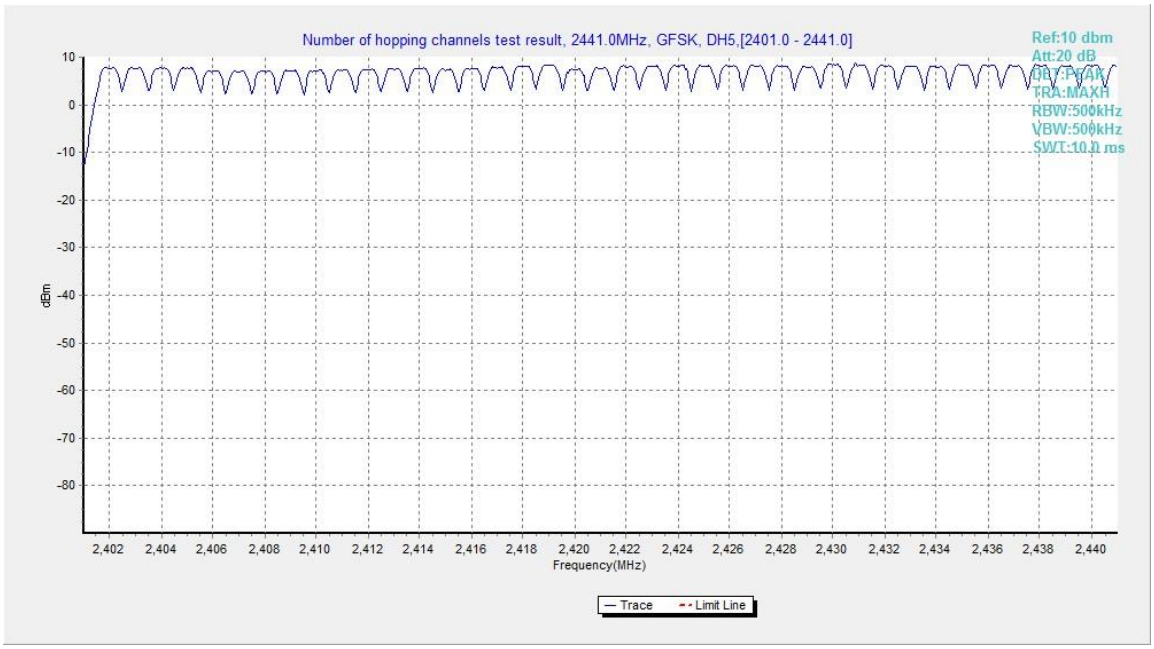


Fig.94. Number of hopping frequencies: GFSK, Channel 0 - 39

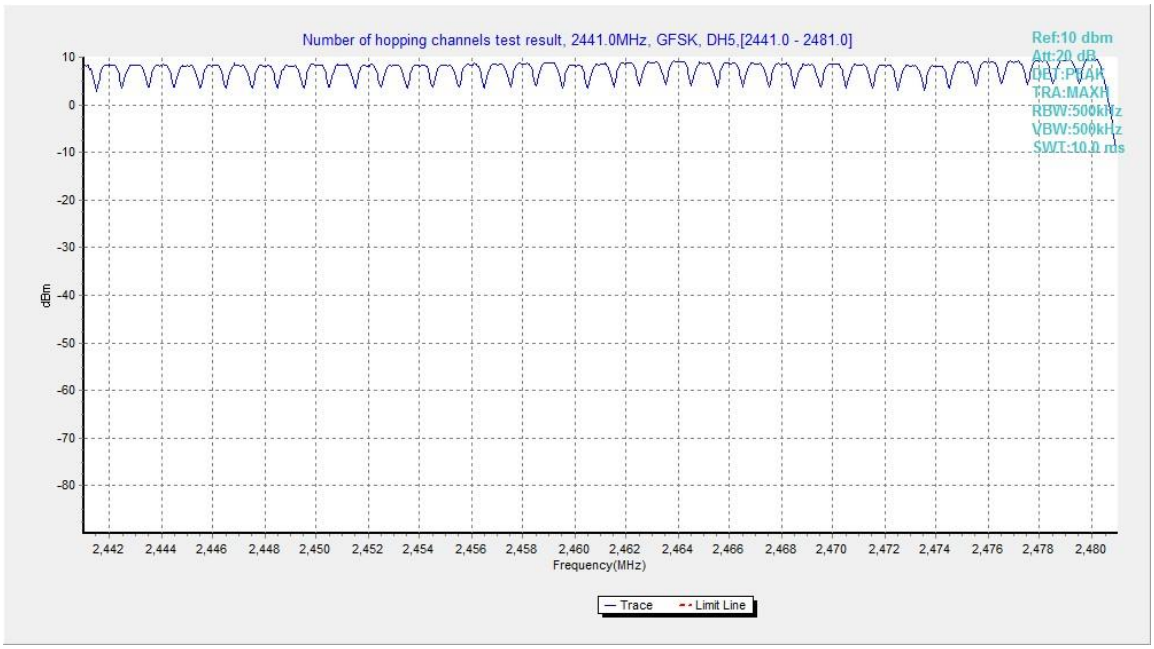


Fig.95. Number of hopping frequencies: GFSK, Channel 40 - 78

