

ELECTROMAGNETIC EMISSIONS **COMPLIANCE REPORT**



Applicant: Manufacturer:	Acer Incorporated 8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City 22181, Taiwan (R.O.C) Gredmann Taiwan Ltd. 9F, No. 170, Sec. 3, Min Chuan E. Road, Songshan Dist., Taipei, 105, Taiwan
Product Name:	Wireless Gaming Controller
Brand Name:	Acer
Model No.:	NGR300
Model Difference:	N/A
Report Number:	TERF2403000599ER
FCC ID	HLZNGR300
IC:	1754F-NGR300
Date of EUT Received:	March 11, 2024
Date of Test:	March 11, 2024 ~ April 19, 2024
Issue Date:	May 2, 2024

Men Lay

Approved By

Blue Yana

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.247, ISED RSS-247.

The results of this report relate only to the sample identified in this report.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Revision History							
Report Number	Revision	Description	Issue Date	Revised By	Remark		
TERF2403000599ER	00	Original	May 2, 2024	Yuri Tsai			

Note:

1 • The remark "*" indicates modification of the report upon requests from certification body.

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GENERAL INFORMATION 1

1.1 **Product Description**

Product Name:	Wireless Gaming Controller
Brand Name:	Acer
Model No.:	NGR300
Model Difference:	N/A
Hardware Version:	V1.2
Firmware Version:	V12.15
EUT Series No.:	NGR300-3
Power Supply:	1.5 Vdc from Battery*2 or 5Vdc from USB Port
Test Software (Name/Version)	FCC Test Tool/2.3

1.2 **RF Specification**

Radio Technology:	BLE
Frequency Range:	2402 – 2480MHz
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	0.73dBm

1.3 **Antenna Designation**

ntenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
РСВ	Shenzhen Innosystem Technology Ltd	MARB AT V1.0	2402~2480	0

Note: Antenna information is provided by the applicant.

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1.4 **Test Methodology of Applied Standards**

FCC Part 15, Subpart C §15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 RSS-247 issue 3 Aug. 2023 RSS-Gen, Issue 5 April 2018, Amendment 2 (February 2021) ANSI C63.10:2013

1.5 **Test Facility**

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
		SAC 1		
		SAC 2]	
		SAC 3		
		Conduction 1		
	No.134, Wu Kung Road, New Taipei	Conducted 1		
	Industrial Park, Wuku District, New	Conducted 2	TW0027	
	Taipei City, Taiwan.	Conducted 3		TW3702
		Conducted 4		
		Conducted 5		
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.		Conduction C		
(TAF code 3702)		SAC C		
		SAC D		
		SAC G	4	
	No.2, Keji 1st Rd., Guishan District,	Conducted A	TW0028	
		Conducted B		
	Taoyuan City, Taiwan 333	Conducted C		
		Conducted D	-	
		Conducted E		
		Conducted F	-	
		Conducted G		
Note: Test site na	ame is remarked on the equipmen	t list in each sectio	n of this report a	s an indica-
	e measurements occurred in speci		-	is an inuica-

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1.6 **Special Accessories**

There are no special accessories used while test was conducted.

1.7 **Equipment Modifications**

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.3 Radiated Emissions

The EUT is a placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response."

2.4 Measurement Results Explanation Example

2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic

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chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

2.4.2 For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

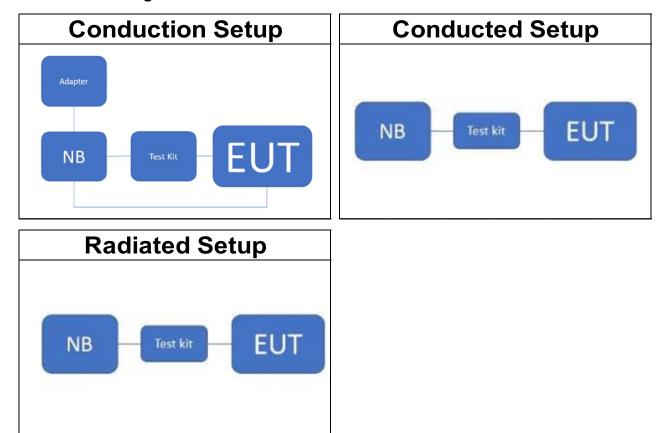
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2.5 **Test Configuration**



2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction 1							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
Notebook	Lenovo	T440P	PB-03ECDS 14/08	N/A	N/A		
Adapter	Lenovo	ADLX90NLC3A	N/A	N/A	N/A		
USB to Type-C	NEON	EUC1	N/A	N/A	N/A		
	C	onducted Emission	Fest Site: Conducted	1			
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
Notebook	Lenovo	T14	PF-380WLW	N/A	N/A		
	Radiated Emission Test Site: SAC 2						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
Notebook	Lenovo	T440P	PB-03ECDS 14/08	N/A	N/A		

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SUMMARY OF TEST RESULTS 3

FCC Rules	ISED Rules	Description Of Test	Result
§15.207(a)	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	RSS-247 §5.4 d	Peak Output Power	Compliant
§15.247(a)(2)	RSS-247 §5.2 a RSS-Gen §6.7	Emission Bandwidth	Compliant
§15.247(d) §15.209	RSS-247 §5.5 RSS-Gen §8.9	Conducted Band Edge and Spurious Emission	Compliant
§15.247(d) §15.209	RSS-247 §5.5 RSS-Gen §8.9	Radiated Band Edge and Spurious Emission	Compliant
§15.205	RSS-Gen § 8.10	Restricted Bands	Compliant
§15.247(e)	RSS-247 §5.2 b	Peak Power Density	Compliant
§15.203	N/A	Antenna Requirement	Compliant

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DESCRIPTION OF TEST MODES 4

4.1 **Operating Frequencies**

	2400~2483.5 MHz							
СН	Freq. (MHz)	СН	Freq. (MHz)	СН	Freq. (MHz)	СН	Freq. (MHz)	
0	2402	10	2422	20	2442	30	2462	
1	2404	11	2424	21	2444	31	2464	
2	2406	12	2426	22	2446	32	2466	
3	2408	13	2428	23	2448	33	2468	
4	2410	14	2430	24	2450	34	2470	
5	2412	15	2432	25	2452	35	2472	
6	2414	16	2434	26	2454	36	2474	
7	2416	17	2436	27	2456	37	2476	
8	2418	18	2438	28	2458	38	2478	
9	2420	19	2440	29	2460	39	2480	

The Worst Test Modes and Channel Details 4.2

- 1. The EUT has been tested under operating condition.
- 2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
- 3. The field strength of radiation emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.
- 4. Investigation has been done on all the possible configurations for searching the worst case.

