

<Normal Mode with Ant. 5>

<1Mbps>

99% Occupied Bandwidth Plot on Channel 00



Date: 5.JAN.2021 00:35:07





99% Occupied Bandwidth Plot on Channel 39

Date: 5.JAN.2021 00:39:38





Date: 5.JAN.2021 00:43:44



99% Occupied Bandwidth Plot on Channel 00



Date: 5.JAN.2021 00:48:00

99% Occupied Bandwidth Plot on Channel 39



Date: 5.JAN.2021 00:52:39

99% Occupied Bandwidth Plot on Channel 78

Date: 5.JAN.2021 00:58:42

<3Mbps>

99% Occupied Bandwidth Plot on Channel 00

Date: 5.JAN.2021 01:03:05

99% Occupied Bandwidth Plot on Channel 39

Date: 5.JAN.2021 01:09:14

Date: 5.JAN.2021 01:13:13

<Camera Mode with Ant. 6>

<1Mbps>

99% Occupied Bandwidth Plot on Channel 00

Date: 30.DEC.2020 20:17:07

99% Occupied Bandwidth Plot on Channel 39

Date: 30.DEC.2020 20:24:19

99% Occupied Bandwidth Plot on Channel 78

Date: 30.DEC.2020 21:03:50

99% Occupied Bandwidth Plot on Channel 00

Date: 30.DEC.2020 21:09:51

99% Occupied Bandwidth Plot on Channel 39

Date: 30.DEC.2020 21:17:03

99% Occupied Bandwidth Plot on Channel 78

Date: 30.DEC.2020 21:25:35

<3Mbps>

99% Occupied Bandwidth Plot on Channel 00

Date: 30.DEC.2020 21:35:31

99% Occupied Bandwidth Plot on Channel 39

Date: 30.DEC.2020 22:00:38

99% Occupied Bandwidth Plot on Channel 78

Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.5 Output Power Measurement

3.5.1 Limit of Output Power

The maximum peak conducted output power of the intentional radiator shall not exceed the following: For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts.

3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

- 1. The testing follows ANSI C63.10-2013 clause 7.8.5.
- 2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Measure the conducted output power with cable loss and record the results in the test report.
- 5. Measure and record the results in the test report.

3.5.4 Test Setup

3.5.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.5.6 Test Result of Average Output Power (Reporting Only)

Please refer to Appendix A.

3.6 Conducted Band Edges Measurement

3.6.1 Limit of Band Edges

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Procedures

- 1. The testing follows ANSI C63.10-2013 clause 7.8.6.
- 2. Set to the maximum power setting and enable the EUT transmit continuously.
- 3. Set RBW = 100kHz, VBW = 300kHz. Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used.
- 4. Enable hopping function of the EUT and then repeat step 2. and 3.
- 5. Measure and record the results in the test report.

