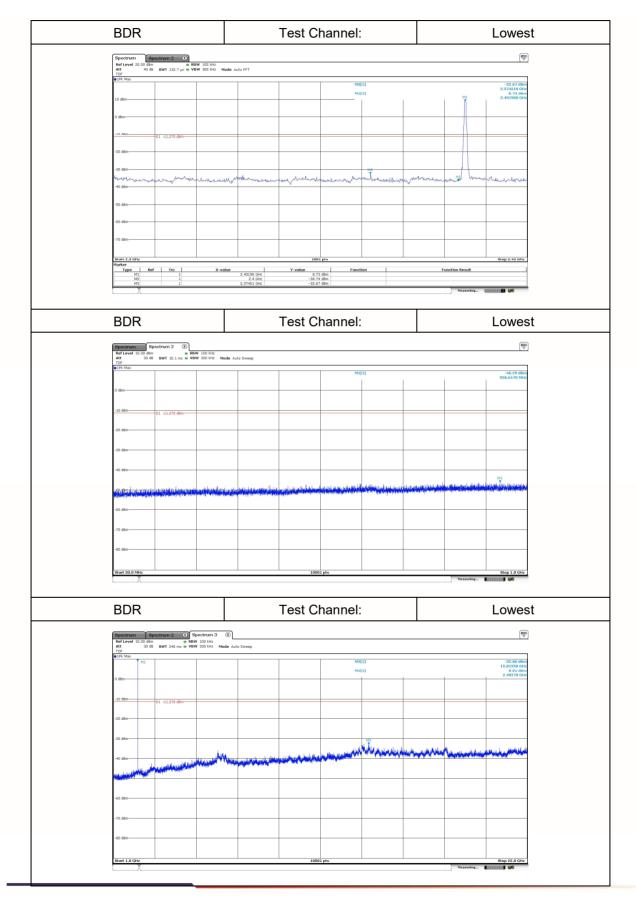


test plot as follows:

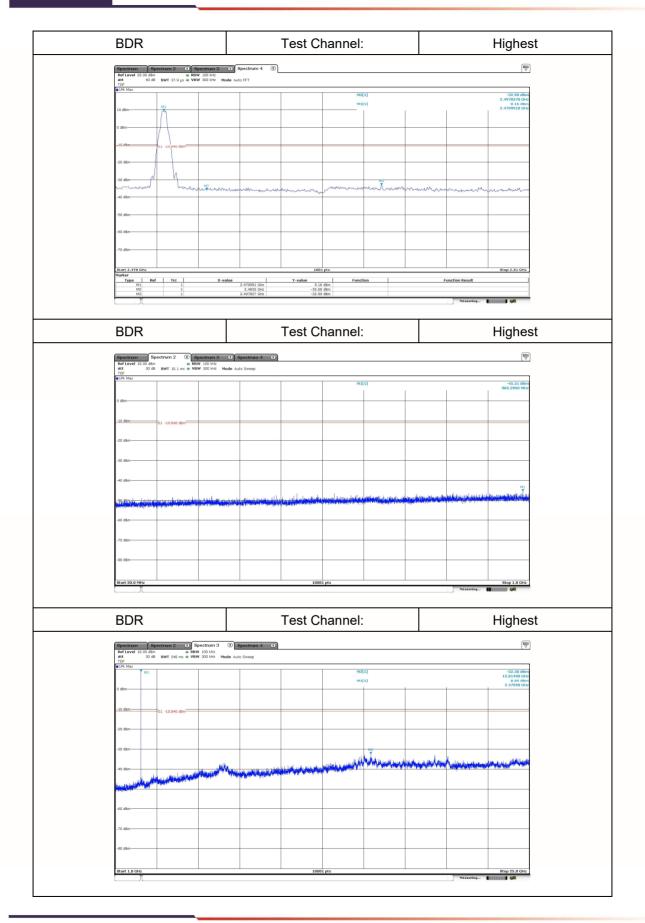


RF-FCC/IC-001 (ver.0)



BDR		Test Cl	nannel:			Middle
Spectrum Spectrum 2 (3) Ref Level 10.00 dBm (4) Att 30 dB SWT 10.1 ms (4) DF (Max)	Spectrum 3 (8) RBW 100 HHz VBW 300 KHz Mode Auto Sweep					(W)
IPk Max			M1[1]			-46.19 dBm 966.8780 MHz
0 dBm						
-10 dBm 01 -10.010 dBm						
-20 dBm						
-30 dBm						
-40 dBm						ML
179 dem and a local state of the state of the	and the subsection of the sector of the s	hadden stiger and a long the state of the state of the	idea al fan de general de la constante de la c	Hangerdeber	ataina hullui va partiit	n an
-60 dBm						
-70 dBm						
-00 dBm						
Start 30.0 MHz		1000	pts		Measuring	Stop 1.0 GHz
	1					
BDR		Test Cl	nannel:			Middle
Spectrum Spectrum 2 X Ref Level 10.00 dBm # Att 30 dB SWT 240 ms TOF * *	Spectrum 3 ③ RBW 100 kHz VBW 300 kHz Mode Auto Sweep	Test Cł	nannel:			Middle
	Spectrum 3 3 RDW 100 Hr; VBW 300 Hr; Mode Auto Sweep	Test Cl	M2[1]			(The second seco
Spectrum Spectrum 2 X Ref Level 10.00 dBm 40 9 Att 30 dB SWT 240 ms 9 TDF 615K Max 9 100 dB 100 dB	RBW 100 M/2 Mode Auto Sweep	Test Cl				(W)
Spectrum Spectrum 2 CI Ref Level 10.00 dfm • • Att 30 db SWT 240 md • OTP • • • • • IPK Max M1 • • •	Spectrum 3 (0) RRW 100 bit: Mode Auto Sreep	Test Cl	M2[1]			(The second seco
Spectrum Spectrum 2 C Ref Level 10.00 d/m # # Att 30 db SWT 240 ms TGF TWAY #1 # 0 dbh # #	Spectrum 3 20 Wew 500 Hz Mode Aufo Sweep	Test Cl	M2[1]			(The second seco
Spectrum Spectrum 2 C Int Lovel 13.00 dim m C ML 320 db SWT 240 ms C TOP MI 00 db MI -10.08m 01 -10.810 dbm ⁻¹ -01 -10.810 dbm ⁻¹			83[1] 83[1]			(The second seco
Bipectrum Spectrum 2 C For Lavel 1.00 dim C Att 20.08 SWT 240 ms BUR Most M1 C 0.05m M1 C -100 dim 01 -0.0 dim -20 dim 01 -0.0 dim			83[1] 83[1]			92.42 dim 15.45980 diz 0.9 diz 2.44110 diz
Spectrum Spectrum 2 C Int Lovel 13.00 dim m C ML 320 db SWT 240 ms C TOP MI 00 db MI -10.08m 01 -10.810 dbm ⁻¹ -01 -10.810 dbm ⁻¹			M2[1]	(philological philological phil	Autor Autoritation and all	92.42 dim 15.45980 diz 0.9 diz 2.44110 diz
Spectrum Spectrum 2 G Rat und 10.0 dm Image: Constraint 2 Image: Constraint 2 Image: Constraint 2 Top 20.8 BWT 24 mm Image: Constraint 2 Image: Constraint 2 Image: Constraint 2 0 dBm Image: Constraint 2 Image: Constraint 2 Image: Constraint 2 Image: Constraint 2 -30 dBm Image: Constraint 2 Image: Constraint 2 Image: Constraint 2 Image: Constraint 2 -30 dBm Image: Constraint 2 Image: Constraint 2			83[1] 83[1]			92.42 dim 15.45980 diz 0.9 diz 2.44110 diz
Spectrum Spectrum 2 G Rat und 10.0 dm Image: Constraint 2 Image: Constraint 2 Image: Constraint 2 Top 20.8 BWT 24 mm Image: Constraint 2 Image: Constraint 2 Image: Constraint 2 0 dBm Image: Constraint 2 Image: Constraint 2 Image: Constraint 2 Image: Constraint 2 -30 dBm Image: Constraint 2 Image: Constraint 2 Image: Constraint 2 Image: Constraint 2 -30 dBm Image: Constraint 2 Image: Constraint 2			83[1] 83[1]			92.42 dim 15.45980 diz 0.9 diz 2.44110 diz
Spectrum Spectrum 2 C Ref Level 30.00 dm			83[1] 83[1]			92.42 dim 15.45980 diz 0.9 diz 2.44110 diz
Spectrum Spectrum 2 C Att 30.0 dim Tot Tot Tot 9.0 dim 10.0 dim 10.0 dim J.10.0 dim 61.1 0 10.0 dim J.30.0 dim 0110.0 dim 0110.0 dim 10.0 dim J.30.0 dim 0.0 dim 0.0 dim 0.0 dim 0.0 dim			83[1] 83[1]			92.42 dim 15.45980 diz 0.9 diz 2.44110 diz
Spectrum Spectrum C Ref Lovel 32.0 dim WT 2.4d ms C 107 0.0 m 10.0 dim C 0.0 dim 0.1 -0.0 10 dim C C -10.0 dim 0.1 -0.0 10 dim C C -30 dim 0.1 -0.0 10 dim C C -30 dim 0.0 dim C C C -30 dim 0.0 dim C C C C -30 dim 0.0 dim C						92.42 dim 15.45980 diz 0.9 diz 2.44110 diz







