

FCC 47 CFR PART 15 SUBPART C

TEST REPORT

For

Infrared Ear Thermometer

MODEL NUMBER: YHT108

PROJECT NUMBER: 4791571886

REPORT NUMBER: 4791571886-1

FCC ID: 2A2JJ-YHT108

ISSUE DATE: Dec. 30, 2024

Prepared for

JIANGSU YUYUE MEDICAL EQUIPMENT & SUPPLY CO., LTD.

Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	12/30/2024	Initial Issue	



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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Address:	JIANGSU YUYUE MEDICAL EQU No.1 Baisheng Road, Developme 212300 CHINA.	JIPMENT & SUPPLY CO., LTD. nt Zone, Danyang, Jiangsu
Manufacturer Information		
Company Name: Address:	JIANGSU YUYUE MEDICAL EQU No.1 Baisheng Road, Developme 212300 CHINA.	JIPMENT & SUPPLY CO., LTD. nt Zone, Danyang, Jiangsu
Factory Information		
Company Name:	JIANGSU YUYUE MEDICAL EQU	JIPMENT & SUPPLY CO., LTD.
Address:	No.1 Baisheng Road, Developme 212300 CHINA.	nt Zone, Danyang, Jiangsu
EUT Description		
Product Name:	Infrared Ear Thermometer	
Model Number:	YHT108	
Series Model Number:	1	
Model Difference:	1	
Sample Number:	7870870-S001	
Data of Receipt Sample:	Dec. 02, 2024	
Test Date:	Dec. 02, 2024~ Dec. 29, 2024	
	APPLICABLE STANDARDS	
ST	ANDARD	TEST RESULTS

CFR 47 Part 15 Subpart C

PASS



Summary of Test Results				
Clause	Test Items	FCC Rules	Test Results	
1	6 dB Bandwidth and 99% Occupied Bandwidth	FCC 15.247 (a) (2)	PASS	
2	Conducted Power	FCC 15.247 (b) (3)	PASS	
3	Power Spectral Density	FCC 15.247 (e)	PASS	
4	Conducted Band edge And Spurious emission	FCC 15.247 (d)	PASS	
5	Radiated Band edges and Spurious emission	FCC 15.247 (d) FCC 15.209 FCC 15.205	PASS	
6	Conducted Emission Test for AC Power Port	FCC 15.207	N/A (See Note 1)	
7	Antenna Requirement	FCC 15.203	PASS	

Note:

1. The EUE was powered by battery.

 The measurement result for the sample received is < Pass > according to < ANSI C63.10-2013, FCC CFR 47 Part 2, FCC CFR 47 Part 15C > when < Simple Acceptance > decision rule is applied.

Prepared By:

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Tom Tang

Emily War

Reviewed By:

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Authorized By:

Leun. Shen

Kevin Shen



2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 558074 D01 15.247 Meas Guidance v05r02, 414788 D01 Radiated Test Site v01r01, FCC 47 CFR Part 2, FCC 47 CFR Part 15, ANSI C63.10-2013.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 4829.01) UL-CCIC COMPANY LIMITED has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1247) UL-CCIC COMPANY LIMITED has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules. IC (IC Designation No.: 25056; CAB No.: CN0073) UL-CCIC COMPANY LIMITED has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.
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Note 1: All tests measurement facilities use to collect the measurement data are located at No. 2, Chengwan Road, Suzhou Industrial Park, Suzhou 215122, China

Note 2: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. These measurements below 30MHz had been correlated to measurements performed on an OFS.

Note 3: The test anechoic chamber in UL-CCIC COMPANY LIMITED had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.



4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty		
Conduction emission	3.1dB		
DTS Bandwidth	1.9%		
Maximum Conducted Output Power	1.3dB		
Maximum Power Spectral Density Level	1.5dB		
Band-edge Compliance	1.9%		
Unwanted Emissions in Non-restricted Freq Bands	9kHz-30MHz: ±0.90dB 30MHz-1GHz: ±1.5 dB 1GHz-12.75GHz: ±1.9dB 12.75GHz-26.5GHz: ±2.1dB		
Radiation Emission test (include Fundamental emission) (9kHz-30MHz)	3.4dB		
Radiation Emission test (include Fundamental emission) (30MHz-1GHz)	3.4dB		
Radiation Emission test (1GHz to 26GHz) (include Fundamental emission)	3.5dB (1GHz-18GHz)		
	3.9dB (18GHz-26.5GHz)		
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.			



5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

Equipment:	Infrared Ear Thermometer		
Model Name:	YHT108		
Technology:	Bluetooth - Low Energy		
Transmit Frequency Range:	2402 MHz ~ 2480 MH	Ηz	
Modulation:	GFSK		
	LE 1M	1 Mbps	
Data Rate.	LE 2M	2 Mbps	
Test Software of EUT:	SSCOM V5.13.1 (manufacturer declare)		
Antenna Type:	PCB Antenna		
	-1.72 dBi		
Antenna Gain:	Note: This data is provided by customer and our lab isn't responsible for this data.		



5.2. MAXIMUM OUTPUT POWER

Bluetooth Mode	Frequency (MHz)	Channel Number	Max Output Power(dBm)
BLE 1M	2402-2480	0-39[40]	0.96
BLE 2M	2402-2480	0-39[40]	1.04

5.3. CHANNEL LIST

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

5.4. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel		Frequency
	Low Channel	CH 0	2402MHz
GFSK	Middle Channel	CH 19	2440MHz
	High Channel	CH 39	2480MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band					
Test Software SSCOM V5.13.1					
Modulation Type	Transmit Antenna	Test Channel			
	Number	LCH	MCH	HCH	
GFSK	1	default	default	default	



5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Ant.	Frequency (MHz)	Antenna Type	Antenna Gain (dBi)
1	2400-2483.5	Patch Antenna	-1.72

Note: This data is provided by customer and our lab isn't responsible for this data.

Test Mode	Transmit and Receive Mode	Description
BLE 1M	⊠1TX, 1RX	Antenna1 can be used as transmitting/receiving antenna independently.
BLE 2M	⊠1TX, 1RX	Antenna1 can be used as transmitting/receiving antenna independently.

5.7. THE WORSE CASE CONFIGURATIONS

For BLE module, the product only supports 1 Mbps and 2 Mbps, both the two data rate were tested and the test result was recorded in this report.

5.8. TEST ENVIRONMENT

Environment Parameter	Selected Values During Tests			
Relative Humidity	55 ~ 65%			
Atmospheric Pressure:	101kPa			
Temperature	TN	23 ~ 28°C		
	VL	N/A		
Voltage:	VN	DC 3.0V		
	VH	N/A		

Note: VL= Lower Extreme Test Voltage VN= Nominal Voltage VH= Upper Extreme Test Voltage TN= Normal Temperature



5.9. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Description
1	Laptop	ThinkPad	E580	Supplied by UL Lab
	Fixed Frequency Board	/	/	Supplied by UL Lab

I/O PORT

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	USB-TTL	USB	100cm Length	/

ACCESSORY

Item	Accessory	Brand Name	Model Name	Description
1	/	/	/	1



TEST SETUP

The EUT can work in an engineer mode with a software through a laptop.