	CONDUCTED TEST						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)			
Bluetooth LE	0 to 39	0,20,39	GFSK	1			

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TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)		
Bluetooth LE	0 to 39	20	GFSK	1		
	TRANSMIT RAI	DIATED EMISSION T	EST (ABOVE 1 GHz)			
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)		
Bluetooth LE	0 to 39	0,20,39	GFSK	1		

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MEASUREMENT UNCERTAINTY 5

Test Items	Ur	ncertaint	y
AC Power Line Conducted Emission	+/-	1.54	dB
Output Power measurement	+/-	0.97	dB
Emission Bandwidth	+/-	1.38	Hz
Conducted emission measurement	+/-	0.77	dB
Peak Power Density	+/-	0.61	dB
Temperature	+/-	0.6	°C
Humidity	+/-	3	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Emission Measurement Uncertainty					
	+/-	1.89	dB	9kHz~30MHz	
Polarization: Vertical	+/-	4.15	dB	30MHz - 1000MHz	
	+/-	3.43	dB	1GHz - 18GHz	
	+/-	3.86	dB	18GHz - 40GHz	
Delevizetien, Hevizentel	+/-	1.89	dB	9kHz~30MHz	
	+/-	4.02	dB	30MHz - 1000MHz	
Polarization: Horizontal	+/-	3.43	dB	1GHz - 18GHz	
	+/-	3.86	dB	18GHz - 40GHz	
	+/-	2	dB	33GHz-50GHz	
Dedicted Onumieuro Envio	+/-	1.59	dB	50GHz-60GHz	
Radiated Spurious Emis- sion	+/-	1.7	dB	60GHz-90GHz	
	+/-	1.64	dB	90GHz-140GHz	
	+/-	3.83	dB	140GHz-220GHz	

Note:

- 1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
- 2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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MEASUREMENT EQUIPMENT USED 6

6.1 **Emission from AC power line**

AC Power-Line Conducted Emission Test Site: Conduction 1						
EQUIPMENT TYPE MFR MODEL NUMBER SERIAL NUMBER LAST CAL. CAL					CAL DUE.	
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R	
LISN	SCHWARZBECK	NSLK 8127	1040	09/06/2023	09/05/2024	
Coaxial Cables	EMC Instruments Corp.	EMCCFD300-BM- BM-3000	161207	06/22/2023	06/21/2024	
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	793	06/22/2023	06/21/2024	
EMI Test Receiver	R&S	ESCI 7	100759	08/21/2023	08/20/2024	

6.2 **Conducted Measurement**

Conducted Emission Test Site: Conducted 1							
EQUIPMENT TYPE	IPMENT TYPE MFR MODEL NUMBER SERIAL NUMBER LAST CAL. CAL DU						
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071571	06/07/2023	06/06/2024		
Test Software	vare SGS Radio Test Software		Ver. 21	N.C.R	N.C.R		
Power Meter	Anritsu	ML2496A	1242004	10/24/2023	10/23/2024		
Power Sensor	Anritsu	MA2411B	1207365	10/24/2023	10/23/2024		
Power Sensor	Anritsu	MA2411B	1207368	10/24/2023	10/23/2024		
DC Block	Mini-Circuits	BLK-18-S+	10	12/12/2023	12/11/2024		

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6.3 **Radiated Measurement**

	Radiated Emission Test Site: SAC 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.	
Loop Antenna	COM-POWER	AL-130R	10160104	12/04/2023	12/03/2024	
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	07/03/2023	07/02/2024	
Horn Antenna	RF SPIN	DRH18-E	210303A18-ES	02/16/2024	02/15/2025	
Bi-log Antenna	SCHWARZBECK	VULB9168	9168-1278	03/04/2024	03/03/2025	
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242392	12/22/2023	12/21/2024	
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R	
EMI Test Receiver	R&S	ESCI 7	100759	08/21/2023	08/20/2024	
Site Cal	SGS	SAC 2	N/A	08/31/2023	08/30/2024	
Pre-Amplifier	EMCI	EMC184045B	980135	08/31/2023	08/30/2024	
Pre-Amplifier	EMCI	EMC330N	980826	08/31/2023	08/30/2024	
Pre-Amplifier	EMCI	EMC118A45SEE	980867	08/31/2023	08/30/2024	
3.1G High Pass Filter	Woken	WFIL-H3100- 18000F-01	WRGBAFWC2B6	12/12/2023	12/11/2024	
Band Reject Filter 2400-2483.5	Titan	T04N2400248350S0 1	23040703-10	12/12/2023	12/11/2024	
Attenuator	Mini-Circuits	BW-S10W2+	23	12/12/2023	12/11/2024	
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/ 2	08/31/2023	08/30/2024	
Coaxial Cables	EMCI	EMC104-SM-SM- 1000+EMC105-SM- SM-1000+EMC105- SM-SM- 1500+EMC104-SM- SM-600+EMC105- SM-SM-2000	RX Cable 9K-18G (220236+201211+22 0906+220237+22090 9)	08/31/2023	08/30/2024	

NOTE: N.C.R refers to Not Calibrated Required.

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7 CONDUCTED EMISSION TEST

7.1 Standard Applicable:

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range	Limits (dBµV)			
MHz	Quasi-peak Average			
0.15 to 0.50	66 to 56	56 to 46		
0.50 to 5	56	46		
5 to 30	60 50			
NI-4-				

Note

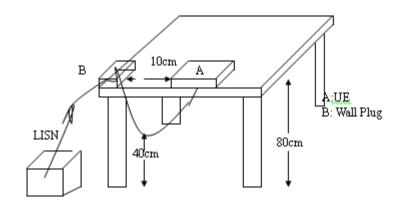
1. The lower limit shall apply at the transition frequencies

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

7.2 EUT Setup:

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- 3. The LISN was connected with 120Vac/60Hz power source.

7.3 Test Setup



7.4 Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.

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- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all phases of power being supplied by given UE are completed

7.5 **Measurement Result:**

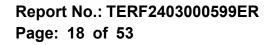
Note: Refer to next page for measurement data and plots. Note2: The * reveals the worst-case results that closest to the limit.