EDR(2M)			Test C	hannel:				Lowes
Spectrum Spectrum 2	Spectrum 3	Spectrum 4 8						
Ref Level 20.00 dBm Att 40 dB SWT 132. TDF 91Pk Max	 RBW 100 kHz 7 µs VBW 300 kHz 	Mode Auto FFT						
CAPA INSA				M3 M3				-34,55 dBm 2,388530 GHz 4,49 dBm 2,402080 GHz
10 dBm							M1	2.402080 GHz
0 dBm								
-10 dBm	dPm-							
-20 dBm								
-30 dBm		alat an in a		a the second second		M3 M3	wind how	
-40 dBm	mentle adata proved	new Marine Law	denter marine	and here with	mounderstowender	ho	www.	to the house
-50 dBm								
-60 dBm								
-70 dBm								
Start 2.3 GHz			100	t pts				5Lup 2.+2 GHz
Marker Ref Trc M1 M2 M3 M3	1 1	2.40208 GHz 2.4 GHz 2.38853 GHz	Y-value 4.43 -35.62 -34.55	dBm dBm	ion	1	unction Result	
M3	1	2.38853 GHz	-34.55	dBm			Measuring	6
EDR(2M)			Test C	hannel:				Lowes
Spectrum 2	(8) Spectrum 3	Spectrum 4 Spectrum 4						(W)
Spectrum Spectrum 2 Ref Level 10.00 dBm Att Att 30 dB SWT 10.1 TOF FIK Max	 RBW 100 kHz ms VBW 300 kHz 	Mode Auto Sweep						
				MI	[1]			-45.52 dBm 952.6200 MHz
0 dBm								
-10 dBm								
-20 dBm-	dBm							
-30 dBm								
-40 dBm								
. 59, têrral ha cotác an diko hakatiran	n statute desiders	al ana il a debri del del del	ter	alaana kaasa	and the fragmentation	mannalanda	Just Hartleburg	a chu chu an
				a lind possible in the case		and a second	1	
-60 dBm-								
-70 dBm								
-80 dBm								
Start 30.0 MHz			1000	1 pts			Manager	Stop 1.0 GHz
EDR(2M)			Test C	hannel:				Lowes
Spectrum Spectrum 2 Ref Level 10.00 dBm Att Att 30 dB SWT 240 TOF Sector 2	 RBW 100 kHz ms VBW 300 kHz 	(I) Spectrum 4 (I)						(W)
IPk Max M1				M2				-33.03 dBm 15.81490 GHz
0 dBm-				MI				2.00 dBm 2.40270 GHz
-10 dBm								
-20 dBm	dBm							
		Milliographicalder		. Teaching and the Aster	Mark Maria	and the second	A	with here with the built
-40 dBm	المالية المالية	Willingtophythesethesethe	in the second second	Providence of the second s		and the second secon	AND A DOMESTIC	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
-60 dBm								
-70 dBm		1	1	1				
-70 dBm								
			1000					Stop 25.0 GHz



DR(2M)	Test C	Channel:	Middle
Spectrum Spectrum 2 Spectrum Ref Level 10.00 dfm # RBW 100 M Att 30 dB SWT 10.1 ms * VBW 300 M	n 3 🛞 Spectrum 4 🗷		()
Att 30 dB SWT 10.1 ms VBW 300 ki TOF 1Pk Max	Hz Mode Auto Sweep		
		M1[1]	-46.40 dBm 898.1120 MHz
0 dBm			
-10 dBm			
-20 dBm			
-30 dBm			
-40 dBm			
39.999 stores and an other day and a sufficiency	al, da	, and dr. als. In text hand its and so marked	wire west the parts of second second in the second s
-60 dBm-	a (1) a series i para la series de la series y de series de la series de la series de la series de la series d	and the state of the	
-70 dBm			
-80 dBm-			
Start 30.0 MHz	10	001 pts	Stop 1.0 GHz Neasuring
DR(2M)	Test C	Channel:	Middle
Spectrum Spectrum 2 3 Spectrum	13 🕄 Spectrum 4 💌	Channel:	Middle (\vec{w})
Spectrum Spectrum 2 Spectrum Ref Level 10.00 dBm RBW 100 kH Att 30 dB swr 240 ms vBW 300 kH TOF	13 🕄 Spectrum 4 💌		(₩
Spectrum Spectrum Spectrum Att load dim 9 RBW 300 M TOP 30 di SWT 240 ms # YBW 300 M #IPF Mose MI	13 🕄 Spectrum 4 💌		1 (1)
Spectrum Spectrum 2 Spectrum 2 Spectrum 2 Spectrum 2 Spectrum 3 Spectrum	13 🕄 Spectrum 4 💌	M2[1]	₩ -02.21.00m
Spectrum Spectrum C Spectrum Ref Level 10.00 dlm # R8w 100 hit # R8w 100 hit Att 30 db SVT 240 ms * V8W 200 hit TOP * * * * 0 dbm - - - - - -10 dbm - - - - - -	13 🕄 Spectrum 4 💌	M2[1]	1 (1)
Spectrum Spectrum C Spectrum Ref Level 10.00 dlm # R8w 100 M # R8w 100 M Att 30 dls \$ WT 240 ms # V8W 300 H T00 # R8w 100 M \$ 00 M 0 dls # 1 \$ 0 dls	13 🕄 Spectrum 4 💌	M2[1]	1 (1)
Spectrum Spectrum Spectrum Spectrum Spectrum Ref Lovel 10.00 dlm 0 0 0 0 000 H To 20.00 dlm WT 200 H 0 0 0 0 0 0 0 0 0 0 1.518 dlm 0 0 -20 dlm 0 1.518 dlm 0 0 -0 -0 -0	O O	M9[1]	
Spectrum Spectrum Spectrum Spectrum Spectrum Ref Lovel 10.00 dlm 0 0 0 0 000 H To 20.00 dlm WT 200 H 0 0 0 0 0 0 dbm 0 0 15.518 dbm 0 0 -0 <td>O O</td> <td>M9[1]</td> <td>1 (1) </td>	O O	M9[1]	1 (1)
Spectrum Spectrum Spectrum Spectrum Spectrum Ref Lovel 10.00 dlm 0 0 0 0 000 H To 20.00 dlm WT 200 H 0 0 0 0 0 0 dbm 0 0 15.518 dbm 0 0 -0 <td>13 🕄 Spectrum 4 💌</td> <td>M9[1]</td> <td></td>	13 🕄 Spectrum 4 💌	M9[1]	
Spectrum Spectrum Spectrum Spectrum Spectrum Ref Lovel 10.00 dlm 0 0 0 0 000 H To 20.00 dlm WT 200 H 0 0 0 0 0 0 dbm 0 0 15.518 dbm 0 0 -0 <td>O O</td> <td>M9[1]</td> <td></td>	O O	M9[1]	
Spectrum Spectrum Spectrum Spectrum Spectrum M1 uvel 10.00 dlm 0.00 dlm 0.00 dlm 0.00 dlm 0.00 dlm 010 Mm 0.00 dlm 0.01 dlm 0.00 dlm 0.00 dlm 0.00 dlm -00 dlm 0.1 -15.510 dlm 0.01 -15.510 dlm 0.01 dlm 0.01 dlm 0.01 dlm	O O	M9[1]	
Spectrum Spectrum Spectrum Spectrum Ref Lovel 10.00 dfm # Rev 100 H # Rev 100 H 10 dfm 0 dfm # Rev 100 H 0 dfm	O O	M9[1]	
Spectrum Spectrum Spectrum Spectrum Spectrum Ref Lovel 12.00 dlm = ERW 1200 dlm = ERW 1200 dlm 10 dlm 20.00 dlm WT 200 mg W VRW 200 st = = = 0 dlm - - - - = = = -00 dlm - - - - - - - -00 dlm - - - - - - - -00 dlm - - - - - - - -00 dlm - - - - - - - -00 dlm - - - - - - - -00 dlm - - - - - - - -00 dlm - - - - - - - - - - - - - - - - <td>3 3 3 Spectrum 4 3</td> <td>M9[1]</td> <td></td>	3 3 3 Spectrum 4 3	M9[1]	