SETUP DIAGRAM FOR TESTS





5.10. MEASURING INSTRUMENT AND SOFTWARE USED

Used Equipment Manufacturer Model No. Serial No. Upper Last Cal. Last Cal. Nast Cal.		Conducted Emissions Test (Instrument)							
Image: Mark Product Stress ESR3 126700 2023-11-25 2024-11-02 2025-1 Image: Mark Product Stress ENV216 126701 2023-11-25 2024-11-02 2025-1 Image: Mark Product Stress Environ Manufacturer Name Version 2024-11-02 2025-1 Image: Mark Product Stress Manufacturer Manufacturer Name Version Mark Product Stress Image: Mark Product Stress EMI test receiver R&S ESR7 22293 2023-04-08 2024-03-23 2025-0 Image: Mark Product Stress Receiver Analyzer R&S ESR7 222932 2023-04-08 2024-03-23 2025-0 Image: Mark Product Stress Receiver Analyzer R&S ESR7 222992 2023-04-08 2024-03-23 2025-0 Image: Mark Product Stress Stress FSR3044 222992 2023-04-08 2024-07-24 2027-0 Image: Mark Product Stress Stress FMZB 1513 155456 2021-07-05 2024-07-04 2027-0 Image: Mark Product Stress Stress	Used	Equipment	Manufacturer	Moo	del No.	Serial No.	Upper Last Cal.	Last Cal.	Next Cal.
Image: Sec: Product Pr	\checkmark	EMI Test Receiver	R&S	E	SR3	126700	2023-11-25	2024-11-02	2025-11-01
Conducted Emissions Test (Software) Used Description Manufacturer Name Version ☑ Software for Conducted Emissions Test R&S EMC32 9.25.00 Radiated Emissions Test (Instrument) Used Equipment Manufacturer Model No. Serial No. Upper Last Cal. Last Cal. Next 1 ☑ EMI test receiver R&S ESR7 222993 2023-04-08 2024-03-23 2025-0 ☑ EMI test receiver R&S ESR76 126703 2023-04-08 2024-03-23 2025-0 ☑ Receiver Antenna (9KHz-30MH2) Schwarzbeck FMZB 1513 155456 2021-06-03 2024-07-04 2025-0 ☑ Receiver Antenna (30MHz-1GHz) Schwarzbeck VULB 9168 171952 2021-07-05 2024-07-04 2025-0 ☑ Receiver Antenna (16Hz-26.5GHz) Schwarzbeck BBHA9170 126706 2019-01-27 2022-02-28 2025-0 ☑ Pre-amplification (To 18GHz) Tonscned TAP01018050 224519 <td>\checkmark</td> <td>Two-Line V-Network</td> <td>R&S</td> <td>EN</td> <td>V216</td> <td>126701</td> <td>2023-11-25</td> <td>2024-11-02</td> <td>2025-11-01</td>	\checkmark	Two-Line V-Network	R&S	EN	V216	126701	2023-11-25	2024-11-02	2025-11-01
Used Description Manufacturer Name Version ☑ Software for Conducted Emissions Test R&S EMC32 9.25.00 Radiated Emissions Test (Instrument) Used Equipment Manufacturer Model No. Serial No. Upper Last Cal. Last Cal. Next Of Cal. ☑ EMI test receiver R&S ESR7 222993 2023-04-08 2024-03-23 2025-0 ☑ EMI test receiver R&S ESR7 222992 2023-04-08 2024-03-23 2025-0 ☑ Spectrum Analyzer R&S FSV3044 222992 2023-04-08 2024-03-23 2025-0 ☑ Receiver Antenna Schwarzbeck FMZB 1513 155456 2021-07-05 2024-07-04 2027-0 ☑ Receiver Antenna (16Hz-18GHz) Schwarzbeck VULB 9168 171952 2019-01-27 2022-02-28 2025-0 ☑ Receiver Antenna (16GHz-18GHz) Schwarzbeck BBHA9170 126706 2019-01-27 2022-02-28 2025-0			Cond	lucted	l Emissio	ons Test (So	ftware)	1	1
☑ Software for Conducted Emissions Test R&S EMC32 9.25.00 Radiated Emissions Test (Instrument) Used Equipment Manufacturer Model No. Serial No. Upper Last Cal. Last Cal. Next I Id EMI test receiver R&S ESR7 222993 2023-04-08 2024-03-23 2025-0 Id EMI test receiver R&S ESR26 126703 2022-11-25 2024-10-2 2025-11 2024-03-23 2025-02 Id Receiver Antenna (30MHz-1GHz) Schwarzbeck FMZB 1513 155456 2021-06-03 2024-05-27 2027-0 Id Receiver Antenna (30MHz-1GHz) Schwarzbeck VULB 9168 171952 2021-07-05 2024-07-04 2027-0 Id Receiver Antenna (1GHz-18GHz) Schwarzbeck BBHA9170 126706 2019-01-27 2022-02-28 2025-0 Id Pre-amplification (To 18GHz) Tonscned TAP01018050 224539 2023-10-10 2024-10-10 2025-1 Id Pre-amplification (To 18GHz)	Used	Desc	ription		Man	ufacturer	Name	Version	
Radiated Emissions Test (Instrument) Used Equipment Manufacturer Model No. Serial No. Upper Last Cal. Last Cal. Next No. Image: EMI test receiver R&S ESR7 222993 2023-04-08 2024-03-23 2025-01 Image: EMI test receiver R&S ESR26 126703 2023-04-08 2024-03-23 2025-02 Image: EMI test receiver R&S FSV3044 222992 2023-04-08 2024-03-23 2025-02 Image: EMI test receiver Antenna Schwarzbeck FMZB 1513 155456 2021-06-03 2024-05-27 2027-0 Image: Receiver Antenna Schwarzbeck VULB 9168 171952 2021-07-05 2024-07-04 2027-02 Image: Receiver Antenna R&S HF907 126705 2019-01-27 2022-02-28 2025-0 Image: Receiver Antenna Schwarzbeck BBHA9170 126706 2019-01-27 2022-02-28 2025-0 Image: Receiver Antenna Schwarzbeck BHA9170 126706 2019-01-27 2022-02-28 2025-0	\checkmark	Software for Condu	cted Emissions	Test		R&S	EMC32	9.25.00	
Used Equipment Manufacturer Model No. Serial No. Upper Last Cal. Last Cal. Next (I Image: Construction of the constrevent of the constrevent of the construction of the			Radia	ated E	mission	s Test (Instr	ument)		T
☑ EMI test receiver R&S ESR7 222993 2023-04-08 2024-03-23 2025-0 ☑ EMI test receiver R&S ESR26 126703 2023-01-25 2024-03-23 2025-0 ☑ Receiver Antenna (9KHz-30MHz) Schwarzbeck FMZB 1513 155456 2021-06-03 2024-03-23 2025-0 ☑ Receiver Antenna (30MHz-1GHz) Schwarzbeck VULB 9168 171952 201-07-05 2024-07-04 2027-0 ☑ Receiver Antenna (1GHz-186Hz) Schwarzbeck VULB 9168 171952 2019-01-27 2022-02-28 2025-0 ☑ Receiver Antenna (1GHz-126.5GHz) Schwarzbeck BBHA9170 126706 2019-01-27 2022-02-28 2025-0 ☑ Pre-amplification (To 18GHz) Tonscned TAP01018050 224539 2023-10-10 2024-10-10 2025-1 ☑ Pre-amplification (To 26.5GHz) R&S SCU-26D 2023-11-25 2024-11-02 2025-1 ☑ Pre-amplification (To 26.5GHz) R&S SCU-26D 2023-11-25 2024	Used	Equipment	Manufacturer	Moo	del No.	Serial No.	Upper Last Cal.	Last Cal.	Next Cal.
☑ EMI test receiver R&S ESR26 126703 2023-11-25 2024-11-02 2025-0 ☑ Spectrum Analyzer R&S FSV3044 222992 2023-04-08 2024-03-23 2025-0 ☑ Receiver Antenna (9kHz-30MHz) Schwarzbeck FMZB 1513 155456 2021-06-03 2024-05-27 2027-0 ☑ Receiver Antenna (1GHz-18GHz) Schwarzbeck VULB 9168 171952 2019-01-27 2022-02-28 2025-0 ☑ Receiver Antenna (1GHz-26.5GHz) Schwarzbeck BBHA9170 126706 2019-01-27 2022-02-28 2025-0 ☑ Receiver Antenna (1G 18GHz) Tonscned TAP01018050 224539 2023-10-10 2024-10-10 2025-1 ☑ Pre-amplification (To 18GHz) R&S SCU-18D 2023-11-25 2024-11-02 2025-1 ☑ Pre-amplification (To 18GHz) R&S SCU-26D 2023-11-25 2024-11-02 2025-1 ☑ Pre-amplification (To 26.5GHz) R&S SCU-26D 2023-11-25 2024-12-17 2025-1	\checkmark	EMI test receiver	R&S	E	SR7	222993	2023-04-08	2024-03-23	2025-03-22
☑ Spectrum Analyzer R&S FSV3044 222992 2023-04-08 2024-03-23 2025-02 ☑ Receiver Antenna (9KHz-30MHz) Schwarzbeck FMZB 1513 155456 2021-06-03 2024-05-27 2027-0 ☑ Receiver Antenna (30MHz-1GHz) Schwarzbeck VULB 9168 171952 2021-07-05 2024-07-04 2027-0 ☑ Receiver Antenna (1GHz-18GHz) Schwarzbeck VULB 9168 171952 2021-07-05 2024-07-04 2027-0 ☑ Receiver Antenna (1GHz-18GHz) Schwarzbeck BBHA9170 126705 2019-01-27 2022-02-28 2025-0 ☑ Receiver Antenna (1GHz-18GHz) Schwarzbeck BBHA9170 126706 2019-02-29 2022-02-28 2025-0 ☑ Pre-amplification (To 18GHz) Tonscned TAP01018050 224539 2023-11-25 2024-11-02 2025-1 ☑ Pre-amplification (To 26.5GHz) R&S SCU-26D 2023-11-25 2024-11-02 2025-1 ☑ Band Reject Filter Wainwright WRCGV12- 2375-2400- 2485-2510- 1		EMI test receiver	R&S	E	SR26	126703	2023-11-25	2024-11-02	2025-11-01
Image: Receiver Antenna (9kHz-30MHz) Schwarzbeck FMZB 1513 155456 2021-06-03 2024-05-27 2027-02 Image: Receiver Antenna (30MHz-1GHz) Schwarzbeck VULB 9168 171952 2021-07-05 2024-07-04 2027-02 Image: Receiver Antenna (1GHz-18GHz) Receiver Antenna (1GHz-18GHz) Res HF907 126705 2019-01-27 2022-02-28 2025-02 Image: Receiver Antenna (1BGHz-26.5GHz) Schwarzbeck BBHA9170 126706 2019-02-29 2022-02-28 2025-02 Image: Receiver Antenna (1BGHz) Schwarzbeck BBHA9170 126706 2019-02-29 2022-02-28 2025-02 Image: Receiver Antenna (1BGHz) Schwarzbeck BBHA9170 126706 2019-02-29 2022-02-28 2025-02 Image: Receiver Antenna (1BGHz) Schwarzbeck BBHA9170 126706 2019-02-29 2022-02-28 2025-02 Image: Receiver Antenna (18GHz) Tonscned TAP01018050 224539 2023-11-25 2024-11-02 2025-1 Image: Rege:	\checkmark	Spectrum Analyzer	R&S	FS	V3044	222992	2023-04-08	2024-03-23	2025-03-22
☑ Receiver Antenna (30MHz-1GHz) Schwarzbeck VULB 9168 171952 2021-07-05 2024-07-04 2027-04 ☑ Receiver Antenna (1GHz-18GHz) R&S HF907 126705 2019-01-27 2022-02-28 2025-02 ☑ Receiver Antenna (18GHz-26.5GHz) Schwarzbeck BBHA9170 126706 2019-01-27 2022-02-28 2025-02 ☑ Pre-amplification (To 18GHz) Tonscned TAP01018050 224539 2023-10-10 2024-10-10 2025-1 ☑ Pre-amplification (To 18GHz) R&S SCU-18D 2023-11-25 2023-11-25 2024-11-02 2025-1 ☑ Pre-amplification (To 26.5GHz) R&S SCU-26D 2023-11-25 2024-11-02 2025-1 ☑ Pre-amplification (To 26.5GHz) R&S SCU-26D 2023-11-25 2024-11-02 2025-1 ☑ Band Reject Filter Wainwright WRCGV12- 2375-2400- 2485-2510- 01 2023-12-18 2024-12-17 2025-1 ☑ High Pass Filter COM-MW ZBF13-3-18G- 01 2 2023-12-18 <td< td=""><td></td><td>Receiver Antenna (9kHz-30MHz)</td><td>Schwarzbeck</td><td>FMZ</td><td>B 1513</td><td>155456</td><td>2021-06-03</td><td>2024-05-27</td><td>2027-05-26</td></td<>		Receiver Antenna (9kHz-30MHz)	Schwarzbeck	FMZ	B 1513	155456	2021-06-03	2024-05-27	2027-05-26
☑ Receiver Antenna (1GHz-18GHz) R&S HF907 126705 2019-01-27 2022-02-28 2025-02 ☑ Receiver Antenna (18GHz-26.5GHz) Schwarzbeck BBHA9170 126706 2019-02-29 2022-02-28 2025-02 ☑ Pre-amplification (To 18GHz) Tonscned TAP01018050 224539 2023-10-10 2024-10-10 2025-1 ☑ Pre-amplification (To 18GHz) R&S SCU-18D 2023-11-25 2023-11-25 2024-11-02 2025-1 ☑ Pre-amplification (To 26.5GHz) R&S SCU-26D 2023-11-25 2024-11-02 2025-1 ☑ Pre-amplification (To 26.5GHz) R&S SCU-26D 2023-11-25 2024-11-02 2025-1 ☑ Band Reject Filter Wainwright WRCGV12- 2375-2400- 2485-2510- 40SS 2023-12-18 2024-12-17 2025-1 ☑ High Pass Filter COM-MW ZBF13-3-18G- 01 2 2023-12-18 2024-12-17 2025-1 ☑ High Pass Filter COM-MW ZBF13-3-18G- 01 2 2023-12-18 2024-12-17		Receiver Antenna (30MHz-1GHz)	Schwarzbeck	VUL	.B 9168	171952	2021-07-05	2024-07-04	2027-07-03
☑ Receiver Antenna (18GHz-26.5GHz) Schwarzbeck BBHA9170 126706 2019-02-29 2022-02-28 2025-02 ☑ Pre-amplification (To 18GHz) Tonscned TAP01018050 224539 2023-10-10 2024-10-10 2025-1 ☑ Pre-amplification (To 18GHz) R&S SCU-18D 2023-11-25 2023-11-25 2024-11-02 2025-1 ☑ Pre-amplification (To 26.5GHz) R&S SCU-26D 2023-11-25 2023-11-25 2024-11-02 2025-1 ☑ Pre-amplification (To 26.5GHz) R&S SCU-26D 2023-11-25 2023-11-25 2024-12-17 2025-1 ☑ Band Reject Filter Wainwright WRCGV12- 2375-2400- 2485-2510- 40SS 2023-12-18 2024-12-17 2025-1 ☑ High Pass Filter COM-MW ZBF13-3-18G- 01 2 2023-12-18 2024-12-17 2025-1 ☑ High Pass Filter COM-MW ZBF13-3-18G- 01 2 2023-12-18 2024-12-17 2025-1 ☑ Software for Radiated Emissions Test Tonscend JS32-RE 5.0.0.2 Image: Software for Radiated Emissions Test Software for Radiated Emissions Test		Receiver Antenna (1GHz-18GHz)	R&S	HF907		126705	2019-01-27	2022-02-28	2025-02-27
Image: Markabox Pre-amplification (To 18GHz) Tonscned TAP01018050 224539 2023-10-10 2024-10-10 2025-1 Image: Markabox Pre-amplification (To 18GHz) R&S SCU-18D 2023-11-25 2023-11-25 2024-11-02 2025-1 Image: Markabox Pre-amplification (To 26.5GHz) R&S SCU-26D 2023-11-25 2023-11-25 2024-11-02 2025-1 Image: Markabox R&S SCU-26D 2023-11-25 2023-11-25 2024-12-17 2025-1 Image: Markabox Wainwright WRCGV12- 2375-2400- 2485-2510- 40SS 1 2023-12-18 2024-12-17 2025-1 Image: Markabox Wainwright ZBF13-3-18G- 01 2 2023-12-18 2024-12-17 2025-1 Image: Markabox Exact and Emissions Test Tonscend JS32-RE 5.0.0.2 1 Image: Markabox Manufacturer Manufacturer Name Version 1 Image: Markabox Manufacturer Model No. Serial No. Upper Last Cal. Last Cal. Next of Next of Next of Next of Next of Next of		Receiver Antenna (18GHz-26.5GHz)	Schwarzbeck	BBHA9170		126706	2019-02-29	2022-02-28	2025-02-27
Image: Pre-amplification (To 18GHz) R&S SCU-18D 2023-11-25 2023-11-25 2024-11-02 2025-1 Image: Pre-amplification (To 26.5GHz) R&S SCU-26D 2023-11-25 2023-11-25 2024-11-02 2025-1 Image: Pre-amplification (To 26.5GHz) R&S SCU-26D 2023-11-25 2023-11-25 2024-11-02 2025-1 Image: Pre-amplification (To 26.5GHz) R&S SCU-26D 2023-11-25 2023-11-25 2024-12-17 2025-1 Image: Pre-amplification (To 26.5GHz) Wainwright WRCGV12- 2375-2400- 2485-2510- 40SS 2 2023-12-18 2024-12-17 2025-1 Image: Pre-amplification (To 26.5GHz) COM-MW ZBF13-3-18G- 01 2 2023-12-18 2024-12-17 2025-1 Image: Pre-amplification (To 26.5GHz) COM-MW ZBF13-3-18G- 01 2 2023-12-18 2024-12-17 2025-1 Image: Pre-amplification (To 26.5GHz) COM-MW ZBF13-3-18G- 01 2 2023-12-18 2024-12-17 2025-1 Image: Pre-amplification (To 26.5GHz) Manufacturer Manufacturer Namufacturer Name V		Pre-amplification (To 18GHz)	Tonscned	TAP01018050		224539	2023-10-10	2024-10-10	2025-10-09
Image: Pre-amplification (To 26.5GHz) R&S SCU-26D 2023-11-25 2023-11-25 2024-11-02 2025-1 Image: Band Reject Filter Wainwright WRCGV12- 2375-2400- 2485-2510- 40SS 1 2023-12-18 2024-12-17 2025-1 Image: Band Reject Filter Wainwright ZBF13-3-18G- 01 2 2023-12-18 2024-12-17 2025-1 Image: Band Reject Filter COM-MW ZBF13-3-18G- 01 2 2023-12-18 2024-12-17 2025-1 Image: Band Reject Filter COM-MW ZBF13-3-18G- 01 2 2023-12-18 2024-12-17 2025-1 Image: Band Reject Filter COM-MW ZBF13-3-18G- 01 2 2023-12-18 2024-12-17 2025-1 Image: Band Reject Filter COM-MW ZBF13-3-18G- 01 2 2023-12-18 2024-12-17 2025-1 Image: Band Reject Filter COM-MW ZBF13-3-3-18G- 01 2 2023-12-18 2024-02-12 2025-1 Image: Band Reject Filter Description Manufacturer Namufacturer Name Version 2 Image: Band Reject Fin		Pre-amplification (To 18GHz)	R&S	SCU-18D		2023-11-25	2023-11-25	2024-11-02	2025-11-01
☑ Band Reject Filter Wainwright WRCGV12- 2375-2400- 2485-2510- 40SS 1 2023-12-18 2024-12-17 2025-1 ☑ High Pass Filter COM-MW ZBF13-3-18G- 01 2 2023-12-18 2024-12-17 2025-1 Used Description Kadiated Emissions Test (Software) 2 2023-12-18 2024-12-17 2025-1 Used Description Manufacturer Name Version ☑ Software for Radiated Emissions Test Tonscend JS32-RE 5.0.0.2 Used Equipment Manufacturer Model No. Serial No. Upper Last Cal. Last Cal. Next O ☑ Spectrum Analyzer Keysight N9010B 155368 2023-04-08 2024-03-23 2025-0 ☑ Power Meter MWT MW100-RFCB 221694 2023-04-08 2024-03-23 2025-0 ☑ PASTERNACK PE7087-6 1624 2023-04-08 2024-03-23 2025-0 ☑ Attenuator PASTERNACK PE7087-6		Pre-amplification (To 26.5GHz)	R&S	SC	U-26D	2023-11-25	2023-11-25	2024-11-02	2025-11-01
☑ High Pass Filter COM-MW ZBF13-3-18G- 01 2 2023-12-18 2024-12-17 2025-1 Radiated Emissions Test (Software) Used Description Manufacturer Name Version ☑ Software for Radiated Emissions Test Tonscend JS32-RE 5.0.0.2 Lused Equipment Manufacturer Model No. Serial No. Upper Last Cal. Last Cal. Next of the test of t	V	Band Reject Filter	Wainwright	WRCGV12- 2375-2400- 2485-2510- 40SS		1	2023-12-18	2024-12-17	2025-12-16
Radiated Emissions Test (Software) Used Description Manufacturer Name Version ☑ Software for Radiated Emissions Test Tonscend JS32-RE 5.0.0.2 Antenna Port Test (Instrument) Used Equipment Manufacturer Model No. Serial No. Upper Last Cal. Last Cal. Next of the second seco		High Pass Filter	COM-MW	ZBF1	3-3-18G- 01	2	2023-12-18	2024-12-17	2025-12-16
Used Description Manufacturer Name Version ☑ Software for Radiated Emissions Test Tonscend JS32-RE 5.0.0.2 Antenna Port Test (Instrument) Used Equipment Manufacturer Model No. Serial No. Upper Last Cal. Last Cal. Next of the second s			Rad	iated	Emissio	ns Test (Soft	tware)	1	
☑ Software for Radiated Emissions Test Tonscend JS32-RE 5.0.0.2 Antenna Port Test (Instrument) Used Equipment Manufacturer Model No. Serial No. Upper Last Cal. Last Cal. Next of the test of tes	Used	Desc	ription		Man	ufacturer	Name	Version	
Antenna Port Test (Instrument) Used Equipment Manufacturer Model No. Serial No. Upper Last Cal. Last Cal. Next of the second se	\checkmark	Software for Radia	ated Emissions Te	est	То	nscend	JS32-RE	5.0.0.2	
Used Equipment Manufacturer Model No. Serial No. Upper Last Cal. Last Cal. Next of the second sec			Α	ntenn	a Port Te	est (Instrume	ent)		
☑ Spectrum Analyzer Keysight N9010B 155368 2023-04-08 2024-03-23 2025-0 ☑ Power Meter MWT MW100-RFCB 221694 2023-04-08 2024-03-23 2025-0 ☑ Attenuator PASTERNACK PE7087-6 1624 2023-04-08 2024-03-23 2025-0 ▲ntenna Port Test (Software) ▲ntenna Port Test (Software) ▲ntenna ▲ntenna ▲ntenna	Used	Equipment	Manufacturer	Мо	del No.	Serial No.	Upper Last Cal.	Last Cal.	Next Cal.
☑ Power Meter MWT MW100-RFCB 221694 2023-04-08 2024-03-23 2025-0 ☑ Attenuator PASTERNACK PE7087-6 1624 2023-04-08 2024-03-23 2025-0 Attenuator PASTERNACK PE7087-6 1624 2023-04-08 2024-03-23 2025-0 Antenna Port Test (Software) Antenna Port Test (Software) Antenna Port Test (Software) Antenna Port Test (Software)	\checkmark	Spectrum Analyzer	Keysight	NS	9010B	155368	2023-04-08	2024-03-23	2025-03-22
Image: Mathematical Attenuator PASTERNACK PE7087-6 1624 2023-04-08 2024-03-23 2025-0 Antenna Port Test (Software)	\checkmark	Power Meter	MWT	MW100-RFCB		221694	2023-04-08	2024-03-23	2025-03-22
Antenna Port Test (Software)		Attenuator	PASTERNACK	PE	7087-6	1624	2023-04-08	2024-03-23	2025-03-22
			ł	Anten	na Port 1	Test (Softwa	re)		
Used Description Manufacturer Name Version	Used	Desc	ription		Man	ufacturer	Name	Version	
Software for Antenna Port Test Tonscend JS1120-3 Test System V3.2.22		Software for Ar	ntenna Port Test		То	nscend	JS1120-3 Test System	V3.2.22	



