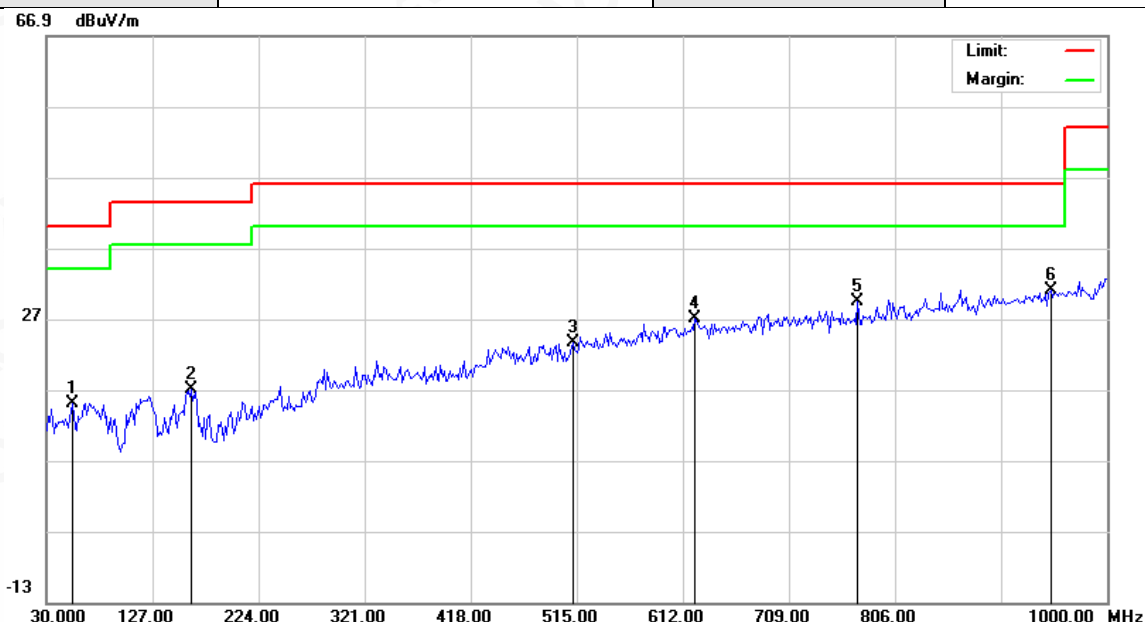


EUT	TWS Earphones	Model Name	EF02
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB	
1		54.2500	0.45	14.64	15.09	40.00	-24.91	peak
2		162.5667	-1.24	18.16	16.92	43.50	-26.58	peak
3		511.7667	-1.59	25.22	23.63	46.00	-22.37	peak
4		623.3167	-0.15	27.23	27.08	46.00	-18.92	peak
5		772.0500	-0.36	29.78	29.42	46.00	-16.58	peak
6	*	948.2667	-1.02	32.11	31.09	46.00	-14.91	peak

RESULT: PASS

Note:

1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
2. All test modes had been tested. The mode 2 is the worst case and recorded in the report.

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RADIATED EMISSION ABOVE 1GHZ