EDR(2M)	Test Channel:	Highest
Spectrum Spectrum 2 Image: Construction 2 Image: Constructio	3 Spectrum 4 3	
Att 40 d8 BWT 37.9 µs • VBW 300 kHz M TDF 0 JPF Max	MD[1]	-34.05 dBm 2.4953780 GHz
10 dBm ///15	M1[1]	5.22 d0m 2.4800250 GHz
0 dBm		
-10 dBm		
-20 dBm		
-30 dem V V	man her man and man and the second	
-40 dBm-		
-50 d8m		
-70 d8m-		
51art 2.470 GHz	1001 μιν	Stup 2.81 GHz
Marker Trc X-v M1 1 1 M2 1 1		Function Result
M3 1	2.495378 GHz -34.05 dBm	Neasuring
EDR(2M)	Test Channel:	Highest
Spectrum Spectrum 2 Spectrum 3 Ref Level 10.00 dfm # R8W 100 kHz Att 30 d8 \$WT 10.1 ms WBW 300 kHz TDF ************************************	Spectrum 4 O	(m)
IPk Max	M1[1]	-45.90 dBm 975.4130 MHz
0 dBm		
-10 dBm		
-20 dBm		
-30 dBm		
-40 d8m		
	an de la construire des faits de la construire de la construire de la construire de la construire de la constru	ether sound, ather pairies and the south particular desired with the south
-60 d8m		
-70 dBm		
-80 dBm		
Start 30.0 MHz	10001 pts	Stop 1.0 GHz Measuring
EDR(2M)	Test Channel:	Highest
Spectrum Spectrum 2 O Spectrum 3 Ref Level 10.00 d8m @ RBW 100 bHz Mt 30 d8 SWT 240 mc @ VBW 300 bHz Mt	Spectrum 4	
Att 30 dB SWT 240 ms + WBW 300 kHz Mn TDF @15k Max	M2[1]	-33,19 dBm 24,31730 GHz
0 dBm	MI[X]	24.01700 GHz 24.01710 GHz 2.47950 GHz
-10 dBm-01 -14.770 dBm		
-20 d8m		
-30 d8m		M2
-to dam	Manager and the state of the st	white the second state of
-60 dBm		
-70 dBm		
-80 dBm		
Start 1.0 GHz	10001 pts	Stop 25.0 GHz
		Measuring



EDR(3M)		Test Channe	:		Lowest
	Spectrum 3 X Spectrum 4 0	1			[₩]
Att 20.00 com Att 40 dB SWT 132.7 µs • V TDF •1Pk Max	18W 100 kHz 18W 300 kHz Mode Auto FFT		13[1]		-34.58 dBm
10 d8m			13[1]		-34,38 dBm 2,387210 GHz 4,39 dBm 2,402080 GHz
				M1	
0 dBm					
-10 dBm					
-20 dBm					
-30 dBm				13 M2	
40 dBm-	and more manufactures and the	mannament	Munnerwand	human han	himmenlyenader
-50 dBm					
-60 dBm					
-70 dBm					
Start 2.3 GHz Marker Type Ref Trc	X-value	1001 pts Y-value Fur	nction	Function Result	Stop 2.42 GHz
M1 1 M2 1 M3 1	X-value 2.40208 GHz 2.4 GHz 2.38721 GHz	4.39 dBm -35.14 dBm -34.58 dBm			
				Measuring	440
EDR(3M)		Test Channe	:		Lowest
Spectrum Spectrum 2 (8) f	Spactrum 2 R Spactrum 4				Ţ
RefLevel 10.00 dBm RE Att 30 dB SWT 10.1 ms VE TOF	BW 100 kHz BW 300 kHz Mode Auto Sweep	•			
IPk Max		N	11[1]		-46.22 dBm 637.2080 MHz
0 dBm					
-10 dBm					
-20 dBm					
120 0811					
-30 dBm					
-40 dBm					
P2dBm. intraction of the state of the	an stall beneficity on an order to enable blind out		unionio alla dalla dalla	us de la constantia de la	upper and a state of the state
-60 dBm	and the first standard and the standard standards and the standard standards and the standard standards and the	and the second			
-70 dBm					
00.40					
-80 dBm					Stop 1.0 GHz
Start 30.0 MHz		10001 pts			
		10001 pts		Measuring	44
Stort 30.0 MHz		Test Channe]:	Measuring	Lowest
EDR(3M)	Spectrum 3 ③ Spectrum 4 2	Test Channe	:	Neasuring	Lowest
EDR(3M)	Spectrum 3 (3) Spectrum 4 (2) w 100 Hz w 300 Hz Mode Auto Sweep	Test Channe		Neasuring	
EDR(3M)	Spectrum 3 3 Spectrum 4 C W 300 Hit Mode Auto Swep	Test Channe	¥2(1)	Neasuring	
EDR(3M)	Spectrum 3 ① Spectrum 4 ② W 300 Me W 300 Me Auto Sweep	Test Channe	42[1]	Neasuring_	Lowest
EDR(3M)	Spectrum 3 ③ Spectrum 4 ② W 100 Hz W 200 Hz Mode Auto Sweep	Test Channe	42[1]	Keasuring	
EDR(3M)	Spectrum 3 ③ Spectrum 4 co w 100 Hz Mode Auto Sweep	Test Channe	42[1]	Keasuring	
EDR(3M)	W 100 Hz Mode Auto Sweep	Test Channe	A2(1) 14(1)		-92.39 dim 15.42980 defe 2.40270 defe
EDR(3M)	W 100 Hz Mode Auto Sweep	Test Channe	A2(1) 14(1)		-92.39 dim 15.42980 defe 2.40270 defe
EDR(3M)	W 100 Hz Mode Auto Sweep	Test Channe	A2(1) 14(1)		-92.39 dim 15.42980 defe 2.40270 defe
EDR(3M)	W 100 Hz Mode Auto Sweep	Test Channe	A2(1) 14(1)		-92.39 dim 15.42980 defe 2.40270 defe
EDR(3M)	W 100 Hz Mode Auto Sweep	Test Channe	A2(1) 14(1)		-92.39 dim 15.42980 defe 2.40270 defe
EDR(3M)	W 100 Hz Mode Auto Sweep	Test Channe	A2(1) 14(1)		-92.39 dim 15.42980 defe 2.40270 defe
EDR(3M)	W 100 Hz Mode Auto Sweep	Test Channe	A2(1) 14(1)		-92.39 dim 15.42980 defe 2.40270 defe
EDR(3M)	W 100 Hz Mode Auto Sweep	Test Channe	A2(1) 14(1)		-92.39 dim 15.42980 defe 2.40270 defe