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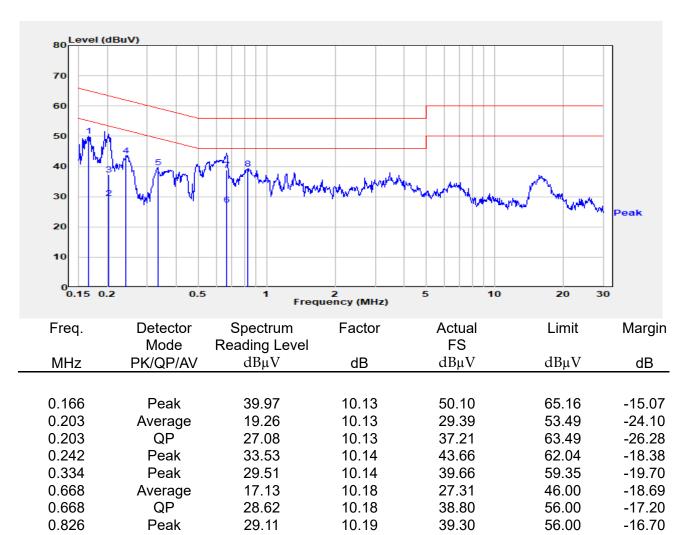




AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number	:TERF2403000599ER
Operation Mode	:BLE
Power	:120V/60Hz
Probe	:L
Note:	:

Test Site :Conduction 1 Test Date :2024-04-17 Temp./Humi. :22.9°C/60% Engineer :Eason Wang



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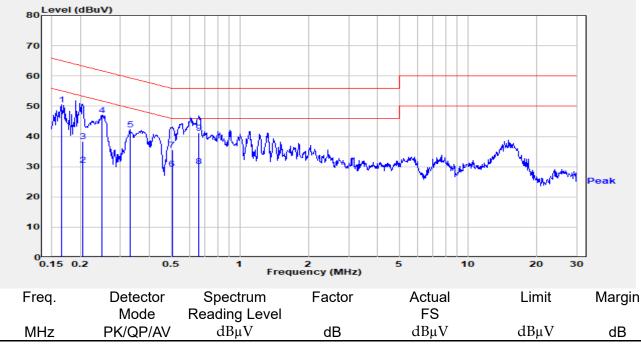
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Report Number	:TERF2403000599ER
Operation Mode	:BLE
Power	:120V/60Hz
Probe	:N
Note:	:

Test Site	:Conduction 1
Test Date	:2024-04-17
Temp./Humi.	:22.9℃/60%
Engineer	:Eason Wang



0.165	Peak	40.49	10.12	50.61	65.21	-14.60
0.204	Average	20.53	10.12	30.65	53.45	-22.80
0.204	QP	28.36	10.12	38.48	63.45	-24.97
0.249	Peak	36.97	10.13	47.10	61.78	-14.68
0.330	Peak	32.11	10.14	42.25	59.44	-17.19
0.505	Average	19.17	10.16	29.33	46.00	-16.67
0.505	QP	25.48	10.16	35.64	56.00	-20.36
0.661	Average	20.04	10.17	30.21	46.00	-15.79
0.661	QP	30.98	10.17	41.15	56.00	-14.85

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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable:

8.1.1 Duty Cycle

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

8.1.2 FCC

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power form the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

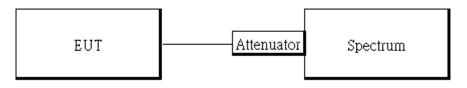
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

8.1.3 ISED

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt and the e.i.r.p. shall not exceed 4 W (ISED only).

8.2 Test Setup

8.2.1 Duty Cycle



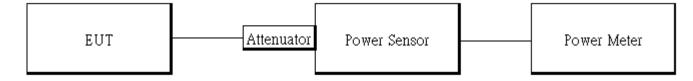
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8.2.2 Output Power



8.3 **Measurement Procedure:**

8.3.1 **Duty Cycle**

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Set span = Zero
- 3. RBW = 8MHz, VBW = 8MHz,
- 4. Detector = Peak

8.3.2 **Output Power**

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.
- 4. Record the max. Reading as observed from Power Meter.
- 5. Repeat above procedures until all test default channel measured was complete.

Duty Factor: 8.4

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
BLE 1M	66.94	1.74	2.41	3.00

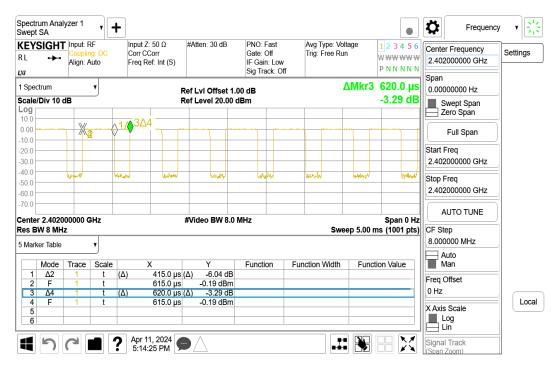
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BLE_1M_LowCH00-2402



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8.5 **Output Power:**

8.5.1 Peak & Avg

BLE 1M mode:

СН	Frequency (MHz)	Power Setting	Peak Output Power (dBm)	Required Limit (dBm)
Low	2402	-5	0.73	30
Mid	2442	-5	0.48	30
High	2480	-5	0.53	30
СН	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Required Limit (dBm)
Low	2402	-5	-0.44	30
Mid	2442	-5	-0.62	30
High	2480	-5	-0.61	30

*Note:

1. Measured by power meter, cable loss 1 dB + Duty cycle factor has been offseted to the power meter for Avg. power and cable loss has been offseted for Peak power measurement.

8.5.2 EIRP

EIRP BLE 1M mode

СН	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)		Limit	
Low	2402	-5	-0.44	0.00	-0.44	4W=	36	dBm
Mid	2442	-5	-0.62	0.00	-0.62	4W=	36	dBm
High	2480	-5	-0.61	0.00	-0.61	4W=	36	dBm

* Note: EIRP = Average Power + Gain

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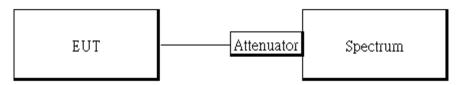


9 EMISSION BANDWIDTH MEASUREMENT

9.1 **Standard Applicable**

The minimum 6 dB bandwidth shall be at least 500 kHz.

9.2 **Test Setup**



9.3 **Measurement Procedure:**

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

9.3.1 6dB BW measurements

- 1. The testing follows the Measurement Procedure of the KDB 558074 D01.
- 2. Set the spectrum analyzer as

RBW= 100 kHz, VBW = 3 X RBW. Span= 2 to 5 times of the OBW, Sweep=auto, Detector = Peak, and Max hold.

- 3. Mark the upper and lower frequencies of -6dB.
- 4. Repeat above procedures until all test default channel is completed.

9.3.2 99% BW measurements

1. The testing follows the Measurement Procedure of the RSS-Gen section 6.7.

2. Set the spectrum analyzer as RBW= 1 % to 5% of 99%, VBW \geq 3 X RBW. Span= large enough to capture all products of the modulation process Sweep=auto, Detector = Peak, and Max hold.

- 3. Mark the upper and lower frequencies of 99%.
- 4. Repeat above procedures until all test default channel is completed.

