

FCC/IC - TEST REPORT

Report Number	:	68.950.21.0336.01	Date of Is	sue:	2021-05-25
Model	<u>:</u>	B181			
FCC ID	<u>:</u>	2AZEQ-B181			
IC	<u>:</u>	27102-B181			
Product Type	<u>:</u>	Earphone			
Product name	<u>:</u>	ear(1)			
Applicant	<u>:</u>	NOTHING TECHNOLOGY	LIMITED		
Address	:	11 Staple Inn, London, W	01V 7QH, Un	ited Kir	ngdom
Manufacturer	:	NOTHING TECHNOLOGY	LIMITED		
Address	<u>:</u>	11 Staple Inn, London, Wo	C1V 7QH, Un	ited Kiı	ngdom
Test Result	:	■ Positive	ative		
Total pages including Appendices	:	34			

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2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch

Building 12&13, Zhiheng Wisdomland Business Park,

Nantou Checkpoint Road 2, Nanshan District,

Shenzhen City, 518052,

P. R. China

FCC Designation

CN5009

Number:

FCC Registration 51

514049

No.:

IC Registration

10320A

Number:

Telephone:

86 755 8828 6998

Fax:

86 755 8828 5299

Report Version:

Revision	Release Date	History/Memo.
N/A	2021-05-25	Initial Release



3 Description of the Equipment under Test

Product: ear(1)

Model no.: B181

FCC ID: 2AZEQ-B181

IC: 27102-B181

PMN: ear(1)

HVIN: B181L

Rating: 3.7V

RF Transmission

Frequency:

2402MHz-2480MHz

No. of Operated Channel: 40

Modulation: GFSK

Antenna Type: Internal antenna

Antenna Gain: -3dBi max for 2.4GHz

Description of the EUT: The Equipment Under Test (EUT) is Earphone with Bluetooth Low

Energy/Bluetooth BDR+EDR functions.



4 Summary of Test Standards

	Test Standards
FCC Part 15 Subpart C 10-1-2020 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators
RSS-Gen Issue 5, Amendment 2, February 2021	General Requirements and Information for the Certification of Radio Apparatus
RSS-247 Issue 2 February 2017	Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSS) and License-Exempt Local Area Network (LE-LAN) Devices

All the test methods were according to KDB558074 D01 v05r02 DTS Measurement Guidance and ANSI C63.10 (2013).



5 Summary of Test Results

	Technical	Requirements		
FCC Part 15 Subj	part C/ RSS-247 Issue 2/R	SS-Gen Issue 5		
Test Condition			Test Site	Test Result
§15.207	RSS-GEN 8.8	Conducted emission AC power port		N/A
§15.247 (b) (1)	RSS-247 Clause 5.4(d)	Conducted peak output power	Site 1	PASS
§15.247(a)(1)	RSS-247 Clause 5.1 (b)	20dB bandwidth		N/A
§15.247(a)(1)	RSS-247 Clause 5.1(b)	Carrier frequency separation		N/A
§15.247(a)(1)(iii)	RSS-247 Clause 5.1(d)	Number of hopping frequencies		N/A
§15.247(a)(1)(iii)	RSS-247 Clause 5.1(d)	Dwell Time		N/A
§15.247(a)(2)	RSS-247 Clause 5.2(a) & RSS-GEN 6.7	6dB bandwidth and 99% Occupied Bandwidth	Site 1	PASS
§15.247(e)	RSS-247 Clause 5.2(b)	Power spectral density	Site 1	PASS
§15.247(d)	RSS-247 Clause 5.5	Spurious RF conducted emissions	Site 1	PASS
§15.247(d)	RSS-247 Clause 5.5	Band edge	Site 1	PASS
§15.247(d) & §15.209 & §15.205	RSS-247 Clause 5.5 & RSS-GEN 6.13	Spurious radiated emissions for transmitter	Site 1	PASS
§15.203	RSS-GEN 6.8	Antenna requirement	See note 2	PASS

Remark:

Note 1: N/A=Not Applicable.

Note 2: The EUT uses a monopole antenna, which gain is -3dBi. In accordance to §15.203 and RSS-GEN 6.8, it is considered sufficiently to comply with the provisions of this section.



6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2AZEQ-B181, IC: 27102-B181, complies with Section 15.205, 15.209, 15.247 of the FCC Part 15, Subpart C and RSS-247 issue 2 and RSS-Gen issue 5 rules.

The Equipment Under Test (EUT) is Earphone with Bluetooth Low Energy/Bluetooth BDR+EDR functions.

This report is for the Bluetooth Low Energy part.

SUMMARY:

All tests according to the regulations cited on page 5 were

- - Performed
- ☐ Not Performed

The Equipment under Test

- - Fulfills the general approval requirements.
- □ **Does not** fulfill the general approval requirements.