EDR(3M)	Test C	nannel:	Middl	le
Spectrum Spectrum 2 Spectrum 3 Ref Level 10.00 dbm •• R8W 100 Hz Att 30 db SWT 10.1ms VBW 300 Hz	(8) Spectrum 4 (8)			Ð
Att 30 dB SWT 10.1 ms VBW 300 kHz TOF IPk Max	Mode Auto Sweep	M1[1]	-46.14 dBr	2100
0 dRm		matel	836.1350 MH	Hz
-10 dBm-				
01 -14.990 dBm				
-20 dBm				
-30 dBm				
~40 dBm			nite of the second s	
	enter and the second single indertains		a 1997 al la compañía da completa completa da completa da completa da completa da completa da completa da comp	alla a
-60 dBm				-
-70 dBm-				-
-80 d8m				_
Start 30.0 MHz	1000	Lpts	Stop 1.0 GHz	łz.
			Measuring 🚺 🚧	
EDR(3M)	Test C	nannel:	Middl	le
		nannel:	Middl	
				<u>,</u>
Spectrum Spectrum O Spectrum Att 30 db 9 Role 9 Role 30 Hz Att 30 db WT 240 ms 9 WW 300 Hz 9 FMW 300 Hz 0 FM 30 db WT 240 ms 9 WW 300 Hz 9 FMW 300 Hz				
Spectrum Spectrum C Spectrum Sp		M2[1]	(Q	
Spectrum O Spectrum		M2[1]	(Q	
Spectrum Spectrum C Spectrum Sp		M2[1]	(Q	
Spectrum Spectrum O Spectrum	Deecrum 4 O	80[1] 80[1] 80[1]	-92.96 (M -92.56 (M -93.56 (M -94.56 (M -94.56 (M) -94.56 (M) -94.	B▼ 3m Hz
Spectrum Spectrum O Spectrum	Deecrum 4 O	80[1] 80[1] 80[1]	-92.96 (M -92.56 (M -93.56 (M -94.56 (M -94.56 (M) -94.56 (M) -94.	B▼ 3m Hz
Spectrum Spectrum O Spectrum		80[1] 80[1] 80[1]	-92.96 (M -92.56 (M -93.56 (M -94.56 (M -94.56 (M) -94.56 (M) -94.	B▼ 3m Hz
Spectrum Spectrum O Spectrum	Deecrum 4 O	80[1] 80[1] 80[1]	-92.96 (M -92.56 (M -93.56 (M -94.56 (M -94.56 (M) -94.56 (M) -94.	B▼ 3m Hz
Spectrum O Spectrum O Spectrum C Spectrum	Deecrum 4 O	80[1] 80[1] 80[1]	-92.96 (M -92.56 (M -93.56 (M -94.56 (M -94.56 (M) -94.56 (M) -94.	B▼ 3m Hz
Spectrum O Spectrum	Deecrum 4 O	80[1] 80[1] 80[1]	-92.96 (M -92.56 (M -93.56 (M -94.56 (M -94.56 (M) -94.56 (M) -94.	B▼ 3m Hz
Spectrum O Spectrum	Deecrum 4 O		-92.96 (M -92.56 (M -93.56 (M -94.56 (M -94.56 (M) -94.56 (M) -94.	



EDR(3M)	Test	Channel:		Highes
Spectrum Spectrum 2 O Spectrum 2 O Spectrum 2 Spectrum 2 <t< td=""><td>ctrum 3 3 Spectrum 4 3</td><td></td><td></td><td>Ē</td></t<>	ctrum 3 3 Spectrum 4 3			Ē
Att 40 dB SWT 37.9 µs ⊕ VBW 3 TDF ●1Pk Max	800 kHz Mode Auto FFT	M3[1]		-33.55 dBm
10 d8m		M1[1]		2.4941210 GHz 5.32 dBm 2.4800930 GHz
0 dBm				
-10 dkm				
-20 dBm				
-30 dem V V	M2 man how man and how man	ally withour many men	mahan	mann
-40 d8m				
-50 d8m				
-70 dBm-				
Start 2.478 GHz		1001 pts		5tup 2.31 GHz
Marker Type Ref Trc M1 1	X-value Y-value 2.480093 GHz 2.4835 GHz 2.494121 GHz		Function Result	
M2 1 M3 1	2.494121 GHz	-33.55 dBm] Measuring.	
EDR(3M)	Taat	Channel:		Highes
		Channel.		
Spectrum Spectrum 2 Spectrum	ctrum 3 🗶 Spectrum 4 🗶 100 kHz 300 kHz Mode Auto Sweep			(₩)
IPk Max		M1[1]		-46.03 dBm 789.5800 MHz
0 dBm				
-10 dBm				
-20 dBm-				
-30 dBm				
-40 dBm			M1	
172 4 10 to an index of a standard later the	lahan iyo dalala ayin bila ayin dalarada	n fan de falleten of an preter de lite widerek en ande oarde servier	saaluibeteiselle ketelenteetei	a di kana da ya kana da kana d
-60 dBm				
-70 dBm				
-80 dBm				
Start 30.0 MHz		10001 pts	Measuring.	Stop 1.0 GHz
EDR(3M)	Test	Channel:		Highes
Spectrum Spectrum 2 Spectrum Ref Level 10.00 dbm = RBW 1 = RBW 1 Att 30 db SWT 240 ms = VSW 2	ctrum 3 (E) Spectrum 4 (E)			(T T T T T T T T T T T T T
IPF Max	000 kH2 Mode Auto Sweep	M2[1]		-33.00 d8m 19,47940 GHz
0 dBm		MI[I]		19,47940 GHz 4,39 dBm 2,47950 GHz
-10 dBm				
-20 dBm				
-30 dem			M2	
-40 dem	halaan MM direeyaa halaa yi hirai hiimaa ku	and the second	and the second	للمرجلة فالمراجع
والمحاولة المنافقة المحاولة والمحاولة و	infilmingen an Kanifundhan anatorikan da anatori an ana a			
-60 dBm				
-70 dBm				
-80 dBm				
				Stop 25.0 GHz
Start 1.0 GHz		10001 pts		



BDR	Test N	/lode:	Норрі
Spectrum Spectrum 2 Sp Ref Level 20.00 dfm RBV RBV Att 40 d8 SWT 132.7 µs VBV TOF INK Max	ectrum 3 3 Spectrum 4 3		(¤
OTHK Max		M3[1]	-34.48 dB 2.386730 G
10 dBm		M1[1]	2.366730.Gi 9.3647 M3 2.406030.Gi
0 dBm			
-10.dRm-01 -10.8+0 dBm			
-20 dBm			<u></u>
-30 dBm-			
man many many	mandred and and and and and and and and and an	money have all the second	management
-40 dBm			
-50 dBm			
-60 dBm			
-70 dBm			
Start 2.3 GHz Marker	1001	pts	5tup 2.42 GH
Type Ref Trc M1 1	X-value Y-value	Function	Function Result
M2 1 M3 1	2-000 94 - 9.16 2.498 - 2.3873 64 - 34.48 2.3873 64 - 34.48 (Honni
BDR	2.360 -7721 2.3872 00 -7721 -34.40		Норрі
BDR Spectrum Spectrum 2 Spectrum Spectrum Ret Lawa 2.00 dim Set 37.97.97.97 VBW Not Set 58.198 VT 37.97.97 VBW	Test N		
MO2 3 MO2 3 BDDR 3 Spectrum O Ref Lavel 20.00 (dm # NAW Att 40.00 (km # NAW MU7 40.00 (km # NAW MU7	Test N	Node:	Hoppi
BDR Spectrum Spectrum 2 Spectrum Spectrum Ret Lawa 2.00 dim Set 37.97.97.97 VBW Not Set 58.198 VT 37.97.97 VBW	Test N	/lode:	Hoppi
MO2 3 MO2 3 BDDR 3 Spectrum O Ref Lavel 20.00 (dm # NAW Att 40.00 (km # NAW MU7 40.00 (km # NAW MU7	Test N	Node:	Hoppi
MO2 3 MO2 3 BDDR 3 Spectrum O Ref Lavel 20.00 (dm # NAW Att 40.00 (km # NAW MU7 40.00 (km # NAW MU7	Test N	Node:	Hoppi
MO2 3 MO2 3 BDDR 3 Spectrum O Ref Lavel 20.00 (dm # NAW Att 40.00 (km # NAW MU7 40.00 (km # NAW MU7	Test N	Node:	Hoppi
MO2 3 MO2 3 BDDR 3 Spectrum O Ref Lavel 20.00 (dm # NAW Att 40.00 (km # NAW MU7 40.00 (km # NAW MU7	Test N	Node:	Hoppi
MO2 1 MO3 1 BDDR 1 Spectrum Spectrum 0 Ref Lavel 2.0.0 B BWT 37.0 µ RW MO3 BWT 37.0 µ VBW FR 10 dbp P11 10.200 dbm P11 p.ddd P11 10.200 dbm P11	Test N	Aode:	Hoppi
Spectrum	Test N	Node:	Hoppi
MO 1 MO 1 BDDR Spectrum 2 Spectrum 2 Ref Lawel 2.0.0 dim FBW Vir Lawel 2.0.0 dim FBW	Test N	Aode:	(0.0000) (0.
Spectrum	Test N	Aode:	(0.0000) (0.
MO2 1 MO2 MO2	Test N	Aode:	(0.0000) (0.
MO 1 MO 1 MO <td>Test N</td> <td>Aode:</td> <td>(0.0000) (0.</td>	Test N	Aode:	(0.0000) (0.
MO 1 MO 1 MO <td>Test N</td> <td>Aode:</td> <td>(0.0000) (0.</td>	Test N	Aode:	(0.0000) (0.
MO 1 MO 1 MO 1 MO 1 MO 1 BDDR Spectrum 0 Ret Level 2.0.0 dbm 0 BWT 37.9 µJ = VBW MO 10 0 FBW 10 0 10 10 0 9 // Mo 10 10 0 10 10 0 10 0 10 0 -00 0 10 0 10 0 0 -00 0 0 10 0 0 0 0 -00 0	Test N	Aode:	(0.0000) (0.
MO 1 MO 1 MO <td>Test N</td> <td>Aode:</td> <td>Hoppi</td>	Test N	Aode:	Hoppi



