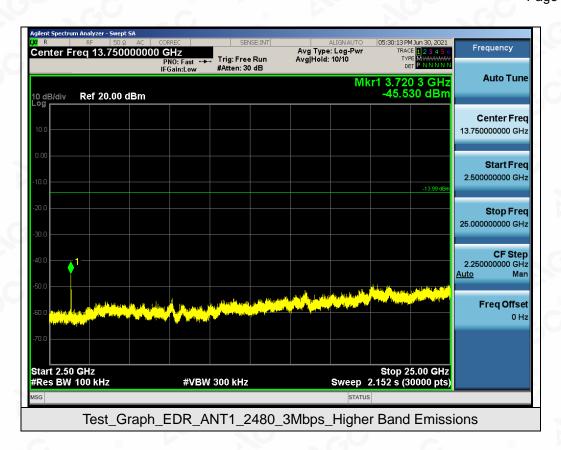


g/Inspection
The test results
If the test report.







Left ear headphones:

Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands



Test_Graph_BR_ANT1_2402_1Mbps_Lower Band Emissions

Stop 2.390 GHz Sweep 226.0 ms (30000 pts)

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#VBW 300 kHz

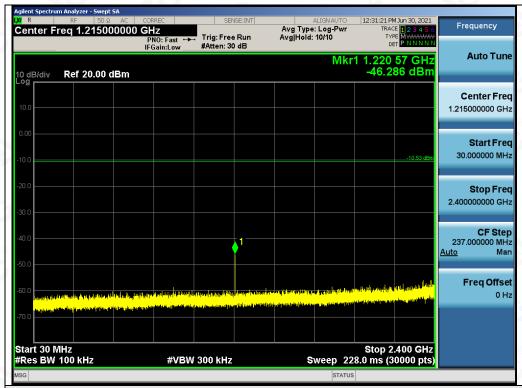
Start 30 MHz #Res BW 100 kHz