Sample Received Date: 2021-04-30

Testing Start Date: 2021-04-30

Testing End Date: 2021-05-14

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch -

Reviewed by: Prepared by: Tested by:

John Zhi Joe Gu

Project Engineer Test Engineer

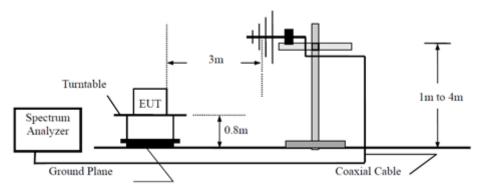
Project Manager



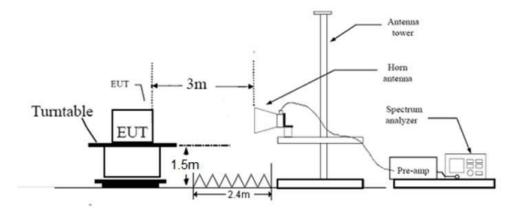
7 Test Setups

7.1 Radiated test setups

Below 1GHz



Above 1GHz



7.2 Conducted RF test setups





8 Systems test configuration

Auxiliary Equipment Used during Test:

Name	Model	Manufacturer	S/N	Cal Due Date
Notebook	X220	Lenovo		

The system was configured to channel 0, 19, and 39 for the test.



9 Technical Requirement

9.1 Conducted peak output power

Test Method

- The EUT was placed on 0.8m height table, the RF output of EUT was connected to the test receiver by RF cable. The path loss was compensated to the results for each measurement.
- 2. Use the following spectrum analyzer settings: RBW > the 6dB bandwidth of the emission being measured, VBW≥3RBW, Span≥3RBW Sweep = auto, Detector function = peak, Trace = max hold.
- 3. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power.

Limits:

Conducted peak output power:

Frequency Range	Limit	Limit
MHz	W	dBm
2400-2483.5	≤1	≤30

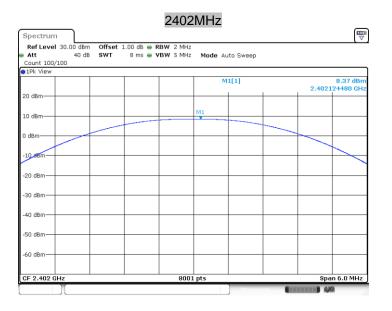
For e.i.r.p:

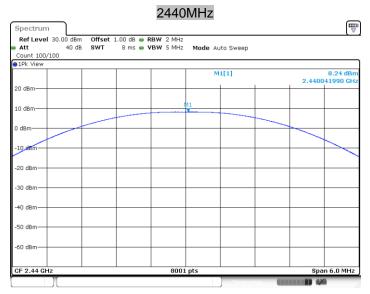
Frequency Range	Limit	Limit
MHz	W	dBm
2400-2483.5	≤4	≤36

Test result as below table

Frequency (MHz)	Conducted Peak Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Result
Low channel 2402MHz	8.37	-3	5.37	Pass
Middle channel 2440MHz	8.24	-3	5.24	Pass
High channel 2480MHz	8.04	-3	5.04	Pass











9.2 6dB bandwidth

Test Method

- 1. Connect EUT test port to spectrum analyzer.
- 2. Use the following spectrum analyzer settings: RBW=100K, VBW≥3RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 3. Use the automatic bandwidth measurement capability of an instrument, may be employed using the X dB bandwidth mode with X set to 6 dB, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.
- 4. Allow the trace to stabilize, record the X dB Bandwidth value.