DR(2M)	Test Mode:	Hopping
Spectrum Spectrum 2 Spectrum 3 Ref Level 20.00 dbm	3 (S) Spectrum 4 (E) 2 3 Mode Auto FFT	[m] ▼
TDF P1Pk Max	M1[1]	6.52 dBm
	M2[1]	2.406030 GHz - 25.95 dbm 2.400000 GHz
10 dBm-		
0 dBm		
-10 dBm		t Tra Atri Mala
01 -13.480 dBm		
-20 dBm		
-30 dBm		M3
Mar and the second and the second sec	and a second	M3 minute man
-50 d8m		
-60 dBm		
-70 dBm		
Start 2.3 GHz	2002 pts	Stup 2.42 GHz
Marker	X-value Function	Function Result
Type Ref Trc	2.40603 GHz 6.52 dBm	
	2, 4662, 944 2, 552, 886 2, 20179, 944 - 552, 886 2, 20179, 944 - 33, 82, 886 - 34, 886 - 34	Hoppin
DR(2M)	2.4650 041 2.53 dm 2.3070 041 -33.82 dm Test Mode:	Hopping
Spectrum Spectrum With South States Spectrum Spectrum With Spectrum With Spectrum Sp	2.4650 041 2.53 dm 2.3070 041 -33.82 dm Test Mode:	
DR(2M)	2.4652.044 2.5679.044 2.5679.044 -2.5679.044 -2.567.0466 -2.567.0467.0467.0467.046 -2.567.0467.046 -2.567.046 -2.567.0	Hopping
Spectrum Spectrum With South States Spectrum Spectrum With Spectrum With Spectrum Sp	2.4650 04 2.58 04 2.3879 04 3.52 04 3.389 04 3.399 04 3.390 04 3.399 04 3.3	Hopping
Spectrum Spectrum With South States Spectrum Spectrum With Spectrum With Spectrum Sp	2.4652.044 2.5679.044 2.5679.044 -2.5679.044 -2.567.0467.046 -2.567.0467.046 -2.567.0467.046 -2.567.0467.046 -2.567.04	Hopping
Mode 1	2.4652.044 2.5679.044 2.5679.044 -2.5679.044 -2.567.0467.046 -2.567.0467.046 -2.567.0467.046 -2.567.0467.046 -2.567.04	Hopping
Spectrum Spectrum With South States Spectrum Spectrum With Spectrum With Spectrum Sp	2.4652.044 2.5679.044 2.5679.044 -2.5679.044 -2.567.0467.046 -2.567.0467.046 -2.567.0467.046 -2.567.0467.046 -2.567.04	Hopping
Mode 1	2.4652.044 2.5679.044 2.5679.044 -2.5679.044 -2.567.0467.046 -2.567.0467.046 -2.567.0467.046 -2.567.0467.046 -2.567.04	Hopping
Mode 1	1	Hopping
Mode 1	2.4652.044 2.5679.044 2.5679.044 -2.5679.044 -2.567.0467.046 -2.567.0467.046 -2.567.0467.046 -2.567.0467.046 -2.567.04	Hopping
Mode 1	1	Hopping
Mode 1	1	Hopping
Mode 1	1	Hopping
Mode I	1	Hopping
Mode I	1	Hopping
Mode 1	1 4650 041 1 50 80 2 3879 042 30 7 50 80 7 50 80 7 50 80 7 50 80 7 50 80 7 50	2.079510 044 2.079510 044 2.079510 044 2.079510 044 2.079510 044 2.079510 044 2.079510 044
Mode 1	1	Hopping



DR(3M)				Test N	/lode:				Hoppi
Spectrum Sp Ref Level 20.00 dßm Att 40 dß TDF	ectrum 2 x Sp ■ R8w SWT 132.7 µs ● VBW	ectrum 3 🗙 S V 100 kHz V 300 kHz Mode Au	pectrum 4 ®						(W
1Pk Max					M1[1]				6.53 dBr 2.404960 GH
10 dBm					M2[1]		L	MI	2.404960 GH -26.17 dbn 2.400000 GH
0 dBm								- halfanalala	WANTE
-10 dBm	01 -13.470 dBm								the deside
-20 dBm									
-30 dBm							Journa marcher	1	
-40 dBm	mourner	meaning	munahandrah	mymmerile	materia	Mohrmonie	proventimental	, Md ^r	
-50 dBm									
-60 dBm									
-70 dBm									
Start 2.3 GHz Marker Type Ref	Tre	N control	1	1001	pts Function			tion Result	5tup 2.42 GHz
		X-value		Y-value			Func	tion Result	
M1 M2 M3	1		2.40496 GHz 2.4 GHz 2.38973 GHz	6.53 -36.17 -33.39	20m 20m 10m				
DR(3M)	3			Test N	20m 20m 10m				Hoppi
DR(3M)	3				20m 20m 10m				
M2 M3	3				Aode:				Hoppin To data 2.26 data
DR(3M)	3				Aode:				Hoppii
DR(3M)	3				Aode:				Hoppin To data 2.26 data
DR(3M)	schum 2 • Sp swr 27.0 µs = VBW				Aode:				Hoppin To data 2.26 data
DR(3M)	3				Aode:				Hoppin To data 2.26 data
DR(3M)	schum 2 • Sp swr 27.0 µs = VBW				Aode:				Hoppin To data 2.26 data
Mo Mo Mo Mo Mo Mo Mo Mo Mo Mo Mo Mo Mo M	schum 2 • Sp swr 27.0 µs = VBW				Aode:				Hoppin To data 2.26 data
DR(3M)	schum 2 Sp BWT 37.0 µs = VBW 01 -12.240 08m	ectram 2 O S DO Inc 2020 Mer Mode Auto							Hoppin To data 2.26 data
Mo Mo Mo Mo Mo Mo Mo Mo Mo Mo Mo Mo Mo M	schum 2 Sp BWT 37.0 µs = VBW 01 -12.240 08m	ectram 2 O S DO Inc 2020 Mer Mode Auto							Hoppin To data 2.26 data
Control C	schum 2 Sp BWT 37.0 µs = VBW 01 -12.240 08m	ectram 2 O S DO Inc 2020 Mer Mode Auto							Hoppin To data 2.26 data
AND	schum 2 Sp BWT 37.0 µs = VBW 01 -12.240 08m	ectram 2 O S DO Inc 2020 Mer Mode Auto							Hoppin The second secon
A00 A	schum 2 Sp BWT 37.0 µs = VBW 01 -12.240 08m	ectram 2 O S DO Inc 2020 Mer Mode Auto							Hoppin The second secon
Contemportation Contemportation Contemportation Contemportation Contemportation Contemportation Contemportation Contemportation	schum 2 Sp BWT 37.0 µs = VBW 01 -12.240 08m			Test M					Hoppin (19) 2.739 66 2.483500 64



2.7 Radiated Spurious Emission and Restricted Band Edge

The measurement was performed over the frequency range of 30 MHz to 1 GHz using antenna as the input transducer to a Spectrum Analyzer or a Field Intensity Meter. The measurement was made with the detector set for "quasi-peak" within a bandwidth of 120 kHz.