EUT	TWS Earphones	Model Name	EF02
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804.000	43.57	0.08	43.65	74	-30.35	peak
4804.000	35.32	0.08	35.4	54	-18.6	AVG
7206.000	38.56	2.21	40.77	74	-33.23	peak
7206.000	31.28	2.21	33.49	54	-20.51	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT	TWS Earphones	Model Name	EF02
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804.000	44.33	0.08	44.41	74	-29.59	peak
4804.000	34.67	0.08	34.75	54	-19.25	AVG
7206.000	38.52	2.21	40.73	74	-33.27	peak
7206.000	30.15	2.21	32.36	54	-21.64	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT	TWS Earphones	Model Name	EF02
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4880.000	44.33	0.14	44.47	74	-29.53	peak
4880.000	35.52	0.14	35.66	54	-18.34	AVG
7320.000	39.18	2.36	41.54	74	-32.46	peak
7320.000	31.33	2.36	33.69	54	-20.31	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	TWS Earphones	Model Name	EF02
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4880.000	46.92	0.14	47.06	74	-26.94	peak
4880.000	38.47	0.14	38.61	54	-15.39	AVG
7320.000	40.26	2.36	42.62	74	-31.38	peak
7320.000	32.78	2.36	35.14	54	-18.86	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	TWS Earphones	Model Name	EF02
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.000	44.67	0.22	44.89	74	-29.11	peak
4960.000	35.89	0.22	36.11	54	-17.89	AVG
7440.000	38.13	2.64	40.77	74	-33.23	peak
7440.000	29.14	2.64	31.78	54	-22.22	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	TWS Earphones	Model Name	EF02
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.000	42.59	0.22	42.81	74	-31.19	peak
4960.000	34.66	0.22	34.88	54	-19.12	AVG
7440.000	38.45	2.64	41.09	74	-32.91	peak
7440.000	29.57	2.64	32.21	54	-21.79	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RESULT: PASS

Note:

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

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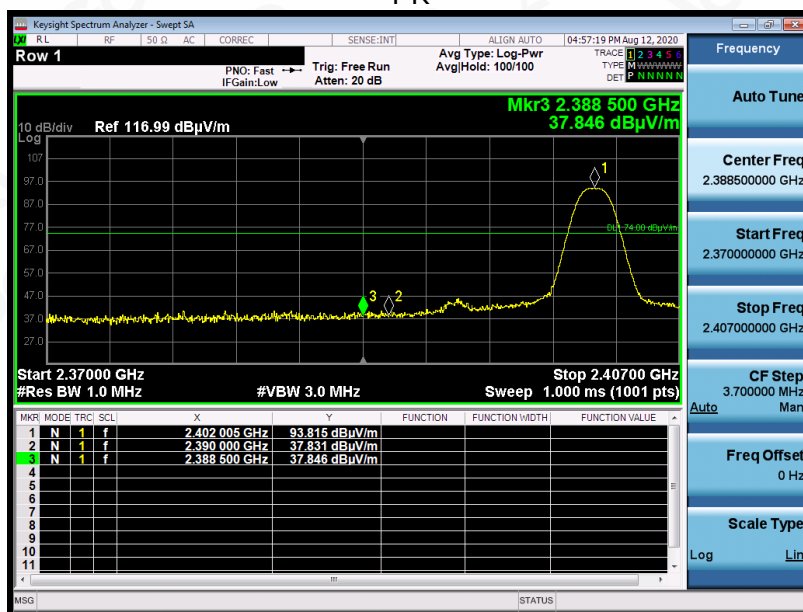
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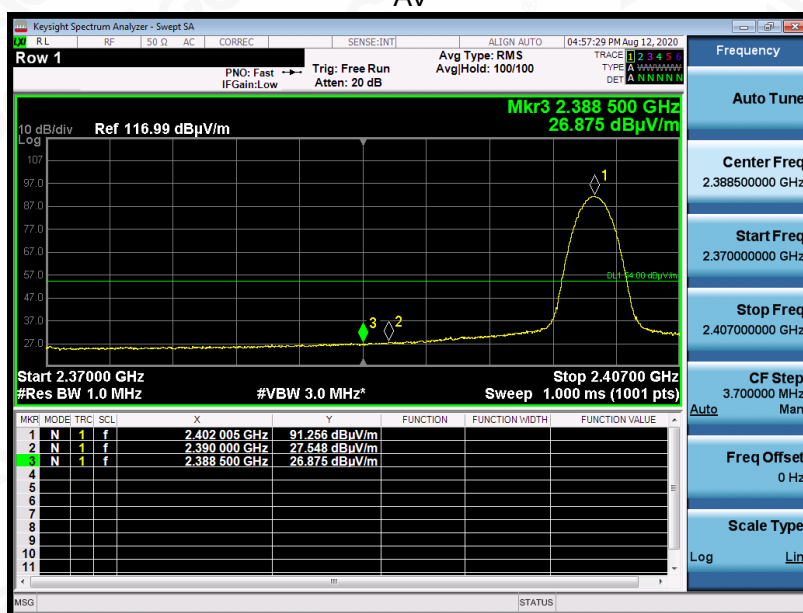
TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