3.6.4 Test Setup

Spectrum Analyzer

3.6.5 Test Result of Conducted Band Edges

<Normal Mode with Ant. 4>

<1Mbps>

Low Band Edge Plot on Channel 00

Date: 29.DEC.2020 23:45:24

High Band Edge Plot on Channel 78

Date: 29.DEC.2020 23:56:42

Low Band Edge Plot on Channel 00

Date: 30.DEC.2020 00:02:08

High Band Edge Plot on Channel 78

Date: 30.DEC.2020 00:15:45

<3Mbps>

Low Band Edge Plot on Channel 00

Date: 30.DEC.2020 00:20:44

High Band Edge Plot on Channel 78

Date: 30.DEC.2020 00:30:34

<Normal Mode with Ant. 5>

<1Mbps>

Low Band Edge Plot on Channel 00

Date: 5.JAN.2021 00:34:30

High Band Edge Plot on Channel 78

Date: 5.JAN.2021 00:43:05

Low Band Edge Plot on Channel 00

Date: 5.JAN.2021 00:47:24

High Band Edge Plot on Channel 78

Date: 5.JAN.2021 00:58:06

<3Mbps>

Low Band Edge Plot on Channel 00

Date: 5.JAN.2021 01:02:28

High Band Edge Plot on Channel 78

Date: 5.JAN.2021 01:12:36

<Camera Mode with Ant. 6>

<1Mbps>

Low Band Edge Plot on Channel 00

Date: 30.DEC.2020 20:16:29

High Band Edge Plot on Channel 78

Date: 30.DEC.2020 21:03:14

Low Band Edge Plot on Channel 00

Date: 30.DEC.2020 21:09:07

High Band Edge Plot on Channel 78

Date: 30.DEC.2020 21:24:50

<3Mbps>

Low Band Edge Plot on Channel 00

Date: 30.DEC.2020 21:34:52

High Band Edge Plot on Channel 78

Date: 30.DEC.2020 22:06:24

3.6.6 Test Result of Conducted Hopping Mode Band Edges

<Normal Mode with Ant. 4>

<1Mbps>

Hopping Mode Low Band Edge Plot

Date: 29.DEC.2020 23:40:48

Hopping Mode High Band Edge Plot

Date: 30.DEC.2020 00:48:01

Hopping Mode Low Band Edge Plot

Date: 29.DEC.2020 23:42:22

Hopping Mode High Band Edge Plot

Date: 29.DEC.2020 23:42:56

<3Mbps>

Hopping Mode Low Band Edge Plot

Date: 29.DEC.2020 23:43:51

Hopping Mode High Band Edge Plot

Date: 29.DEC.2020 23:43:29

<Normal Mode with Ant. 5>

<1Mbps>

Hopping Mode Low Band Edge Plot

Date: 5.JAN.2021 00:30:19

Hopping Mode High Band Edge Plot

Date: 5.JAN.2021 00:30:35

Hopping Mode Low Band Edge Plot

Date: 5.JAN.2021 00:31:02

Hopping Mode High Band Edge Plot

Date: 5.JAN.2021 00:31:27

<3Mbps>

Hopping Mode Low Band Edge Plot

Date: 5.JAN.2021 00:32:18

Hopping Mode High Band Edge Plot

Date: 5.JAN.2021 00:31:59

<Camera Mode with Ant. 6>

<1Mbps>

Hopping Mode Low Band Edge Plot

Date: 30.DEC.2020 20:08:41

Hopping Mode High Band Edge Plot

Date: 30.DEC.2020 20:10:18

Hopping Mode Low Band Edge Plot

Date: 30.DEC.2020 20:12:02

Hopping Mode High Band Edge Plot

Date: 30.DEC.2020 20:12:42

<3Mbps>

Hopping Mode Low Band Edge Plot

Date: 30.DEC.2020 20:13:50

Hopping Mode High Band Edge Plot

Date: 30.DEC.2020 20:14:36

3.7 Conducted Spurious Emission Measurement

3.7.1 Limit of Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

3.7.2 Measuring Instruments

See list of measuring equipment of this test report.

3.7.3 Test Procedure

- 1. The testing follows ANSI C63.10-2013 clause 7.8.8.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.
- 5. Measure and record the results in the test report.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.7.4 Test Setup

TEL : 886-3-327-3456 FAX : 886-3-328-4978 Report Template No.: BU5-FR15CBT Version 2.4

3.7.5 Test Result of Conducted Spurious Emission

<Normal Mode with Ant. 4>

<1Mbps>

CSE Plot on CH 00 between 30 MHz ~ 3 GHz

Date: 29.DEC.2020 23:46:49

CSE Plot on CH 00 between 2 GHz ~ 25 GHz

Date: 29.DEC.2020 23:47:19

Ref Level	30.00 dBn 30 dB	Offset	11.40 dB 👄	RBW 100 k VBW 300 k	Hz Hz Mode	Auto Sweer	1		
1Pk View							-		
20 dBm	01 17 010	dam			M M	1[1] 2[1]		17.91 dBm 2.43910 GHz -44.91 dBm	
10 dBm	01 17.510								2.62820 GHz
0 dBm		090 dBm						<	
-10 dBm									
-20 dBm									
-30 dBm									
-40 dBm		. 13						M2	
p5.Qr.dBbo wn d	بقديمط يطلطنينا	here and the second	when and a free free free free free free free fr	y server and a feature of the server of the	contention and	an water and the sould	www.whe	eh vertedar eta ar	hand get and remains
-60 dBm									
Start 30.0	MHz			691	nts			81	on 3.0 GHz