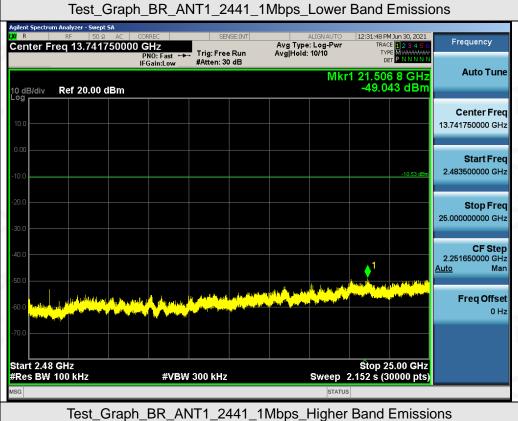






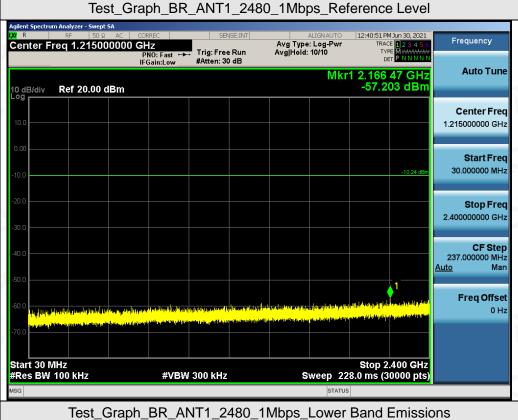






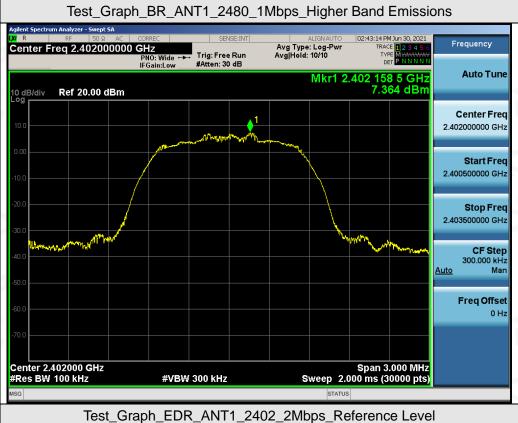




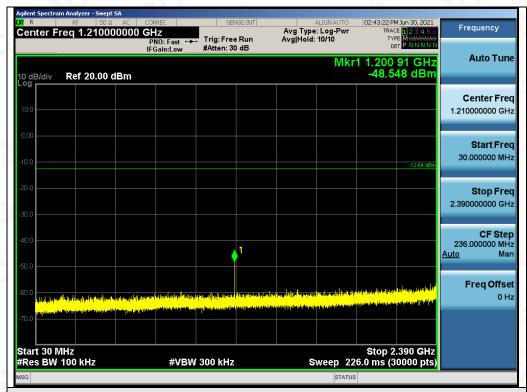


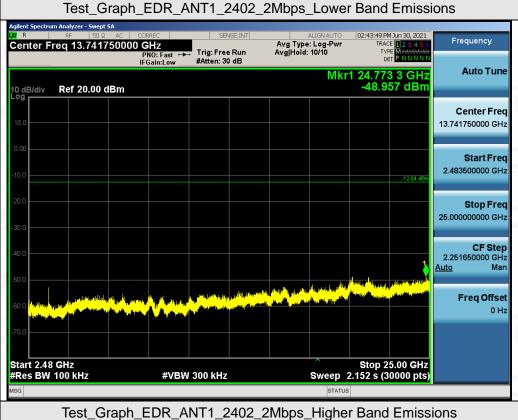






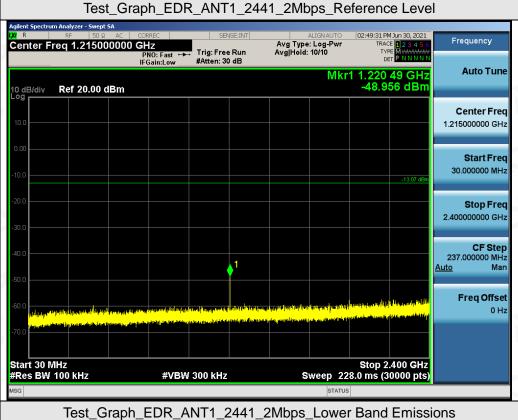










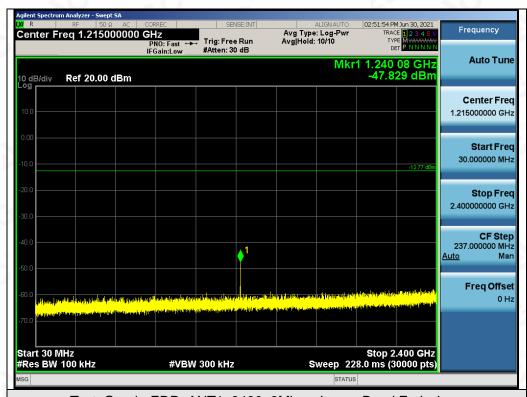


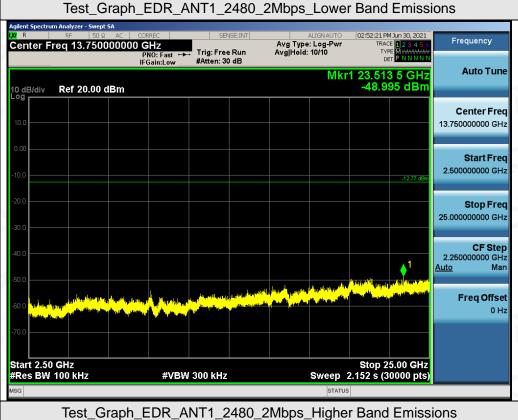






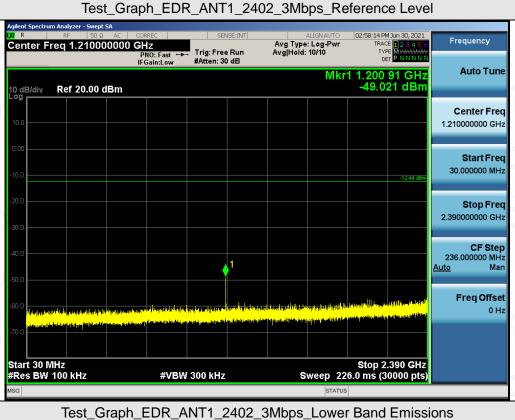