EUT	TWS Earphones	Model Name	EF02
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

PK



AV



RESULT: PASS

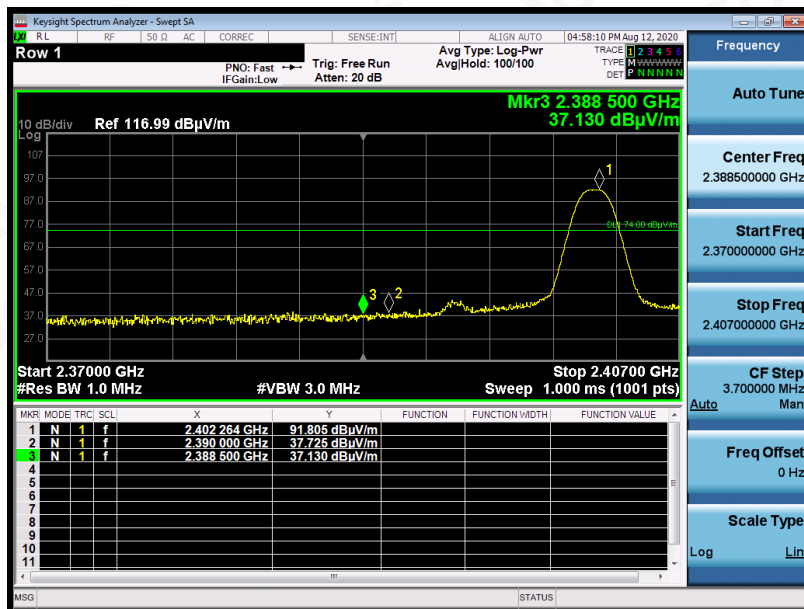
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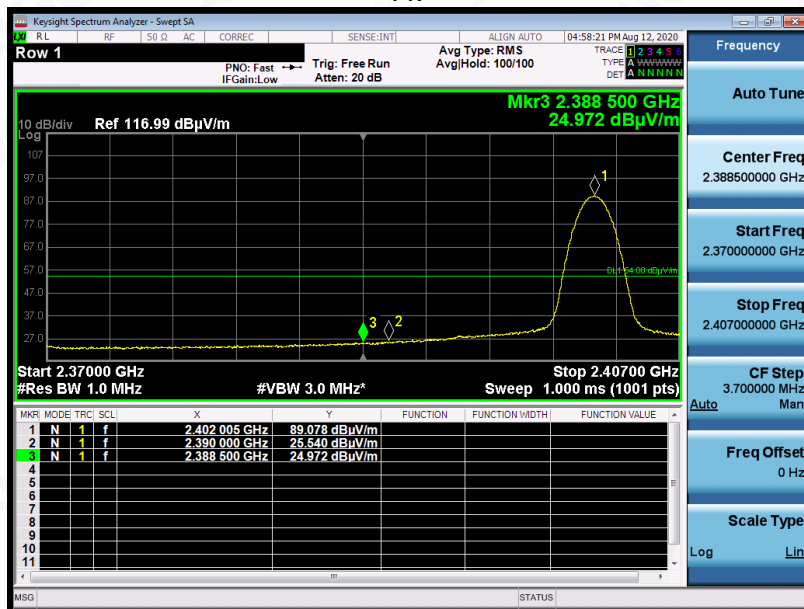


EUT	TWS Earphones	Model Name	EF02
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

