SWT         1 ms # VBW 3 MHz         Mode Sweep         Count 200/200           TDF "TEST"         Count 200/200         Count 200/200         Count 200/200         Count 200/200
1 Frequency Sweep 01Pk Max + 28m Avg MI[1] 12.55 dBm	1 Frequency Sweep 0 1Pk Max = 08m Avg M1[2] 2,56 dBm
90 dBm 3.930 000 GHz	50 dBm 3.930 000 GHz
40 dBm	40 dBm
30 d&n-	30 d&m
and a second strange and	man a har her a
10 dan-	10 dbm // // // // // ////////////////////
0 d0n	0 dbm
-10 @D	-10 @n
monor man man man	hammen marken and the second sec
-20 all	-20 dillin
-30 dBn	-30.08h
-10 din	-10 dBn
CF 3.93 GHz         538 pts         24.48 MHz/         Span 244.838 MHz	CF 3.93 GHz 538 pts 24.48 MHz/ Span 244.838 MHz
2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result	2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result
M1 1 3.93 GHz 12.55 dBm Band Power/97.935 MHz 32.21 dBm	M1 2 3.93 GHz 2.56 dBm Band Power/97.935 MHz 22.18 dBm



## 8.6 FCC 27.53(l) Emission Limits

#### 8.6.1 Definitions and limits

(I) 3.7 GHz Service. The following emission limits apply to stations transmitting in the 3700–3980 MHz band:

(1) For base station operations in the 3700–3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed –13 dBm/MHz. Compliance with this paragraph (I)(1) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

#### 8.6.2 Test summary

Test date	November 17, 2023	Temperature	21 °C
Test engineer	Chenhao Ma Wireless test technician	Air pressure	1005 mbar
Verdict	Pass	Relative humidity	64%

#### 8.6.3 Observations, settings and special notes

EUT setup configuration	Table top
Test facility	3 m Semi anechoic chamber
Measuring distance	3m
Antenna height variation	1–4 m
Turn table position	0–360°
Measurement details	A preview measurement was generated with receiver in continuous scan or sweep mode while the EUT was rotated
	and antenna adjusted to maximize radiated emission. Emissions detected within 6 dB or above limit were re-measured
	with the appropriate detector against the correlating limit and recorded as the final measurement.

#### Receiver/spectrum analyzer settings for frequencies below 1 GHz:

Resolution bandwidth	120 kHz
Video bandwidth	300 kHz
Detector mode	<ul> <li>Peak (Preview measurement)</li> </ul>
	<ul> <li>Quasi-peak (Final measurement)</li> </ul>
Trace mode	Max Hold
Measurement time	<ul> <li>100 ms (Peak preview measurement)</li> </ul>
	<ul> <li>5000 ms (Quasi-peak final measurement)</li> </ul>

#### Receiver/spectrum analyzer settings for frequencies above 1 GHz:

Resolution bandwidth	1 MHz
Video bandwidth	3 MHz
Detector mode	Peak (Preview measurement)
	Peak and CAverage (Final measurement)
Trace mode	Max Hold
Measurement time	<ul> <li>100 ms (Peak preview measurement)</li> </ul>
	<ul> <li>5000 ms (Peak and CAverage final measurement)</li> </ul>

#### Spectrum analyzer settings (conducted test):

Resolution bandwidth	1 MHz
Video bandwidth	3 MHz
Frequency span	Sufficient for making an accurate measurement
Detector mode	RMS
Trace mode	Max Hold

This test was realized in two parts: one with a conducted setup and another one with a radiated setup.

Testing data FCC 27.53(I) Emission limits FCC Part 27



A 30 dB attenuator was placed between the EUT and spectrum analyzer and compensated for as a reference level offset. Additionally, to correct for MIMO considerations, an additional offset of 10Log(4) = 6.02 dB was included to compensate for 4 correlated antenna outputs. The loss of the connecting cable was compensated for as a transducer factor in the spectrum analyzer.

For band edge tests, in the 1 MHz region immediately outside of the authorized band, a resolution bandwidth of approximately 1 – 5 % of the 26 dB bandwidth (measured in section 8.3) was used.

Radiated spurious emissions was assessed in all modes. Only the worst-case modulation/bandwidth/channel combination is reported here. The EUT was assessed in all possible orientations with the worst case with respect to spurious emissions being reported here.