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9.4 **Measurement Result:**

9.4.1 6dB BW measurements

BLE 1M mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2402	0.7374	≥ 0.5	PASS
2442	0.7329	≥ 0.5	PASS
2480	0.7327	≥ 0.5	PASS

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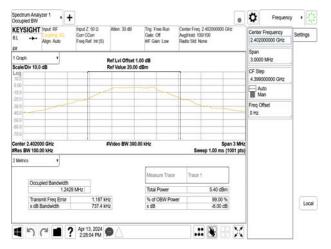
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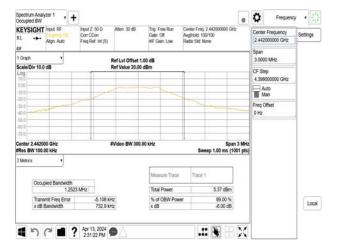
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OBW_BLE 1M_LowCH00-2402MHz



OBW_BLE 1M_MidCH20-2442MHz



OBW_BLE 1M_HighCH39-2480MHz

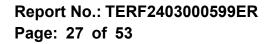


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99% Bandwidth 9.4.2

BLE 1M mode

Frequency (MHz)	99%Bandwidth (MHz)
2402	1.2063
2442	1.2086
2480	1.2077

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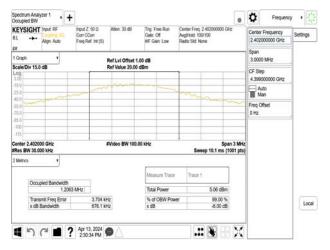
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IC OBW_BLE 1M_LowCH00-2402MHz



IC OBW_BLE 1M_MidCH20-2442MHz



IC OBW_BLE 1M_HighCH39-2480MHz



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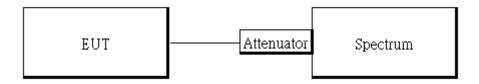


10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a) & RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen §8.9.

10.2 Test Setup



10.3 Measurement Procedure

10.3.1 Reference Level of Emission Limit:

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Set the span to 1.5 times the DTS channel bandwidth.
- 4. Set the RBW = 100kHz & VBW = 300 kHz.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.

10.3.2 Conducted Band Edge:

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna

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port to the spectrum analyzer.

- 4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
- 5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
- 6. Set DL as the limit = reading on marker of reference level measurement 20dBm
- Mark the highest readings of the emissions outside of 2400MHz~2483.5MHz.
- 8. Repeat above procedures until all default test channel (low and high) was complete.

10.3.3 **Conducted Spurious Emission:**

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- Set RBW = 100 kHz & VBW=300 kHz, Detector =Peak, Sweep = Auto
- 4. Allow trace to fully stabilize.
- 5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
- Repeat above procedures until all default test channel measured were complete.

10.4 Measurement Result

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)		
2402	-2.03	-22.03		
2442	-2.10	-22.10		
2480	-2.56	-22.56		

BLE 1M Reference Level of Limit

Note.

1.cable loss as 1dB that offsets in the spectrum 2. Refer to next page for plots.

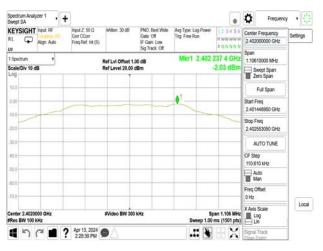
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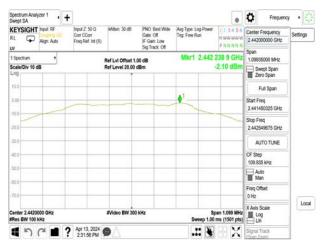
Report No.: TERF2403000599ER Page: 31 of 53



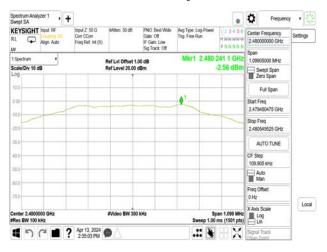
Reference Level_BLE 1M_LowCH00-2402MHz



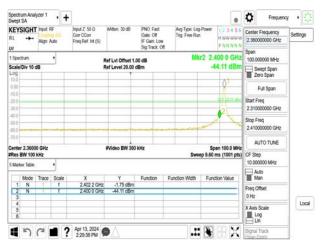
Reference Level_BLE 1M_MidCH20-2442MHz



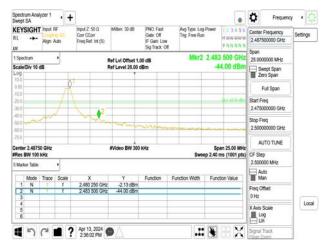
Reference Level_BLE 1M_HighCH39-2480MHz



Band Edge_BLE 1M_LowCH00-2402MHz



Band Edge_BLE 1M_HighCH39-2480MHz



Spurious Emission_BLE 1M_LowCH00-2402MHz

Spectrum Analyzer 1 Swept SA Frequency
· · + KEYSIGHT Input RF Input Z: 50 () Corr CCorr Freq.Ref. Int (S) PNO. Fast Gate: Off IF Gain: Low Sig Track: Of Avg Type: Log-Power Trig: Free P 30 dB Center Frequency 12.515000000 GHz Settings + Align: Auto PNNNN 100 3.203 GHz 24.9700000 GHz 1 Spec Ref Lvi Offset 1.00 dB Ref Level 20.00 dBm Scale/Div 10 dB -35 85 di Swept Span Zero Span og Full Span Start Freq 4 30.000000 MHz Stop Freq 25,0000 AUTO TUNE Span 24.97 GHz Sweep ~2.39 s (24971 pts) Center 12.52 GHz #Res BW 100 kHz CF Step Marker Table Auto Man Function Width Function Value Freq Offset 0 Hz -54.52 Local 1 X Axis Scale Apr 13, 2024 Х .:: 🔖

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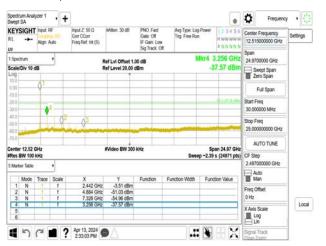
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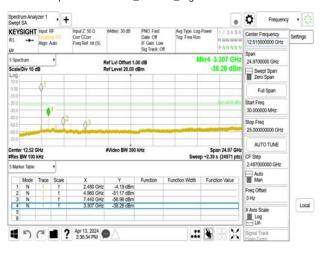
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Spurious Emission_BLE 1M_MidCH20-2442MHz



Spurious Emission_BLE 1M_HighCH39-2480MHz



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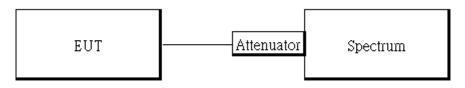


11 DUTY FACTOR CORRECTION FACTOR FOR RADIATED UNWANTED EMISSION

11.1 Standard Applicable

According to 15. 35(c) and RSS-Gen §8.2, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value. The exact method of calculating the average field strength shall be submitted with any application for certification.