PK



AV



RESULT: PASS

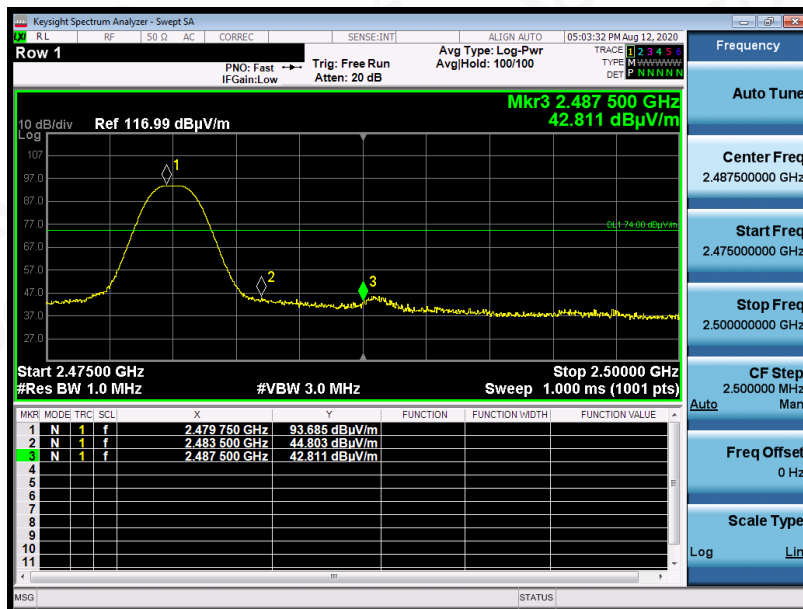
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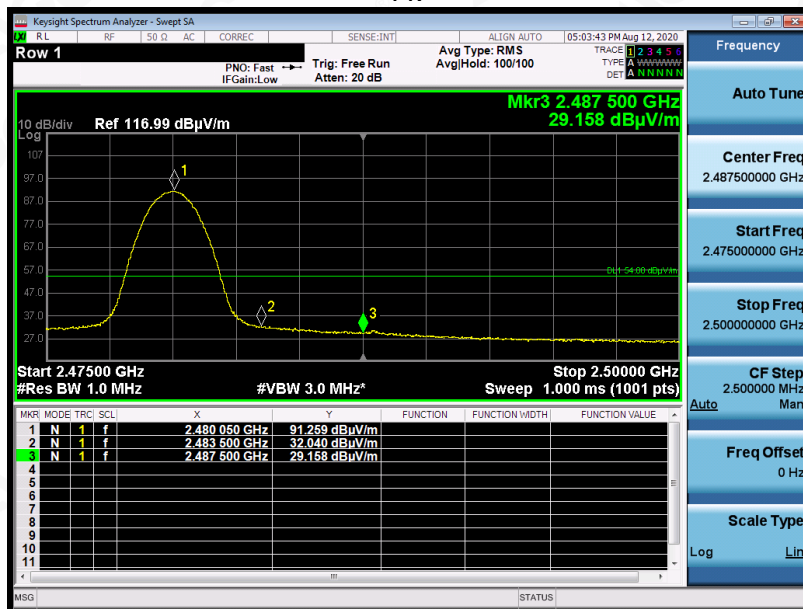


EUT	TWS Earphones	Model Name	EF02
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