#### 8.6.4 Test data

#### Band n77 – conducted spurious emissions

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Spectrum							Ē	Spectrur									Ē
		o do	1.1.0					D-ft	·	0	c oo in						
SCL Count 1/1	sm Uffset 36.0	12 ab 1410ae	a Auto Sweep					Ref Level	13.98 GBM	Unset 3	6.U2 dB	Mode A	luto Sweep				
Controlled by Newko	WTT A1 May							Controlled k	1/1 V NomkoWI	T OI May							
controlled by Nelliko		DARS		1				controlled L	y Nellikuty I	I VI Max		ke					
10 dBm	IS LINE ABS	PASS						10 dBm	PURIOUS	LINE ABS	P	ss					
0.40-4											1	1-					
U UBIII								U dBm									
10 dBm																	
SDUDIOUS LINE AD	-							-10 dBm-									
-20 dBm	-							_SPURIOUS	LINE_ABS_								
20 0011								-20 dBm-									
-30 dBm																	
						Market & Market & Market		-30 dBm—									a state of the second
-40 dBm					and the second second	and the second second						the ship because	L. D. M. Marsh	بالمطريع بالسلامية	a de la desta d		
and the second se	and the second se			· ·				-40 dBm-	and the second second	والمنافد والعربان			a subsection to be pro-	han haadhaa ka dhaa	<b>`</b>		
-50 ubm			_					and the second	and the second second	1	T						
								Hot have we									
-60 dBm								50 IN									
								-60 dBm-									
-70 dBm																	
								-70 dBm									
-80 dBm																	
Start 20.0 MUz			001 ptc			Stop 4(	1.0.042	-80 dBm									
Start 30.0 Minz		52	001 pts			этор те		Start 30.0	MHz	1	1	3200	1 nts			Sto	n 40.0 GHz
apurious emissione	Bango IIn	000	1 English	. 1	Dower the	1 411	male [	Sourious E	missions			0100				010	p toto arte
20,000 MHz	2 600 CH2	1.000 MHz	Prequence 2,600	12 CH7	-20.96 dt	Bm -1	7.96 dB	Pange		Range IIn	p		Frequen	си	Dower Ab	с I	Al imit [
3 000 MHz	40.000 GHz	1.000 MHz	30 050	41 GHz	-26.98.df	Bm -1	3 Q8 dB	- Kange	20 GHz	40 000 CF	17 1	000 MHz	30,808	21 GHz	-27.41	dBm	-14 41 dB
Alexandre a	10.000 012	1.000 1112	00.000	TT ONE	20.50 0			at a set of a	o une j	10.000 G	16 1	.000 11112	05.050	ET ONE	21.12	dom	11.11.00
Marker								Marker	X							_	
						4,44									Y		
Spurious emissions, TX	3720 MHz, BW: 40	MHz, MOD: QPSK						Spurious emis	sions, TX: 38	40 MHz, BW:	40MHz, MOI	): QPSK					
																	_
Spectrum								Spectrur	1								
Ref Level 13 98 di	am Offset 36 f	2 dB Mode	Auto Sween					Reflevel	10.97 dBm	Offset 3	6 02 dB	Mode 4	uto Sween				
SGL Count 1/1	011360 3010	12 00 11000	Maro Sweep					SGL Count	1/1	Oliset 5	0.02 00	mode /	lato Sweep				
Controlled by Nemko	WTT 🔵1 Max							Controlled b	v NemkoW1	T 🔵1 Max							
10 deimit Check		PASS						Limit	heck		P/	88					
Line _ SPURIOU	JS_LINE_ABS_	PASS						Line _	SPURIOUS_	LINE_ABS	P/	ss					
0 dBm								0 dBm									
o ubili																	
10 d0m								-10 dBm-									
								SPURIOUS	LINE_ABS_								
_SPORIOUS_LINE_AB	°_							-20 dBm—									
-20 ubiii																	
00 d0 -								-30 dBm-									
-30 dBm							A AN INCOME					and the second				and a state of the second s	and the second
in the later		A CALIFORNIA CONTRACTOR	فاستحد ومحد والفق	المعرب فليعيه	All and a state of the	and the second second		-40 dBm-			Constant Party				and the second se	And the second second second	
-40 dBm	A STREET STREET	and the second se	the party of the p	in the second second				distant of the second		Sector Statements	1						
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-70 dBm												1					
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-80 dBm																	
Phart 20,0 Mills			001 ntc			Stop 4	0.0.0112	Ot ant 20.0	MUS			2200	1 mtc			Oto	n 40 0 CU a
Start 30.0 MHZ		32	oorpts			Stop 40	J.U GHZ	start 30.0	mrtz			3200	1 pts			Sto	p +0.0 GHZ
spurious Emission	5			1		1		Spurious E	missions		1	· · ·				- 1	
Range Low	Range Up	RBW	Frequence		Power Abs		mit	Range	_OW	Kange Up	R	BW 000 MUI-	Frequen	CY CU	Power Ab	IS I	ALIMIT
3.990 GHz	40.000 GHz	1.000 MHz	39.954	41 GHZ	-27.33 di	ism   -1	4.33 dB	3.9	JU GHZ	40.000 Gł	HZ   1	.UUO MHz	39.995	63 GHZ	-27.70	авт	-14.70 dB
Marker								Marker									
1 1 11			ر ا ا	Reads		100	1		) (					Read	v		
				Ready		449	11							Read	ly 🛄	11110 4	×4 //
Spurious emissions, TX	3960 MHz, BW: 40	MHz, MOD: QPSK		Ready		100		Spurious emis	sions, TX: 37	40 MHz, BW:	80MHz, MOI	): QPSK		Read		4	



