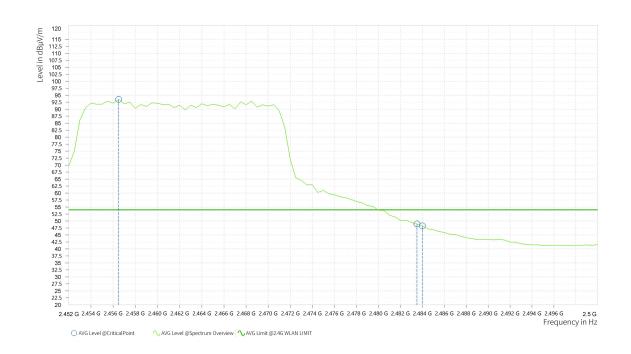


Rg	Frequency [MHz]		AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,456.500	93.52			9.97	Н	222.9	2
1	2,483.500	48.96	54.00	5.04	9.88	Н	222.9	2
1	2,484.000	48.25	54.00	5.75	9.88	Н	222.9	2

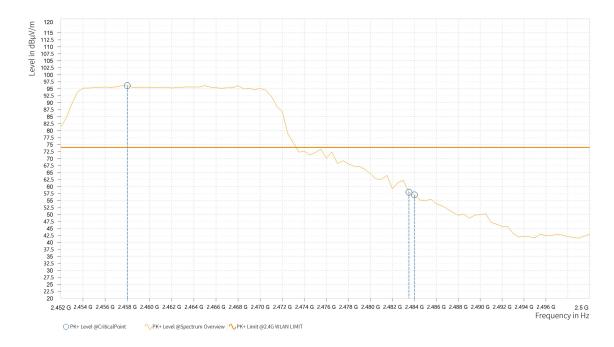




CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE			Average (AV)

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]		PK+ Limit [dBµV/m]	Mardin	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,458.000	96.14			9.97	V	139.4	1
1	2,483.500	57.98	74.00	16.02	9.88	V	139.4	1
1	2,484.000	57.00	74.00	17.00	9.88	V	139.4	1





Rg	Frequency [MHz]		AVG Limit [dBµV/m]	Mardin	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,456.500	85.63			9.97	V	132.3	1
1	2,483.500	40.28	54.00	13.72	9.88	V	132.3	1
1	2,484.000	39.85	54.00	14.15	9.88	V	132.3	1



- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Limit value – Emission level.
- 2. 2462MHz: Fundamental frequency.



BELOW 1GHz WORST-CASE DATA:

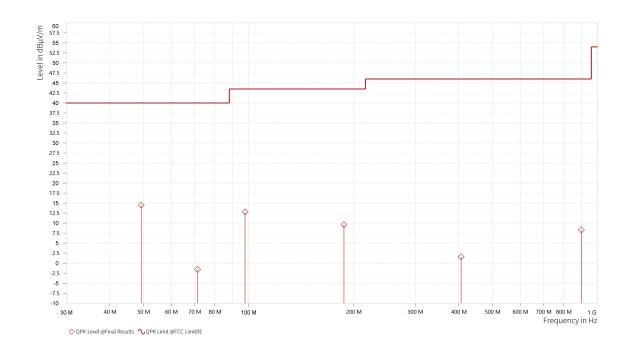
30 MHz - 1GHz data:

BT-LE _1M

CHANNEL	TX Channel 19	0DETECTOR	Ouesi Beek (OB)
FREQUENCY RANGE	30MHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]		QPK Limit [dBµV/m]	Margin	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]
1	49.158	14.51	40.00	25.49	-17.57	Н	36.6	2	120.000
1	71.322	-1.56	40.00	41.56	-24.41	Н	250.6	2	120.000
1	97.609	12.81	43.50	30.69	-21.44	Н	355	2	120.000
1	187.528	9.61	43.50	33.89	-24.17	Н	252.6	1	120.000
1	406.215	1.61	46.00	44.39	-19.70	Н	355	2	120.000
1	898.393	8.29	46.00	37.71	-12.70	Н	353.8	1	120.000



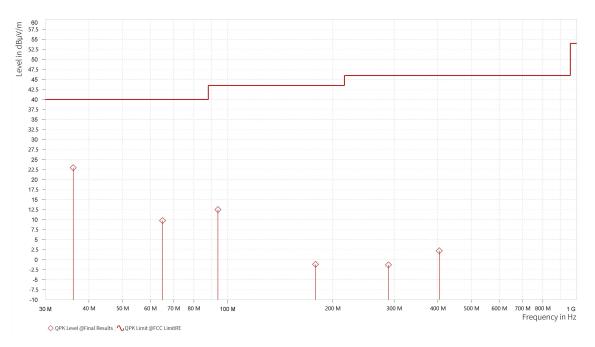
- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Limit value Emission level.