Procedure of Test Preliminary measurements were made at 3 meter using bi-log antennas, and Spectrum Analyzer to determine the frequency producing the max. Emission in Semi-Anechoic Chamber.

Appropriate precaution was taken to ensure that all emission from the EUT were maximized and investigated. The system configuration, mode of operation, turn-table azimuth and height with respect to the antenna were noted for each frequency found. The spectrum was scanned from 30 MHz to 1000 MHz using bi-log antenna. Above 1 GHz, linearly polarized double ridge horn antennas were used.

Final measurements were made with 3-meters test distance using bi-log antenna or horn antenna. The 3 m Full Chamber have been verified in regular for its normalized site attenuation. The test equipment was placed on a table. Sufficient time for the EUT, peripheral equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. Each frequency found during pre-scan measurements was re-examined by manual. The detector function was set to CISPR quasi-peak mode and the bandwidth of the receiver was set to 120 kHz or 1 MHz depending on the frequency of type of signal. The EUT, peripheral equipment and interconnecting cables were re-configured to the set-up producing the max. emission for the frequency and were placed on top of a 0.8-meter high nonmetallic 1 x 1.5 m table. The EUT, peripheral equipment, and interconnecting cables were re-arranged and manipulated to maximize each emission. The turntable containing the system was rotated; the antenna height was varied 1 to 4 meters and stopped at the azimuth or height producing the maximum emission. Each emission was maximized by: varying the mode of operation to the EUT and/or peripheral equipment and changing the polarity of the antenna, whichever determined the worst-case emission. (The bandwidth below 1 GHz setting on the field strength meter is 120 kHz and above 1 GHz is 1 MHz)

Radiated Emissions Test, 9 kHz to 30 MHz (Magnetic Field Test):

- 1. The preliminary radiated measurements were performed to determine the frequency producing the maximum emissions at distance of 3 meters according to Section 15.31(f)(2).
- 2. The EUT was placed on the top of the 0.8-meter height, 1 x 1.5 m non-metallic table.
- 3. Emissions from the EUT are maximized by adjusting the orientation of the Loop antenna and rotating the EUT on the turntable.
- Manipulating the system cables also maximizes EUT emissions if applicable.
- 4. To obtain the final measurement data, each frequency found during preliminary measurements was re-examined and investigated.

The test-receiver system was set up to average, peak, and quasi-peak detector with specified bandwidth.

2.7.1 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio Frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in section 15.209(a) is not required. In addition,

Attenuation below the general limits specified in section 15.209(a) is not required. In addition, radiated emission which fall in the restricted bands, as defined in section 15.205(a), must also comply with the radiated emission limits specified in section 15.209(a) (see Section 15.205(c)) All emission from a digital device, including any network of conductors and apparatus connected thereto shall not exceed the level of field strength specified below:



FCC Part 15 Subpart C paragraph 15.247(a) Limit

Fundamental	Fiel	ld Strength of Harmonics (3 m)			
Frequency (MHz)	(mV/m)	(dBu	V/m)		
2 402-2 480	500	54 (Avg.)	74 (Peak)		

Note : 1. RF Field Strength (dBuV) = 20log RF Voltage(uV)

2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector

Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dBuV/m)
0.009-0.490	300	20log 2400/F (kHz) + 80
0.490-1.705	30	20log 24000/F (kHz) + 40
1.705-30	30	20log 30 + 40
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note : 1. RF voltage (dBuV) = 20 log RF Voltage (uV)

2. In the Above Table, the tighter limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

4. This device used to install a within vehicular. The location of EUT measurements has the Y-plane(Stand).

5. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30 – 1000 MHz. As to 1 – 26.5 GHz, the final emission level got using PK and AV detector.

6. If measurement is made at 3m distance.

Field Strength Calculation

Where

The field strength is calculated by adding the Antenna Factor Cable loss and subtracting the Amplifier Gain (if any) from the measured reading. For the limit is employed average value, therefore the peak value can be transferred to average value by subtracting the duty factor. The basic equation with a sample calculation is as follows:

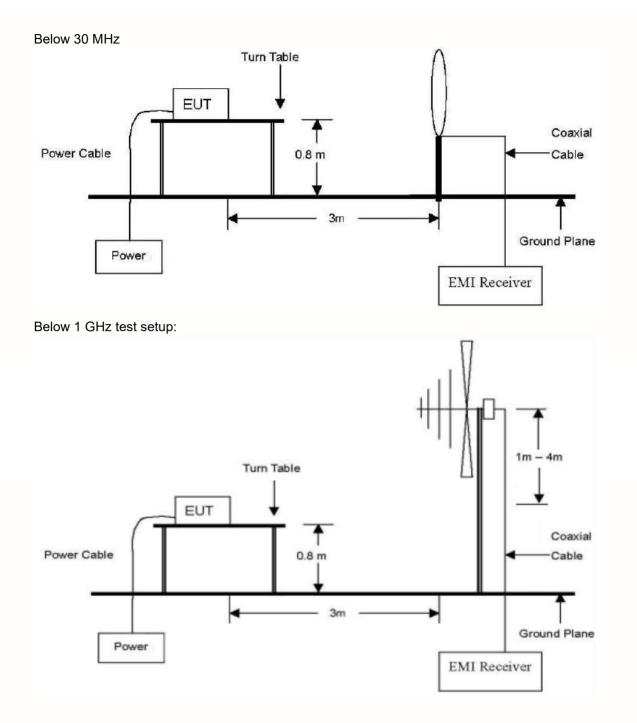
Peak = Reading + Corrected Factor

Corr. Factor = Antenna Factor + Cable loss - Amplifier Gain (if any)

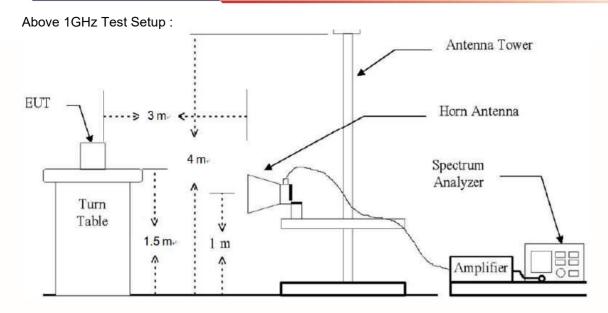
Note: Example of Field strength = 20log 2400/F + 80 = 129



2.7.2 Test Configuration







2.7.3 Test Procedure

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1GHz and 150 cm for above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and add duty cycle factor for average measurements. (Restriced bandedge, Final detection of spurious harmonic emissions) Duty cycle factor = 10 log (1/x). For this sample: DCF = $10\log(1/1)=0$ dB(Spectrum Analyzer round it up to 0 dB).

1/T minimum VBW = 1/Duty cycle. For this sample: minimum VBW = 1/1 = 1 kHz Pre-scans to detect harmonic and spurious emissions, the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz for peak measurements.

The spectrum from 1 GHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

(From 30MHz to 1GHz, test was performed with the EUT set to transmit at the channel with highest output power)

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.



2.7.4 Test Result (Restricted Band Edge Above 1 GHz)

The frequency spectrum above 1000 MHz was investigated. All reading values are peak and average values.