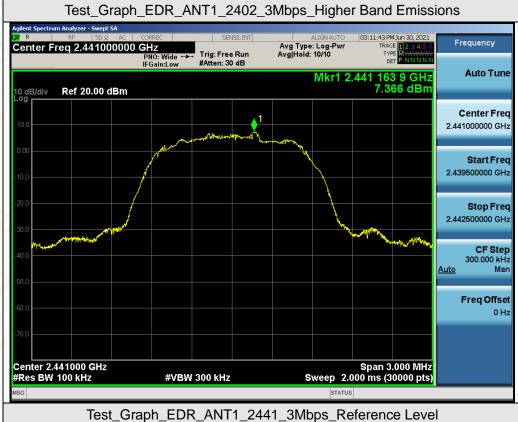




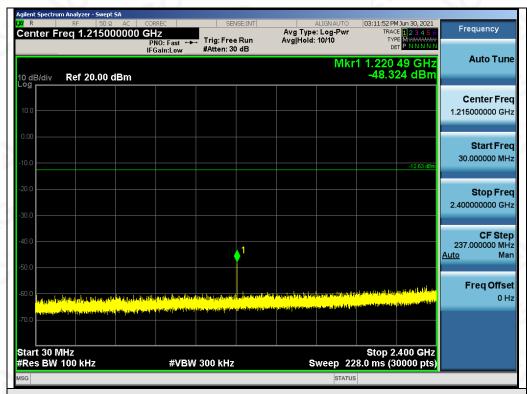


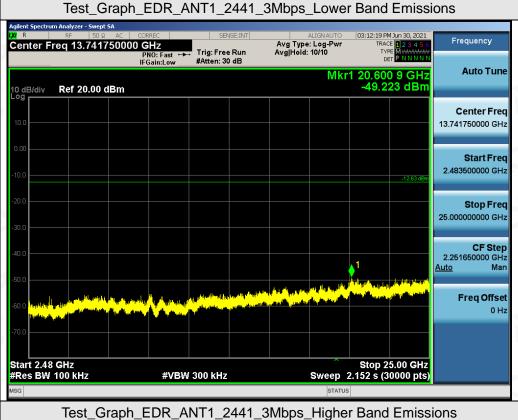






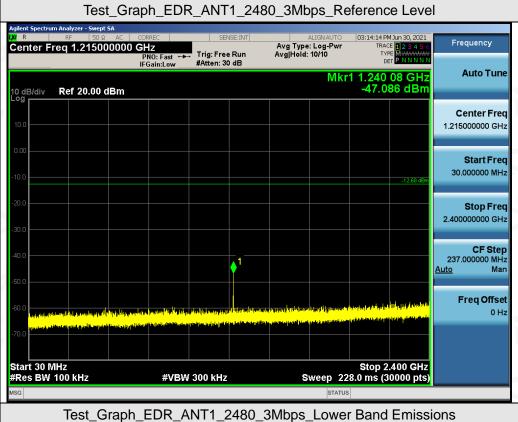






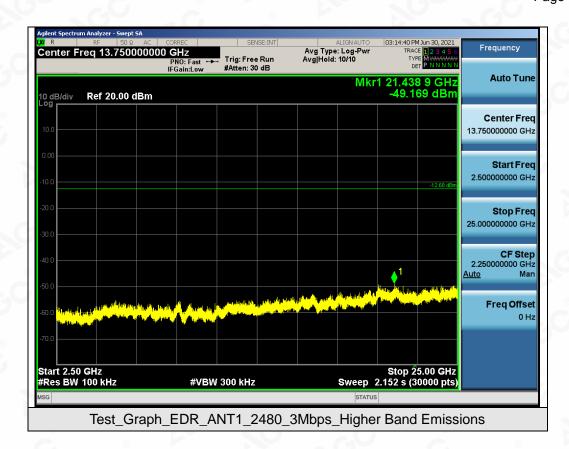






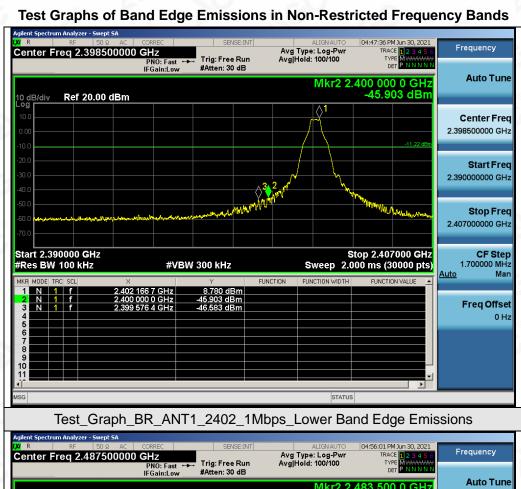
g/Inspection
The test results
If the test report.

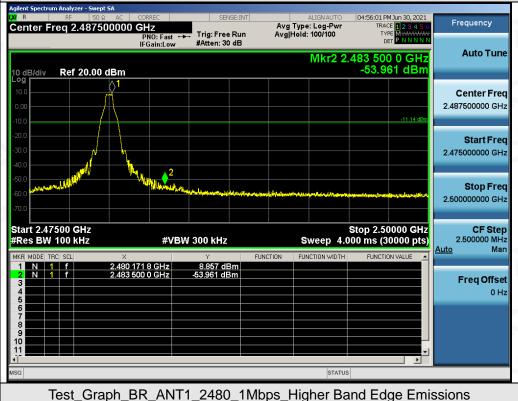






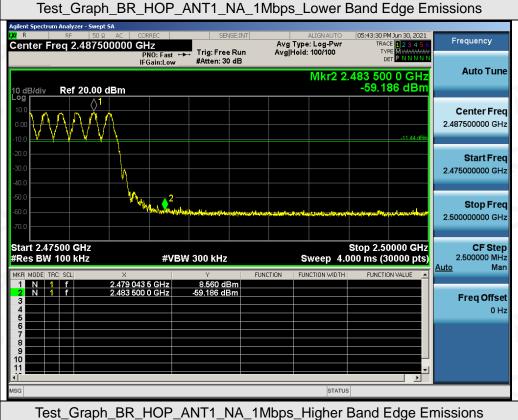
Right ear headphones:



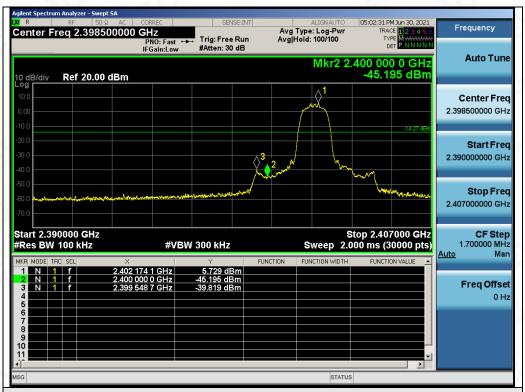


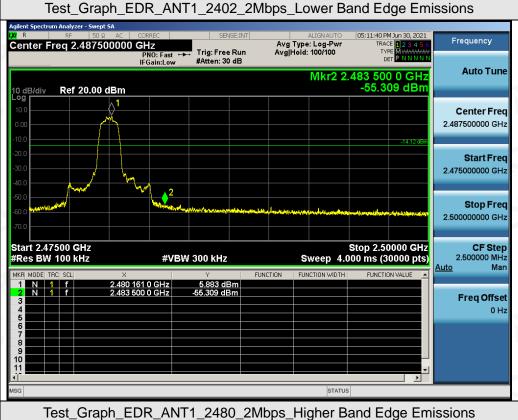






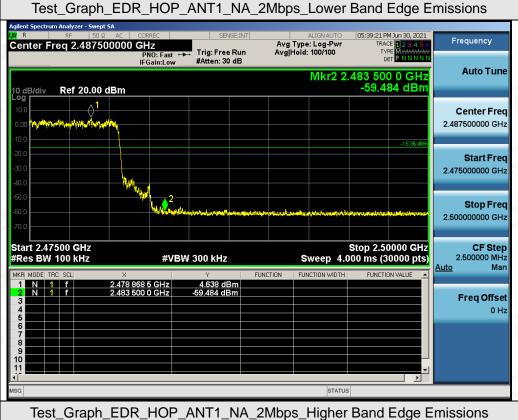




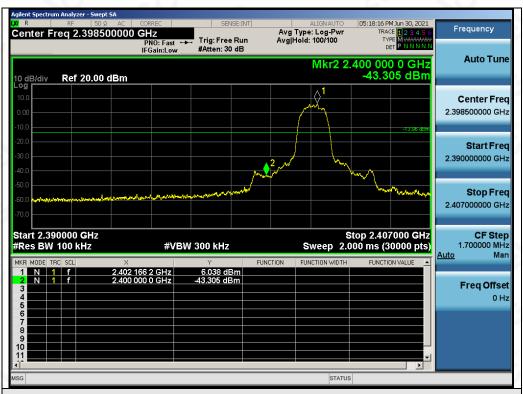


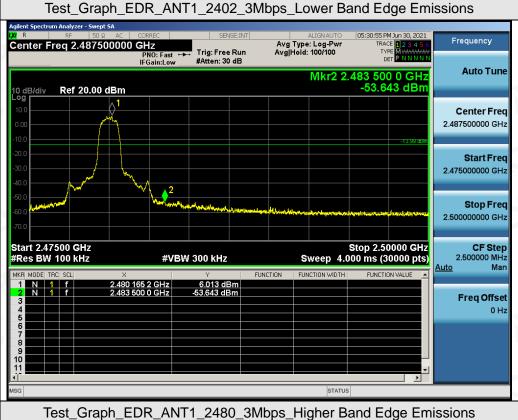






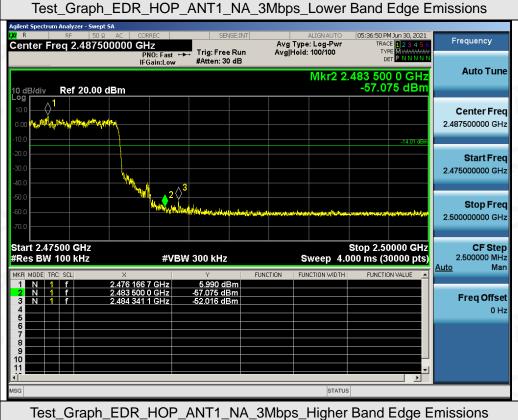














Left ear headphones:

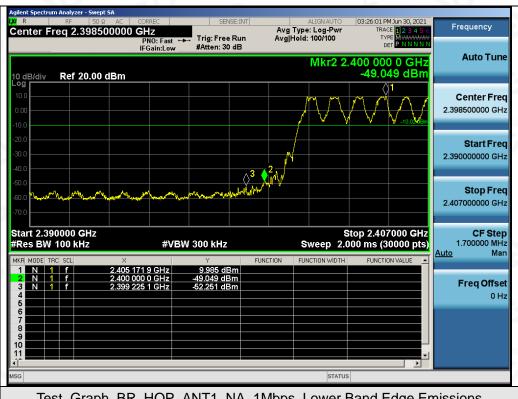
Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands

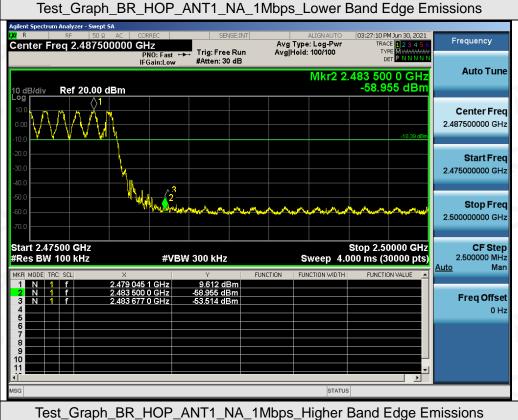




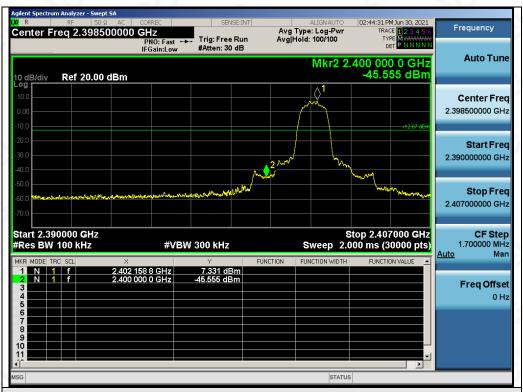
Test_Graph_BR_ANT1_2480_1Mbps_Higher Band Edge Emissions