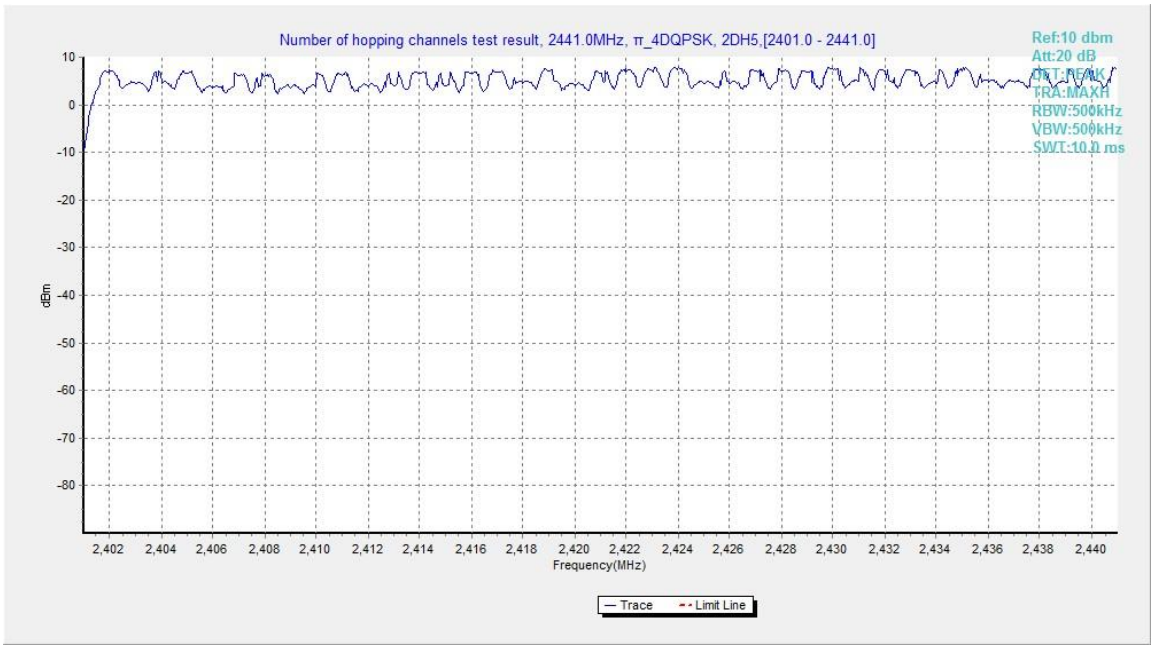


Fig.96. Number of hopping frequencies: π/4 DQPSK, Channel 0 - 39

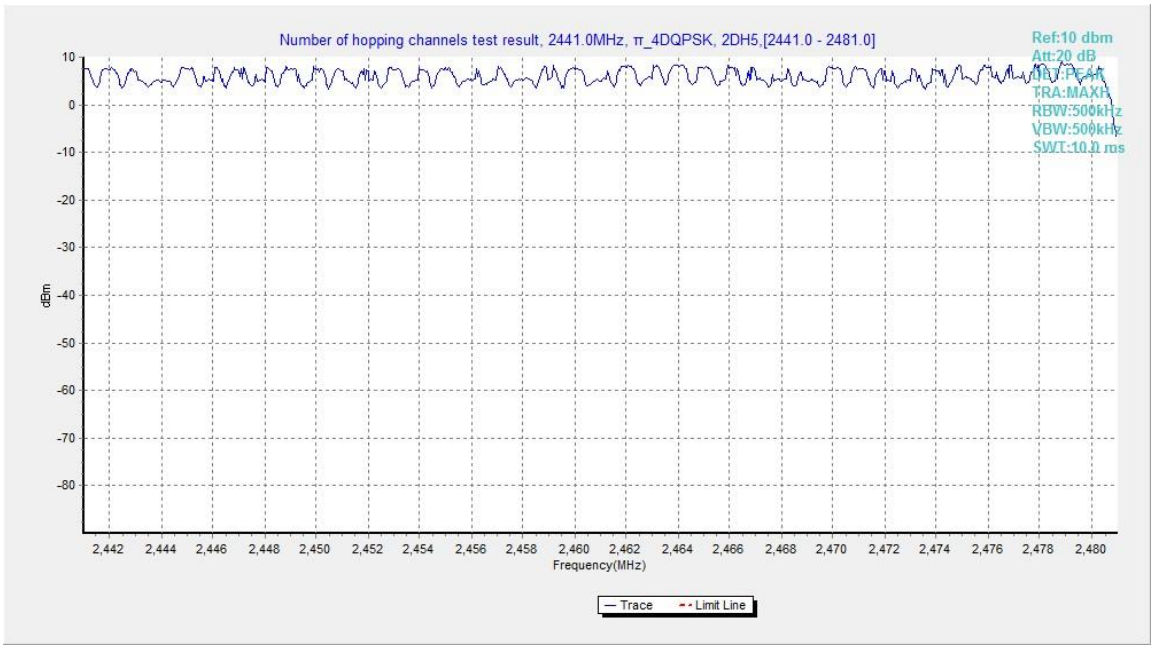


Fig.97. Number of hopping frequencies: π/4 DQPSK, Channel 40 - 78