11.2 Test Setup



11.3 Measurement Procedure

- 1. Adjust and configure any EUT switches, controls, or input data streams to ensure that the EUT is transmitting or encoded to obtain the "worst-case" pulse ON time.
- 2. The testing follows ANSI C63.10:2013.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set center frequency of spectrum analyzer = operating frequency.
- 5. Set the spectrum analyzer as RBW, VBW=1MHz, 3MHz, Span = 0Hz , Detector = Peak, Adjust Sweep=100ms.
- 6. Repeat above procedures until all frequency of the interest measured were complete.

Average value($dB\mu V/m$)=Peak Actual FS($dB\mu V/m$)+ Duty Cycle Correction Factor(dB)

Duty Cycle Correction Factor(dB) = $20 \log (T_{on}/100 \text{ ms})$

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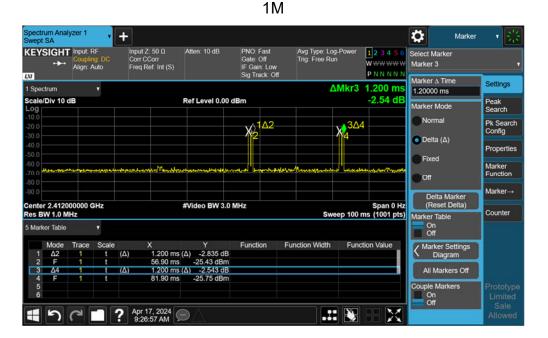
11.4 **Measurement Result:**

11.4.1 **Duty Cycle Correction Factor**

BLE 1M

Time ON of 100ms: 2.400 ms Duty Cycle=2.4ms / 100ms= 0.024 Duty Cycle correction factor=20 LOG 0.024 = -32.4 dB

11.4.2 Duty Cycle test plot



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12 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

Spurious Emission

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 and RSS-Gen §8.9 Table 5 and 6 limit as below.

And according to §15.33(a) (1) & RSS-Gen §6.13.2.a for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

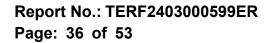
Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note: The lower limit shall apply at the transition frequencies.

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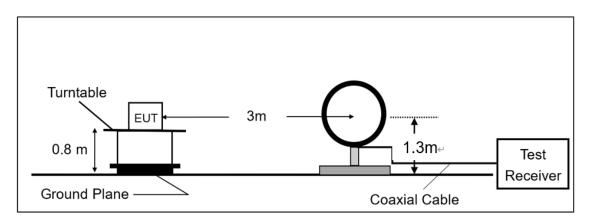
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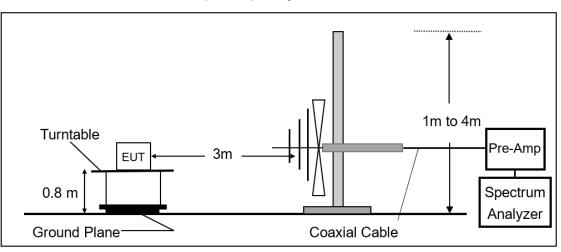


12.1 **Test Setup**

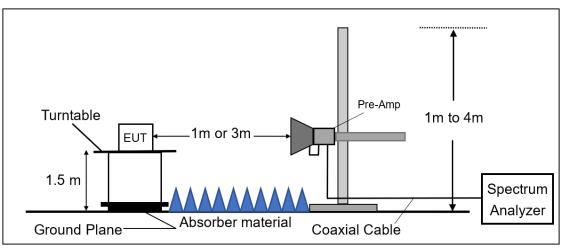
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



(C) Radiated Emission Test Set-Up, Frequency Above 1GHz.



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12.2 Measurement Procedure

- 1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
- 3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
- 4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
- 5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
- 6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
- 7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
- 8. According to C63.10:2013 Section 7.5 Procedure for determining the average value of pulsed emissions with duty cycle correction factor 20 log (T_{on}/100ms).
- 9. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
- 10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 12. Repeat above procedures until all default test channel measured were complete.

12.3 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where FS = Field StrengthRA = Reading AmplitudeAF = Antenna Factor CL = Cable Attenuation Factor (Cable Loss) AG = Amplifier Gain

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The limit of the emission level is expressed in dBuV/m, which converts 20*log(uV/m)

Actual FS($dB\mu V/m$) = SPA. Reading level($dB\mu V$) + Factor(dB) Factor(dB) = Antenna Factor($dB\mu V/m$) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

12.4 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

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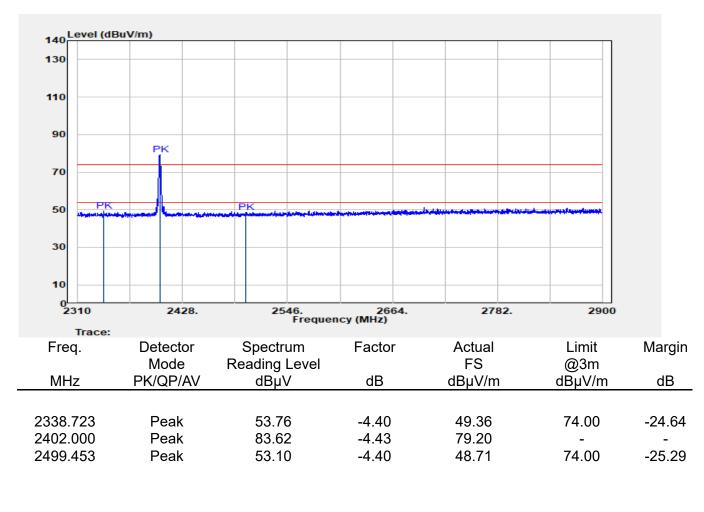
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Report No.: TERF2403000599ER Page: 39 of 53



12.4.1 **Radiated Band Edge Measurement Result**

Report Number	:TERF2403000599ER	Test Site	:SAC 2
Operation Mode	:BLE 1M	Test Date	:2024-04-16
Test Frequency	:2402 MHz	Temp./Humi.	:23.2℃/61%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Eason Wang



Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2338.723	Average	49.36	-32.40	16.96	54.00	-37.04
2402.000	Average	79.20	-32.40	46.80	-	-
2499.453	Average	48.71	-32.40	16.31	54.00	-37.69