6. MEASUREMENT METHODS

No.	Test Item	KDB Name	Section
1	6 dB Bandwidth and 99% Occupied Bandwidth	KDB 558074 D01 15.247 Meas Guidance v05r02	8.2
2	Output Power	KDB 558074 D01 15.247 Meas Guidance v05r02	8.3.1.3
3	Power Spectral Density	KDB 558074 D01 15.247 Meas Guidance v05r02	8.4
4	Out-of-band emissions in non-restricted bands	KDB 558074 D01 15.247 Meas Guidance v05r02	8.5
5	Out-of-band emissions in restricted bands	KDB 558074 D01 15.247 Meas Guidance v05r02	8.6
6	Band-edge	KDB 558074 D01 15.247 Meas Guidance v05r02	8.7
7	Conducted Emission Test for AC Power Port	ANSI C63.10-2013	6.2



7. ANTENNA PORT TEST RESULTS

7.1. ON TIME AND DUTY CYCLE

<u>LIMITS</u>

None; for reporting purposes only

PROCEDURE

FCC KDB 558074 Zero-Span Spectrum Analyzer Method

TEST SETUP



TEST ENVIRONMENT

Temperature	22°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.0V

TEST RESULTS TABLE

Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (db)	1/T Minimum VBW (kHz)	Final VBW (kHz)
BLE 1M	100	100	1	100	0	0.01	0.01
BLE 2M	100	100	1	100	0	0.01	0.01

Note: 1) Duty Cycle Correction Factor=10log(1/x).