	_										_								(
Spectrum										Spectru	n								
Ref Level 1 SGL Count 1	.0.97 dBm ./1	Offset 36	.02 dB	Mode A	uto Sweep					SGL Coun	10.97 dBm : 1/1	Offset 36	5.02 dB	Mode 4	uto Sweep				
Controlled by	NemkoWT	T 🔵1 Max								Controlled I	y NemkoW1	T 🔵1 Max							
Limit sh			PA	88						Limit	Check		PA PA	88					
0 dBm										0 dBm-									
-10 dBm										-10 dBm-									
_SPURIOUS_LI	INE_ABS_									SPURIOUS	LINE_ABS_								
-20 dBm										-20 dBm—									
-30 dBm -									-	-30 dBm-									
10-10-			and the second se	and a strength	a Maran Awarda	الاطريق فالشعر	and the second second			30 abiii							مراجع میں اور رو	و فضاد من	
-40 dBm	in the second second					1.000				-40 dBm-		المعاقبة بشريان	Standy Supply	- William			and the second	A DECEMBER OF STREET, S	
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-60 dBm										not abiii									
-oo abiii										-60 dBm									
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Start 30.0 M	1Hz			3200	1 pts			Stop 4	40.0 GHz										
Spurious Em	issions	Pango Un	pi		Froquo	ncu l	Dowor Ab	c   A	Limit [	Start 30.0	missions			3200	1 pts			Sti	op 40.0 GHZ
30.000	MHz	3.700 GH	z 1.	.000 MHz	3.69	938 GHz	-28.11	dBm -	-15.11 dB	Range	Low	Range Up	R	BW	Freque	ncy	Power Al	os	∆Limit
3.980	GHz	40.000 GH	z 1.	.000 MHz	39.87	323 GHz	-27.21	dBm -	-14.21 dB	3.9	90 GHz	40.000 GH	lz 1	.000 MHz	39.92	319 GHz	-27.18	dBm	-14.18 dB
Marker						\				Marker						<u></u>			
	Л					Read	Y III	4,44								Read	Y III		
Spurious emissio	ons, TX: 384	0 MHz, BW:	BOMHZ, MOD	2 QPSK						Spurious emis	sions, TX: 39	40 MHz, BW:	80MHz, MOD	): QPSK					
	_										_								<u> </u>
Spectrum										Spectru	n 🗋								
Ref Level 1	.0.00 dBm	Offset 36	.02 dB	Mode A	uto Sweep					Ref Level	10.00 dBm	Offset 3	5.02 dB	Mode A	uto Sweep				
Controlled by	./1 NemkoWT	T 😑 1 Max								Controlled I	: 1/1 )v NemkoW1	T 🔵1 Max							
Limit Ch	neck		РА	88						Limit	heck		PA	88					
0 dBm	PURIOUS_	LINE_ABS_	PA	88						0 dBm	SPURIOUS_	LINE_ABS_	PA	88					
10.40-																			
SPURIOUS LI	INE ABS									-10 dBm-									
-20 dBm										-20 dBm-	LINE_ABS_								
20 dBm																			
-30 dBm								ومعرفة فساريدين	and the second	-30 dBm—									
-40 dBm	and the second second	and the lot of the second division	Contraction of the local division of the loc		Net the second		a supervision of the second	Concernent of the		-40 dBm-			and the second second	<b>Minister</b>	والمقارعة والمعامرة والم	offendences			and the second second
	and the state of the state	teres and the second								الوالع المعدد أعمته	Sector Sector		and the second		a de la companya de l				
roomoni										nin and and and									
-60 dBm										-60 dBm-									
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										-70 dBm-									
-80 dBm										-80 dBm-									
Pt pet 20,0 M				22001	Inte			Eton	40.0.0115										
Snurious Em	issions			3200.	r prs			atop ·	+0.0 GHZ	Start 30.0	MHz			3200	1 pts		<u> </u>	Sto	p 40.0 GHz
Range Lo	w	Range Up	R	вw	Freque	ncy	Power Ab:	s 🛆	Limit	Spurious E	missions								
30.000	MHz CH2	3.690 GH	z 1.	000 MHz	3.68	063 GHz	-22.85	dBm -	-9.85 dB	Range	Low	Range Up	R 1	BW 000 MHz	Freque	ncy	Power At	dam	∆Limit
Marker	GILE	10.000 011			05.50	000 012	21100	donn	11.00 00	Marker	Jo driz	10.000 G		.000 11112	00100	ideo dite	21100	dom	11.00 00
	Υ					Read					Y					Rear			X
						)				<u> </u>						)			
Spurious emission	ons, TX: 375	60 MHz, BW:	100MHz, MO	D: QPSK						Spurious emis	sions, TX: 38	40 MHz, BW:	100MHz, MO	D: QPSK					
Enastrum	$\neg$									Enastru									
Boft		06	al- ep	pa	uto Curro				( 🛆 )	apectrui	13.00 -12-	04	- 00 - IO	M-1-	uta Porce				
SGL Count 1	.u.UU dBm ./1	Unset 36	.u2 aB	Mode A	uto Sweep					SGL Coun	13.98 dBm 1/1	Unset 36	o.∪2 08	Mode 4	uto sweep				
Controlled by	NemkoWT	T 😑 1 Max								Controlled I	y NemkoW1	T 🔵1 Max							
Limit Ch	neck		PA	88						10 demit	theck		P/	88					
0 dBm	-514008_	LIVE_ABS_	24							Line _	PORIOUS_	LIVE_ABS_	″						
-10 dBm										o usm									
SPURIOUS 11	INE_ABS									-10 dBm—	L								
-20 dBm 🚽										SPURIOUS	LINE_ABS_								
20 dP-										-20 dBm-									
-30 uBm				4mb 1					and the second second	-30 dBm							<u> </u>		
-40 dBm	الم التقوير .	and the state	Contraction of the local division of		N/Handhild	<b>Milling</b>		and the state of the					يعلى	Maharbahar	معامد البواد وما	معيد وليدون		and the second se	
										-40 dBm-	and the second second					a fa de station de station			
r+Supasm										JSL _ubfi							<u> </u>		
-60 dBm																			
										-60 dBm-									
-70 dBm										-70 dBm-							<u> </u>		
-80 dBm																			
										-80 dBm—									1
Start 30.0 M	1Hz	·		3200	1 pts			Stop 4	40.0 GHz	Start 30.0	MHz	·		3200	1 pts	·	·	Sto	p 40.0 GHz
Spurious Em	issions					1				Spurious E	missions		1						
	w	капде Up 40.000 GH	z 1.	.000 MHz	Freque 3.90	062 GHz	-19.14	s ∆ dBm	-6.14 dB	Range 3.9	DO GHZ	капде Up 40.000 GH	12 1	.000 MHz	Freque 39.93	IS68 GHz	-27.26	dBm	-14.26 dB
Range Lo 3.990	GHZ				0.95	and the second s				U 019	· · · · · ·			· · · · ///	32.90	write	21120		
Range Lo 3.990 Marker	GHZ								Ì	Marker									
Range Lo 3.990 Marker	GHZ					Read	v (1)1	4,00		Marker	Y					Rear	v <b>(</b> )		<i>X</i>
Aange Lo 3.990 Marker	GH2					) Read	× (111	1,00		Marker	)()					Read	· (11		