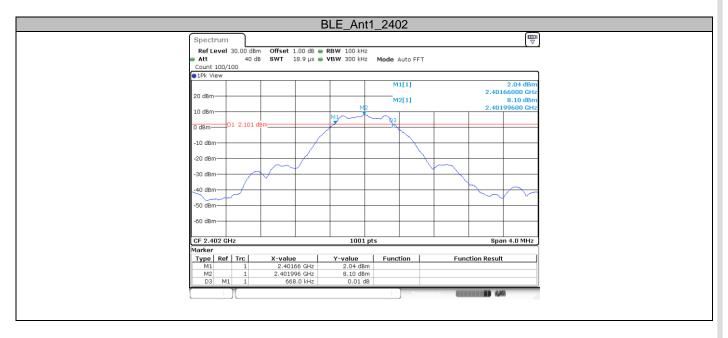
Limit

Limit [kHz]
≥500

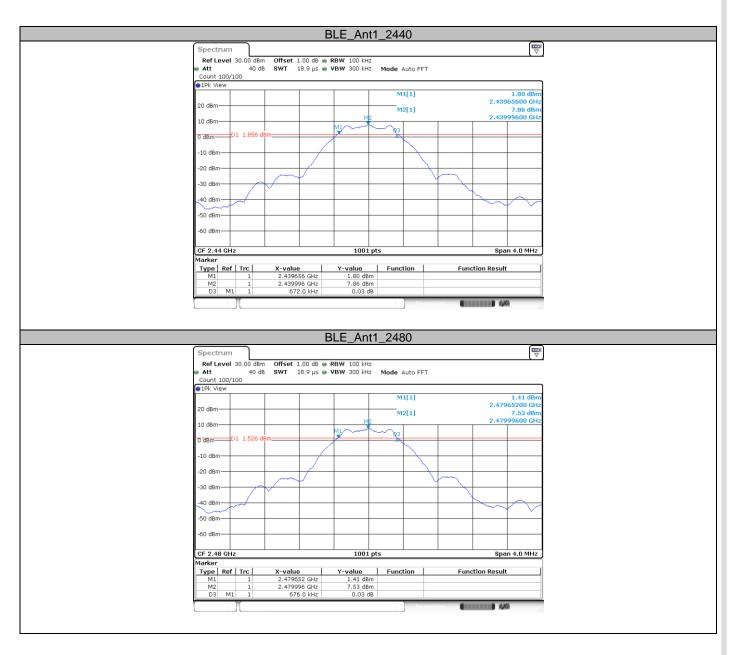
Test result

Channel (MHz)	Result (MHz)	Limit (kHz)	Verdict
2402	0.668	≥500	PASS
2440	0.672	≥500	PASS
2480	0.676	≥500	PASS

Test Graphs









9.3 99% bandwidth

Test Method

- 1. Connect EUT test port to spectrum analyzer.
- 2.Use the following spectrum analyzer settings:

RBW=1% to 5% of the actual occupied, VBW≥3RBW, Sweep = auto,

Detector function = peak, Trace = max hold

- 3. Use the automatic bandwidth measurement capability of an instrument, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be \geq 6 dB.
- 4. Allow the trace to stabilize, record the X dB Bandwidth value.

Limit

Limit [kHz]

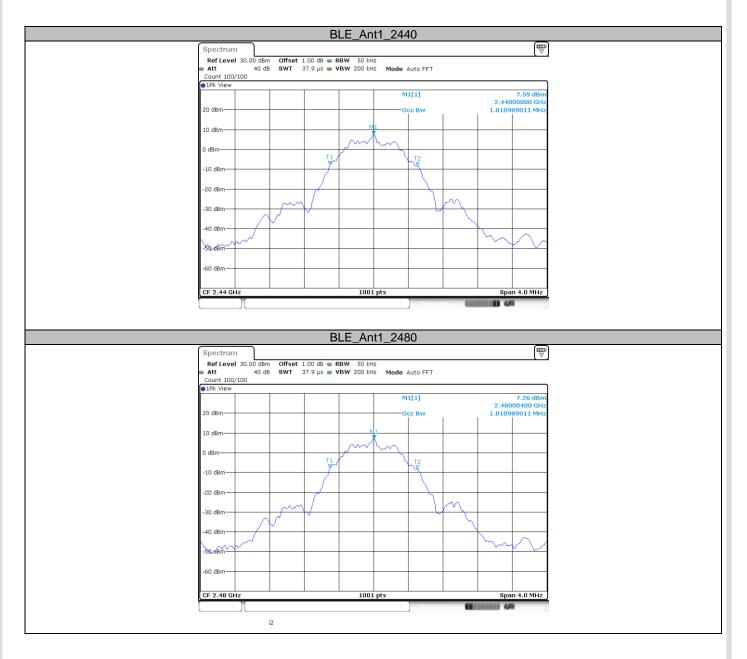
Test result

Channel (MHz)	Result (MHz)	Limit	Verdict
2402	1.011		PASS
2440	1.011		PASS
2480	1.011		PASS

Test Graphs









9.4 Power spectral density

Test Method

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance:

- 1. The RF output of EUT was connected to the test receiver by RF cable. The path loss was compensated to the results for each measurement.
- 2. Set analyzer center frequency to DTS channel center frequency. RBW=3kHz, VBW≥3RBW, Span=1.5 times DTS bandwidth, Detector=Peak, Sweep=auto, Trace= max hold.
- 3. Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
- 4. Repeat above procedures until other frequencies measured were completed.