CHANNEL	TX Channel 19	DETECTOR	Ouggi Book (OD)
FREQUENCY RANGE	30MHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	QPK Level [dBµV/m]	QPK Limit [dBµV/m]	QPK Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]
1	36.063	22.97	40.00	17.03	-19.89	V	227.5	1	120.000
1	65.017	9.78	40.00	30.22	-20.43	V	335.9	1	120.000
1	93.729	12.51	43.50	30.99	-22.79	V	227.5	1	120.000
1	178.653	-1.15	43.50	44.65	-25.78	V	227.5	1	120.000
1	288.796	-1.29	46.00	47.29	-22.60	V	120.9	1	120.000
1	403.935	2.22	46.00	43.78	-19.73	V	355	2	120.000



- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Limit value Emission level.



ABOVE 1GHz TEST DATA

Note: 1. For radiated emissions testing \cdot the full testing range of different modes have been scanned \cdot only the worst case harmonic data is reported in the sheet.

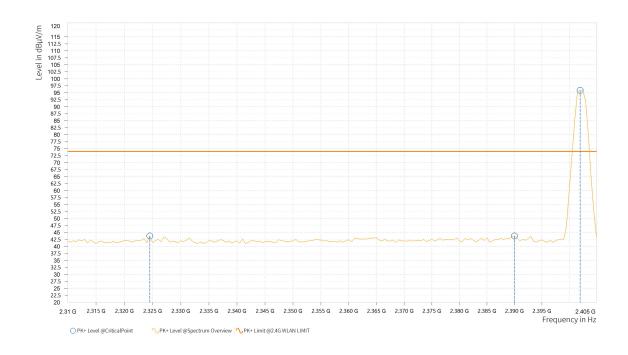
2. All other emissions were greater than 20dB below the limit was not recorded

BT-LE _1M

CHANNEL	TX Channel 0	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

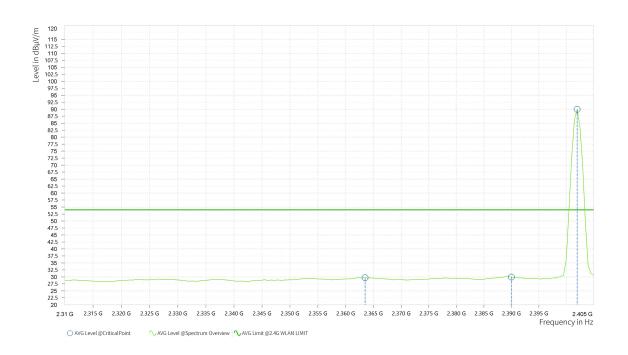
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]		PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,324.500	43.76	74.00	30.24	9.45	Н	1	2
1	2,390.000	43.75	74.00	30.25	9.84	Н	243.3	2
1	2,402.000	95.86			9.85	Н	219.4	2





Rg	Frequency [MHz]		AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,363.500	29.71	54.00	24.29	9.64	Н	355.4	2
1	2,390.000	29.93	54.00	24.07	9.84	Н	291.1	2
1	2,402.000	89.96			9.85	Н	215.8	2

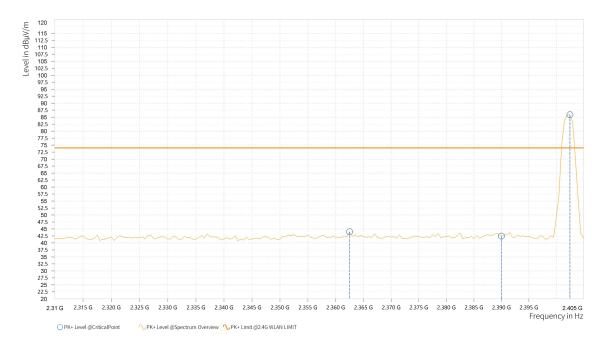




CHANNEL	TX Channel 0	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]		PK+ Limit [dBµV/m]	Margin	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,362.500	44.00	74.00	30.00	9.63	V	341.4	2
1	2,390.000	42.45	74.00	31.55	9.84	V	229	1
1	2,402.500	85.87			9.85	V	150.2	1





Rg	Frequency [MHz]		AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,389.000	29.93	54.00	24.07	9.83	V	108.2	1
1	2,390.000	29.96	54.00	24.04	9.84	V	359	2
1	2,402.000	84.72			9.85	V	146.6	1

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Limit value – Emission level.
- 2. 2402MHz: Fundamental frequency.