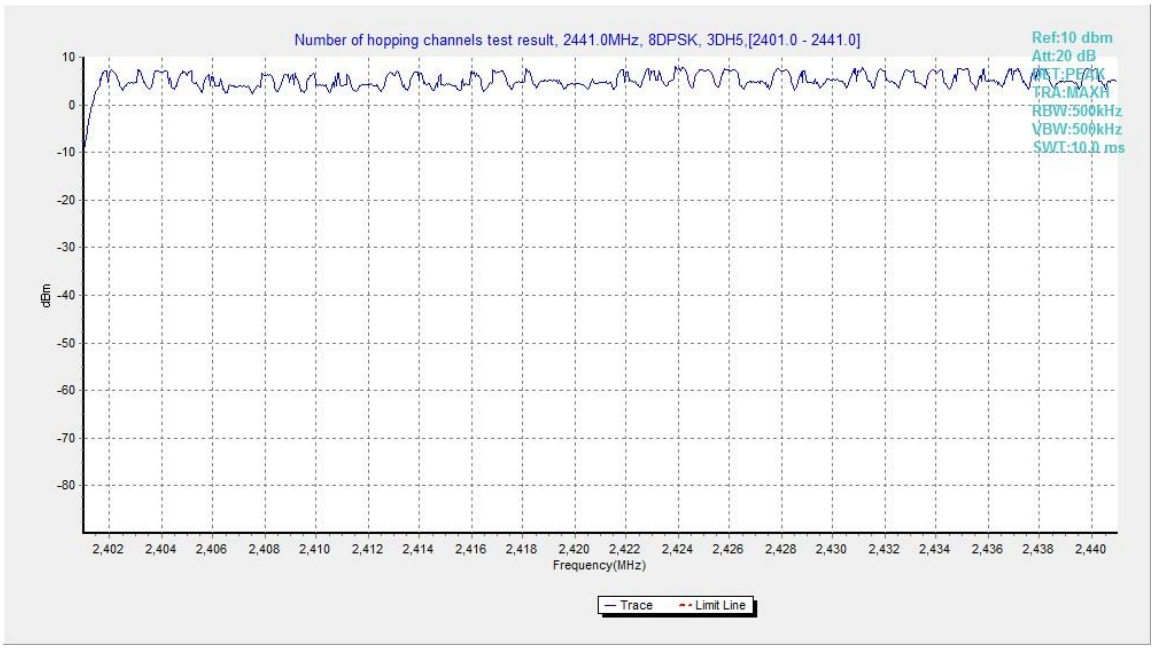


Fig.98. Number of hopping frequencies: 8DPSK, Channel 0 - 39

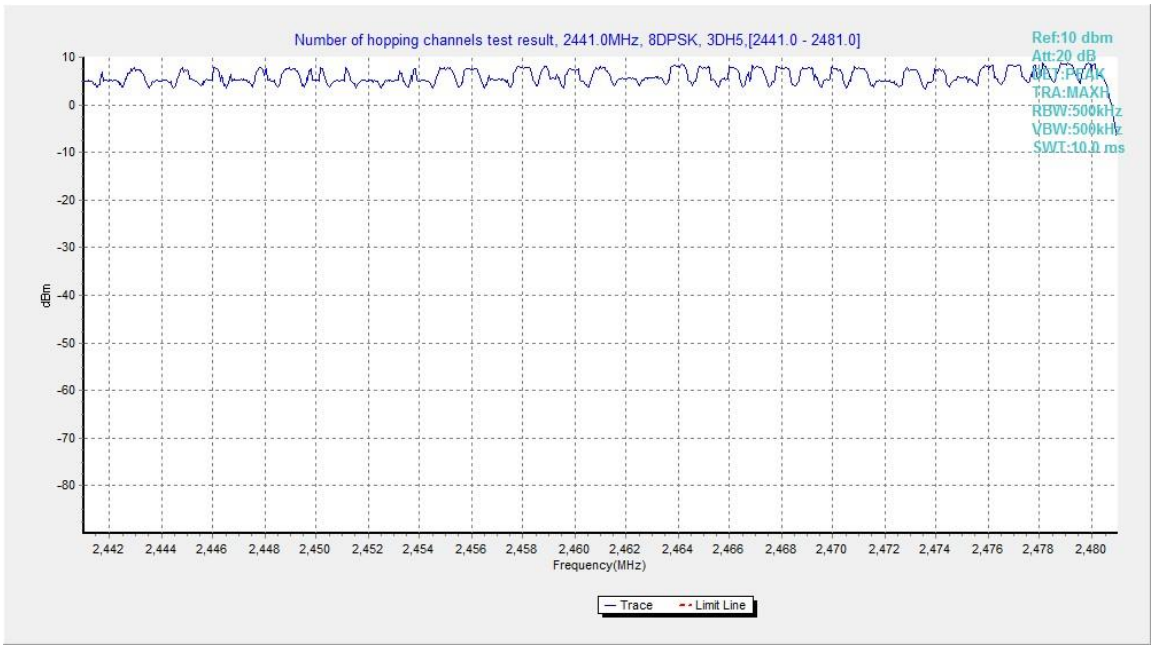


Fig.99. Number of hopping frequencies: 8DPSK, Channel 40 - 78

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	P
0.5 to 5	56	
5 to 30	60	
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.		

Bluetooth (Average Limit)