Spectrum									Ē	Spectru	n								m
Ref Level	13.98 dBm	Offset 3	6.02 dB	Mode A	uto Sweep					Ref Leve	 I 13.98 dBm	Offset 30	5.02 dB	Mode A	uto Sweep				( \ \ )
SGL Count Controlled by	1/1 NemkoWT	T 🔵1 Max								SGL Coun	t 1/1 by NemkoWT	T 🛛 1 Max							
10 deimit	heck		РА	88						10 deimit	check		PAS	S					
Line _S 0 dBm	PURIOUS_	LINE_ABS_	. PA	.85						0 dBm	SPURIOUS_	LINE_ABS_	PAS	is					
-10 dBm-										-10 dBm-									
_SPURIOUS_L	INE_ABS_									-20 dBm-	_LINC_ADS_								
-30 dBm—										-30 dBm-								1. Silinda ba	
-40 dBm				Marine Marine	والانته سيطنيه					-40 dBm	a a submitted	and the state	No.		<b>A discript</b>				
All and the second										-SL.usm	and the state of the state								
-60 dBm										-60 dBm—									
-70 dBm										-70 dBm—									
-80 dBm										-80 dBm—									
Start 30.0	MHz			3200	1 pts			Stor	o 40.0 GHz	Start 30. Spurious I	) MHz missions			3200	1 pts			Sto	op 40.0 GHz
Spurious En	nissions	Pango Un			Eroquo		Domor Al	ve l	Al insit	Range	Low	Range Up	RB1		Freque	ncy	Power A	bs	∆Limit
3.980	) GHz	40.000 GH	Hz 1.	.000 MHz	39.89	071 GHz	-27.59	dBm	-14.59 dB	3.9	90 GHz	40.000 GF	iz 1.0	00 MHz	39.90	5191 GHz	-27.20	l dBm	-14.20 dB
Marker	Y					Post			6	Marker	Y								3/2
Spurious emiss	ions, TX: 384	10 MHz, BW:	40MHz, MOD	: 16QAM		J				Spurious emi	ssions, TX: 37	20 MHz, BW:	40MHz, MOD:	16QAM					
Spectrum										Spectru	n								
Ref Level SGL Count	10.97 dBm 1/1	Offset 3	6.02 dB	Mode A	uto Sweep.					Ref Leve	10.97 dBm t 1/1	Offset 36	5.02 dB	Mode A	uto Sweep				
Controlled by	NemkoWT	T 🔵1 Max	DA DA	be						Controlled	by NemkoW1	T 🔵1 Max	DAB	0		1	1		
Line _S	PURIOUS_	LINE_ABS_	PA	SS						Line _	SPURIOUS_	LINE_ABS_	PAS	s					
-10 dBm										-10 dBm-									
_SPURIOUS_I	INE_ABS_									_SPURIOUS	LINE_ABS_								
20 dBm										20 dBm									
-30 ubiii				den salar	والمراجع والمراجع	ومعاربة وكالاطار	والعدادة والم			-30 ubiii-					والمعالية والمعادية	مى يەرىلىرلىرى .	In the state of the	-	
-40 ubii					ing galance were sent of its pills of					aniti and			1.111						
-60 dBm										-60 dBm-									
-70 dBm										-70 dBm—									
-80 dBm										-80 dBm-									
Start 30.0	MHz			3200	1 nts			Stor	1 40.0 GHz	Start 30.	1 MHz			3200	1 nts			Str	n 40.0 GHz
Spurious En	nissions									Spurious I	missions								
Range L 3.990	OW GHz	Range Up 40.000 GH	Hz 1.	8W	Freque 39.90	195 GHz	-26.95	dBm	△Limit -13.95 dB	Range 3.9	90 GHz	Range Up 40.000 G⊦	z 1.0	W 00 MHz	Freque 39.9	ncy 1945 GHz	Power Al -27.22	b <b>s</b> dBm	△Limit -14.22 dB
Marker	W					,				Marker	NC.					,			)
	J					Read								100414		Read	iv III		<i>,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	ions, 1x 39	10 MITZ, DVV.	OUNITZ, MOD	. TOQAW					(III)	Spundus erni		10 MITZ, DVV.	SUMPL, MOD.	IOGAIN					(III)
Spectrum Ref Level	10.97 dBm	Offset 3	6.02 dB	Mode A	uto Sweep					Spectru Ref Leve	n I 10.00 dBm	Offset 30	5.02 dB	Mode A	uto Sweep				
SGL Count Controlled by	1/1 NemkoWT	T 🔵1 Max								SGL Coun Controlled	t 1/1 by NemkoWT	T 🔵1 Max							
Limit C Line S	heck PURIOUS	LINE ABS	- РА РА	88 88						Limit Line	heck SPURIOUS	LINE ABS	PAS	is is					
0 dBm										0 dBm									
-10 dBm	INE ABS									-10 dBm-	_LINE_ABS_								_
-20 dBm										-20 dBm-									
-30 dBm								والمراجع المراجع	- AND	-30 dBm—							مەدىيەر بىر		- Hardware Califi
-40 dBm	-			and a strength						-40 dBm-								and a second	
100 yom	1997 - Marine 1997	1								ال ^{ير} mining و المحمد الم									
-60 dBm										-60 dBm—									
-70 dBm										-70 dBm—									+
-80 dBm										-80 dBm-									
Start 30.0	MHz			3200	1 pts			Stor	0 40.0 GHz	Start 30.	) MHz			3200	1 pts			Sto	op 40.0 GHz
Spurious En	nissions ow	Range Ur	00	aw I	Freque	ncv I	Power Al	hs I	ALimit [	Spurious I	missions	Range Ur	pa	w I	Freque	ncy I	Power A	hs I	ALimit
3.990	) GHz	40.000 GI	Hz 1.	.000 MHz	39.89	571 GHz	-27.42	dBm	-14.42 dB	3.9 Markor	90 GHz	40.000 G⊦	z 1.0	00 MHz	39.9	1819 GHz	-27.47	dBm	-14.47 dB
marker						Read	· (II		<b>a</b>	marker						Read	ty 🛄		
Spurious emiss	ions, TX: 374	10 MHz, BW:	80MHz, MOD	2: 16QAM						Spurious emi	ssions, TX: 39	30 MHz, BW:	100MHz, MOD	16QAM					