PK



AV



RESULT: PASS

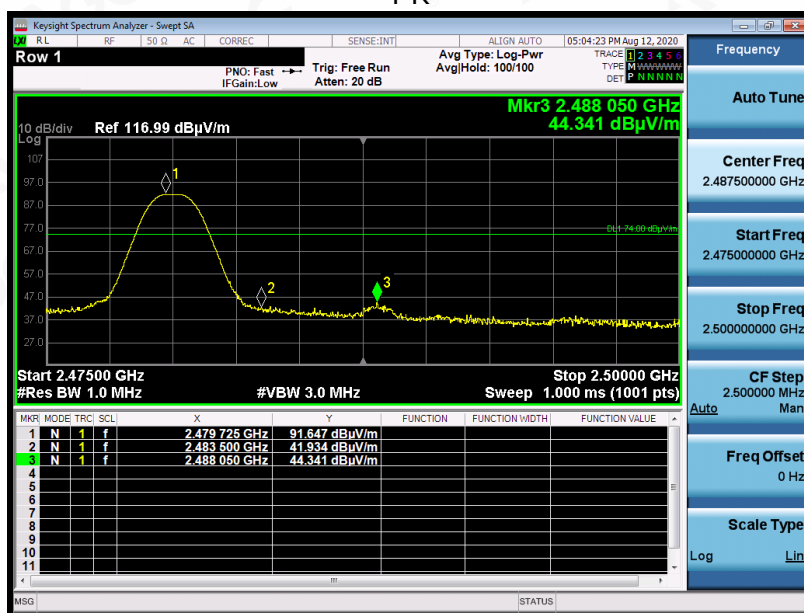
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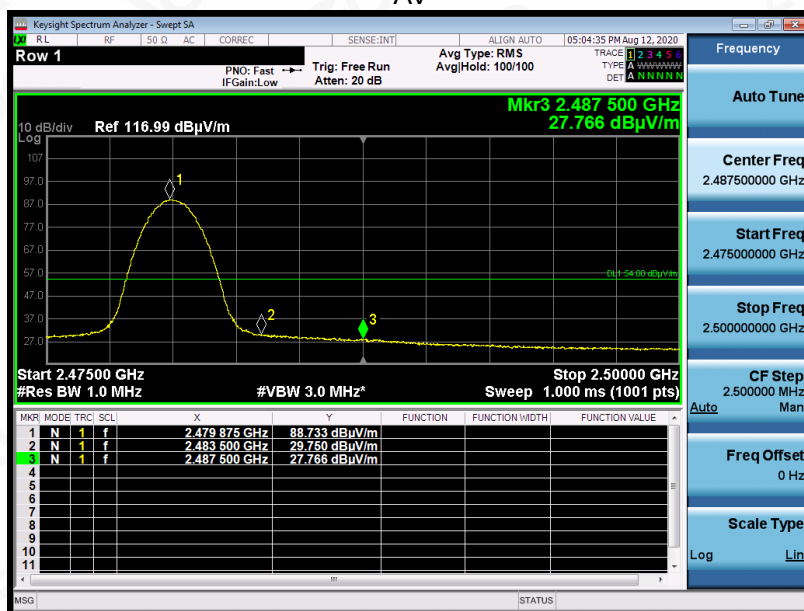


EUT	TWS Earphones	Model Name	EF02
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

PK



AV



RESULT: PASS

Note: The factor had been edited in the “Input Correction” of the Spectrum Analyzer.

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12. FCC LINE CONDUCTED EMISSION TEST

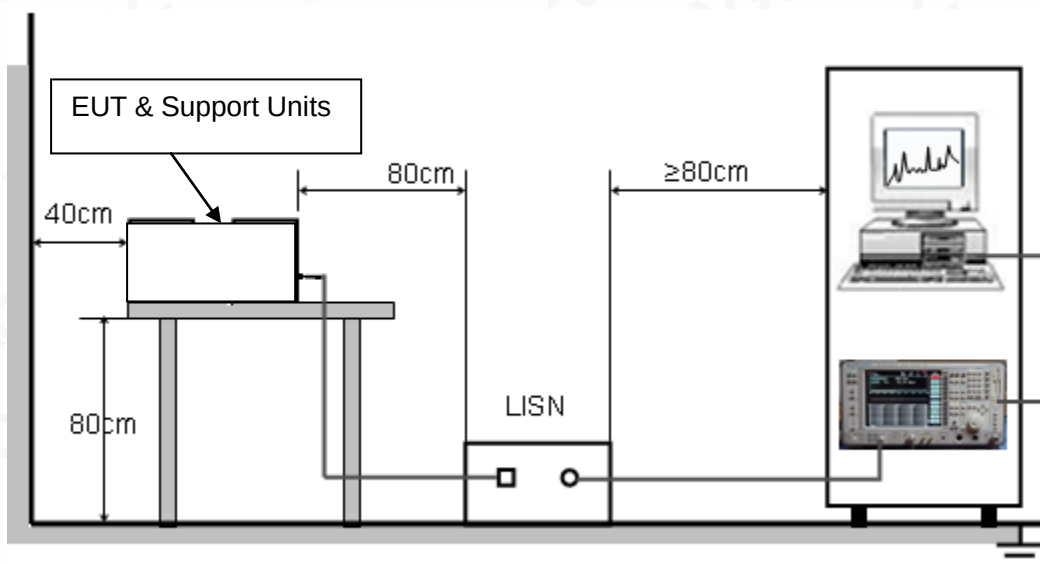
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipment received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC 3.3V power from control board which received AC120V/60Hz power from a LISN.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