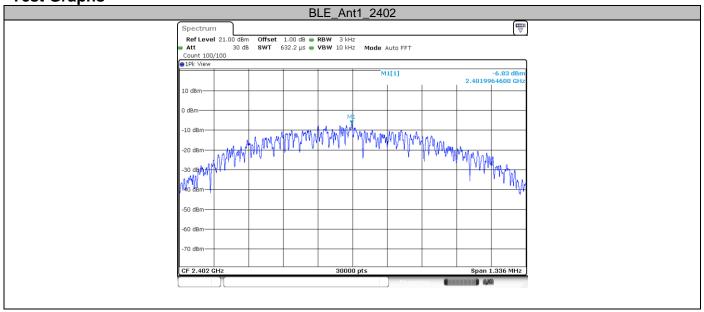
Limit

Limit [dBm/3KHz]	
≤8	

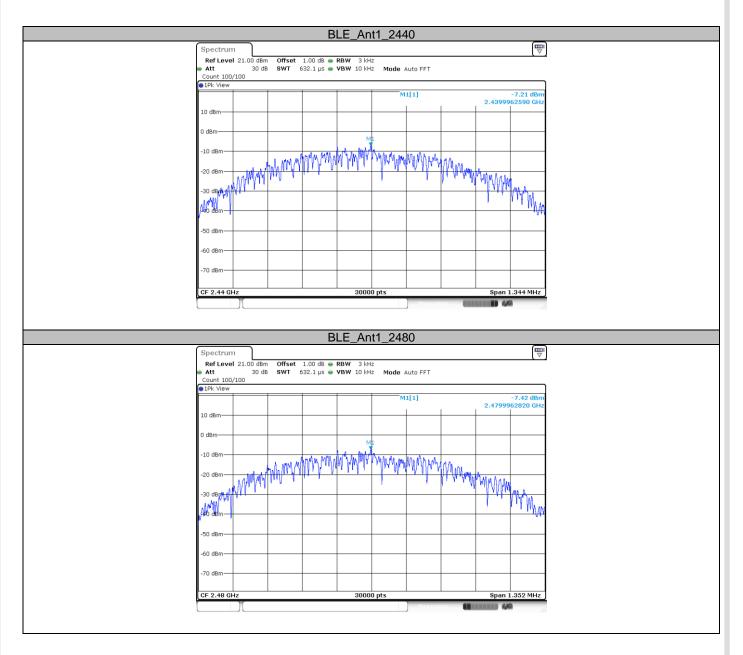
Test result

Channel (MHz)	Result (dBm/3KHz)	Limit(dBm/3KHz)	Verdict
2402	-6.83	8	PASS
2440	-7.21	8	PASS
2480	-7.42	8	PASS

Test Graphs









9.5 Spurious RF conducted emissions

Test Method

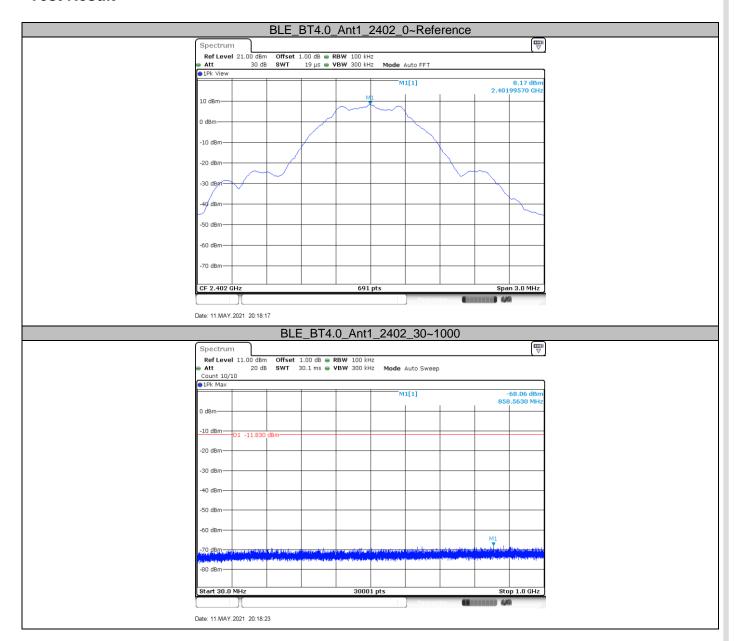
- 1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
- 2. Use the following spectrum analyzer settings: Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span. RBW = 100 kHz, VBW≥RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 3. Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded.
- 4. The level displayed must comply with the limit specified in this Section. Submit these plots.
- 5. Repeat above procedures until all frequencies measured were complete.

Limit

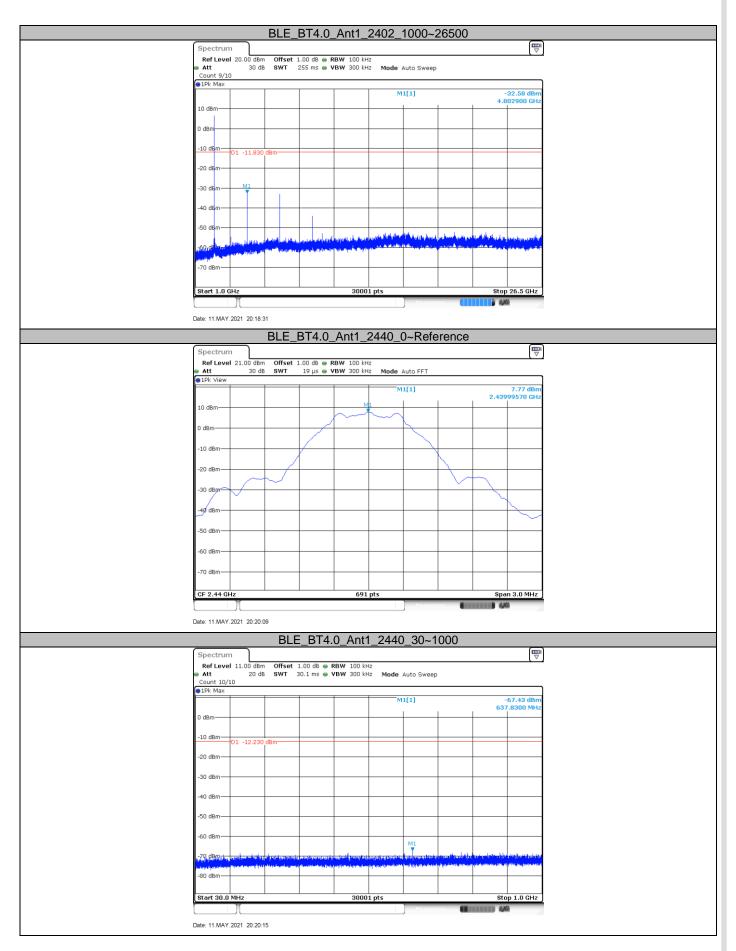
Frequency Range MHz	Limit (dBc)
30-25000	-20