Spectrum	Spectrum
Ref Level 10.00 dBm Offset 36.02 dB Mode Auto Sweep	Ref Level 10.00 dBm Offset 36.02 dB Mode Auto Sweep
SGL Count 1/1	SGL Count 1/1
Controlled by NemkoWTT   1 Max Limit theck PASS	Controlled by NemkoWTT @1 Max
Line_SPURIOUS_LINE_ABS_ PASS	D de Line SPURIOUS_LINE_ABS_ PASS
-10 dBm	-10 dBm
-20 dBm	-20 dBm
-30 dBm	-30 dBm
-40 dBm	-40 dBm
-60 dBm	-60 dBm-
-70 dBm	-70 dBm
-80 dBm	-80 dBm-
Ptart 20,0 MUa 20001 ptc Ptan 40,0 CUa	Pt set 20 0 AMUs 20001 stc Ptoy 40 0 CUs
Sourious Emissions	Sourious Emissions
Range Low Range Up RBW Frequency Power Abs ALimit	Range Low Range Up RBW Frequency Power Abs &Limit
30.000 MHz 3.700 GHz 1.000 MHz 3.69938 GHz -15.74 dBm -2.74 dB 3.980 GHz 40.000 GHz 1.000 MHz 39.87697 GHz -26.71 dBm -13.71 dB	30.000 MHz 3.690 GHz 1.000 MHz 3.68813 GHz -31.98 dBm -18.98 dB 3.990 GHz 40.000 GHz 1.000 MHz 39.86323 GHz -27.10 dBm -14.10 dB
Marker	Marker
Ready	Ready
Spunous emissions, TX 3840 MHz, BW: 100MHz, MOL: 16QAM	Spunous emissions, TX 3/50 MHz, BW: 100MHz, MOL: 16QAM
Spectrum	Spectrum
Ref Level 13.98 dBm Offset 36.02 dB Mode Auto Sween	Ref Level 13,98 dBm Offset 36.02 dB Mode Auto Sween
SGL Count 1/1	SGL Count 1/1
Controlled by NemkoWTT ©1 Max	Controlled by NemkoWTT   1 Max  Limit Bhook  DAbs
10 dBmmtunger PAPS Line_SPURIOUS_LINE_ABS_ PASS	10 dBmit Files PASS
0 d8m	0 d8m-
10.40	
_SPURIOUS_LINE_ABS_	-10 dBm
-20 dBm	-20 dBm
-30 dBm	
	-30 dBm
-40 dBm-1	-40 dBm-
#30.e65m	
	Nite and All and A
-oU dBm	-60 dBm
-70 dBm	
00 d0m	-70 dBm-
	-80 dBm
Start 30.0 MHz 32001 pts Stop 40.0 GHz	Start 30.0 MHz 32001 pts Stop 40.0 GHz
Range Low Range Up RBW Frequency Power Abs ALimit	Spurious Emissions
30.000 MHz 3.690 GHz 1.000 MHz 3.68563 GHz -17.74 dBm -4.74 dB	Range Low         Range Up         RBW         Frequency         Power Abs         ΔLimit           2 000 CH2         40 000 CH2         1 000 MH2         20 01210 CH2         27 20 dm         14 20 dp
3.990 GH2 40.000 GH2 1.000 MH2 39.92508 GH2 -27.54 08m -14.54 08 M	3.980 GHZ 40.000 GHZ 1.000 MHZ 39.91319 GHZ -27.38 0Bm -14.38 0B
Protect	Provide and a second se
Spurious emissions, TX: 3720 MHz, BW: 40MHz, MOD: 64QAM	Spurious emissions, TX 3840 MHz, BW: 40MHz, MOD: 64QAM
Spectrum	Spectrum
Ref Level 13 08 dBm Offset 36 02 dB Mode Auto Sween	Ref   evel 10.07 dBm Officet 36.02 dB Mode Auto Sween
SGL Count 1/1	SGL Count 1/1
Controlled by NemkoWTT   1 Max	Controlled by NemkoWTT
10 dBmmullack PABS Line_SPURIOUS_LINE_ABS_ PASS	Line_\$PURIOUS_LINE_ABSPASS
0 dBm	
	-10 dBm
	_SPURIOUS_LINE_ABS
-20 dBm	-20 UDII
	-30 dBm
-30 dBm	
140 dBm	
	ν-σ(μαβ ^m )
	-60 dBm
-60 dBm	
	-/U dBm
-/U dbm	-80 dBm
-80 dBm	
Start 30.0 MHz 32001 nts Ston 40.0 GHz	Start 30.0 MHz 32001 pts Stop 40.0 GHz
Spurious Emissions	Range Low Range Up RBW Frequency Power Abs ALimit
Range Low         Range Up         RBW         Frequency         Power Abs         ∆Limit           0.000 GUI         1.000 MUI         0.000 GUI         0.000 MUI         0.000 GUI         0.000 MUI	30.000 MHz 3.690 GHz 1.000 MHz 3.67439 GHz -22.72 dBm -9.72 dB
3.990 GHZ   40.000 GHZ   1.000 MHZ   3.99062 GHZ   -21.14 dBm   -8.14 dB	3.990 GHZ   40.000 GHZ   1.000 MHZ   39.94567 GHZ   -27.41 dBm   -14.41 dB   Markor
	Courses emissions TX 2740 MUS DWA 20MUS MOD CACAM