Bluetooth BDR

Lowest Channel(2 402 MHz)

Radia	ted Emission	IS	Ant.	Correctio	n Factors	Total	Lim	it
Frequency (MHz)	Reading (dBuV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBuv/m)	Limit (dBuv/m)	Margin (dB)
*2 310.00	42.94	Р	V	27.92	-43.16	27.70	74.00	46.30
*2 310.00	33.27	А	V	27.92	-43.16	18.03	54.00	35.97
*2 399.95	47.85	Р	V	27.60	-43.05	32.40	74.00	41.60
*2 399.95	42.00	А	V	27.60	-43.05	26.55	54.00	27.45
*2 390.00	44.29	Р	V	27.60 -43.02		28.87	74.00	45.13
*2 390.00	34.17	А	V	27.60 -43.02		18.75	54.00	35.25

Radia	ted Emission	IS	Ant.	Correction Factors		Total	Lim	it
Frequency (MHz)	Reading (dBuV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)			Margin (dB)
*4 804.05	61.45 P		V	31.20	-39.65	53.00	74.00	21.00
*4 804.05	5 54.48 A		V	31.20	-39.65	46.03	54.00	7.97

Middle Channel(2 441 MHz)

Radia	Radiated Emissions			Correctio	n Factors	Total	Lim	it
Frequency (MHz)	Reading (dBuV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBuv/m)	Limit (dBuv/m)	Margin (dB)
*4 882.05	54.53 P		V	31.26	-39.51	46.28	74.00	27.72
*4 882.05	.05 51.83 A		V	31.26	-39.51	43.58	54.00	10.42



Highest Channel(2 480 MHz)

Radia	ted Emission	IS	Ant.	Correctio	n Factors	Total	Lim	it
Frequency (MHz)	Reading (dBuV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBuv/m)	Limit (dBuv/m)	Margin (dB)
*2 483.50	44.60	Р	V	27.47	-42.84	29.23	74.00	44.77
*2 483.50	35.62	А	V	27.47 -42.84 20.25		20.25	54.00	33.75
*2 489.76	42.29	Р	V	27.44	-42.83	26.90	74.00	47.10
*2 489.76	34.06	А	V	27.44	-42.83	18.67	54.00	35.33
*2 500.00	45.12	Р	V	27.40	-43.11	29.41	74.00	44.59
*2 500.00	32.82	А	V	27.40 -43.11		17.11	54.00	36.89

Radia	Radiated Emissions			Correctio	n Factors	Total Limit		it	
Frequency (MHz)	Reading (dBuV)	0		AF (dB/m)	AMP+CL (dB)	Actual (dBuv/m)	Limit (dBuv/m)	Margin (dB)	
*4 959.97	58.58	Р	P V 31.54		-39.47	50.65	74.00	23.35	
*4 959.97	45.60 A		V	31.54	-39.47	37.67	54.00	16.33	



Bluetooth EDR (Worst Case : EDR(2M))

Lowest Channel(2 402 MHz)

Radia	ted Emission	IS	Ant.	Correctio	n Factors	Total	Lim	it
Frequency (MHz)	Reading (dBuV)	Detect Mode	Pol.			Actual (dBuv/m)	Limit (dBuv/m)	Margin (dB)
*2 310.00	41.42	Р	V	27.92	-43.16	26.18	74.00	47.82
*2 310.00	33.78	А	V	/ 27.92 -43.16 18.54		18.54	54.00	35.46
*2 376.27	48.32	Р	V	27.60	-43.05	32.87	74.00	41.13
*2 376.27	39.49	А	V	27.60	-43.05	24.04	54.00	29.96
*2 390.00	45.04	Р	V	27.60	-43.02	29.62	74.00	44.38
*2 390.00	34.29	А	V	27.60 -43.02		18.87	54.00	35.13

Radia	Radiated Emissions			Correction Factors		Total		it
Frequency (MHz)	Reading (dBuV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBuv/m)	Limit (dBuv/m)	Margin (dB)
*4 804.21	57.80 P		V	31.20	-39.65	49.35	74.00	24.65
*4 804.21	04.21 47.88 A			31.20	-39.65	39.43	54.00	14.57

Middle Channel(2 441 MHz)

Radia	ted Emissior	IS	Ant.	Correction Factors		Total	Lim	it
Frequency (MHz)	Reading (dBuV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBuv/m)	Limit (dBuv/m)	Margin (dB)
*4 882.00	51.50 P		V	31.26	-39.51	43.25	74.00	30.75
*4 882.00	00 43.98 A		V	31.26	-39.51	35.73	54.00	18.27



righest chann											
Radia	ted Emission	IS	Ant.	Correctio	n Factors	Total	Lim	it			
Frequency (MHz)	Reading (dBuV)	Detect Mode	Pol.	I. AF AMP+CL (dB/m) (dB)		Actual (dBuv/m)	Limit (dBuv/m)	Margin (dB)			
*2 483.50	51.54	Р	V	27.47	-42.84	36.17	74.00	37.83			
*2 483.50	39.45	А	V	27.47	-42.84	24.08	54.00	29.92			
*2 492.39	42.85	Р	V	27.43	-42.82	27.46	74.00	46.54			
*2 492.39	33.83	А	V	27.43	-42.82	18.44	54.00	35.56			
*2 500.00	43.68	Р	V	27.40	-43.11	27.97	74.00	46.03			
*2 500.00	32.78	А	V	27.40	-43.11	17.07	54.00	36.93			

Highest Channel(2 480 MHz)

Radia	ted Emission	IS	Ant.	Correction Factors		Total	Fotal Limit	
Frequency (MHz)	Reading (dBuV)	•		AF (dB/m)	AMP+CL (dB)	Actual (dBuv/m)	Limit (dBuv/m)	Margin (dB)
*4 960.08	53.36 P		V	31.54	-39.47	45.43	74.00	28.57
*4 960.08	38.87	А	V	31.54	-39.47	30.94	54.00	23.06

Note)

1. P = Peak

2. A = Average

3. AF = Antenna Factor

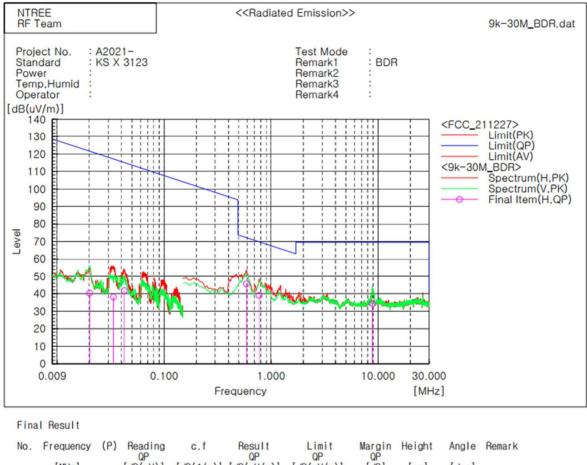
4. CL = Cable Loss

- 5. DCF = Duty Cycle Factor
- 6. "*" means the restricted band.
- 7. Measuring frequencies from 1GHz to the 10th Harmonic of highest fundamental frequency.
- 8. According to §15.31(o), emissions level are not be reported lower than the limit by over 20dB.



2.7.5 Test Result (Spurious Emissions Above 9 kHz to Below 30 MHz)

Bluetooth BDR

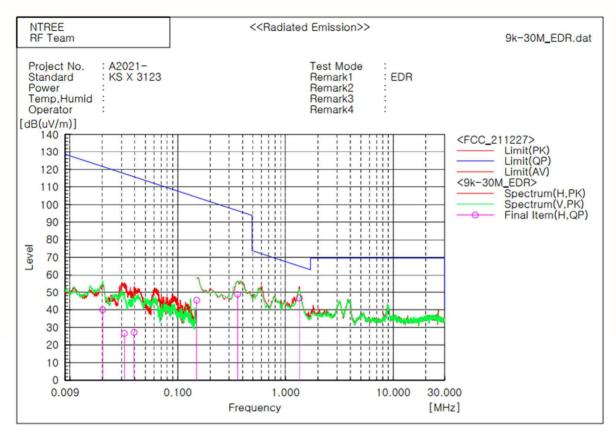


QP QP	QP QP	
$[MHz] \qquad [dB(uV)] [dB(1/m)] [dB(uV/m)] [$	dB(uV/m)] [dB]	[cm] [deg]
1 0.020 H 21.3 19.0 40.3	121.5 81.2	[cm] [deg] 100.0 82.0
2 8.836 H 14.3 20.1 34.4	69.5 35.1	100.0 322.0
3 0.034 H 19.4 18.7 38.1	117.1 79.0	100.0 42.0
4 0.043 H 23.0 18.7 41.7	115.0 73.3	100.0 315.0
5 0.586 H 26.9 18.7 45.6	72.2 26.6	100.0 129.0
6 0.771 H 20.3 18.8 39.1	69.9 30.8	100.0 140.0

Note: Worst case (Highest Channel (2 480 MHz))



Bluetooth EDR(2M)