CSE Plot on CH 39 between 30 MHz ~ 3 GHz

Date: 29.DEC.2020 23:50:13

CSE Plot on CH 39 between 2 GHz ~ 25 GHz

Att	30 dB	SWT	230 ms 👄	VBW 300 k	Hz Mode	Auto Swee	p			
1Pk View						4741			17.07.40.	
					IVI	1[1]		2.4490 GH		
dBm—	D1 17.970	dBm			M	2[1]		-41.16 dBn		
	01 171570					Ĩ	Ĩ	15.8970 GH		
0 dBm)				-	
asm-		030 dBm					2			
0 dBm									4	
0 dBm-	e		e					-	5.	
0 dBm										
O dDes					N	12				
-U aBm	, Automan	m	And in	H. Mashad	are allow that	hunderward	mound	- Andrew 10	hanne	
0 dBm	with an i	hermond	Printinger - 10-	when and all	and the second second				0.000	
50 dBm					1		-		-	
taut 2.0.0	LI-2			691	nts			Stor	25 0 GH:	

Date: 29.DEC.2020 23:50:43

Att	30.00 dbh	SWT	29.7 ms 👄	VBW 300 k	Hz Mode	Auto Swee	5		
1Pk View									
20 dBm	D1 16.870	dBm			M	1[1]		M1	16.87 dBn 2.48210 GH -45.79 dBn 2.52510 GH
10 dBm						-			
0 dBm	—-D2 -3.	130 dBm							
-10 dBm									
-20 dBm	ii				4		i		
-30 dBm									
-40 dBm								M2	
15.a.deminute	<u>مەنلەنمەنمەنلەرىپ</u>	anadypeticher	uthurnetwo	uludoruthene	anthender	realized	Northeasternation	walnun	about and the state
-60 dBm									
Start 20.01	MU-7			601	nte				Stop 2.0 CHz

CSE Plot on CH 78 between 30 MHz ~ 3 GHz

Date: 29.DEC.2020 23:57:57

CSE Plot on CH 78 between 2 GHz ~ 25 GHz

Att	30 dE	SWT	230 ms 👄	VBW 300 k	Hz Mode	Auto Swee	p			
1Pk View										
0.dBm		10			M.	1[1] 2[1]		16.82 dB 2.4830 Gł -41.00 dB		
0 dBm	D1 16.820	dBm						1	5.5970 GF	
dBm		180 dBm								
0 dBm									<i>a</i>	
0 dBm	i a		<u></u>		<u>e</u>					
0 dBm										
O dBm	when when	Murhameth	ndununula Maria	unanter	mature	mallonung	manuturing	huveneverthe	unart unar	
i0 dBm										
				601				01		

Date: 29.DEC.2020 23:58:28

CSE Plot on CH 00 between 30 MHz ~ 3 GHz

Date: 30.DEC.2020 00:03:18

CSE Plot on CH 00 between 2 GHz ~ 25 GHz

Date: 30.DEC.2020 00:05:18

Refleve		Offset	11.40 dB 👄	RBW 100 k	Hz				(\	
Att	30 di	B SWT	29.7 ms 👄	VBW 300 k	Hz Mode	Auto Swee	р			
●1Pk View										
20 dBm					N	11[1]		15.33 dBn 2.43910 GH: M1 -45.52 dBn		
10 dBm	D1 15.330	dBm							2.63250 GHz	
0 dBm										
-10 dBm	D2 -4.	.670 dBm		-						
-20 dBm										
-30 dBm										
-40 dBm	-	-						M2		
5.Dudem	well the second	hunder	Anderstelling	gunchtennen	- untranspiration of	-downahile	ulibrahan	alundarily	handunahan	
-60 dBm			-							
Start 30.0	MHz			691	pts			st	op 3.0 GHz	

CSE Plot on CH 39 between 30 MHz ~ 3 GHz

Date: 30.DEC.2020 00:11:21

CSE Plot on CH 39 between 2 GHz ~ 25 GHz

Ref Level	30.00 dBm	Offset	11.40 dB 👄	RBW 100 k	Hz					
Att	30 dB	SWT	230 ms 👄	VBW 300 k	Hz Mode	Auto Swee	2			
1Pk View					M	1[1]		15.07 2.4490		
2₽ dBm────	01 15.070	dBm			M2[1]			41.96 dBn 5.6300 GH		
10 dBm										
) dBm		930 dBm								
20 dBm					-					
30 dBm-										
40 dBm					Ma					
50 dBm	apprendent wanted	Whiteman	and the second second	railed the serve	munun	monoully	habersolderte	downwithour	yunuluuru	
60 dBm										
Start 2.0 G	Hz			691	nts			Stor	25.0 GHz	