2) Where: x is Duty Cycle (Linear)

3) Where: T is On Time (transmit duration)



TEST GRAPHS







7.2. 6 dB BANDWIDTH

LIMITS

FCC Part15 (15.247), Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)		
FCC 47 CFR 15.247(a)(2)	6dB Bandwidth	>= 500kHz	2400-2483.5		

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

Center Frequency	The centre frequency of the channel under test
Frequency Span	Peak
	For 6 dB Bandwidth: 100 kHz
Detector	For 99% Occupied Bandwidth: 1% to 5% of the occupied bandwidth
RBW	For 6 dB Bandwidth: ≥3 × RBW For 99% Occupied Bandwidth: ≥3 × RBW
VBW	Max hold
Trace	Max hold
Sweep	Auto couple

Connect the EUT to the spectrum analyser and use the following settings:

a) Use the 99% power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.

b) Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



TEST SETUP



TEST ENVIRONMENT

Temperature	22°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.0V

TEST RESULTS TABLE

Test Mode	Test Channel	6dB bandwidth (MHz)	Result
	LCH	0.692	Pass
BLE 1M	MCH	0.708	Pass
	НСН	0.704	Pass
	LCH	1.260	Pass
BLE 2M	MCH	1.312	Pass
	HCH	1.320	Pass



TEST GRAPHS













Test Mode	Test Channel	Verdict
BLE 2M	МСН	PASS
Spectrum Analyzer 1 Circle 2:00 Rit + Algor Auto 1 Spectrum Scale Div 10 dB Log 0 0 0 0 0 0 0 0 0 0 0 0 0	INCOLD Prequent #Atter: 30:d8 PAO, Best Mids. #Aog Type, Power (RMS) 12: 2: 4: 4: 8 Center Frequency, Mids. Presence Oil Eff Carl Low. Trig. Free Rum Multiwell 200200 Center Frequency, Mids. Sg Track. Oil Trig. Free Rum P.P.P.P.P.P Span Ref Level 20.00 dBm 0.04 dB Start Freq Q2 301 Life and Low. Start Freq #Video BW 300 kHz Span 4.000 MHz Start Freq #Video BW 300 kHz Span 4.000 MHz Start Freq Sweep 1.00 ms (100 rps) CF Step AUTO TUNE	Settings
Mode Trace Scale X 1 N 1 f 2.43 3.40 GH 2 N 1 f 2.440 132 GH 3 Δ1 1 f (Δ) 1.512 MH 4 5 6 6 6 7 (Δ) 7.512 MH 4 5 6 7 (Δ) 7.512 MH 6 7 9 0.61, 0.024 1.512 MH 6 7 1.512 MH 6 6 7 1.512 MH 1.512 MH	Y Function Function Wath Auto 2 -7.558 dBm -7.558 dBm -7.558 dBm -7.158 dBm	





7.3. CONDUCTED OUTPUT POWER

LIMITS

	FCC Part15 (15.247), Subpart C	
Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5

TEST PROCEDURE

Place the EUT on the table and set it in the transmitting mode.

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Power sensor.

Measure the power of each channel.

PK Detector used for PK result.

TEST ENVIRONMENT

Temperature	22°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.0V

TEST SETUP





TEST RESULTS TABLE

Test Mode	Test Channel	Maximum Conducted Output Power (PK)	LIMIT
Test Mode	Test Channel	dBm	dBm
	LCH	0.72	30
BLE 1M	MCH	0.96	30
	HCH	0.86	30
	LCH	0.76	30
BLE 2M	MCH	1.04	30
	НСН	0.86	30



7.4. POWER SPECTRAL DENSITY

LIMITS

	FCC Part15 (15.247),	Subpart C	
Section	Test Item	Limit	Frequency Range (MHz)
FCC §15.247 (e)	Power Spectral Density	8 dBm/3 kHz	2400-2483.5

TEST PROCEDURE

Refer to FCC KDB 558074, connect the UUT to the spectrum analyser and use the following settings:

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	3 kHz ≤ RBW ≤100 kHz
VBW	≥3 × RBW
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST ENVIRONMENT

Temperature	22°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.0V

TEST SETUP





TEST RESULTS TABLE

Test Mode	Test Channel	Maximum Peak power spectral density (dBm/30kHz)	Result
	LCH	-3.67	Pass
BLE 1M	MCH	-3.50	Pass
	HCH	-3.56	Pass
	LCH	-5.50	Pass
BLE 2M	MCH	-5.22	Pass
	HCH	-5.44	Pass

TEST GRAPHS

BLE 1M LCH PASS	Test Mode	Test Channel	Verdict
Sector An Analyzer 1 Image: 2010 Extended on the sector of the sect	BLE 1M	LCH	PASS
1 D C4 1 2 Dec 03.2024	Center 2.4402000 GHz Res SW 30 kHz	#Atem: 20 dB "Prop Description" #Augringte Power (PMS 1/2 / 2 / 4 / 5) Center Frequency Premo: Off Totale Off Augrinde 200200 M.W.WWWW Center Frequency 242000000 GHz Figure Tow Trig: Free Rum M.W.WWW Start Freq 1.0350000 MHz: Ref Lavel 10.00 Bm -3.67 GBm Start Freq 2.401451000 GHz Start Freq 2.401451000 GHz Start Freq 2.401451000 GHz Start Freq 2.401451000 GHz 1.0350000 MHz	Settings



Test Mode	Test Channel	Verdict
BLE 1M	МСН	PASS
Spectrum Analyzer 1 Sweet SA KEYSIGHT Inquir RF RL +	Atten: 20.45 PND Best Vide: =Avg Type Power (PMS) Pleamp Off Gate Off Anglived: 20020 F Gatr Low Thig: Fee Run P P P P P P P P P P P P P P P P P P P	Settings
Scale/Div 10 dB	RefLivi Offset 8.23 dB INRET 2.440 0.00 TOTR2 10500000 MH2 RefLevel 10.00 dBm -3.50 dBm Zero Span Full Span Start Freq	
-20 0	2.439469000 GHz Stop Freq 2.440531000 GHz AUTO TUNE	
-50 0 	OF Step. 106 200 kHz Auto Man	
30 0 Center 2,4400000 GHz #Res BW 30 kHz	#Video BW 100 kHz Span 1.062 MHz Log Sweep 1.13 ms (1000 pts)	
🗮 🏷 🥂 🔳 🥐 Dec 03, 2024 7:55:42 PM	Signal Track: (Span Zoom)	





BLE 2M LCH PASS
Spectrum Analyzer 1 Swent SA Imput 7: 50.0. #Addam: 20.dB PNOI Biest Webs #Add Type Power (RMS) 2.3.4.4. Center Frequency Example KEYSIGHT Integers Tot Imput 7: 50.0. #Addam: 20.dB PNOI Biest Webs #Add Type Power (RMS) 2.3.4.4. Center Frequency Example RL → Auge Auso Tree Ref. fot (S) Prequency Imput 7: Freq Ruin Impu 7: Freq
20 0 2 40105500 GHz 500 Preq 2.40254500 GHz 2.40254500 GHz 2.40254500 GHz 2.40254500 GHz 2.40254500 GHz 2.40250 GHz 183.000 HHz 183.000 HHz 183.000 HHz 183.000 HHz 183.000 HHz
Center 2.4020000 GHz #Video BW 100 kHz Span 1.890 MHz Log #Res BW 30 kHz Dec 03.2024





Test Mode	Test Channel	Verdict
BLE 2M	НСН	PASS
Spectrum Analyzer 1 Veret SA KEYSIGHT Input Z: 500 RL + Mage Anto Constitors Of File Ref Int (S Constitors Of File Ref	#Atten: 20.dB PA(0) Bed Wids #Avg Type Rower (RMS) 12.3.4.3.6 Pleamp: Off Gala: Off Avg Type Rower (RMS) 12.3.4.3.6 % Sq Track Off Tig: Free Run MWWWWW P.P. P.P. P.P. P Ref Level 10.00 dBm 5.4.4 dBm 4 5.4.4 dBm 5.4.4 dBm 5.4.4 dBm 4 Mixr1 2.4.80 110 88 GHz 5.4.4 dBm 4 4 5.4.4 dBm 5.4.4 dBm 4 4 5.4.4 dBm 5.4.4 dBm 4 4 5.4.4 dBm 6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.	Prequency Partier Frequency 245000000 GHz pan 3500000 MHz \$Nept Span Full Span Full Span Pull Span Pull Span Pull Span Pull Span Foreq 249050000 GHz Pull Span Pull Span Pull Span Foreq 249050000 GHz Pull Span Pull Span <



7.5. CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS

LIMITS

FCC Part15 (15.247), Subpart C			
Section	Test Item	Limit	
FCC §15.247 (d)	Conducted Bandedge and Spurious Emissions	20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power	

TEST PROCEDURE

Refer to FCC KDB 558074, connect the UUT to the spectrum analyser and use the following settings:

Center Frequency	The centre frequency of the channel under test	
Detector	Peak	
RBW	100 kHz	
VBW	≥3 × RBW	
Span	1.5 x DTS bandwidth	
Trace	Max hold	
Sweep time	Auto couple.	

Use the peak marker function to determine the maximum PSD level.

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	≥3 × RBW
measurement points	≥span/RBW
Trace	Max hold
Sweep time	Auto couple.

Use the peak marker function to determine the maximum amplitude level.