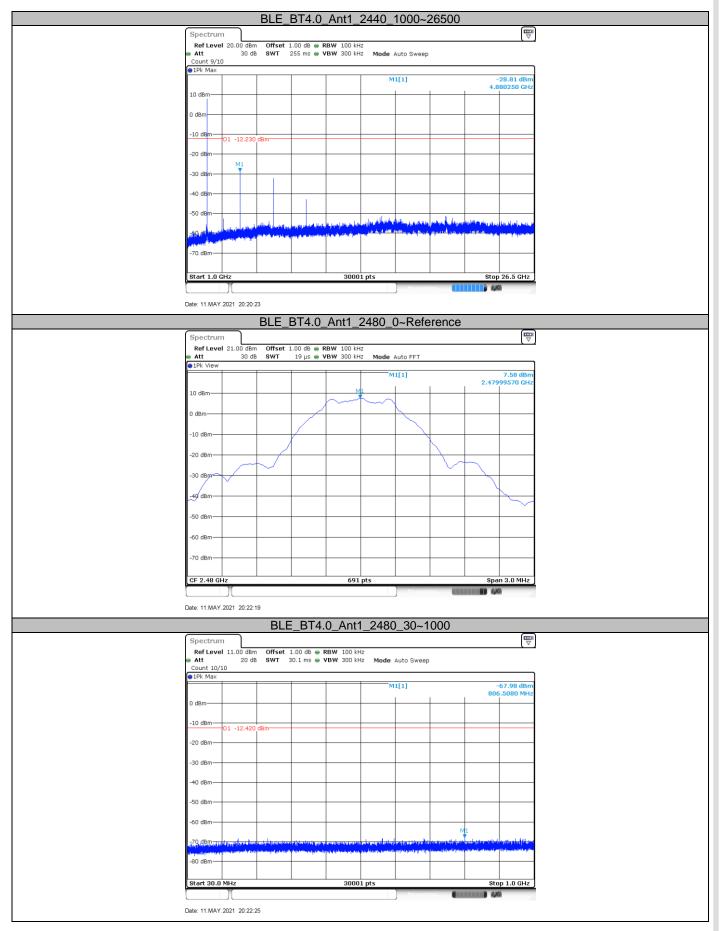
Test Result



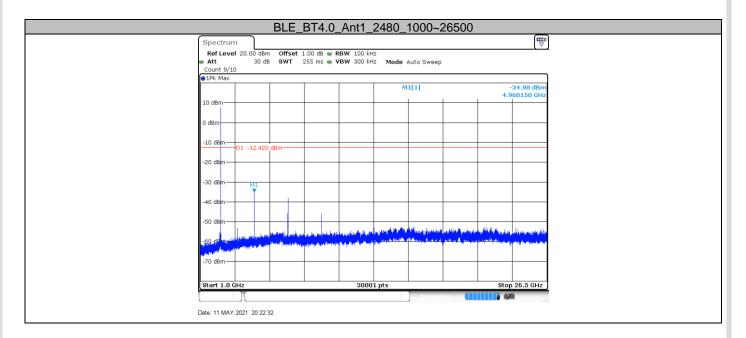














9.6 Band edge

Test Method

- 1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
- 2. Use the following spectrum analyzer settings:

 Span = wide enough to capture the peak level of the in-band emission and all spurious