(Sup o otruumo									Enastru									
Ref Level 10.97 dB	n Offset 36	.02 dB	Mode A	uto Sweep					Ref Leve	'' L I 10.97 dBm	Offset 3	5.02 dB	Mode 4	uto Sweep				( \( \)
SGL Count 1/1 Controlled by NemkoV	TT 🔵1 Max								SGL Coun Controlled	t 1/1 by NemkoWT	T 🔵1 Max							
Limit Check		PA	SS						Limit	check		РА	88					
0 dBm	_LINE_AB5_	PA	55						0 dBm	SPURIOUS_	LINE_AB5_	PA	55					
-10 dBm									-10 dBm-									
_SPURIOUS_LINE_ABS									SPURIOUS	LINE_ABS_								
-20 dBm								-	-20 dBm—									
-30 dBm							A	No. of Concession	-30 dBm-								1.004.0	فالمتح والمتحديدي
-40 dBm	1	A REAL PROPERTY.						and the second s	-40 dBm-		Land and the state of	-						A MARK AND A MARKANING AND A MA
									الاربو الي العامين. معادرة		and a second							
									n provincial de la compañía de la co									
-60 dBm									-60 dBm—									
-70 dBm									-70 dBm—									
-80 dBm									-80 dBm-									
Start 30.0 MHz Spurious Emissions			3200	1 pts			Stop 4	0.0 GHz	Start 30. Spurious I	MHz missions			3200	1 pts			Sto	p 40.0 GHz
Range Low	Range Up	RE	W I	Frequer		Power Abs		imit	Range	Low	Range Up	RE	w l	Frequen	cy	Power Abs	;	∆Limit
3.980 GHZ	40.000 GH	Z   1.	JUU MHZ	39.65	HD5 GHZ	-26.80 dt	18m   -:	13.80 dB	3.9 Marker	90 GHZ	40.000 GF	HZ   1.	UUU MHZ	39.961	.91 GH2	-27.53 (	JBM	-14.53 dB
					Read	v (1111	100			)(					Read			XA
Sourious emissions TX 3	840 MHz BW:	ROMHZ MOD	64QAM						Sourious emi	ssions TX: 39	40 MHz BW	80MHz MOD	64OAM					
Spectrum									Spectru	n L								
SGL Count 1/1	n Offset 36	.02 dB	Mode A	uto Sweep					SGL Coun	l 10.00 dBm t 1/1	Offset 3	5.02 dB	Mode A	uto Sweep				
Controlled by Nemkov	TT 🔵1 Max		20						Controlled	by NemkoW1	T 🔵1 Max		be					1
Line_SPURIOU	_LINE_ABS_	PA	55 55						Line	SPURIOUS_	LINE_ABS_	PA	88 88					
o dom									0 GBII									
-10 dBm SPURIOUS LINE ABS									-10 dBm-									
-20 dBm									-20 dBm-									
-30 dBm -								ALC: NO.	-30 dBm—									
-40 dBm			Man Mar	der and a strange		a destanting of							and a balance		فليتري وليتأكل أتربط	والمحاصلة والمحاص والمراد		and the second
									-40 dBm	-			and the second second	Personal Per	Andread States of Contracts			
Sorusii									pat and									
-60 dBm									-60 dBm—									
-70 dBm									-70 dBm-									
-80 dBm									/ 0 ubiii									
									-80 dBm—									
Start 30.0 MHz Spurious Emissions			3200	1 pts			Stop 4	0.0 GHz	Start 30.	) MHz			3200	1 pts			Sto	p 40.0 GHz
Range Low	Range Up	RE	W I	Frequer		Power Abs		imit	Spurious I	missions	Dawaa Uw			F	1	Damas Ala		A1 116 [
30.000 MH2 3.990 GHz	40.000 GH	z 1.	DOD MH2	39.97	065 GHz	-28.70 di	iBm -:	13.92 dB	3.9	80 GHz	40.000 GH	Iz 1.	000 MHz	39.900	070 GHz	-26.44 c	dBm	-13.44 dB
Marker								)	Marker	N								
						Y CIN	4,40							J				X0.
Spurious emissions, TX 3	750 MHz, BW:	100MHz, MOI	D: 64QAM						Spurious emi	ssions, TX: 38	40 MHz, BW:	100MHz, MOI	D: 64QAM					
Spectrum									Spectru	n								
Ref Level 10.00 dB	n Offset 36	.02 dB	Mode A	uto Sweep				(4)	Ref Leve	13.98 dBm	Offset 3	5.02 dB	Mode 4	uto Sweep				( 4
SGL Count 1/1 Controlled by NemkoV	TT 😑1 Max								SGL Coun	t 1/1 by NemkoW1	T 🔵1 Max							
Limit theck		PA	SS						10 demit	Check		PA	88					
0 dBm	_LINE_ABS_	PA	55						0 dBm-	PURIOUS_	LINE_ABS_	PA	55					
-10 dBm																		
_SPURIOUS_LINE_ABS									_SPURIOUS	_LINE_ABS_								
-20 UDI/I									-20 dBm-							++		1
-30 dBm			1					No. of Street,	-30 dBm-									-
-40 dBm	A COLORED IN COLOR	- Angle and a second			الترقيعة، البريانية. برياني وحديث		and the second second		-40 dBm-				-	A Martine		- and the second second		
And Address of the Party of the	A CONTRACTOR OF	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							and Institute	and the second second								
-oU dBm									-60 dBm—									
-70 dBm									-70 dBm—	-	-	-						
-80 dBm									-80 dBm—	-								
									Start 30.	) MHz			3200	1 pts			Sto	p 40.0 GHz
Start 30.0 MHz			3200	1 pts			Stop 4	0.0 GHz	Spurious I	missions				·		_		
apurious Emissions	Range Up	RE	w [	Frequer	icy	Power Abs		.imit	Range 30.0	LOW DO MHz	Range Up 3.690 GH	1z 1.	ODO MHz	Frequen 3.689	CY 38 GHz	-32.21 c	iBm	△Limit -19.21 dB
3.990 GHz	40.000 GH	z 1.	000 MHz	3.990	062 GHz	-21.19 df	iBm -	-8.19 dB	3.9	90 GHz	40.000 GH	łz 1.	000 MHz	39.884	47 GHz	-26.69 0	dBm	-13.69 dB
Marker					Read		43/4		Marker	T				1	Read			MA
On the second se	930 MHz, BW: 1	100MHz, MOI	): 64QAM						Spurious emi	ssions, TX: 37	20 MHz, BW:	40MHz, MOD	256QAM					