TEST SETUP



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TEST ENVIRONMENT

Temperature	22°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.0V

PART 1: REFERENCE LEVEL MEASUREMENT

TEST RESULTS TABLE

Test Mode	Test Channel	Result[dBm]
BLE 1M	LCH	-0.34
	MCH	-0.11
	HCH	-0.22
BLE 2M	LCH	-1.73
	MCH	-1.61
	НСН	-1.84

TEST GRAPHS









Test Mode	Channel
BLE 2M	LCH
Spectrum Analyzer 1 .	Frequency +
KEYSIGHT input R≠ input R≠ 00.0 #Altern 30.05 RL →→ Algor Auto Freq Ref trt (S)	lea Vika, #Ang Tipe Power (RHS 1) 2 i 4 ± 6 M AngHed X00200 H Day Critic Frequency 2 422000000 GHz Settings 2 422000000 GHz 2 422000000 GHz
1 Spectrum Ref Lvi Offset 8.15 dB Scale Div 10 dB Ref Level 28.15 dB Log	Mkr1 2.402 136 08 GHz -1.73 dBm Swept Span Swept Span
182	Full Span
15 15	Statt Freq 2.401055000 GHz
-1.00	Stop Freq 2.402945000 GHz
.219	AUTO TUNE
31.9	CF Step. 189.000 kHz
49 9 	Auto Man
.81.9	Freq Offset
Center 2.4020000 GHz #Video BW 300 kHz #Res BW 100 kHz	Span 1.890 MHz Sweep 1.00 ms (100 pts)
4 5 C 1 2024 80147 PM	Signal Track





Test Mode	Channel
BLE 2M	HCH
Spectrum Analyzer 1	Frequency +
KEYSIGHT Input RF- RL → Algar Audo Freq Ref Int (S) Biol And Biol Res / Algar Audo Freq Ref Int (S) Fig Ref Int (S) Signar Long Signar Audo Signar Long	Advg Type Fower (MMS 12 3 4 5 f) AugHold 200200 Tity Free Run P P P P P P
1 Spectrum Ref Lvi Offset 8.23 dB Scale Div 10 dB Ref Level 28.23 dBm Log	Mkr1 2.480 134 64 GHZ 59an -1.84 dBm Swept Span Zero Span
182	Ful Span
8 23	Stat Freq 2.47901000 GHz
.11.8	Stop Freq 2.49090000 GHz
218	AUTO TUNE
318	OF Step 198.000 M/z
118	Auto
41.8	Freq Offset
Center 2.4800000 GHz #Video BW 300 kHz #Res BW 100 kHz	Span 1.900 MHz Sweep 1.00 ms (1001 pts)
📲 5 C 🖬 ? Dec 03.2024 807.32 PM	Signal Track



PART 2: CONDUCTED BANDEDGE

TEST RESULTS TABLE

Test Mode	Test Channel	Result	Verdict
	LCH	Refer to the Test Graph	PASS
BLE IN	HCH	Refer to the Test Graph	PASS
BLE 2M	LCH	Refer to the Test Graph	PASS
	НСН	Refer to the Test Graph	PASS



TEST GRAPHS







Test Mode	Test Channel	Verdict
BLE 2M	LCH	PASS
Concertum Analyzer 1 + Concertum Analyzer 1 + Concertum Analyzer 1 Imput 2: 50 0 RL ++ Auger Auto TSpectrum * Scale/Dv 10 dB - 00 -	Edition PNO Fast Premio: Oit #Avg Type: Power (RMS 1/2 14 3) AvgHvid 200200 Center Frequency 232550000 GHz Figure 10w Sig Track Off #Avg Type: Power (RMS 1/2 14 3) AvgHvid 200200 Center Frequency 232550000 GHz Center Frequency 232550000 GHz Ref Level 20.00 dBm -31.73 dBm 105.00000 GHz Span 105.00000 dHz -31.73 dBm Stop Freq 240500000 GHz Stop Freq 240500000 GHz Finder EW 300 KHz Stop 2.40500 GHz Stop Freq 240500000 GHz Stop Freq 240500000 GHz Y Function Function Width Function Vidth Function Vidth Y Function Function Vidth Function Vidth Function Vidth Y Function Function Vidth Function Vidth Function Vidth Y Function Function Vidth Function Vidth Function Vidth	Setings
6 4 り べ 回 ? Dec 03.2024 801.55 PM	Log Lin Signal Track Soan Zoomi	


PART 3: CONDUCTED SPURIOUS EMISSION

TEST RESULTS TABLE

Test Mode	Test Channel	Result	Verdict
	LCH	Refer to the Test Graph	PASS
BLE 1M	MCH	Refer to the Test Graph	PASS
	HCH	Refer to the Test Graph	PASS
	LCH	Refer to the Test Graph	PASS
BLE 2M	MCH	Refer to the Test Graph	PASS
	НСН	Refer to the Test Graph	PASS

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TEST GRAPHS

Test Mode	Channel	Verdict
BLE 1M	LCH	PASS







Test Mode	Channel	Verdict
BLE 1M	MCH	PASS

Auto Man

Freq Offset 0 Hz X Axis Scale

Log Lin

Signal Traci

1

X

Stop 1.0000 GHz Sweep 94.0 ms (30001 pts)

.:: 🔖

MCH SPURIOUS EMISSION 30MHz~1GHz + Ö Frequency input Z 50 Ω Corrections: Off Freq Ref: Int (S) PNO Fast Gate Off IF Gain Low Sig Track Off #Avg Type: Pow Avg|Hold 30/30 Trig: Free Run KEYSIGHT Input RF #Atten: 20 dB Preamp: Off nter Frequency ettings -Align: Auto 515.000000 MHz PPPPPP Mkr1 923.56 MH Spectrum Ref Lvi Offset 8.23 dB Ref Level 15.00 dBm 970.000000 MHz -63.03 dB ale/Div 10 dB Swept Span Zero Span Full Span Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz AUTO TUNE CF Step 97.000000 MHz

#Video BW 300 kHz

? Dec 03, 2024 7:55:55 PM

Start 0.0300 GHz Res BW 100 kHz

50



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Test Mode	Channel	Verdict
BLE 1M	HCH	PASS

AUTO TUNE CF Step 97.000000 MHz Auto Man Freq Offset 0 Hz X Axis Scale

Log Lin

Signal Traci

**

Stop 1.0000 GHz Sweep 94.0 ms (30001 pts)

HCH SPURIOUS EMISSION_30MHz~1GHz + Ö Frequency input Z 50 Ω Corrections: Off Freq Ref: Int (S) PNO Fast Gate Off IF Gain Low Sig Track Off #Avg Type: Pow Avg|Hold 30/30 Trig: Free Run KEYSIGHT Input RF #Atten: 20 dB Preamp: Off nter Frequency ettings -Align: Auto MWWWWW PPPPP 515.000000 MHz Mkr1 791.42 MH -62.55 dB Spectrum Ref Lvi Offset 8.23 dB Ref Level 15.00 dBm 970.000000 MHz ale/Div 10 dB Swept Span Zero Span Full Span Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz

#Video BW 300 kHz

2 Dec 03, 2024 7:59:01 PM

rt 0.0300 GHz

Res BW 100 kHz

50





Test Mode	Channel	Verdict
BLE 2M	LCH	PASS

LCH SPURIOUS EN	/ISSION_3	30MHz~1GHz			
	Spectrum Analyzer 1 Swept SA	+		🗱 Frequency 🔹 👯	
	KEYSIGHT Input RF RL + Coupling DC Align: Auto	Input Z: 50 Ω #Atten: 20 dB PNO, Fast Corrections: Off Preamp: Off Gate: Off Freq Ref. Int (S) IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS 12 3 4 5 6 AvgHold 30/30 Trig: Free Run P P P P P P	Center Frequency 515.000000 MHz	
	1 Spectrum Scale/Div 10 dB Log	Ref LvI Offset 8.15 dB Ref Level 15.00 dBm	Mkr1 876.58 MHz -62.87 dBm	970.000000 MHz Swept Span Zero Span	
	5.00			Full Span	
	-5.00			Start Freq 30.000000 MHz	
	.25.0		DL1-2173 dBm	Stop Freq 1.000000000 GHz	
	.35.0			AUTO TUNE	
	-45.0			CF Step 97.000000 MHz	
	-55.0	at dan ang ang ang ang ang ang ang ang ang a	1	Auto Man	
	.75.0	a na sana ang paggang na sana ang sana na sana ang sana ang sana sana	e in here of a point in a science in the Birth I will be be positive of a	Freq Offset 0 Hz	
	Start 0.0300 GHz #Res BW 100 kHz	#Video BW 300 kHz	Stop 1.0000 GHz Sweep 94.0 ms (30001 pts)	X Axis Scale Log Lin	
	170	2 Dec 03, 2024 8:55:21 PM		Signal Track (Span Zoom)	





Test Mode	Channel	Verdict
BLE 2M	MCH	PASS

		INICH			PASS
MCH SPURIOUS EMIS	SION_30MHz [,]	~1GHz			
Spectro Swept	m Analyzer 1 🔹 🕂			Frequency 🔹	
KEYS RL	HGHT Input RF Coupling PC Align: Auto Freq Ref. Int (S)	#Atten: 20 dB PNO, Fast #Av Preamp: Off Gate: Off Avg IF Gain Low Trig Sig Track: Off	9 Туре: Power (RMS 1 2 3 4 5 6) Hold 3030 : Free Run P P P P P P P	Center Frequency 515.000000 MHz	
1 Speci Scale/i Log	rum P Div 10 dB	Ref LvI Offset 8.23 dB Ref Level 15.00 dBm	Mkr1 899.99 MHz -62.76 dBm	Span 970.000000 MHz Swept Span Zero Span	
5.00 -				Full Span	
-5 00 -				Start Freq 30.000000 MHz	
.25.0 -			0L1 -21.61 dBm	Stop Freq 1.000000000 GHz	
-35 0				AUTO TUNE	
45.0				CF Step 97.000000 MHz	
-50 U -	s no se mante seconda a constante da la constante da constante da constante da constante da constante da const	an an Ministrative community does not still a set	1 water of the second state of the second state	Auto Man	
-75.0	particular and the second state of the second state of the second state of the second state of the second state	engelsent komme datar så præssek oktorer och av det sakatt prøvelsen	ne see lik seriely that a station of the	Freq Offset 0 Hz:	
Start 0 #Res E	.0300 GHz W 100 kHz	#Video BW 300 kHz	Stop 1.0000 GHz Sweep 94.0 ms (30001 pts)	X Axis Scale Log Lin	
T	う C ⁴ こ ? Dec 03, 2024 8:59:25 PM			Signal Track: (Span Zoom)	



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Test Mode	Channel	Verdict
BLE 2M	HCH	PASS

-

HCH SPURIOUS EMISSION_30MHz~1GHz

Swept SA	12		Marchener 198	•
RL Align: Auto	Input Z: 50 Ω #Atten: 20 dB PNO. Fast Corrections: Off Preamp: Off Gate: Off Freq Ref. Int (S) IF Gain. Low Sig Track. Off	#Avg Type: Power (RMS 12 3 4 5 A Avg Hold 30/30 Trig: Free Run P P P P P P	Center Frequency 515.000000 MHz Settings	
1 Spectrum Scale/Div 10 dB Log	Ref Lvi Offset 8.23 dB Ref Level 15.00 dBm	Mkr1 814.21 MHz -63.10 dBm	970.000000 MHz Swept Span Zero Span	
5.00			Full Span	
-5.00			Start Freq 30.000000 MHz	
-25.0		QL1-21.94 dBm	Stop Freq 1.000000000 GHz	
-35.0			AUTO TUNE	
-45.0			CF Step 97.000000 MHz	
-55.0		1	Auto Man	
-75.0	a y a dalahin dané mang manjuka kara dalah dapatéh jerdana ang pakanangkakan dala	na pana pulanan jara-pulaina Adia (1964) adi alimi ayan ny	Freq Offset 0 Hz	
Start 0.0300 GHz #Res BW 100 kHz	#Video BW 300 kHz	Stop 1.0000 GHz Sweep 94.0 ms (30001 pts)	X Axis Scale Log Lin	
17C1	Pec 03, 2024 8:07:48 PM	.:: 🕅 — 🕅	Signal Track (Span Zoom)	





8. RADIATED TEST RESULTS

8.1. LIMITS AND PROCEDURE

<u>LIMITS</u>

Please refer to FCC KDB 558074

Radiation Disturbance Test Limit for FCC (Class B) (9kHz-1GHz)

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

Note: 1) At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

(2) At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). This paragraph (f) shall not apply to Access BPL devices operating below 30 MHz.