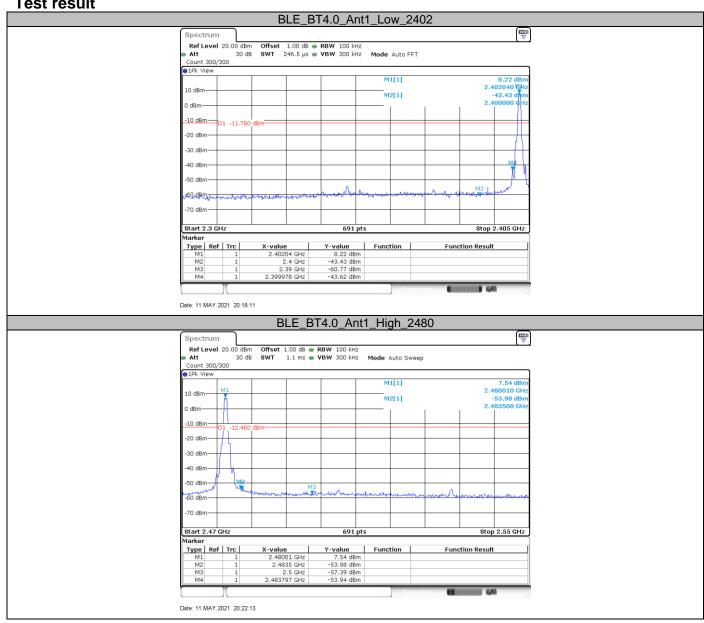
 RBW = 100 kHz, VBW≥RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 3. Allow the trace to stabilize, use the peak and delta measurement to record the result.
- 4. The level displayed must comply with the limit specified in this Section.
- 5. Repeat the test at the hopping off and hopping on mode, submit all the plots.

Limit:

Frequency Range MHz	Limit (dBc)
30-25000	-20



Test result





9.7 Spurious radiated emissions for transmitter

Test Method

- 1: The EUT was place on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2: The EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3: The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4: For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5: Use the following spectrum analyzer settings According to C63.10:

For Below 1GHz

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 100 KHz to 120KHz, VBW≥RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

For Peak unwanted emissions Above 1GHz:

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 1MHz, VBW≥RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

Procedures for average unwanted emissions measurements above 1000 MHz

- a) RBW = 1MHz.
- b) VBW \ $[3 \times RBW]$.
- c) Detector = RMS (power averaging), if [span / (# of points in sweep)] \ RBW / 2. Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.
- d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.)
- e) Sweep time = auto.
- f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)
- g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:
- 1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is [10 log (1 / D)], where D is the duty cycle. For example, if the transmit duty



cycle was 50%, then 3 dB shall be added to the measured emission levels.

- 2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is [20 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.
- 3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission (AV) at frequency above 1GHz.

Limit

The radio emission outside the operating frequency band 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. Radiated emissions which fall in the restricted bands, as defined in section15.205, RSS-GEN 8.10, must comply with the radiated emission limits specified in section 15.209, section RSS-247.

Frequency	Field Strength	Field Strength	Detector
MHz	μV/m	dBμV/m	
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK

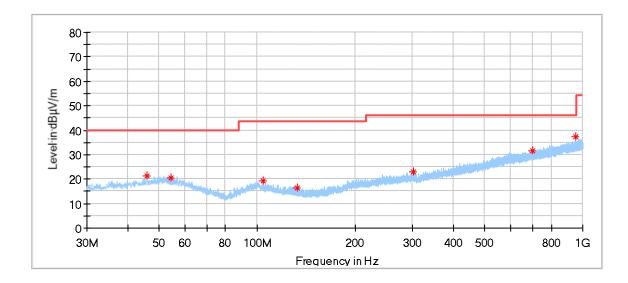


Spurious radiated emissions for transmitter

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

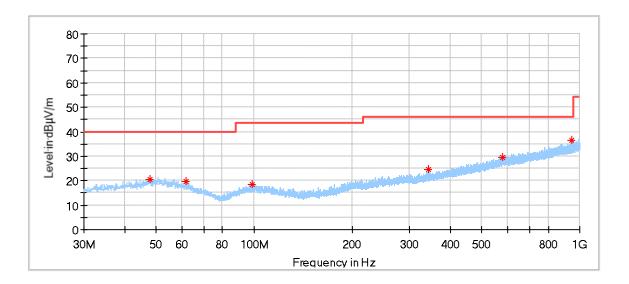
Transmitting spurious emission test result as below:

Below 1G:



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.897222	21.25	40.00	18.75	100.0	Н	18.0	14.55
54.411667	20.64	40.00	19.36	200.0	Н	216.0	14.64
104.097222	19.44	43.50	24.06	200.0	Н	263.0	12.33
132.820000	16.33	43.50	27.17	200.0	Н	193.0	9.69
301.546111	22.81	46.00	23.19	100.0	Н	291.0	14.98
704.042222	31.72	46.00	14.28	200.0	Н	294.0	22.91
948.536111	37.14	46.00	8.86	100.0	Н	359.0	26.14