Spectrum	Spectrum
Ref Level 13.98 dBm Offset 36.02 dB Mode Auto Sweep	Ref Level 13.98 dBm Offset 36.02 dB Mode Auto Sweep
Controlled by NemkoWTT @1 Max	Controlled by NemkoWTT O1 Max
10 dBmit theck PASS Line SPURIOUS_LINE_ABS_ PASS	Line
0 dBm	0 dBm
-10 dBm	-10 dBm-
_SPURIOUS_LINE_ABS	_SPURIOUS_LINE_ABS
-40 dBm	-40 dBm
	, ໄດ້ປຸງແຕ່ທີ່ ^{ເຫັນ}
-60 dBm	-60 dBm-
-70 dBm	-70 dBm
-80 dBm	-80 dBm-
Start 30.0 MHz         32001 pts         Stop 40.0 GHz	Start 30.0 MHz         32001 pts         Stop 40.0 GHz
Spurious Emissions Range Low Range Lip RBW Frequency Power Abs Alimit	Spurious Emissions Range Low Range Up RBW Frequency Power Abs ALimit
3.980 GHz 40.000 GHz 1.000 MHz 39.98189 GHz -26.64 dBm -13.64 dB	3.990 GHz 40.000 GHz 1.000 MHz 39.96440 GHz -26.94 dBm -13.94 dB
Marker Ready	Marker Ready
Sourieur amirciana TV 2010 MHz DW 40MHz MOD: 2500AM	Saurious amicrians, TX 2000 MHz RM/ 40MHz MOD: 2560AM
Spectrum	Spectrum
SGL Count 1/1	SGL Count 1/1
Controlled by NemkoWTT 01 Max Limit Preck PASS	Controlled by NemkoWTT ©1 Max Limit Preck PASS
Line SPURIOUS LINE ABS PASS 0 0 dBm	Line_\$PURIOUS_LINE_ABSPA\$S 0 dBm
-10 dBm	-10 dBm-
_SPURIOUS_LINE_ABS	SPURIOUS_LINE_ABS_
-30 dBm	
	-30 dBm
	-40 dBm-
PSU(abm	Alter for the second seco
-60 dBm	-60 dBm
-70 dBm	-70 dBm
-80 dBm	-80 dBm
Start 30.0 MHz 32001 pts Stop 40.0 GHz	
Spurious Emissions Range Low Range Up RBW Frequency Power Abs ALimit	Star 30.0 MHz 32001 pts Stop 40.0 GHz Spurious Emissions
30.000 MHz         3.690 GHz         1.000 MHz         3.67688 GHz         -22.34 dBm         -9.34 dB           3.990 GHz         40.000 GHz         1.000 MHz         39.90695 GHz         -26.99 dBm         -13.99 dB	Range Low         Range Up         RBW         Frequency         Power Abs         ΔLimit           3.980 GHz         40.000 GHz         1.000 MHz         39.99563 GHz         -27.44 dBm         -14.44 dB
Marker	Marker
Ready Ma	Ready MM
Spurious emissions, TX: 3740 MHz, BW: 60MHz, MOD: 256QAM	Spurious emissions, TX 3840 MHz, BW: 80MHz, MOD: 256QAM
Spectrum A	Spectrum
Ref Level 10.97 dBm Offset 36.02 dB Mode Auto Sweep SGL Count 1/1	Ref Level 10.00 dBm Offset 36.02 dB Mode Auto Sweep SGL Count 1/1
Controlled by NemkoWTT   A Nax	Controlled by NemkoWTT @1 Max Limit theck PASS
Line _SPURIOUS_LINE_ABS_ PASS 0 dBm	Line_\$PURIOUS_LINE_ABSPASS
10 dBm	-10 dBm
	SPURIOUS_LINE_ABS_
-20 dBm	-20 08m
-30 dBm	-30 dBm
-40 dBm	
-60 dBm	-60 dBm
-70 dBm	-70 dBm
00 dBm	-80 d8m
-ou ubiii	
Start 30.0 MHz 32001 pts Stop 40.0 GHz	Start 30.0 MHz 32001 pts Stop 40.0 GHz
Range Low         Range Up         RBW         Frequency         Power Abs         ΔLimit           0         0.00 GHz         1.000 GHz         <	Range Low Range Up RBW Frequency Power Abs ALimit
Narker 40.000 GHz   1.000 MHz   39.99063 GHz   -26.99 dBm   -13.99 dB Marker	39.93068 GHz   -27.66 dBm   -14.66 dB   Marker
Ready (	ready ()
Spurious emissions, TX 3940 MHz, BW: 80MHz, MOD: 256QAM	Spurious emissions, TX: 3750 MHz, BW: 100MHz, MOD: 256QAM

# Section 8Testing dataTest nameFCC 27.53(l)SpecificationFCC Part 27

Testing data FCC 27.53(I) Emission limits FCC Part 27





#### Band n77 – band edge









Page 54 of 63

















Spurious emissions band	edge, TX: 3750 15	Ez, BW: 100MHz, MOD: 256	iqam			Spurious emission	s band edge, TX: 3930	MHE, BW: 100MHE, MOD: 25	6QAM		
MultiView Spectrum					•	MultiView Sp	ectrum				•
Ref Level 36.00 (Bm Offset 3)	5.02 dB Mode Au	to Swaen			SGL	Ref Level 36.00 dBm	Offset 36.02 dB Mode	Auto Swaen			SGI
the level 50.00 dbill officer 5		no sweep			Count 1 000/1 000	Hereford Soloo donn		Nuto Sweep			Count 1 000/1 000
1 Courious Emissions					Count 1000/1000	1 Constant Emissions					Count Today Toda
Lipit Chall		phee				COLIDIONE LINE ADD	002	phee			
30 dBMac COURIOUS UNE ARG	000	0055				30 dBMar COURIOUS	LINE ARE OD				
Jo dom - 2	-T I					30 dom					
20.10						20.10					
20 dBm						20 dBm					
10 dBm						10 dBm					
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					N N						N
10 dBm						10 dBm					
-TO OBIT						· to abili					
SPURIOUS_LINE_ABS_002											
-20 dBm						-20 dBm					
-30 dBm						-30 dBm					
1											
-40 dBm						-40 dBm					· · · · ·
70 JB-						F.0. 40					
-50 dBm						-30 dbm					
											1
-60 dBm						-60 dBm					VI.
3.69 GHz		303 pts	11.0 MHz/		3.8 GHz	3.88 GHz		303 pts	11.0 MHz/		3.99 GHz
2 Result Summary						2 Result Summary					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit	Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.690 GHz	3.699 GHz	1.000 MHz	3.698 96 GHz	-36.92 dBm	-23.92 dB	3.880 GHz	3.980 GHz	1.000 MHz	3.882 48 GHz	1.78 dBm	-48.22 dB
3.699 GHz	3.700 GHz	1.000 MHz	3.700 00 GHz	-13.25 dBm	-0.25 dB	3.980 GHz	3.981 GHz	1.000 MHz	3.980 00 GHz	-14.40 dBm	-1.40 dB
3.700 GHz	3.800 GHz	1.000 MHz	3.71931 GHz	1.52 dBm	-48.48 dB	3.981 GHz	3.990 GHz	1.000 MHz	3.981 04 GHz	-37.80 dBm	-24.80 dB
e .				e Ready	A					< Ready	A



Band n77 – radiated spurious emissions

40 MHz, high channel, 16 QAM

#### Full Spectrum



Figure 8.6-1: Radiated emissions spectral plot (30 MHz - 1 GHz)

#### Table 8.6-1: Radiated emissions results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
42.879000	35.79	84.38	48.59	5000.0	120.000	100.0	V	10.0	17.5
43.135000	35.44	84.38	48.94	5000.0	120.000	107.0	V	356.0	17.3
244.012000	37.45	84.38	46.93	5000.0	120.000	100.0	V	20.0	19.5
260.050000	30.56	84.38	53.82	5000.0	120.000	110.0	V	78.0	21.8
294.024000	40.26	84.38	44.12	5000.0	120.000	114.0	V	56.0	21.0
308.846000	45.21	84.38	39.17	5000.0	120.000	138.0	Н	43.0	21.3

Notes:

¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB) ² Correction factors of the ACE (dD) + arbitration (dD)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)