Final Result

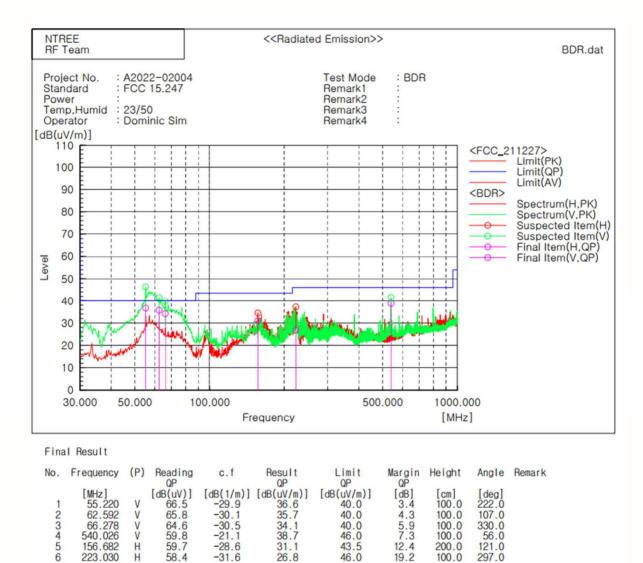
No.	Frequency	(P)	Reading	c.f	Result	Limit QP	Margin	Height	Angle	Remark
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]	
1	0.020	Н	21.0	19.0	40.0	121.5	81.5	100.0	68.0	
2	0.359	Н	30.3	18.5	48.8	96.5	47.7	100.0	85.0	
3	0.032	Н	7.9	18.7	26.6	117.5	90.9	100.0	35.0	
4	0.039	H	8.5	18.7	27.2	115.7	88.5	100.0	49.0	
5	1.344	Н	27.5	19.1	46.6	65.0	18.4	100.0	208.0	
6	0.150	Н	26.8	18.6	45.4	104.1	58.7	100.0	2.0	

Note: Worst case (Highest Channel (2 480 MHz))



2.7.6 Test Result (Spurious Emissions Above 30 MHz to Below 1 GHz)

Bluetooth BDR



Note: Worst case (Lowest Channel (2 480 MHz))

58.4

H

-28.6

-31.6

26.8

46.0

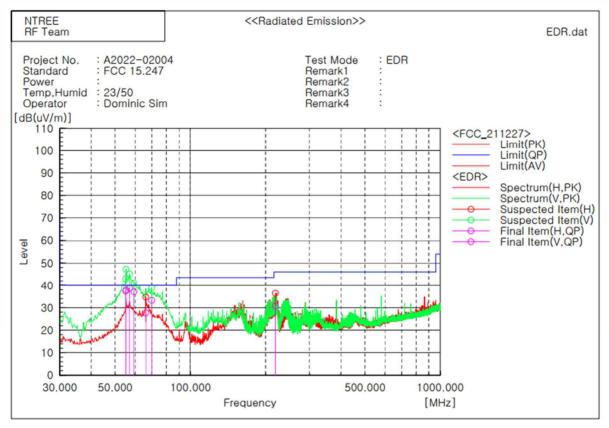
100.0

297.0

223.030



Bluetooth EDR(2M)



Final Result

No.	Frequency	(P)	Reading	c.f	Result QP	QP	Margin QP	Height	Angle	Remark
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]	
1	55.026	V	67.3	-29.9	37.4	40.0	2.6	100.0	236.0	
2	55.220	V	67.8	-29.9	37.9	40.0	2.1	100.0	356.0	
3	57.160	V	68.4	-29.8	38.6	40.0	1.4	100.0	85.0	
4	59.488	V	66.9	-29.8	37.1	40.0	2.9	100.0	150.0	
5	66.278	Н	58.2	-30.5	27.7	40.0	12.3	200.0	315.0	
6	69.964	V	64.5	-31.3	33.2	40.0	6.8	100.0	330.0	
7	218.956	Н	62.4	-31.6	30.8	46.0	15.2	100.0	297.0	

Note: Worst case (Lowest Channel (2 480 MHz))



2.8 AC Power Line Conducted Emission

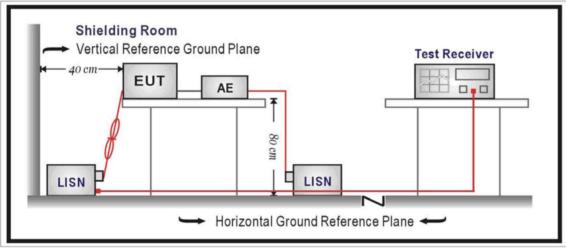
2.8.1 Limit

Test Specification: According to FCC CFR Title 47 Part 15 Subpart C Section 15.207

	Limit (dBuV)				
Frequency (MHz)	Quasi-Peak	Average			
0.15 to 0.5	66 to 56 *	56 to 46 *			
0.5 to 5	56	46			
5 to 30	60	50			

Note : * Decrease with the logarithm of the frequency

2.8.2 Test Configuration



2.8.3 Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50 uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50 ohm/50 uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed on conducted measurement.

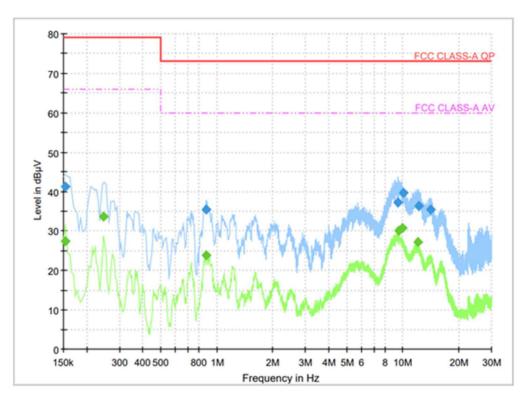
Conducted emissions were invested over the frequency range from 0.15 MHz to 30 MHz using a receiver bandwidth of 9kHz

receiver bandwidth of 9kHz.



2.8.4 Test Result

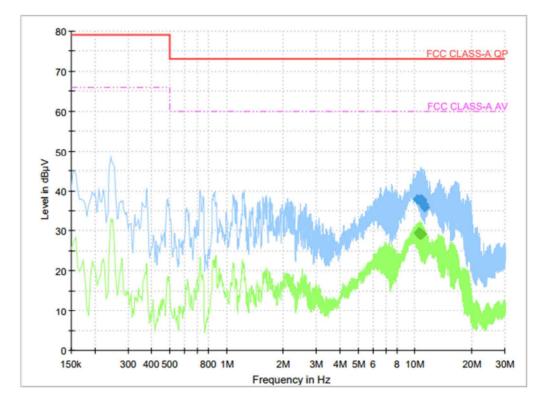
Line : Hot



Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.154000		27.47	66.00	38.53	1000.0	9.000	L1	9.8
0.154000	41.27		79.00	37.73	1000.0	9.000	L1	9.8
0.246000		33.66	66.00	32.34	1000.0	9.000	L1	9.6
0.882000		23.77	60.00	36.23	1000.0	9.000	L1	9.8
0.882000	35.39		73.00	37.61	1000.0	9.000	L1	9.8
9.434000	37.19		73.00	35.81	1000.0	9.000	L1	9.9
9.530000		29.98	60.00	30.02	1000.0	9.000	L1	9.9
10.004000		30.78	60.00	29.22	1000.0	9.000	L1	9.9
10.096000	39.74		73.00	33.26	1000.0	9.000	L1	9.9
12.120000		27.12	60.00	32.88	1000.0	9.000	L1	10.0
12.144000	36.28		73.00	36.72	1000.0	9.000	L1	10.0
14.068000	35.52		73.00	37.48	1000.0	9.000	L1	10.0



Line : Neutral



	Fina	I Re	sult
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Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
10.280000	37.89		73.00	35.11	1000.0	9.000	N	9.9
10.476000		29.46	60.00	30.54	1000.0	9.000	N	9.9
10.528000		29.58	60.00	30.42	1000.0	9.000	N	9.9
10.604000		29.01	60.00	30.99	1000.0	9.000	N	9.9
10.648000		29.52	60.00	30.48	1000.0	9.000	N	9.9
10.792000		29.11	60.00	30.89	1000.0	9.000	N	9.9
10.808000	37.22		73.00	35.78	1000.0	9.000	N	9.9
10.836000	37.92		73.00	35.08	1000.0	9.000	N	9.9
10.892000	37.61		73.00	35.39	1000.0	9.000	N	9.9
10.892000		29.12	60.00	30.88	1000.0	9.000	N	9.9
11.200000	36.51		73.00	36.49	1000.0	9.000	N	9.9
11.308000	35.82		73.00	37.18	1000.0	9.000	N	9.9



2.9 Antenna Requirement

2.9.1 Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

2.9.2 Applicable Construction

2.9.3 Test Result

Pass