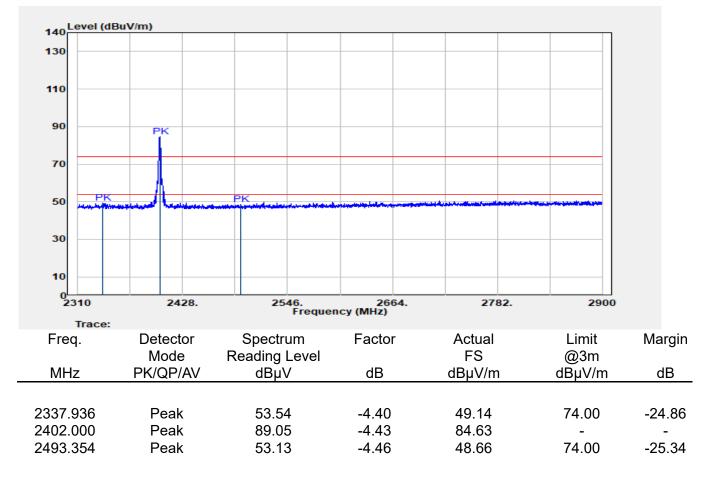
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Report Number	:TERF2403000599ER
Operation Mode	:BLE 1M
Test Frequency	:2402 MHz
Test Mode	:Bandedge
EUT Pol	:E2 Plane

Test Site	:SAC 2
Test Date	:2024-04-16
Temp./Humi.	: 23.2℃/61%
Antenna Pol.	:Horizontal
Engineer	:Eason Wang



Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2337.936	Average	49.14	-32.40	16.74	54.00	-37.26
2402.000	Average	84.63	-32.40	52.23	-	-
2493.354	Average	48.66	-32.40	16.26	54.00	-37.74

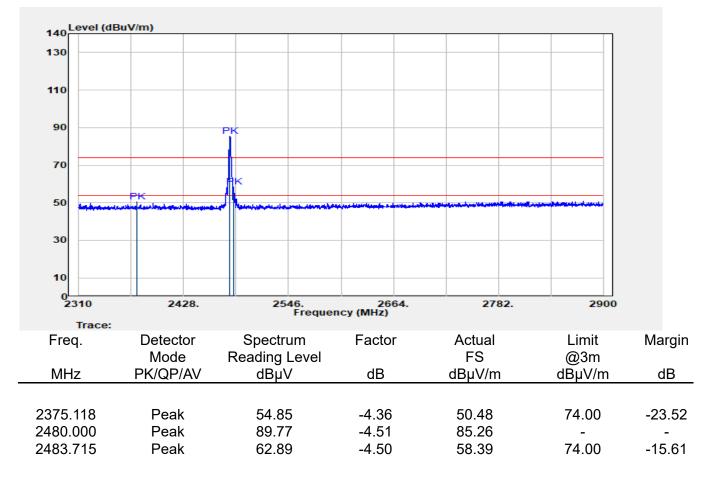
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Report Number	:TERF2403000599ER
Operation Mode	:BLE 1M
Test Frequency	:2480 MHz
Test Mode	:Bandedge
EUT Pol	:E2 Plane

Test Site	:SAC 2
Test Date	:2024-04-16
Temp./Humi.	: 23.2℃/61%
Antenna Pol.	:Vertical
Engineer	:Eason Wang



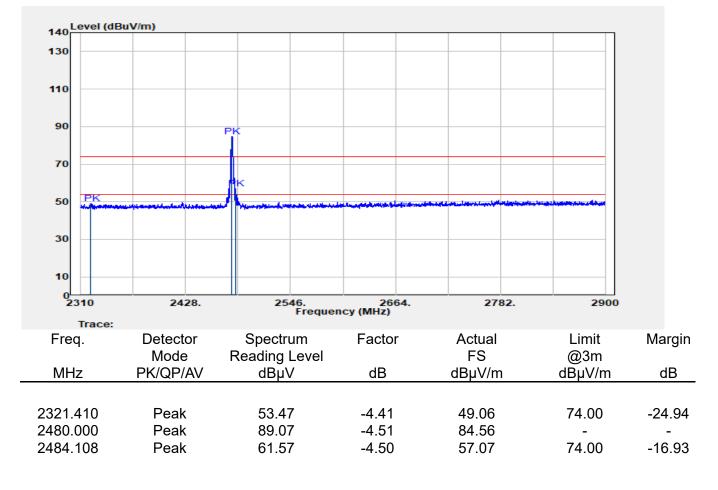
Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2375.118	Average	50.48	-32.40	18.08	54.00	-35.92
2480.000	Average	85.26	-32.40	52.86	-	-
2483.715	Average	58.39	-32.40	25.99	54.00	-28.01

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Report Number	:TERF2403000599ER
Operation Mode	:BLE 1M
Test Frequency	:2480 MHz
Test Mode	:Bandedge
EUT Pol	:E2 Plane

Test Site	:SAC 2
Test Date	:2024-04-16
Temp./Humi.	: 23.2℃/61%
Antenna Pol.	:Horizontal
Engineer	:Eason Wang



Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2321.410	Average	49.06	-32.40	16.66	54.00	-37.34
2480.000	Average	84.56	-32.40	52.16	-	-
2484.108	Average	57.07	-32.40	24.67	54.00	-29.33

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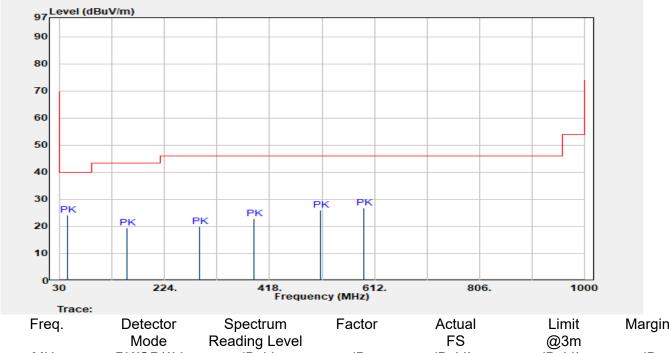
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Report No.: TERF2403000599ER Page: 43 of 53



12.4.2 **Radiated Spurious Emission**

Report Number	:TERF2403000599ER	Test Site	:SAC 2
Operation Mode	:BLE 1M	Test Date	:2024-04-16
Test Frequency	:2442 MHz	Temp./Humi.	:23.2°C/61%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Eason Wang



	rieq.	Mode	Reading Level	Facior	FS	@3m	Maryin
-	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
	43.580	Peak	37.07	-12.85	24.22	40.00	-15.78
	154.160	Peak	32.44	-12.95	19.49	43.50	-24.01
	288.020	Peak	32.06	-12.05	20.01	46.00	-26.00
	388.900	Peak	32.33	-9.59	22.74	46.00	-23.26
	512.090	Peak	32.38	-6.44	25.95	46.00	-20.05
	592.600	Peak	31.38	-4.53	26.85	46.00	-19.15