Full Spectrum



Figure 8.6-2: Radiated emissions spectral plot (1 GHz - 18 GH	z)
Table 8.6-2: Radiated emissions results	

Frequency	MaxPeak	CAverage	Limit	Margin	Meas.	Bandwidth	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	Time	(kHz)	(cm)		(deg)	(dB/m)
					(ms)					
3954.544444					Fundamen	tal emission				
3954.544444					Fundamen	tal emission				
7919.400000		40.77	82.23	41.46	5000.0	1000.000	120.0	V	250.0	24.7
7919.400000	54.95		82.23	27.28	5000.0	1000.000	120.0	V	250.0	24.7
13439.822222		45.31	82.23	36.92	5000.0	1000.000	110.0	V	11.0	30.6
13439.822222	52.72		82.23	29.51	5000.0	1000.000	110.0	V	11.0	30.6
14025.277778	47.77		82.23	34.46	5000.0	1000.000	299.0	Н	135.0	31.1
14025.277778		34.88	82.23	47.35	5000.0	1000.000	299.0	Н	135.0	31.1
17282.544444		39.25	82.23	42.98	5000.0	1000.000	316.0	V	353.0	36.0
17282.544444	52.85		82.23	29.38	5000.0	1000.000	316.0	V	353.0	36.0
17527.811111	52.50		82.23	29.73	5000.0	1000.000	154.0	Н	146.0	36.4
17527.811111		39.59	82.23	42.64	5000.0	1000.000	154.0	н	146.0	36.4

Notes: ¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)



Full Spectrum



Figure 8.6-3: Radiated	emissions spectral	nlot (18 GHz -	26.5 GHz)
rigure 0.0-3. Nuuluteu	emissions spectrui	piot (10 0i iz -	20.3 0112)

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
					(ms)					
18452.631250		23.51	82.23	58.72	5000.0	1000.000	371.0	V	70.0	15.5
18452.631250	36.97		82.23	45.26	5000.0	1000.000	371.0	V	70.0	15.5
20692.325000		23.64	82.23	58.59	5000.0	1000.000	107.0	Н	35.0	18.2
20692.325000	36.52		82.23	45.71	5000.0	1000.000	107.0	Н	35.0	18.2
23540.550000	41.80		82.23	40.43	5000.0	1000.000	397.0	Н	43.0	23.5
23540.550000		28.61	82.23	53.62	5000.0	1000.000	397.0	Н	43.0	23.5
24067.081250		31.44	82.23	50.79	5000.0	1000.000	360.0	V	327.0	27.5
24067.081250	44.41		82.23	37.82	5000.0	1000.000	360.0	V	327.0	27.5
24852.387500	39.23		82.23	43.00	5000.0	1000.000	124.0	Н	356.0	22.3
24852.387500		25.72	82.23	56.51	5000.0	1000.000	124.0	Н	356.0	22.3
26499.400000		27.40	82.23	54.83	5000.0	1000.000	323.0	Н	179.0	23.4
26499.400000	40.66		82.23	41.57	5000.0	1000.000	323.0	Н	179.0	23.4

Table 8.6-3: Radiated emissions results

Notes: ¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB) ² Correction factors = antenna factor ACF (dB) + cable loss (dB)



Full Spectrum



Fiaure 8.6-4: Radiated	emissions	spectral plot	: (26.5	GHz -	40 GHz

Frequency (MHz)	MaxPeak (dBuV/m)	CAverage (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
( <i>)</i>	· · · /				(ms)	ζ,	(- <i>j</i>		(**8)	
26796.043750	39.13		82.23	43.10	5000.0	1000.000	125.0	V	49.0	10.0
26796.043750		25.84	82.23	56.39	5000.0	1000.000	125.0	V	49.0	10.0
30272.500000	39.96		82.23	42.27	5000.0	1000.000	125.0	н	21.0	12.0
30272.500000		26.57	82.23	55.66	5000.0	1000.000	125.0	н	21.0	12.0
35728.375000		32.34	82.23	49.89	5000.0	1000.000	125.0	н	232.0	20.4
35728.375000	45.91		82.23	36.32	5000.0	1000.000	125.0	н	232.0	20.4
35987.743750		33.04	82.23	49.19	5000.0	1000.000	175.0	н	92.0	21.0
35987.743750	46.19		82.23	36.04	5000.0	1000.000	175.0	н	92.0	21.0
36238.956250		30.73	82.23	51.50	5000.0	1000.000	125.0	н	263.0	18.9
36238.956250	43.54		82.23	38.69	5000.0	1000.000	125.0	н	263.0	18.9
39939.718750		31.74	82.23	50.49	5000.0	1000.000	100.0	V	30.0	20.2
39939.718750	44.68		82.23	37.55	5000.0	1000.000	100.0	V	30.0	20.2

Table 8.6-4: Radiated emissions results

Notes: ¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)



## 8.7 FCC 27.54 Frequency Stability

#### 8.7.1 Definitions and limits

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

#### 8.7.2 Test summary

Test date	December 1, 2023	Temperature	3 °C
Test engineer	Chenhao Ma Wireless technician	Air pressure	1003 mbar
Verdict	Pass	Relative humidity	58%

#### 8.7.3 Observations, settings and special notes

The EUT was configured to continuously transmit an modulated signal. The frequency measurement was performed using the marker->signal count functionality of the spectrum analyzer. The only requirement from Part 27 is that the carrier stays within the allocated band.

Test method: ANSI C63.26 Section 5.6.

#### 8.7.4 Test data

#### Band n77:

Table 8.7-1: Frequency	stability	results,	band n77
------------------------	-----------	----------	----------

Test conditions	Frequency, MHz
+50 °C, Nominal	3840.000
+40 °C, Nominal	3840.000
+30 °C, Nominal	3840.000
+20 °C, 138 VAC	3840.000
+20 °C, Nominal	3840.000
+20 °C, 102 VAC	3840.000
+10 °C, Nominal	3840.000
0 °C, Nominal	3840.000
-10 °C, Nominal	3840.000
-20 °C, Nominal	3840.000



# **Section 9.** Block diagrams of test setups

# 9.1 Radiated emissions set-up



Figure 9.1-1: Below 1 GHz setup



Figure 9.1-2: Above 1GHz setup

End of report