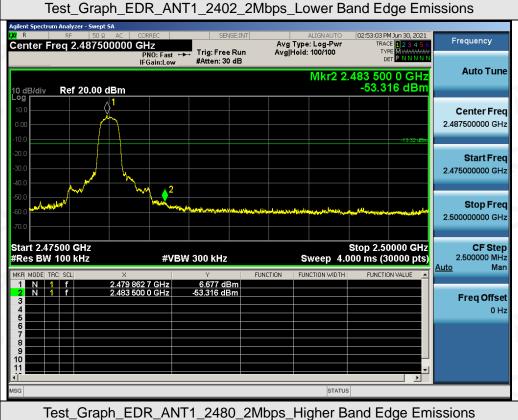






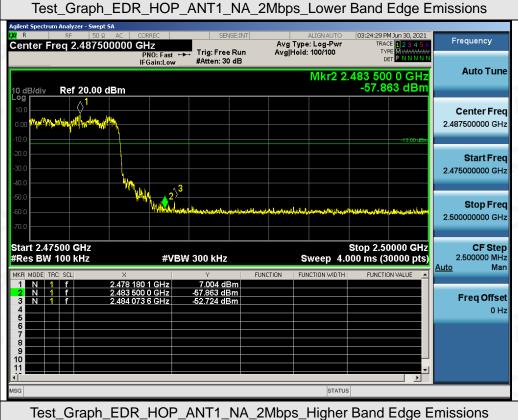




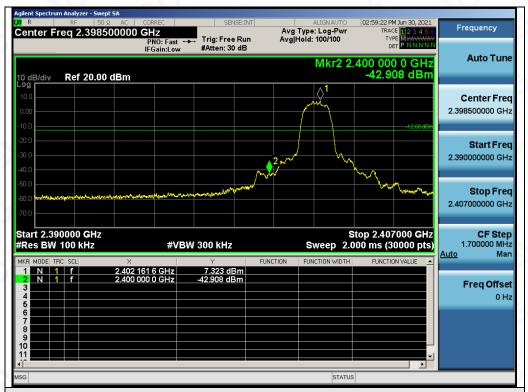


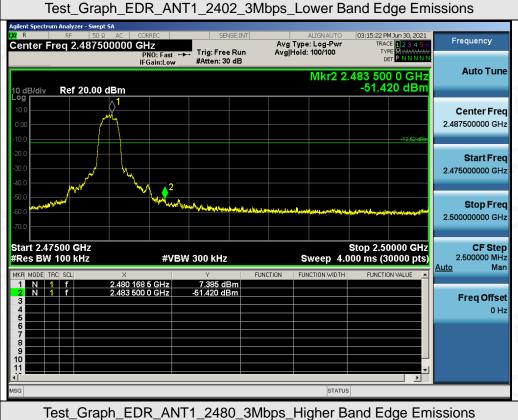






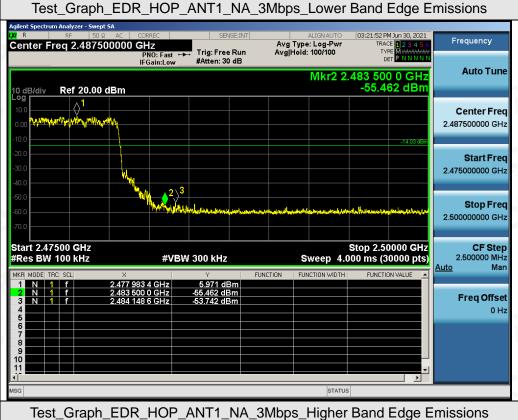


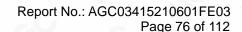














10. RADIATED EMISSION

10.1. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.



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The following table is the setting of spectrum analyzer and receiver.

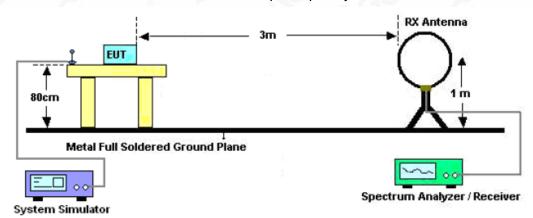
Spectrum Parameter	Setting		
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP		
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP		
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP		
Start ~Stop Frequency	1GHz~26.5GHz		
Giant ~Gtop i requency	1MHz/3MHz for Peak, 1MHz/3MHz for Average		

Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

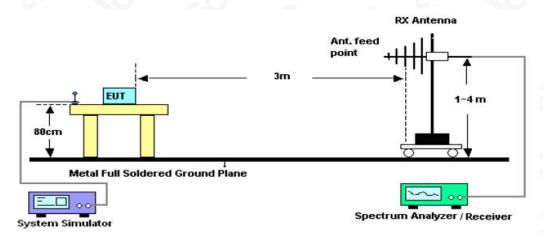


10.2. TEST SETUP

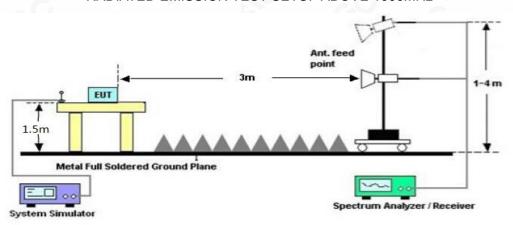
