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Fig.94. Number of hopping frequencies: GFSK, Channel 0 - 39



Fig.95. Number of hopping frequencies: GFSK, Channel 40 - 78

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Fig.96. Number of hopping frequencies: $\pi/4$ DQPSK, Channel 0 - 39



Fig.97. Number of hopping frequencies: $\pi/4$ DQPSK, Channel 40 - 78

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Fig.98. Number of hopping frequencies: 8DPSK, Channel 0 - 39



Fig.99. Number of hopping frequencies: 8DPSK, Channel 40 - 78



A.10. AC Powerline Conducted Emission

Method of Measurement: See ANSI C63.10-clause 6.2

1. the one EUT cable configuration and arrangement and mode of operation that produced the emission with the highest amplitude relative to the limit is selected for the final measurement, while applying the appropriate modulating signal to the EUT.

2. If the EUT is relocated from an exploratory test site to a final test site, the highest emissions shall be remaximized at the final test location before final ac power-line conducted emission measurements are performed.

3. The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment in the system) is then performed for the full frequency range for which the EUT is being tested for compliance without further variation of the EUT arrangement, cable positions, or EUT mode of operation.

4. If the EUT is comprised of equipment units that have their own separate ac power connections, e.g., floor-standing equipment with independent power cords for each shelf that are able to connect directly to the ac power network, each current-carrying conductor of one unit is measured while the other units are connected to a second (or more) LISN(s). All units shall be separately measured. If a power strip is provided by the manufacturer, to supply all of the units making up the EUT, only the conductors in the power cord of the power strip shall be measured.

5. If the EUT uses a detachable antenna, these measurements shall be made with a suitable dummy load connected to the antenna output terminals; otherwise, the tests shall be made with the antenna connected and, if adjustable, fully extended. When measuring the ac conducted emissions from a device that operates between 150 kHz and 30 MHz a non-detachable antenna may be replaced with a dummy load for the measurements within the fundamental emission band of the transmitter, but only for those measurements.36 Record the six highest EUT emissions relative to the limit of each of the current-carrying conductors of the power cords of the equipment that comprises the EUT over the frequency range specified by the procuring or regulatory agency. Diagram or photograph the test setup that was used. See Clause 8 for full reporting requirements.

Test Condition

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit: Bluetooth (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dBµV)	Conclusion
0.15 to 0.5	66 to 56	
0.5 to 5	56	Р
5 to 30	60	
NOTE: The limit decreases linearly wit	h the logarithm of the frequency	in the range 0.15 MHz to
0.5 MHz.		



Bluetooth (Average Limit)

Frequency range (MHz)	Average Limit (dBµV)	Conclusion
0.15 to 0.5	56 to 46	
0.5 to 5	46	Р
5 to 30	50	
NOTE: The limit decreases linearly wit	h the logarithm of the frequency	in the range 0.15 MHz to
0.5 MHz.		

The measurement is made according to ANSI C63.10

Conclusion: PASS

Test graphs as below:



Traffic:Set.1



Final Result 1

Frequency	QuasiPeak	Meas. Time	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	(ms)	(kHz)			(dB)	(dB)	(dBµV)
0.510000	37.0	10000.0	9.000	On	L1	10.3	19.0	56.0
0.762000	37.6	10000.0	9.000	On	L1	10.4	18.4	56.0
1.401000	34.5	10000.0	9.000	On	L1	10.4	21.5	56.0
1.896000	37.2	10000.0	9.000	On	L1	10.4	18.8	56.0
2.980500	35.2	10000.0	9.000	On	L1	10.5	20.8	56.0
4.020000	33.7	10000.0	9.000	On	L1	10.5	22.3	56.0

Final Result 2

Frequency	Average	Meas. Time	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	(ms)	(kHz)			(dB)	(dB)	(dBµV)
0.393000	27.8	10000.0	9.000	On	Ν	10.3	20.2	48.0
0.523500	25.8	10000.0	9.000	On	L1	10.3	20.2	46.0
0.609000	26.8	10000.0	9.000	On	L1	10.4	19.2	46.0
0.757500	29.1	10000.0	9.000	On	L1	10.4	16.9	46.0
1.846500	27.3	10000.0	9.000	On	L1	10.4	18.7	46.0
2.980500	25.3	10000.0	9.000	On	L1	10.5	20.7	46.0





Idle:Set.1



Final Result 1

Frequency	QuasiPeak	Meas. Time	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	(ms)	(kHz)			(dB)	(dB)	(dBµV)
0.222000	36.0	10000.0	9.000	On	Ν	10.3	26.8	62.7
0.505500	38.3	10000.0	9.000	On	L1	10.3	17.7	56.0
0.820500	40.3	10000.0	9.000	On	L1	10.4	15.7	56.0
1.878000	37.1	10000.0	9.000	On	L1	10.4	18.9	56.0
2.917500	35.6	10000.0	9.000	On	L1	10.5	20.4	56.0
3.669000	34.7	10000.0	9.000	On	L1	10.5	21.3	56.0

Final Result 2

Frequency	Average	Meas. Time	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	(ms)	(kHz)			(dB)	(dB)	(dBµV)
0.222000	30.7	10000.0	9.000	On	Ν	10.3	22.0	52.7
0.388500	28.7	10000.0	9.000	On	Ν	10.3	19.4	48.1
0.514500	27.3	10000.0	9.000	On	L1	10.3	18.7	46.0
0.753000	29.3	10000.0	9.000	On	L1	10.4	16.7	46.0
1.261500	28.9	10000.0	9.000	On	L1	10.4	17.1	46.0
1.869000	27.8	10000.0	9.000	On	L1	10.4	18.2	46.0



ANNEX E: Accreditation Certificate



END OF REPORT