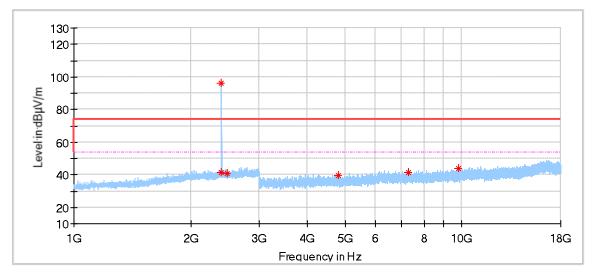




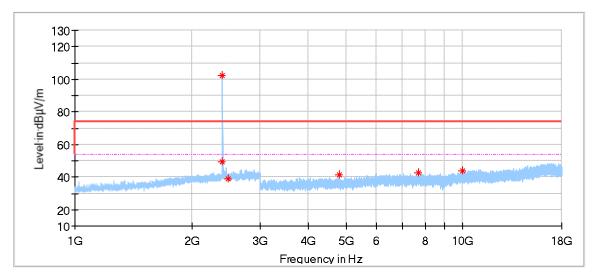
Frequency	MaxPeak	Limit	Margin	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(cm)		(deg)	(dB/m)
47.837222	20.58	40.00	19.42	100.0	٧	150.0	14.87
61.632778	19.52	40.00	20.48	100.0	V	340.0	13.46
98.870000	18.34	43.50	25.16	100.0	V	357.0	12.60
342.340000	24.59	46.00	21.41	200.0	٧	12.0	16.17
580.744444	29.53	46.00	16.47	100.0	٧	359.0	21.26
945.680000	36.34	46.00	9.66	100.0	٧	80.0	26.12



Low channel 2402MHz



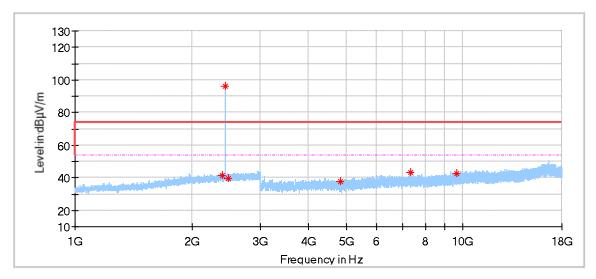
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2390.047619	41.39	74.00	32.61	150.0	Н	146.0	-2.99
2402.380952	96.21	74.00	-22.21	150.0	Н	232.0	-2.99
2483.809524	40.85	74.00	33.15	150.0	Н	226.0	-2.69
4816.000000	39.39	74.00	34.61	150.0	Н	302.0	2.16
7281.500000	41.48	74.00	32.52	150.0	Н	302.0	6.99
9789.500000	44.03	74.00	29.97	150.0	Н	0.0	9.64



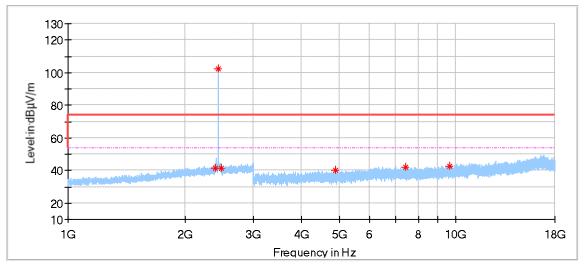
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2390.523810	49.59	74.00	24.41	150.0	٧	144.0	-2.99
2402.380952	102.22	74.00	-28.22	150.0	٧	149.0	-2.99
2483.333333	39.06	74.00	34.94	150.0	٧	309.0	-2.69
4803.500000	41.32	74.00	32.68	150.0	٧	177.0	2.18
7707.500000	42.83	74.00	31.17	150.0	٧	226.0	7.87
9980.500000	43.77	74.00	30.23	150.0	٧	251.0	9.69



Middle channel 2440MHz



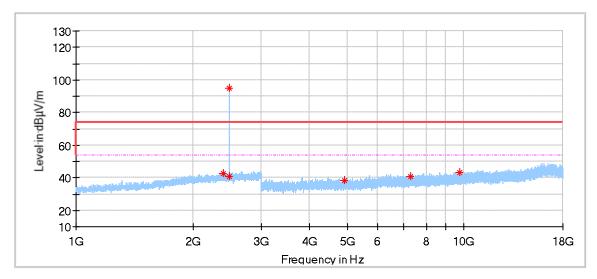
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2390.000000	41.21	74.00	32.79	150.0	Н	288.0	-2.99
2440.476191	96.15	74.00	-22.15	150.0	Н	271.0	-2.90
2483.333333	39.82	74.00	34.18	150.0	Н	13.0	-2.69
4825.500000	37.96	74.00	36.04	150.0	Н	8.0	2.21
7344.000000	43.15	74.00	30.85	150.0	Н	202.0	7.09
9616.000000	42.44	74.00	31.56	150.0	Н	8.0	9.24