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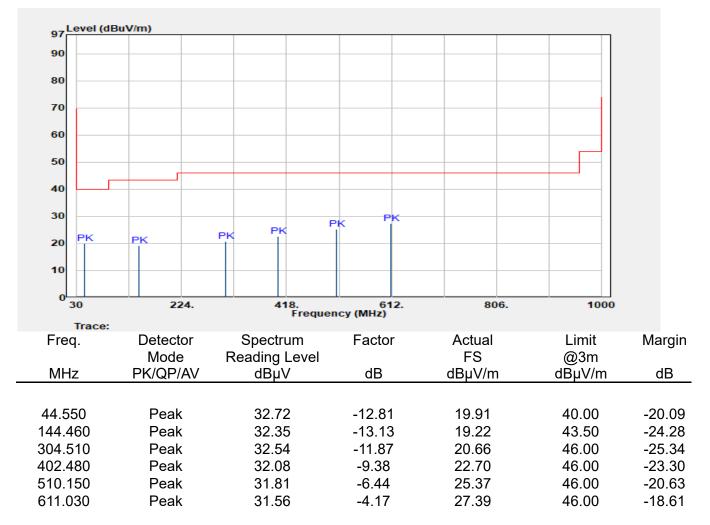
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f (886-2) 2298-0488



Report Number	:TERF2403000599ER
Operation Mode	:BLE 1M
Test Frequency	:2442 MHz
Test Mode	:Tx
EUT Pol	:E2 Plane

Test Site	:SAC 2
Test Date	:2024-04-16
Temp./Humi.	: 23.2℃/61%
Antenna Pol.	:Horizontal
Engineer	:Eason Wang



t (886-2) 2299-3279

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Report Number	:TERF2403000599ER
Operation Mode	:BLE 1M
Test Frequency	:2402 MHz
Test Mode	:Tx
EUT Pol	:E2 Plane

Test Site	:SAC 2
Test Date	:2024-04-16
Temp./Humi.	: 23.2℃/61%
Antenna Pol.	:Vertical
Engineer	:Eason Wang

100 Level (dl	BuV/m)					7
90						
80						
70						
60	PK					
50						
40						
30						
20						
10						
0 1000	6100.	11200.	16300.	21400). 265	00
Trace:		Freq	uency (MHz)			
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margir
MHz	Mode PK/QP/AV	Reading Level dBµV	dB	FS dBµV/m	@3m dBµV/m	n dB
		•		·	·	
210.000	Peak	53.51	-1.19	52.32	74.00	-21.68
005.000	Peak	55.96	0.53	56.49	74.00	-17.51
804.000	Peak	45.26	2.84	48.10	74.00	-25.90
206.000	Peak	39.01	7.79	46.80	74.00	-27.20
Freq.		Peak Actual	Duty Cycle	Average	Average	Margin

Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)	
3210.000	Average	52.32	-32.40	19.92	54.00	-34.08	
4005.000	Average	56.49	-32.40	24.09	54.00	-29.91	
4804.000	Average	48.10	-32.40	15.70	54.00	-38.30	
7206.000	Average	46.80	-32.40	14.40	54.00	-39.60	

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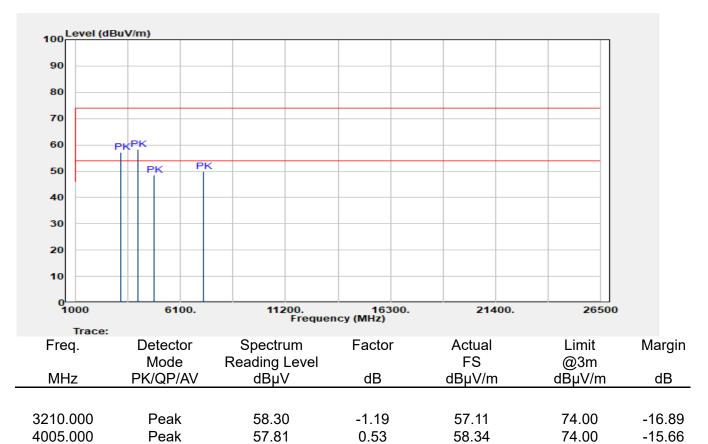
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Report Number	:TERF2403000599ER
Operation Mode	:BLE 1M
Test Frequency	:2402 MHz
Test Mode	:Tx
EUT Pol	:E2 Plane

:SAC 2 Test Site Test Date :2024-04-16 Temp./Humi. :23.2°C/61% Antenna Pol. :Horizontal Engineer :Eason Wang



Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
3210.000	Average	57.11	-32.40	24.71	54.00	-29.29
4005.000	Average	58.34	-32.40	25.94	54.00	-28.06
4804.000	Average	48.51	-32.40	16.11	54.00	-37.89
7206.000	Average	49.93	-32.40	17.53	54.00	-36.47

2.84

7.79

48.51

49.93

74.00

74.00

-25.49

-24.07

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45.67

42.14

Peak

Peak

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4804.000

7206.000



Report Number	:TERF2403000599ER
Operation Mode	:BLE 1M
Test Frequency	:2442 MHz
Test Mode	:Tx
EUT Pol	:E2 Plane

Test Site :SAC 2 Test Date :2024-04-16 Temp./Humi. :23.2°C/61% Antenna Pol. :Vertical :Eason Wang Engineer

100 Level (dB	₩V/m)					1
90						
80						
70						
60						
50		<				
40						
30						
20						
10						
0 1000 Trace:	6100.	11200. Freq	16300. uency (MHz)	21400	0. 265	00
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode PK/QP/AV	Reading Leve dBµV	l dB	FS dBµV/m	@3m dBµV/m	dB
			48			40
3255.000	Peak	53.07	-1.20	51.87	74.00	-22.13
065.000	Peak	53.26	0.41	53.67	74.00	-20.33
884.000	Peak	44.97	2.68	47.65	74.00	-26.35
7326.000	Peak	39.95	8.41	48.37	74.00	-25.63

4065.000	Average	53.67	-32.40	21.27	54.00	-32.73
4884.000	Average	47.65	-32.40	15.25	54.00	-38.75
7326.000	Average	48.37	-32.40	15.97	54.00	-38.03