Date: 30.DEC.2020 00:12:39

Ref Level	30.00 dBn	offset	11.40 dB 👄	RBW 100 k	Hz		3			
1Pk View	30 ai	SWI	29.7 ms 🖷	VBW 300 F	HZ Mode	Auto Sweep	2			
20 dBm					M M	1[1] 2[1]		M1	1- 2.4 -4 2.6	4.65 dBn 7780 GH 6.18 dBn 0240 GH
10 dBm	01 14.650	dBm								
0 dBm										
-10 dBm		350 dBm								
-20 dBm					d		<u>ir</u> 6			
-30 dBm									_	
-40 dBm		-							M2	
c50 d8tadam	ىلىدىلىمەللەردىرىيە ب	ay Anthenthen	Proposition	-	aparteret former	a planerson th	Julinenault	when	nelumber	monter
-60 dBm							7			
Start 30.0 M	4Hz			691	pts	N	-		Stop	3.0 GHz

CSE Plot on CH 78 between 30 MHz ~ 3 GHz

Date: 30.DEC.2020 00:17:37

CSE Plot on CH 78 between 2 GHz ~ 25 GHz

Ref Level	30.00 dBn	offset	11.40 dB 👄	RBW 100 k	Hz					
Att	30 dE	SWT	230 ms 👄	VBW 300 k	Hz Mode	Auto Swee	р			
1Pk View										
					M	1[1]		14.29 dB		
1972								2.4830 GF		
0 dBm					M	2[1]		15.5970 GH		
	D1 14.290	dBm					-	1	0.0970 01	
0 dBm										
dBm			-							
		710 dBm-								
0 dBm							-			
0 dBm					-					
0 dBm			-							
0 dBm					Ma				5	
0 dBm	www.hill	helperson	hurtenanted	an hore preservance	monomet	whender	humahiman	houtenaber	hand	
0 dBm										
tart 2.0 G	Hz			691	nts			Stor	1 25.0 GH	

Date: 30.DEC.2020 00:18:07

<3Mbps>

CSE Plot on CH 00 between 30 MHz ~ 3 GHz

Date: 30.DEC.2020 00:22:04

CSE Plot on CH 00 between 2 GHz ~ 25 GHz

1Dk View	30 UE	0 0 1 1	230 1115 🖷	YBW SOUR	m2 Moue	AULO SWEE	þ			
0 dBm		10			M M	1[1] 2[1]	1	1: 2.4 -40 15:		
J dBm	D1 13.030 0bm									
dBm										
.0 dBm		370 dBm							e	
0 dBm	2				<u>.</u>					
0 dBm										
0 dBm					Ma			1		
OrdBm-	herework	un unum	and all and the states	normania	who have been a	mundulund	montrational	a wheel where the	hundraw	
0 dBm										

Date: 30.DEC.2020 00:23:05

Ref Level	30.00 dBn		11.40 dB 🖷	VBW 200 k	HZ HZ Modo	Auto Curon				
1Pk View	50 41	5 341	29.7 113	1011 300 K	nz moue	Auto Swee	,			
20 dBm					N N	11[1] 12[1]		1; 2.4; M1 −4- ¥ 2.9;		
10 dBm	01 15.250	ubiir								
0 dBm							-			
-10 dBm	——D2 -4.	750 dBm					-			
-20 dBm	<u>.</u>		r		-	0	35.			
-30 dBm										
-40 dBm							-		Ma	
-2014Browal	-tudogetudet	ada shi mby being	an marchildren		houhaman	allehallowly	Www.www.ul	whene	muchanout	
-60 dBm							7			
Start 30.0	MHz			691	nts				Stop 3.0 CHz	

CSE Plot on CH 39 between 30 MHz ~ 3 GHz

Date: 30.DEC.2020 00:27:07

CSE Plot on CH 39 between 2 GHz ~ 25 GHz

Pofloyol	20.00.480	Offcot	11 40 dB	PRW 100 k	L1-2				(v	
Att	30.00 dbi	SWT	230 ms 👄	VBW 300 k	Hz Mode	Auto Swee	p			
1Pk View										
					M	1[1]		14.91 d 2.4490 (
dBm-					IVI:	2[1]		-40.47 dBm 15.5970 GHz		
10 dBm	D1 14.910 dBm									
) dBm										
10 dBm	— D2 -5.	090 dBm							-	
20 dBm			2	0					č.	
30 dBm										
40 dBm	AL				Manu Lund	Holeshand roles	1 MM	مر القطيب م		
50 dBm	whether and	howman	within	al she was				- Marinewit	- Charles - March	
60 dBm										
Start 2.0 G	Hz			691	pts			Stop	25.0 GHz	