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Radiation Disturbance Test Limit for FCC (Above 1G)

	dB(uV/m) (at 3 meters)		
	Peak	Average	
Above 1000	74	54	

Restricted bands of operation

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. ²Above 38.6c





TEST SETUP AND PROCEDURE

Below 30MHz



The setting of the spectrum analyser

RBW	200 Hz (From 9kHz to 0.15MHz) / 9kHz (From 0.15MHz to 30MHz)
VBW	200 Hz (From 9kHz to 0.15MHz) / 9kHz (From 0.15MHz to 30MHz)
Sweep	Auto
Detector	Peak/QP/Average
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013

2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 0.8 meter above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1m height antenna tower.

5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector

6. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

7. For the actual test configuration, please refer to the related item in this test report

(Photographs of the Test Configuration)

8. The limits in FCC 47 CFR, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377 Ω . For example, the measurement frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.



Below 1G



The setting of the spectrum analyser

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 12 mm above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

6. For the actual test configuration, please refer to the related item in this test report (Photographs of the Test Configuration)



Above 1G



The setting of the spectrum analyser

RBW	1 MHz
VBW	PEAK:3 MHz AVG: See note6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 12mm above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement above 1GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.

6. 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 1 MHz resolution bandwidth with video bandwidth $\ge 1/T$ but not less than the setting list in section 7.1 when use peak detector, max hold to be run for at least [50*(1/Duty Cycle)] traces for average measurements. For the Duty Cycle need to refer the results in section 7.1.

7. For the actual test configuration, please refer to the related item in this test report (Photographs of the Test Configuration)

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X axis, Y axis, Z axis positions:



Note: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.



8.2. TEST ENVIRONMENT

Temperature	20℃	Relative Humidity	47%
Atmosphere Pressure	102kPa	Test Voltage	DC 3.0V

8.3. RESTRICTED BANDEDGE

TEST RESULT TABLE

Test Mode	Test Mode Channel		Verdict	
BLE 1M	LCH	<limit< td=""><td colspan="2">PASS</td></limit<>	PASS	
	НСН	<limit< td=""><td>PASS</td></limit<>	PASS	
BLE 2M	LCH	<limit< td=""><td>PASS</td></limit<>	PASS	
	НСН	<limit< td=""><td>PASS</td></limit<>	PASS	



TEST GRAPHS



PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2330.7351	39.06	13.45	52.51	74.00	21.49	Horizontal
2	2390.0000	36.88	13.48	50.36	74.00	23.64	Horizontal

- 2. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz (refer to clause 7.1.).
- 3. Measurement = Reading Level + Correct Factor.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.







No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2374.0905	39.19	13.57	52.76	74.00	21.24	Vertical
2	2390.0000	38.40	13.48	51.88	74.00	22.12	Vertical

- 2. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz (refer to clause 7.1.).
- 3. Measurement = Reading Level + Correct Factor.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.







No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	38.98	14.25	53.23	74.00	20.77	Horizontal
2	2589.7612	38.97	14.84	53.81	74.00	20.19	Horizontal

- 2. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz (refer to clause 7.1.).
- 3. Measurement = Reading Level + Correct Factor.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.







No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	37.65	14.25	51.90	74.00	22.10	Vertical
2	2580.2425	38.96	14.76	53.72	74.00	20.28	Vertical

- 2. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz (refer to clause 7.1.).
- 3. Measurement = Reading Level + Correct Factor.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.







No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2357.6447	38.99	13.47	52.46	74.00	21.54	Horizontal
2	2390.0000	37.10	13.48	50.58	74.00	23.42	Horizontal

- 2. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz (refer to clause 7.1.).
- 3. Measurement = Reading Level + Correct Factor.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.







2.315G

2.33G

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2371.3527	39.07	13.56	52.63	74.00	21.37	Vertical
2	2390.0000	37.54	13.48	51.02	74.00	22.98	Vertical

2.375G Frequency[Hz] 2.39G

2.405G

2.42G

2.435G

2.45G

Note: 1. Peak result: Peak detector, RBW: 1 MHz, VBW: 3 MHz.

2.345G

2.36G

- 2. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz (refer to clause 7.1.).
- 3. Measurement = Reading Level + Correct Factor.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.







No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	39.38	14.25	53.63	74.00	20.37	Horizontal
2	2579.0499	39.13	14.75	53.88	74.00	20.12	Horizontal

- 2. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz (refer to clause 7.1.).
- 3. Measurement = Reading Level + Correct Factor.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.







No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	39.67	14.25	53.92	74.00	20.08	Vertical
2	2486.0458	39.62	14.30	53.92	74.00	20.08	Vertical
3	2567.3484	39.19	14.63	53.82	74.00	20.18	Vertical

- 2. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz (refer to clause 7.1.).
- 3. Measurement = Reading Level + Correct Factor.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



8.4. SPURIOUS EMISSIONS

TEST RESULTS TABLE

1) For 1GHz~18GHz

Test Mode	Channel	Puw(dBm)	Verdict
	LCH	<limit< td=""><td>PASS</td></limit<>	PASS
BLE 1M	MCH	<limit< td=""><td>PASS</td></limit<>	PASS
	НСН	<limit< td=""><td>PASS</td></limit<>	PASS
BLE 2M	LCH	<limit< td=""><td>PASS</td></limit<>	PASS
	MCH	<limit< td=""><td>PASS</td></limit<>	PASS
	НСН	<limit< td=""><td>PASS</td></limit<>	PASS

Note:

Through pre-testing all the test modes and test channels, but only the data of the worst case is included in this test report.

2) For 9kHz~30MHz

Test Mode	Channel	Puw(dBm)	Verdict
BLE	MCH	<limit< td=""><td>PASS</td></limit<>	PASS

Note:

Through pre-testing all the test modes and test channels, but only the data of the worst case is included in this test report.

3) For 30MHz~1GHz

Test Mode	Channel	Puw(dBm)	Verdict
BLE	MCH	<limit< td=""><td>PASS</td></limit<>	PASS

Note:

Through pre-testing all the test modes and test channels, but only the data of the worst case is included in this test report.

4) For 18GHz~26.5GHz

Test Mode	Channel	Puw(dBm)	Verdict
BLE	MCH	<limit< td=""><td>PASS</td></limit<>	PASS

Note:

Through pre-testing all the test modes and test channels, but only the data of the worst case is included in this test report.



Part 1: 1GHz~6.5GHz



HARMONICS AND SPURIOUS EMISSIONS

PK Res	sult:						
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	1184.9606	40.67	-1.97	38.70	74.00	35.30	Horizontal
2	1255.0944	44.95	-1.57	43.38	74.00	30.62	Horizontal
3	4804.4131	39.67	15.46	55.13	74.00	18.87	Horizontal
4	5456.2445	35.90	17.32	53.22	74.00	20.78	Horizontal
5	5918.3023	35.11	18.61	53.72	74.00	20.28	Horizontal
6	6103.2629	34.99	18.24	53.23	74.00	20.77	Horizontal

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	4804.4131	31.29	15.46	46.75	54.00	7.25	Horizontal

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. For below 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Test Mode	Test Mode Channel		Verdict	
BLE 1M	LCH	Vertical	PASS	



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	1185.6482	43.72	-2.00	41.72	74.00	32.28	Vertical
2	1255.0944	48.15	-1.57	46.58	74.00	27.42	Vertical
3	1394.6743	42.18	-1.35	40.83	74.00	33.17	Vertical
4	4804.4131	38.68	15.46	54.14	74.00	19.86	Vertical
5	5679.71	36.02	17.44	53.46	74.00	20.54	Vertical
6	5862.6078	35.94	17.83	53.77	74.00	20.23	Vertical

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	4804.4131	32.14	15.46	47.60	54.00	6.40	Vertical

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. For below 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.







No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	1185.6482	40.61	-2.00	38.61	74.00	35.39	Horizontal
2	1255.0944	46.36	-1.57	44.79	74.00	29.21	Horizontal
3	3923.6155	37.49	12.42	49.91	74.00	24.09	Horizontal
4	4879.3599	39.35	15.19	54.54	74.00	19.46	Horizontal
5	5877.7347	35.73	17.72	53.45	74.00	20.55	Horizontal
6	6132.8291	35.13	18.27	53.40	74.00	20.60	Horizontal

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	4879.3599	31.29	15.19	46.48	54.00	7.52	Horizontal

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. For below 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.





Test Mode	Channel	Polarization	Verdict
BLE 1M	MCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	1185.6482	42.90	-2.00	40.90	74.00	33.10	Vertical
2	1255.0944	47.70	-1.57	46.13	74.00	27.87	Vertical
3	1394.6743	42.45	-1.35	41.10	74.00	32.90	Vertical
4	4880.7351	38.41	15.19	53.60	74.00	20.40	Vertical
5	5680.3976	36.23	17.45	53.68	74.00	20.32	Vertical
6	5832.354	35.16	18.54	53.70	74.00	20.30	Vertical

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. For below 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Test Mode	Channel	Polarization	Verdict
BLE 1M	НСН	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	1255.0944	43.92	-1.57	42.35	74.00	31.65	Horizontal
2	1394.6743	40.62	-1.35	39.27	74.00	34.73	Horizontal
3	1667.646	39.20	1.31	40.51	74.00	33.49	Horizontal
4	4960.4951	39.14	15.50	54.64	74.00	19.36	Horizontal
5	5918.3023	35.35	18.61	53.96	74.00	20.04	Horizontal
6	6103.2629	35.76	18.24	54.00	74.00	20.00	Horizontal

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	4960.4951	32.57	15.50	48.07	54.00	5.93	Horizontal

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. For below 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.