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51.87

Average

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-32.40

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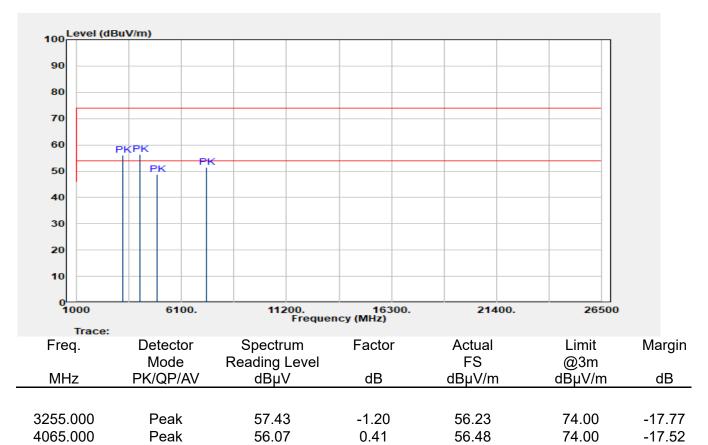
54.00

-34.53



Report Number	:TERF2403000599ER
Operation Mode	:BLE 1M
Test Frequency	:2442 MHz
Test Mode	:Tx
EUT Pol	:E2 Plane

:SAC 2 Test Site Test Date :2024-04-16 Temp./Humi. :23.2°C/61% Antenna Pol. :Horizontal Engineer :Eason Wang



Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
3255.000	Average	56.23	-32.40	23.83	54.00	-30.17
4065.000	Average	56.48	-32.40	24.08	54.00	-29.92
4884.000	Average	48.78	-32.40	16.38	54.00	-37.62
7326.000	Average	51.56	-32.40	19.16	54.00	-34.84

2.68

8.41

48.78

51.56

74.00

74.00

-25.22

-22.44

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46.10

43.15

Peak

Peak

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4884.000

7326.000



Report Number	:TERF2403000599ER
Operation Mode	:BLE 1M
Test Frequency	:2480 MHz
Test Mode	:Tx
EUT Pol	:E2 Plane

Test Site	:SAC 2
Test Date	:2024-04-16
Temp./Humi.	: 23.2℃/61%
Antenna Pol.	:Vertical
Engineer	:Eason Wang

100 Level (dl	BuV/m)					
90						
80						
70						
60						
50						
		K				
40						
30						
20						
10						
0						
	6100.	11200. Frequer	16300. ncy (MHz)	21400.	26500	
Trace: Freq.	Detector	Spectrum	Factor	Actual	Limit	Margi
·	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
200.000	Peak	52.71	-0.96	51.75	74.00	-22.2
	I Can	52.71				
300.000	Peak	52.49	0.35	52.84	74.00	-21.1
140.000 960.000	Peak Peak	52.49 46.10	0.35 2.85	52.84 48.95	74.00 74.00	-21.1 -25.0

Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
3300.000	Average	51.75	-32.40	19.35	54.00	-34.65
4140.000	Average	52.84	-32.40	20.44	54.00	-33.56
4960.000	Average	48.95	-32.40	16.55	54.00	-37.45
7440.000	Average	47.74	-32.40	15.34	54.00	-38.66

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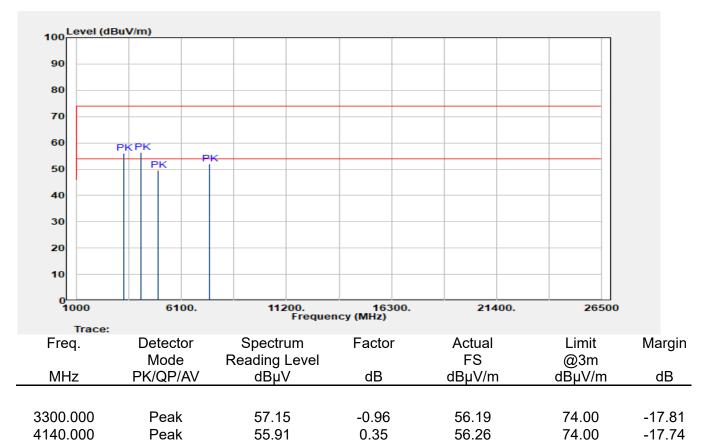
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Report No.: TERF2403000599ER Page: 50 of 53



Report Number	:TERF2403000599ER
Operation Mode	:BLE 1M
Test Frequency	:2480 MHz
Test Mode	:Tx
EUT Pol	:E2 Plane

:SAC 2 Test Site Test Date :2024-04-16 Temp./Humi. :23.2°C/61% Antenna Pol. :Horizontal Engineer :Eason Wang



Freq. (MHz)	Detector	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
			00.40		= / 00	00 0 <i>1</i>
3300.000	Average	56.19	-32.40	23.79	54.00	-30.21
4140.000	Average	56.26	-32.40	23.86	54.00	-30.14
4960.000	Average	49.71	-32.40	17.31	54.00	-36.69
7440.000	Average	52.13	-32.40	19.73	54.00	-34.27

2.85

8.57

49.71

52.13

74.00

74.00

-24.29

-21.87

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46.86

43.56

Peak

Peak

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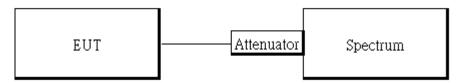
13 POWER SPECTRAL DENSITY

13.1 **Standard Applicable:**

Per Part 15.247 (e) & RSS-247 section 5.2 b

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

13.2 Test Setup



Measurement Procedure: 13.3

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Set the span to 1.5 times the DTS channel bandwidth.
- 4. Set the RBW = 3 kHz. & the VBW = 10 kHz
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.

13.4 Measurement Result:

BLE 1M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-17.68	8	PASS
2442	-17.90	8	PASS
2480	-18.12	8	PASS

*Note:

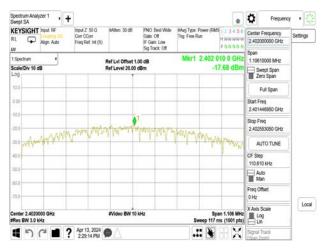
1.cable loss as 1dB that offsets in the spectrum

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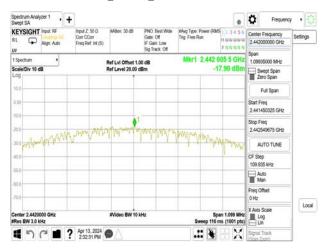
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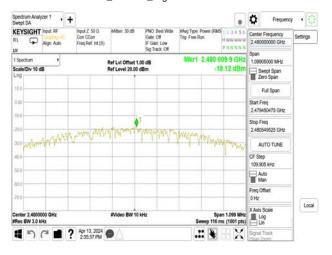
PSD_BLE 1M_LowCH00-2402MHz



PSD_BLE 1M_MidCH20-2442MHz



PSD_BLE 1M_HighCH39-2480MHz



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14 ANTENNA REQUIREMENT

14.1 Standard Applicable:

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

14.2 Antenna Connected Construction:

The antenna complies with this requirement and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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