CHANNEL	TX Channel 19	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]		PK+ Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	Margin	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
3	4,880.029	52.00	74.00	22.00	40.30	54.00	13.70	15.95	Н	359	1
4	7,486.175	59.00	74.00	15.01	45.52	54.00	8.48	23.87	Н	11.2	2



CHANNEL	TX Channel 19	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]		PK+ Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]		Margin	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
3	4,879.544	51.19	74.00	22.81	40.54	54.00	13.46	15.95	V	359.1	1
4	7,498.500	59.00	74.00	15.00	45.39	54.00	8.61	23.89	V	10.6	2

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Limit value – Emission level.
- 2. 2440MHz: Fundamental frequency.



CHANNEL	TX Channel 39	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]		PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,480.500	92.66			9.89	Н	242.1	2
1	2,483.500	43.82	74.00	30.18	9.88	Н	359	2
1	2,484.000	44.71	74.00	29.29	9.88	Н	242.1	2



Rg	Frequency [MHz]		AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,480.000	88.48			9.89	Н	160.8	1
1	2,483.500	29.97	54.00	24.03	9.88	Н	160.8	1
1	2,484.000	30.08	54.00	23.92	9.88	Н	160.8	1



CHANNEL	TX Channel 39	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]		PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,480.500	87.08			9.89	V	145.4	1
1	2,483.500	43.16	74.00	30.84	9.88	V	358.2	1
1	2,485.000	43.84	74.00	30.16	9.88	V	1	2



Rg	Frequency [MHz]		AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,480.000	82.12			9.89	V	145.4	1
1	2,483.500	29.84	54.00	24.16	9.88	V	70.1	1
1	2,484.000	30.12	54.00	23.88	9.88	V	256.6	1

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Limit value – Emission level.
- 2. 2480MHz: Fundamental frequency.

3.3 6 dB BANDWIDTH MEASUREMENT

3.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

3.3.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test	R&S	ESW 44	101973	Feb.25,22	Feb.24,24
Receiver	Νασ	E377 44	101973	Feb.25,22	
Open Switch and	R&S	OSP-B157W	100836	N/A	N/A
Control Unit	Νασ	8	100830		
Vector Signal	D 0 C	SMBV100B	102176	Fab 46 00	Feb.15,24
Generator	R&S	SINIDA 100P	102176	Feb.16,22	
Signal Generator	R&S	SMB100A03	182185	Feb.16,22	Feb.15,24
Wideband Radio	R&S	CNAVAGOO	400000	Jun.26,22	Jun.25,24
Communication	καδ	CMW500	169399		
Hygrothermograph	DELI	20210528	SZ015	Sep.06,22	Sep.05,24
PC	LENOVO	E14	HRSW0024	N/A	N/A
CABLE	R&S	J12J103539-	SED 03 30 060	Apr.28,23	Oct.27,23
		00-1	SEP-03-20-069		
CABLE	R&S	J12J103539-	CED 02 20 070	Apr.28,23	Oct.27,23
		00-1	SEP-03-20-070		
Test Software	EMC32	EMC32	N/A	N/A	N/A
Temperature		V/T4000	E0ECC070400050	May 24 22	May.30,24
Chamber	votsch	VT4002	58566078100050	IVIAY.31,22	

NOTE:

- 1. The calibration interval of the above test instruments is 6 months or 24 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
- 2. The test was performed in RF Oven room.



3.3.3 TEST PROCEDURE

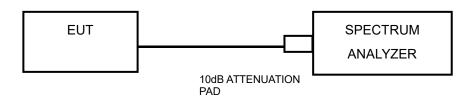
- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) ≥ 3 RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



3.3.4 DEVIATION FROM TEST STANDARD

No deviation.