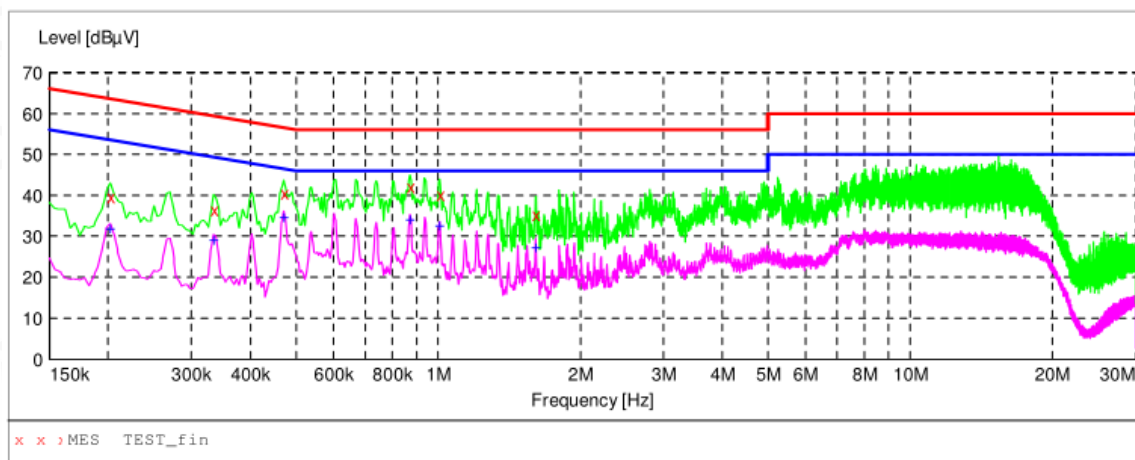
12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.



12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "TEST_fin"

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.202000	39.70	10.3	64	23.8	QP	L1	FLO
0.334000	36.60	10.2	59	22.8	QP	L1	FLO
0.470000	40.70	10.3	57	15.8	QP	L1	FLO
0.870000	42.20	10.4	56	13.8	QP	L1	FLO
1.006000	40.30	10.4	56	15.7	QP	L1	FLO
1.606000	35.30	10.4	56	20.7	QP	L1	FLO

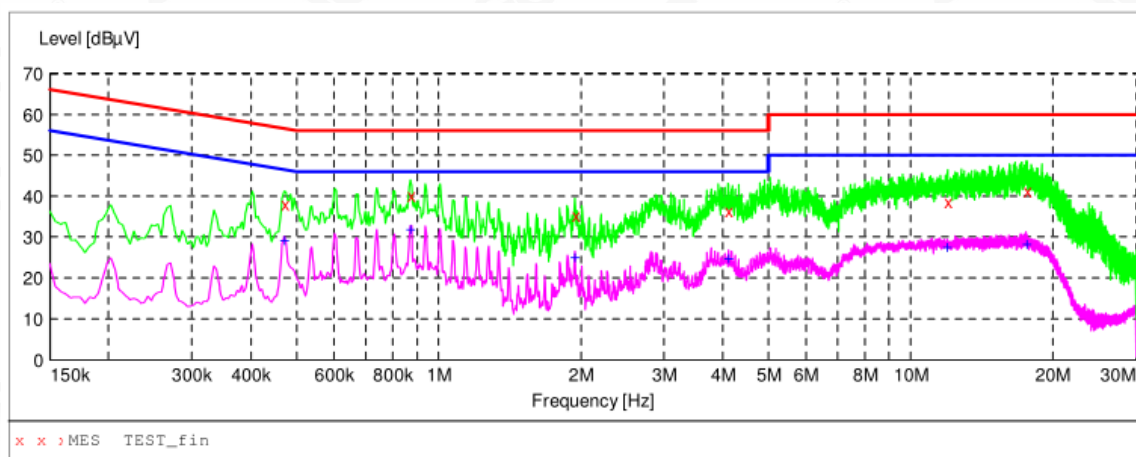
MEASUREMENT RESULT: "TEST_fin2"