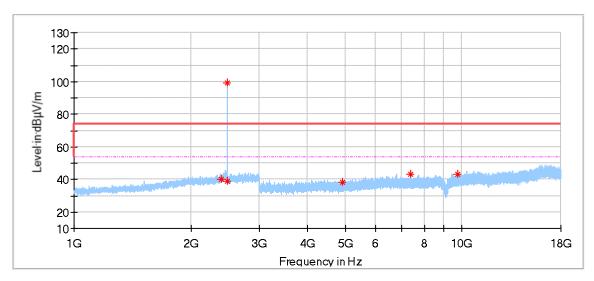
Frequency	MaxPeak	Limit	Margin	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(cm)		(deg)	(dB/m)
2390.000000	41.48	74.00	32.52	150.0	٧	193.0	-2.99
2440.476191	102.20	74.00	-28.20	150.0	٧	175.0	-2.90
2483.809524	41.24	74.00	32.76	150.0	٧	188.0	-2.69
4879.500000	40.41	74.00	33.59	150.0	٧	202.0	2.38
7435.500000	41.90	74.00	32.10	150.0	٧	226.0	7.21
9622.500000	42.34	74.00	31.66	150.0	٧	128.0	9.24



High channel 2480MHz



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2390.047619	42.73	74.00	31.27	150.0	Н	58.0	-2.99
2480.476191	94.91	74.00	-20.91	150.0	Н	71.0	-2.69
2483.809524	40.52	74.00	33.48	150.0	Н	262.0	-2.69
4928.500000	38.37	74.00	35.63	150.0	Н	158.0	2.33
7278.000000	40.47	74.00	33.53	150.0	Н	84.0	6.98
9760.000000	43.02	74.00	30.98	150.0	Н	84.0	9.69



Frequency	MaxPeak	Limit	Margin	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(cm)		(deg)	(dB/m)
2390.523810	40.40	74.00	33.60	150.0	٧	205.0	-2.99
2480.476191	99.31	74.00	-25.31	150.0	٧	140.0	-2.69
2484.285714	38.65	74.00	35.35	150.0	٧	21.0	-2.69
4919.500000	38.41	74.00	35.59	150.0	٧	259.0	2.26
7378.000000	43.10	74.00	30.90	150.0	٧	109.0	7.17
9740.500000	43.46	74.00	30.54	150.0	٧	84.0	9.61

Remark:

(1) Data of measurement within frequency range18-26GHz are the noise floor or attenuated more than 20dB below the permissible limits or the field strength is too small to be measured, so test data does not present in this report



- (2) Frequencies which exceed the limit are carrier frequency.
- (3) Level= Reading Level + Correction Factor
- (4) Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Amplifier Gain Below 1GHz: Corrector factor = Antenna Factor + Cable Loss (The Reading Level is recorded by software which is not shown in the sheet)



10 Test Equipment List

Radiated Emission Test

Description	Manufacturer	Model no.	Equipment ID	Serial no.	cal interval (year)	cal. due date
EMI Test Receiver	Rohde & Schwarz	ESR 26	68-4-74-14- 002	101269	1	2021-6-29
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9162	68-4-80-19- 003	284	1	2021-2-24
Wave Guide Antenna	ETS	3117	68-4-80-19- 001	00218954	1	2021-6-15
Pre-amplifier	Rohde & Schwarz	SCU 18F	68-4-29-19- 001	100745	1	2021-12-14
Pre-amplifier	Rohde & Schwarz	SCU 08F2	68-4-29-19- 004	08400018	1	2021-12-14
Sideband Horn Antenna	Q-PAR	QWH-SL- 18-40-K-SG	68-4-80-14- 008	12827	1	2021-8-5
Pre-amplifier	Rohde & Schwarz	SCU 40A	68-4-29-14- 002	100432	1	2021-7-30
3m Semi- anechoic chamber	TDK	9X6X6	68-4-90-19- 006		3	2022-12-29
Test software	Rohde & Schwarz	EMC32	68-4-90-19- 006-A01	Version10.35. 02	N/A	N/A

RF Conducted Test

Description	Manufacturer	Model no.	Equipment ID	Serial no.	cal interval (year)	cal. due date
Signal Analyzer	Rohde & Schwarz	FSV40	68-4-74-14- 004	101030	1	2021-6-21



11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty					
Test Items	Extended Uncertainty				
Uncertainty for Conducted Emission 150kHz-30MHz	3.62dB				
(for test using AMN ENV432 or ENV4200)					
Uncertainty for Radiated Emission 25MHz-3000MHz	Horizontal: 4.63dB;				
Officertainty for Radiated Effission 25/01/12-3000/01/12	Vertical: 4.61dB;				
Uncertainty for Radiated Emission 3000MHz-	Horizontal: 4.65dB;				
18000MHz	Vertical: 4.64dB;				
Uncertainty for Radiated Emission 18000MHz-	Horizontal: 4.89dB;				
40000MHz	Vertical: 4.87dB;				
Uncertainty for Canduated DE test	RF Power Conducted: 1.16dB				
Uncertainty for Conducted RF test	Frequency test involved: 0.6×10 ⁻⁷ or 1%				

---THE END OF REPORT---