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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10.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (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
Above 960	500	3

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

10.4. TEST RESULT

Radiated emission below 30MHz

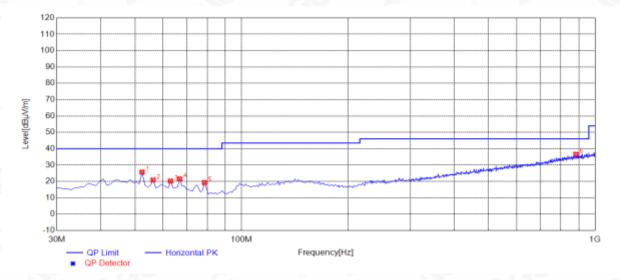
The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.



Right ear headphones:

Radiated emission from 30MHz to 1000MHz

EUT	WIRELESS HEADPHONES	Model Name	HA-FW1000T
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Horizontal

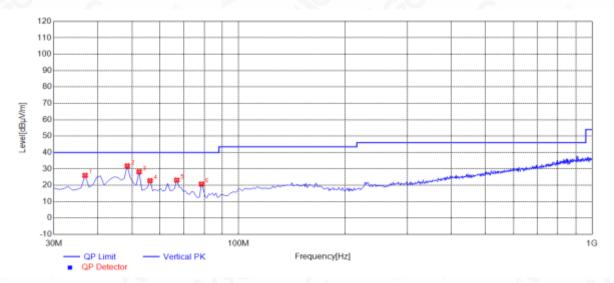


NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
	[IVIIIZ]	[GDp V/III]	[ub]	[GDH V/III]	[GD]	[ciii]	LJ	
1	52.3100	25.71	11.49	40.00	14.29	100	197	Horizontal
2	56.1900	20.86	11.20	40.00	19.14	100	70	Horizontal
3	62.9800	20.20	10.42	40.00	19.80	100	170	Horizontal
4	66.8600	21.52	9.76	40.00	18.48	100	50	Horizontal
5	78.5000	19.26	7.46	40.00	20.74	100	240	Horizontal
6	882.6300	36.59	29.79	46.00	9.41	100	47	Horizontal