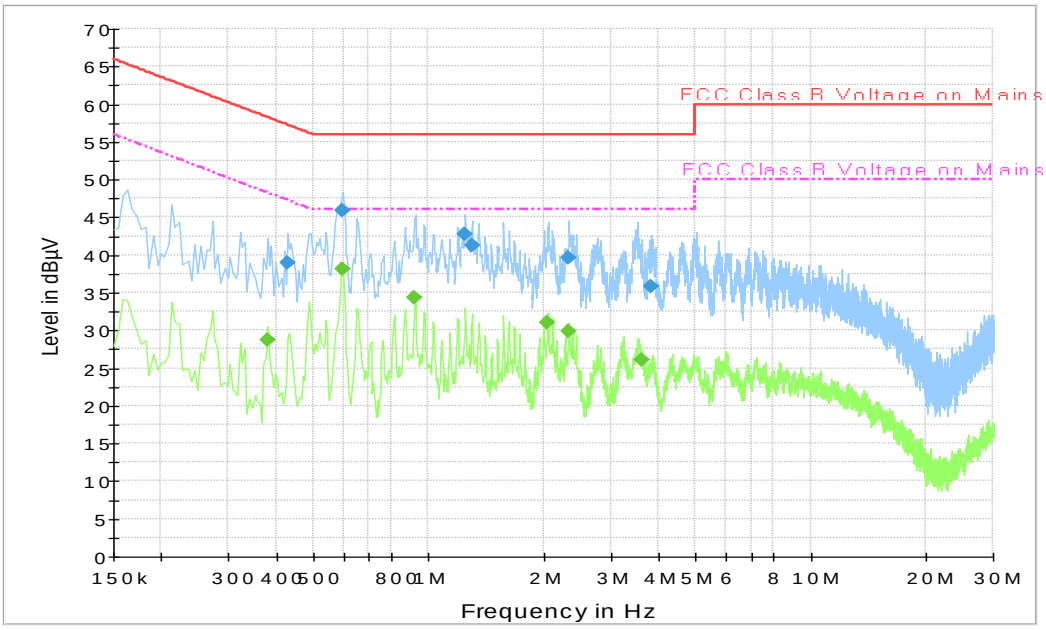
Frequency range (MHz)	Average Limit (dBμV)	Conclusion
0.15 to 0.5	56 to 46	P
0.5 to 5	46	
5 to 30	50	
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.		

The measurement is made according to ANSI C63.10

Conclusion: PASS

Test graphs as below:

Traffic Set1:



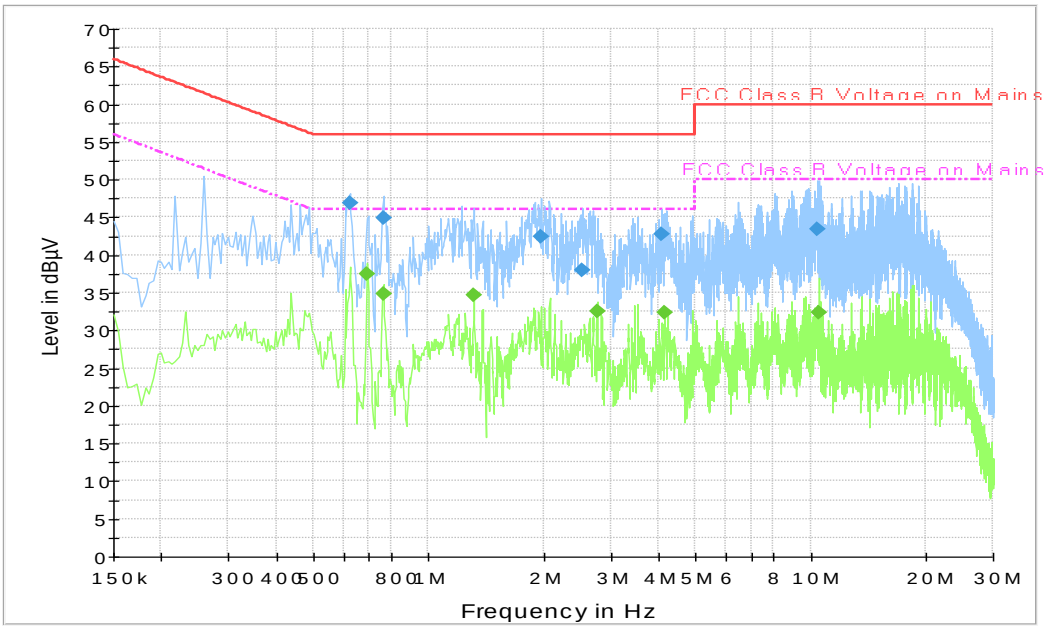
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.429000	38.9	2000.0	9.000	On	L1	19.9	18.4	57.3
0.595500	45.9	2000.0	9.000	On	L1	19.8	10.1	56.0
1.248000	42.8	2000.0	9.000	On	L1	19.6	13.2	56.0
1.297500	41.2	2000.0	9.000	On	L1	19.6	14.8	56.0
2.328000	39.6	2000.0	9.000	On	L1	19.7	16.4	56.0
3.813000	35.8	2000.0	9.000	On	L1	19.6	20.2	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.379500	28.8	2000.0	9.000	On	L1	19.8	19.5	48.3
0.595500	38.1	2000.0	9.000	On	L1	19.8	7.9	46.0
0.919500	34.4	2000.0	9.000	On	L1	19.7	11.6	46.0
2.053500	31.0	2000.0	9.000	On	L1	19.7	15.0	46.0
2.328000	29.9	2000.0	9.000	On	L1	19.7	16.1	46.0
3.606000	26.1	2000.0	9.000	On	L1	19.6	19.9	46.0