Date: 30.DEC.2020 00:27:35

Spectrum Ref Level	30.00 dBm	Offset	11 40 dB 👄	PBW 100 l	·H7					[♥	
Att	30 dB	SWT	29.7 ms 👄	VBW 300 k	Hz Mode	Auto Swee	5				
●1Pk View											
20 d8m					N	12[1]			14.74 dBm 2.47780 GHz -45 78 dBm		
20 UBIII		10				12[1]		M1	2.	51650 GHz	
10 dBm	DI 14.740 c	IBM							_		
0 dBm									_		
-10 dBm	-D2 -5.2	:60 dBm							_		
-20 dBm										<i></i>	
-30 dBm											
-40 dBm							-	M2			
,,5Q,denouter	un all all and a second	a restructor	atternubling	manduran	-	an palled prover	whentround	mylin	while	handwhild	
-60 dBm							7		_		
Start 30.0 f	MHz			691	pts				Sto	p 3.0 GHz	
	Y					Measuri		N.M.M.M.	0.44	4	

CSE Plot on CH 78 between 30 MHz ~ 3 GHz

Date: 30.DEC.2020 00:31:44

CSE Plot on CH 78 between 2 GHz ~ 25 GHz

Ref Level	30.00 dBn	n Offset	11.40 dB 👄	RBW 100 k	Hz					
Att	30 de	SWT	230 ms 👄	VBW 300 k	Hz Mode	Auto Swee	р			
1Pk View										
					M1[1] M2[1]			14.08 dB 2.4830 GF -41.03 dB 15.5970 GF		
0 dBm										
	D1 14.080	dBm-								
0 dBm										
dBm			-							
	D2 -5.	920 dBm-							-	
l0 dBm									4	
0.40m			a							
O UBIII										
0 dBm										
o dom					Ma					
U dBm	un Willia	Justy	1. 1. 1. O. 1.	الجريد المراجع	outure	mariadurals	Lungermon 4	mangel	Whenteren	
i0 dBm	var •	hanor	Arnenal an						W	
50 dBm										
tart 2.0.0	4.2			601	nte			Pton	25.0.04	

Date: 30.DEC.2020 00:32:13

<Normal Mode with Ant. 5>

<1Mbps>

CSE Plot on CH 00 between 30 MHz ~ 3 GHz

Date: 5.JAN.2021 00:35:46

CSE Plot on CH 00 between 2 GHz ~ 25 GHz

Date: 5.JAN.2021 00:36:17

Ref Level	30.00 dBm	Offset	11.80 dB 👄	RBW 100 k	Hz					
Att	30 dE	SWT	29.7 ms 👄	VBW 300 k	Hz Mode	Auto Swee	0			
20 dBm	dBm		M1			1[1] 2[1]	[1] [1] N		16.68 dBn 2.43910 GH M1 -45.89 dBn	
10 dBm	D1 16.680	dBm							.96350 GH	
0 dBm	—_D2 -3.	320 dBm								
-10 dBm										
-20 dBm			in ș		<u>.</u>					
-30 dBm									-	
-40 dBm		-					a La cleanthe	at which performed a	M	
.50-98 000-060	ar a glabert an Arabite	Malloulonalonanda	and the second second	yuuuuuuuu	normaliter	freedown thracked	CRAN BRODEN		an professional a s	
•60 dBm										
Start 30.0	MHz		1	691	pts	ļ	I	St	00 3.0 GHz	

CSE Plot on CH 39 between 30 MHz ~ 3 GHz

Date: 5.JAN.2021 00:40:10

CSE Plot on CH 39 between 2 GHz ~ 25 GHz

Att	30 de	B SWT	230 ms 👄	VBW 300 k	Hz Mode	Auto Swee	o l			
1Pk View										
					M1[1]			16.34 dB		
					M	2[1]		-40.60 dB		
	D1 16.340	dBm	-					19.9240 G		
0 dBm										
dBm			-						-	
		.660 dBm								
0 dBm									0	
0 dBm-			5				.e		<i>4</i>	
0 dBm										
							M2			
-0 dBm		ки)		10100	and the second second	the states	and my little	Line 1	1.1.1.1.1	
yunder	where we want	Tremonia	dorraben in the tables on	without	Manna	an over le	nevel by see a	leventran	Monada	
50 dBm										
ou dBm										
				(01				01	05.0.011	

Date: 5.JAN.2021 00:40:41