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.202000	32.40	10.3	54	21.1	AV	L1	FLO
0.334000	29.60	10.2	49	19.8	AV	L1	FLO
0.470000	35.20	10.3	47	11.3	AV	L1	FLO
0.870000	34.70	10.4	46	11.3	AV	L1	FLO
1.006000	33.10	10.4	46	12.9	AV	L1	FLO
1.606000	27.80	10.4	46	18.2	AV	L1	FLO

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Line Conducted Emission Test Line 2-N

**MEASUREMENT RESULT: "TEST_fin"**

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.470000	38.10	10.3	57	18.4	QP	N	FLO
0.870000	40.20	10.4	56	15.8	QP	N	FLO
1.946000	35.30	10.4	56	20.7	QP	N	FLO
4.102000	36.50	10.4	56	19.5	QP	N	FLO
11.954000	38.70	10.8	60	21.3	QP	N	FLO
17.622000	41.30	11.0	60	18.7	QP	N	FLO

MEASUREMENT RESULT: "TEST_fin2"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.470000	29.70	10.3	47	16.8	AV	N	FLO
0.870000	32.40	10.4	46	13.6	AV	N	FLO
1.946000	25.50	10.4	46	20.5	AV	N	FLO
4.102000	25.30	10.4	46	20.7	AV	N	FLO
11.954000	28.10	10.8	50	21.9	AV	N	FLO
17.622000	28.90	11.0	50	21.1	AV	N	FLO

RESULT: PASS

Note: All the test modes had been tested, the mode 2 was the worst case. Only the data of the worst case would be record in this test report.

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

RADIATED EMISSION TEST SETUP BELOW 1GHZ



RADIATED EMISSION TEST SETUP ABOVE 1GHZ



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CONDUCTED EMISSION TEST SETUP