3.3.5 TEST SETUP



3.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



3.3.7 TEST RESULTS

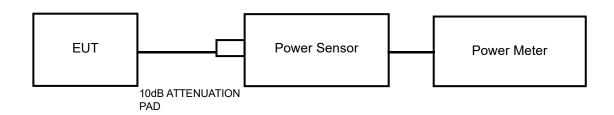
Please Refer to Appendix1/2 Of this test report.

3.4 CONDUCTED OUTPUT POWER

3.4.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

For systems using digital modulation in the 2400–2483.5 MHz band: 1 Watt (30dBm)

3.4.2 TEST SETUP



3.4.3 TEST INSTRUMENTS

Refer to section 3.3.2 to get information of above instrument.

3.4.4 TEST PROCEDURES

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



3.4.7 TEST RESULTS

3.4.7.1 MAXIMUM PEAK OUTPUT POWER

Please Refer to Appendix1/2 Of this test report.



3.4.7.2 AVERAGE OUTPUT POWER (FOR REFERENCE)

The average power sensor was used on the output port of the EUT. A power meter was used to read the response of the power sensor. Record the power level.

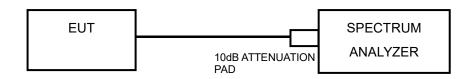
Please Refer to Appendix1/2 Of this test report.

3.5 POWER SPECTRAL DENSITY MEASUREMENT

3.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm/3KHz.

3.5.2 TEST SETUP



3.5.3 TEST INSTRUMENTS

Refer to section 3.3.2 to get information of above instrument.

3.5.4 TEST PROCEDURE

- 1. Set the span to 1.5 times the DTS bandwidth
- 2. Set the RBW = 3 kHz, VBW $\geq 3 \text{ x RBW}$, Detector = peak.
- 3. Sweep time = auto couple, Trace mode = max hold, allow trace to fully stabilize.
- 4. Use the peak marker function to determine the maximum amplitude level.

3.5.5 DEVIATION FROM TEST STANDARD

No deviation.

3.5.6 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



3.5.7 TEST RESULTS

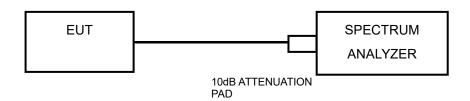
Please Refer to Appendix1/2 Of this test report.

3.6 OUT OF BAND EMISSION MEASUREMENT

3.6.1 LIMITS OF OUT OF BAND EMISSION MEASUREMENT

Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

3.6.2 TEST SETUP



3.6.3 TEST INSTRUMENTS

Refer to section 3.3.2 to get information of above instrument.

3.6.4 TEST PROCEDURE

MEASUREMENT PROCEDURE REF

- 1. Set the RBW = 100 kHz.
- 2. Set the VBW ≥ 300 kHz.
- 3. Detector = peak.
- 4. Sweep time = auto couple.
- 5. Trace mode = max hold.
- 6. Allow trace to fully stabilize.
- 7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOBE

- 1. Set RBW = 100 kHz.
- 2. Set VBW ≥ 300 kHz.
- 3. Set span to encompass the spectrum to be examined
- 4. Detector = peak.
- 5. Trace Mode = max hold.
- 6. Sweep = auto couple.

3.6.5 DEVIATION FROM TEST STANDARD

No deviation.

3.6.6 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

3.6.7 TEST RESULTS

The spectrum plots are attached on the following images. D1 line indicates the highest level. D2 line indicates the 20dB offset below D1. It shows compliance to the requirement.

Please Refer to Appendix1/2 Of this test report.



4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.



6 Appendix 1 WLAN 2.4G DTS BANDWIDTH

TEST RESULT

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant0	2412	8.1040	2407.948	2416.052	0.5	PASS
	Ant0	2437	8.1040	2432.948	2441.052	0.5	PASS
	Ant0	2462	8.5090	2457.485	2465.994	0.5	PASS
11G	Ant0	2412	16.035	2404.127	2420.162	0.5	PASS
	Ant0	2437	16.151	2429.012	2445.163	0.5	PASS
	Ant0	2462	15.687	2453.838	2469.525	0.5	PASS
11N20	Ant0	2412	16.035	2404.417	2420.452	0.5	PASS
	Ant0	2437	17.250	2428.491	2445.741	0.5	PASS
	Ant0	2462	16.331	2453.201	2469.532	0.5	PASS



TEST GRAPHS