RESULT: PASS



EUT	WIRELESS HEADPHONES	Model Name	HA-FW1000T
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Vertical



	(0)					(0)		
NO.	Freq.	Level	Factor	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	36.7900	26.00	11.16	40.00	14.00	100	195	Vertical
2	48.4300	31.81	11.71	40.00	8.19	100	67	Vertical
3	52.3100	28.24	11.49	40.00	11.76	100	351	Vertical
4	56.1900	22.81	11.20	40.00	17.19	100	1	Vertical
5	66.8600	23.13	9.76	40.00	16.87	100	349	Vertical
6	78.5000	20.74	7.46	40.00	19.26	100	229	Vertical

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Level-Limit.

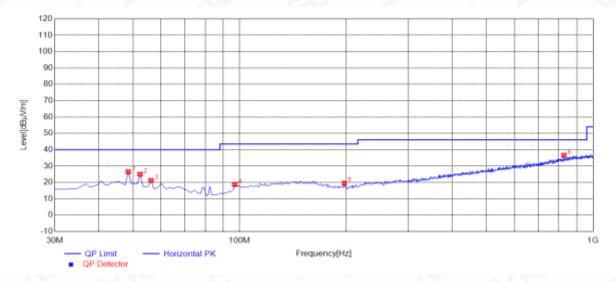
2. All test modes had been pre-tested. The mode 9 is the worst case and recorded in the report.



Left ear headphones:

Radiated emission from 30MHz to 1000MHz

EUT	WIRELESS HEADPHONES	Model Name	HA-FW1000T
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Horizontal

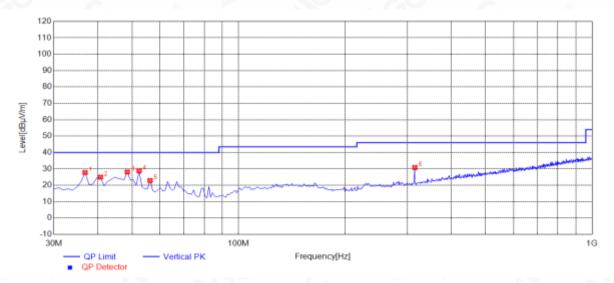


NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	48.4300	26.48	11.71	40.00	13.52	100	193	Horizontal
2	52.3100	25.02	11.49	40.00	14.98	100	75	Horizontal
3	56.1900	21.16	11.20	40.00	18.84	100	206	Horizontal
4	96.9300	18.70	10.11	43.50	24.80	100	1	Horizontal
5	197.8100	19.54	12.16	43.50	23.96	100	190	Horizontal
6	827.3400	36.62	28.91	46.00	9.38	100	360	Horizontal

RESULT: PASS



EUT	WIRELESS HEADPHONES	Model Name	HA-FW1000T
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Vertical



_								
NO.	Freq.	Level	Factor	Limit	Margin	Height	Angle	Polarity
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Folality
1	36.7900	27.75	11.16	40.00	12.25	100	261	Vertical
2	40.6700	24.93	11.91	40.00	15.07	100	184	Vertical
3	48.4300	28.08	11.71	40.00	11.92	100	228	Vertical
4	52.3100	28.84	11.49	40.00	11.16	100	278	Vertical
5	56.1900	22.86	11.20	40.00	17.14	100	164	Vertical
6	315.1800	30.84	16.48	46.00	15.16	100	268	Vertical

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Level-Limit.

2. All test modes had been pre-tested. The mode 7 is the worst case and recorded in the report.