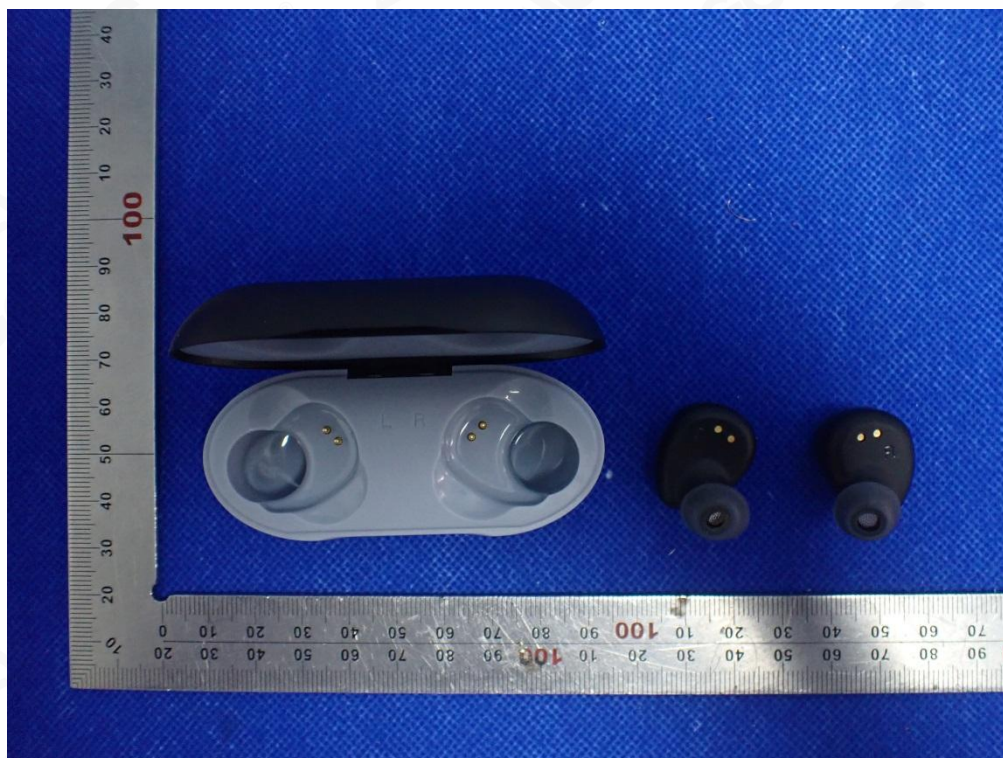


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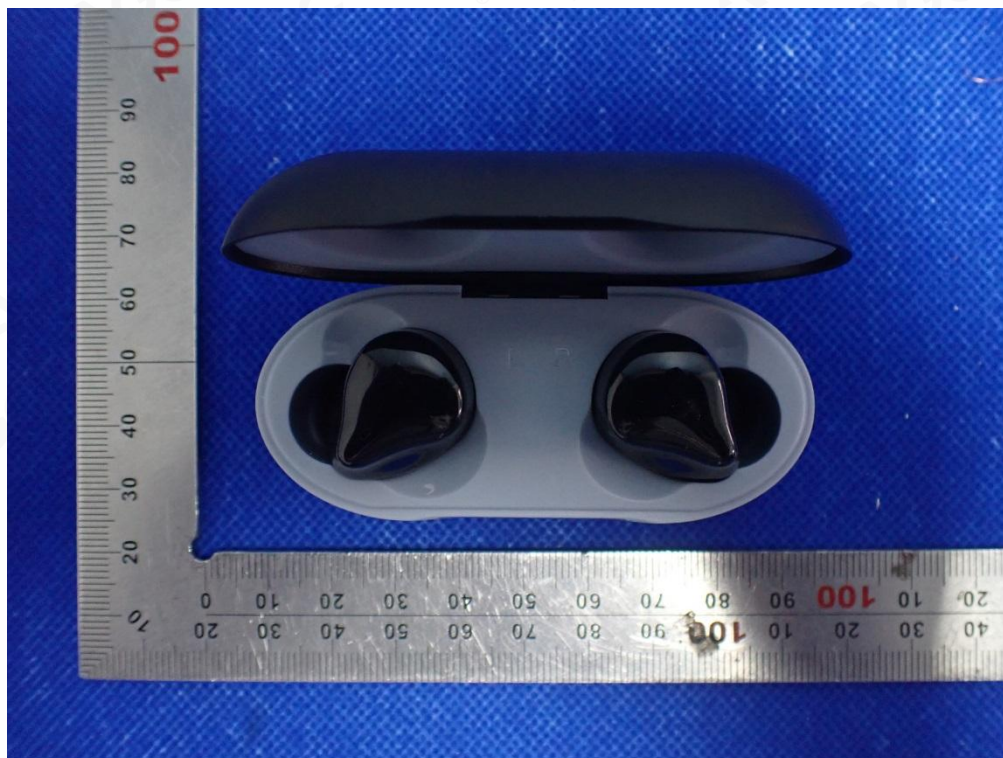
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APPENDIX B: PHOTOGRAPHS OF EUT
ALL VIEW-1 OF EUT



ALL VIEW-2 OF EUT



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