No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	1185.6482	43.16	-2.00	41.16	74.00	32.84	Vertical
2	1255.782	46.42	-1.57	44.85	74.00	29.15	Vertical
3	1394.6743	42.63	-1.35	41.28	74.00	32.72	Vertical
4	4960.4951	36.86	15.50	52.36	74.00	21.64	Vertical
5	5921.7402	34.71	18.73	53.44	74.00	20.56	Vertical
6	6121.1401	35.70	18.26	53.96	74.00	20.04	Vertical

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. For below 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Test Mode	Channel	Polarization	Verdict
BLE 2M	LCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	1185.6482	39.95	-2.00	37.95	74.00	36.05	Horizontal
2	1255.0944	45.13	-1.57	43.56	74.00	30.44	Horizontal
3	3704.9631	37.57	12.00	49.57	74.00	24.43	Horizontal
4	4805.1006	39.18	15.44	54.62	74.00	19.38	Horizontal
5	5748.4686	35.77	17.69	53.46	74.00	20.54	Horizontal
6	6022.8154	35.79	17.95	53.74	74.00	20.26	Horizontal

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	4805.1006	31.44	15.44	46.88	54.00	7.12	Horizontal

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. For below 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Test Mode	Channel	Polarization	Verdict
BLE 2M	LCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	1185.6482	44.20	-2.00	42.20	74.00	31.80	Vertical
2	1255.0944	46.83	-1.57	45.26	74.00	28.74	Vertical
3	1394.6743	42.32	-1.35	40.97	74.00	33.03	Vertical
4	4805.1006	39.76	15.44	55.20	74.00	18.80	Vertical
5	5731.9665	35.99	17.42	53.41	74.00	20.59	Vertical
6	6042.7553	35.47	17.95	53.42	74.00	20.58	Vertical

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	4805.1006	32.20	15.44	47.64	54.00	6.36	Vertical

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. For below 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Test Mode	Test Mode Channel		Verdict		
BLE 2M	MCH	Horizontal	PASS		



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	1255.0944	44.33	-1.57	42.76	74.00	31.24	Horizontal
2	1669.7087	39.27	1.39	40.66	74.00	33.34	Horizontal
3	4368.4836	37.90	13.65	51.55	74.00	22.45	Horizontal
4	4880.7351	38.95	15.19	54.14	74.00	19.86	Horizontal
5	5993.9367	35.53	18.29	53.82	74.00	20.18	Horizontal
6	6181.6477	34.86	18.90	53.76	74.00	20.24	Horizontal

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	4880.7351	32.47	15.19	47.66	54.00	6.34	Horizontal

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. For below 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.







No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	1185.6482	42.85	-2.00	40.85	74.00	33.15	Vertical
2	1255.0944	46.76	-1.57	45.19	74.00	28.81	Vertical
3	4879.3599	38.80	15.19	53.99	74.00	20.01	Vertical
4	5622.6403	35.89	17.47	53.36	74.00	20.64	Vertical
5	5959.5574	35.21	18.56	53.77	74.00	20.23	Vertical
6	6297.8497	35.02	18.75	53.77	74.00	20.23	Vertical

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. For below 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.







No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	1115.5144	39.89	-1.99	37.90	74.00	36.10	Horizontal
2	1255.0944	45.07	-1.57	43.50	74.00	30.50	Horizontal
3	2569.7587	38.69	5.65	44.34	74.00	29.66	Horizontal
4	4960.4951	38.34	15.50	53.84	74.00	20.16	Horizontal
5	5995.9995	35.26	18.27	53.53	74.00	20.47	Horizontal
6	6266.2208	34.61	18.66	53.27	74.00	20.73	Horizontal

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. For below 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.







No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	1185.6482	42.59	-2.00	40.59	74.00	33.41	Vertical
2	1255.0944	47.99	-1.57	46.42	74.00	27.58	Vertical
3	1394.6743	41.87	-1.35	40.52	74.00	33.48	Vertical
4	4960.4951	37.87	15.50	53.37	74.00	20.63	Vertical
5	5818.6023	34.94	18.58	53.52	74.00	20.48	Vertical
6	6185.7732	34.96	18.82	53.78	74.00	20.22	Vertical

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. For below 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Part 2: 6.5GHz~18GHz



HARMONICS AND SPURIOUS EMISSIONS

PK Res	sult:						
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	7204.4631	47.45	3.74	51.19	74.00	22.81	Horizontal
2	8547.2559	41.98	6.40	48.38	74.00	25.62	Horizontal
3	14637.2672	39.01	12.74	51.75	74.00	22.25	Horizontal
4	16089.3237	38.56	14.69	53.25	74.00	20.75	Horizontal
5	16743.4679	37.71	16.07	53.78	74.00	20.22	Horizontal
6	17617.5772	37.56	18.07	55.63	74.00	18.37	Horizontal
7	17935.3044	37.16	19.42	56.58	74.00	17.42	Horizontal

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	17617.5772	27.04	18.07	45.11	54.00	8.89	Horizontal
2	17935.3044	26.50	19.42	45.92	54.00	8.08	Horizontal

- 2. If peak result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak result: Peak detector, RBW: 1 MHz, VBW: 3 MHz.
- 4. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
- 5. For above 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.


Test Mode	Channel	Polarization	Verdict	
BLE 1M	LCH	Vertical	PASS	



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	7205.9007	46.82	3.72	50.54	74.00	23.46	Vertical
2	7845.6682	42.99	5.40	48.39	74.00	25.61	Vertical
3	8593.2617	42.98	6.06	49.04	74.00	24.96	Vertical
4	14758.0323	38.32	12.94	51.26	74.00	22.74	Vertical
5	17107.2009	37.35	16.38	53.73	74.00	20.27	Vertical
6	17712.4641	36.62	18.38	55.00	74.00	19.00	Vertical
7	17995.687	35.90	19.77	55.67	74.00	18.33	Vertical

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	17712.4641	26.69	18.38	45.07	54.00	8.93	Vertical
2	17995.687	25.98	19.77	45.75	54.00	8.25	Vertical

- 2. If peak result complies with AV limit, AV Result is deemed to comply with AV limit. 3. Peak result: Peak detector, RBW: 1 MHz, VBW: 3 MHz.
- 4. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
- 5. For above 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Test Mode	Channel	Polarization	Verdict	
BLE 1M	MCH	Horizontal	PASS	



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	7319.4774	50.45	3.81	54.26	74.00	19.74	Horizontal
2	8652.2065	42.28	6.17	48.45	74.00	25.55	Horizontal
3	14424.4906	38.69	12.89	51.58	74.00	22.42	Horizontal
4	16004.5006	38.08	14.52	52.60	74.00	21.40	Horizontal
5	16736.2795	37.84	16.00	53.84	74.00	20.16	Horizontal
6	17682.2728	37.35	18.12	55.47	74.00	18.53	Horizontal
7	17962.6203	35.85	19.63	55.48	74.00	18.52	Horizontal

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	7319.4774	43.71	3.81	47.52	54.00	6.48	Horizontal
2	17682.2728	27.03	18.12	45.15	54.00	8.85	Horizontal
3	17962.6203	27.22	19.63	46.85	54.00	7.15	Horizontal

Note: 1. Measurement = Reading Level + Correct Factor.

- 2. If peak result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak result: Peak detector, RBW: 1 MHz, VBW: 3 MHz.
- 4. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
- 5. For above 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Test Mode	Channel	Polarization	Verdict	
BLE 1M	MCH	Vertical	PASS	



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	7318.0398	46.85	3.81	50.66	74.00	23.34	Vertical
2	10085.5732	42.24	6.61	48.85	74.00	25.15	Vertical
3	15072.8841	39.26	13.11	52.37	74.00	21.63	Vertical
4	16819.665	37.49	16.06	53.55	74.00	20.45	Vertical
5	17607.5134	36.84	18.06	54.90	74.00	19.10	Vertical
6	17844.7306	37.69	19.10	56.79	74.00	17.21	Vertical
7	17997.1246	36.04	19.76	55.80	74.00	18.20	Vertical

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	17607.5134	27.32	18.06	45.38	54.00	8.62	Vertical
2	17844.7306	26.11	19.10	45.21	54.00	8.79	Vertical
3	17997.1246	26.70	19.76	46.46	54.00	7.54	Vertical

Note: 1. Measurement = Reading Level + Correct Factor.

- 2. If peak result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak result: Peak detector, RBW: 1 MHz, VBW: 3 MHz.
- 4. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
- 5. For above 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Test Mode	Channel	Polarization	Verdict	
BLE 1M	НСН	Horizontal	PASS	



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	7438.8049	51.24	4.21	55.45	74.00	18.55	Horizontal
2	10204.9006	41.91	6.64	48.55	74.00	25.45	Horizontal
3	15843.4804	37.88	14.64	52.52	74.00	21.48	Horizontal
4	16444.4306	37.81	15.43	53.24	74.00	20.76	Horizontal
5	17590.2613	36.92	18.04	54.96	74.00	19.04	Horizontal
6	17838.9799	36.13	19.09	55.22	74.00	18.78	Horizontal
7	17979.8725	35.35	19.81	55.16	74.00	18.84	Horizontal

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	7438.8049	43.81	4.21	48.02	54.00	5.98	Horizontal
2	17590.2613	26.79	18.04	44.83	54.00	9.17	Horizontal
3	17838.9799	25.70	19.09	44.79	54.00	9.21	Horizontal
4	17979.8725	27.06	19.81	46.87	54.00	7.13	Horizontal

- 2. If peak result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak result: Peak detector, RBW: 1 MHz, VBW: 3 MHz.
- 4. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
- 5. For above 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Test Mode	Channel	Polarization	Verdict	
BLE 1M	HCH	Vertical	PASS	



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	7438.8049	49.22	4.21	53.43	74.00	20.57	Vertical
2	8547.2559	43.00	6.40	49.40	74.00	24.60	Vertical
3	14010.4388	39.57	11.81	51.38	74.00	22.62	Vertical
4	16897.2997	37.54	16.04	53.58	74.00	20.42	Vertical
5	17670.7713	36.51	18.07	54.58	74.00	19.42	Vertical
6	17836.1045	37.02	19.10	56.12	74.00	17.88	Vertical
7	18000	36.70	19.74	56.44	74.00	17.56	Vertical

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	17670.7713	26.84	18.07	44.91	54.00	9.09	Vertical
2	17836.1045	27.05	19.10	46.15	54.00	7.85	Vertical
3	18000	27.61	19.74	47.35	54.00	6.65	Vertical

Note: 1. Measurement = Reading Level + Correct Factor.

- 2. If peak result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak result: Peak detector, RBW: 1 MHz, VBW: 3 MHz.
- 4. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
- 5. For above 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Test Mode	Test Mode Channel		Verdict	
BLE 2M	LCH	Horizontal	PASS	



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	7204.4631	46.57	3.74	50.31	74.00	23.69	Horizontal
2	8458.1198	42.91	5.85	48.76	74.00	25.24	Horizontal
3	9356.6696	42.23	6.44	48.67	74.00	25.33	Horizontal
4	13567.6335	39.77	10.71	50.48	74.00	23.52	Horizontal
5	16233.0916	37.64	15.26	52.90	74.00	21.10	Horizontal
6	17725.4032	36.56	18.51	55.07	74.00	18.93	Horizontal
7	17969.8087	36.52	19.63	56.15	74.00	17.85	Horizontal

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	17725.4032	26.40	18.51	44.91	54.00	9.09	Horizontal
2	17969.8087	26.17	19.63	45.80	54.00	8.20	Horizontal

- 2. If peak result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak result: Peak detector, RBW: 1 MHz, VBW: 3 MHz.
- 4. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
- 5. For above 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Test Mode	Test Mode Channel		Verdict	
BLE 2M	LCH	Vertical	PASS	



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	7207.3384	45.58	3.71	49.29	74.00	24.71	Vertical
2	8075.697	42.99	5.58	48.57	74.00	25.43	Vertical
3	9368.171	42.37	6.49	48.86	74.00	25.14	Vertical
4	16122.3903	37.88	14.84	52.72	74.00	21.28	Vertical
5	17712.4641	36.83	18.38	55.21	74.00	18.79	Vertical
6	17849.0436	35.88	19.14	55.02	74.00	18.98	Vertical
7	17995.687	36.19	19.77	55.96	74.00	18.04	Vertical

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	17712.4641	26.53	18.38	44.91	54.00	9.09	Vertical
2	17849.0436	26.15	19.14	45.29	54.00	8.71	Vertical
3	17995.687	26.17	19.77	45.94	54.00	8.06	Vertical

Note: 1. Measurement = Reading Level + Correct Factor.

- 2. If peak result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak result: Peak detector, RBW: 1 MHz, VBW: 3 MHz.
- 4. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
- 5. For above 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Test Mode	Channel	Polarization	Verdict	
BLE 2M	MCH	Horizontal	PASS	



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	7318.0398	49.93	3.81	53.74	74.00	20.26	Horizontal
2	8311.4764	42.21	6.27	48.48	74.00	25.52	Horizontal
3	15482.6228	38.52	13.96	52.48	74.00	21.52	Horizontal
4	15876.5471	38.52	14.71	53.23	74.00	20.77	Horizontal
5	16572.384	37.69	15.88	53.57	74.00	20.43	Horizontal
6	17709.5887	36.66	18.36	55.02	74.00	18.98	Horizontal
7	17939.6175	36.12	19.45	55.57	74.00	18.43	Horizontal

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	17709.5887	26.78	18.36	45.14	54.00	8.86	Horizontal
2	17939.6175	26.55	19.45	46.00	54.00	8.00	Horizontal

- 2. If peak result complies with AV limit, AV Result is deemed to comply with AV limit. 3. Peak result: Peak detector, RBW: 1 MHz, VBW: 3 MHz.
- 4. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
- 5. For above 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Test Mode	Channel	Polarization	Verdict
BLE 2M	MCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	7318.0398	46.54	3.81	50.35	74.00	23.65	Vertical
2	8253.9692	42.14	6.23	48.37	74.00	25.63	Vertical
3	16460.245	37.30	15.84	53.14	74.00	20.86	Vertical
4	17226.5283	36.98	16.71	53.69	74.00	20.31	Vertical
5	17551.4439	37.40	17.74	55.14	74.00	18.86	Vertical
6	17700.9626	36.68	18.28	54.96	74.00	19.04	Vertical
7	17923.803	36.28	19.36	55.64	74.00	18.36	Vertical

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	17551.4439	26.90	17.74	44.64	54.00	9.36	Vertical
2	17700.9626	26.73	18.28	45.01	54.00	8.99	Vertical
3	17923.803	26.71	19.36	46.07	54.00	7.93	Vertical

Note: 1. Measurement = Reading Level + Correct Factor.

- 2. If peak result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak result: Peak detector, RBW: 1 MHz, VBW: 3 MHz.
- 4. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
- 5. For above 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Test Mode	Channel	Polarization	Verdict
BLE 2M	НСН	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	7440.2425	52.43	4.20	56.63	74.00	17.37	Horizontal
2	12844.4806	40.54	9.24	49.78	74.00	24.22	Horizontal
3	15849.2312	37.64	14.83	52.47	74.00	21.53	Horizontal
4	16969.1836	37.58	16.09	53.67	74.00	20.33	Horizontal
5	17568.6961	36.60	17.89	54.49	74.00	19.51	Horizontal
6	17712.4641	36.32	18.38	54.70	74.00	19.30	Horizontal
7	17991.3739	35.88	19.79	55.67	74.00	18.33	Horizontal

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	7440.2425	43.27	4.20	47.47	54.00	6.53	Horizontal
2	17568.6961	26.81	17.89	44.70	54.00	9.30	Horizontal
3	17712.4641	26.77	18.38	45.15	54.00	8.85	Horizontal
4	17991.3739	26.45	19.79	46.24	54.00	7.76	Horizontal

- 2. If peak result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak result: Peak detector, RBW: 1 MHz, VBW: 3 MHz.
- 4. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
- 5. For above 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Test Mode Channel		Polarization	Verdict	
BLE 2M	HCH	Vertical	PASS	



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	7440.2425	47.89	4.20	52.09	74.00	21.91	Vertical
2	9375.3594	42.36	6.48	48.84	74.00	25.16	Vertical
3	11196.8996	41.79	7.27	49.06	74.00	24.94	Vertical
4	16156.8946	38.71	14.90	53.61	74.00	20.39	Vertical
5	16660.0825	37.60	15.61	53.21	74.00	20.79	Vertical
6	17718.2148	36.16	18.46	54.62	74.00	19.38	Vertical
7	17987.0609	36.51	19.80	56.31	74.00	17.69	Vertical

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	17718.2148	27.21	18.46	45.67	54.00	8.33	Vertical
2	17987.0609	26.27	19.80	46.07	54.00	7.93	Vertical

- If peak result complies with AV limit, AV Result is deemed to comply with AV limit.
 Peak result: Peak detector, RBW: 1 MHz, VBW: 3 MHz.
- 4. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).
- 5. For above 6.5GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Part 3: 18GHz~26.5GHz



SPURIOUS EMISSIONS 18GHz TO 26.5GHz (WORST-CASE CONFIGURATION)

PK R	lesult:						
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	18687.7188	50.01	-6.30	43.71	74.00	30.29	Horizontal
2	19570.9571	49.15	-5.44	43.71	74.00	30.29	Horizontal
3	22366.0366	48.24	-5.01	43.23	74.00	30.77	Horizontal
4	24164.8165	49.19	-2.76	46.43	74.00	27.57	Horizontal
5	24815.9816	49.67	-3.35	46.32	74.00	27.68	Horizontal
6	25554.7055	49.00	-3.13	45.87	74.00	28.13	Horizontal

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

- 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 3. Measurement = Reading Level + Correct Factor.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Test Mode Channel		Polarization	Verdict	
BLE 1M	MCH	Vertical	PASS	



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	18807.5808	49.43	-6.19	43.24	74.00	30.76	Vertical
2	20046.1546	48.54	-5.09	43.45	74.00	30.55	Vertical
3	22791.0791	47.99	-3.96	44.03	74.00	29.97	Vertical
4	23998.1998	48.21	-2.61	45.60	74.00	28.40	Vertical
5	24821.0821	50.11	-3.36	46.75	74.00	27.25	Vertical
6	25157.7158	49.71	-3.45	46.26	74.00	27.74	Vertical

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit. 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

- 3. Measurement = Reading Level + Correct Factor.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Part 4: 30MHz~1GHz



SPURIOUS EMISSIONS 30M TO 1GHz (WORST-CASE CONFIGURATION)

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	63.2743	2.93	19.27	22.20	40.00	17.80	Peak
2	107.9958	8.57	16.86	25.43	43.50	18.07	Peak
3	126.0396	7.31	18.53	25.84	43.50	17.66	Peak
4	149.4189	7.36	20.48	27.84	43.50	15.66	Peak
5	187.9318	21.02	17.88	38.90	43.50	4.60	Peak
6	453.8354	5.01	25.13	30.14	46.00	15.86	Peak

Note: 1. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit. 2. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.







No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	61.4311	13.50	19.65	33.15	40.00	6.85	Peak
2	104.5034	7.30	16.34	23.64	43.50	19.86	Peak
3	181.4321	14.77	18.67	33.44	43.50	10.06	Peak
4	188.7079	16.11	17.81	33.92	43.50	9.58	Peak
5	279.1209	7.08	20.57	27.65	46.00	18.35	Peak
6	449.4699	6.71	25.03	31.74	46.00	14.26	Peak

Note: 1. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit. 2. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.



Part 5: 9kHz~30MHz



SPURIOUS EMISSIONS Below 30MHz (WORST CASE CONFIGURATION-FACE ON)

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	0.0205	18.67	-61.74	-43.07	41.38	84.45	Peak
2	0.0436	15.37	-61.60	-46.23	34.81	81.04	Peak
3	0.0492	15.31	-61.60	-46.29	33.77	80.06	Peak
4	0.065	12.16	-61.61	-49.45	31.35	80.80	Peak
5	0.1159	11.24	-61.72	-50.48	26.33	76.81	Peak
6	0.1274	12.51	-61.72	-49.21	25.51	74.72	Peak

- 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
- 3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.







No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	0.1783	26.76	-61.76	-35.00	22.58	57.58	Peak
2	0.2055	26.37	-61.77	-35.40	21.34	56.74	Peak
3	0.215	26.23	-61.78	-35.55	20.95	56.50	Peak
4	0.3215	25.72	-61.82	-36.10	17.46	53.56	Peak
5	0.3394	24.83	-61.83	-37.00	16.99	53.99	Peak
6	0.4324	22.83	-61.85	-39.02	14.61	53.63	Peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 - 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
 - 3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.



Test Mode	Channel	Frequency Range	Verdict
BLE 1M	MCH	490kHz~30MHz	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	0.6287	17.87	-21.89	-4.02	31.63	35.65	Peak
2	0.8087	14.07	-21.87	-7.80	29.45	37.25	Peak
3	0.9711	12.45	-21.87	-9.42	27.86	37.28	Peak
4	1.4374	9.79	-21.84	-12.05	24.45	36.50	Peak
5	3.8663	6.29	-21.76	-15.47	29.54	45.01	Peak
6	21.4678	5.64	-21.45	-15.81	29.54	45.35	Peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 - 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
 - 3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.



9. ANTENNA REQUIREMENTS

APPLICABLE REQUIREMENTS

Please refer to FCC §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. 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.

Please refer to FCC §15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

ANTENNA GAIN

The antenna gain of EUT is less than 6 dBi

END OF REPORT