Traffic Set2:



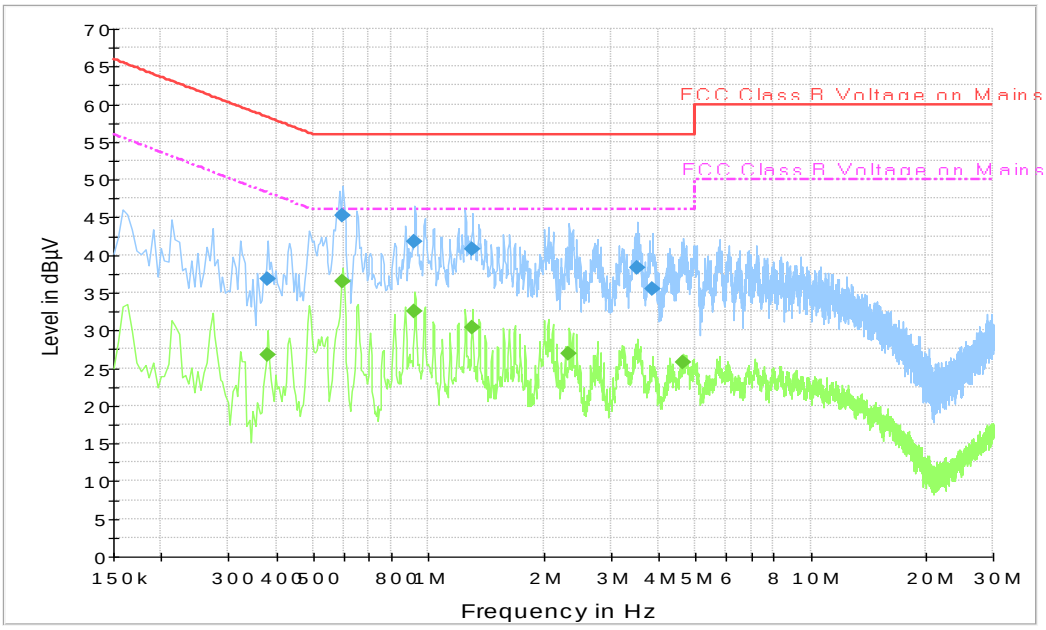
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.622500	46.9	2000.0	9.000	On	L1	19.8	9.1	56.0
0.762000	44.9	2000.0	9.000	On	L1	19.7	11.1	56.0
1.972500	42.5	2000.0	9.000	On	L1	19.7	13.5	56.0
2.530500	38.0	2000.0	9.000	On	L1	19.7	18.0	56.0
4.078500	42.8	2000.0	9.000	On	L1	19.6	13.2	56.0
10.437000	43.4	2000.0	9.000	On	L1	19.8	16.6	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.690000	37.4	2000.0	9.000	On	N	19.9	8.6	46.0
0.762000	34.9	2000.0	9.000	On	L1	19.7	11.1	46.0
1.315500	34.6	2000.0	9.000	On	L1	19.6	11.4	46.0
2.760000	32.5	2000.0	9.000	On	N	19.6	13.5	46.0
4.150500	32.3	2000.0	9.000	On	L1	19.6	13.7	46.0
10.513500	32.4	2000.0	9.000	On	L1	19.8	17.6	50.0

Idle Set1:



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.379500	36.8	2000.0	9.000	On	L1	19.8	21.5	58.3
0.595500	45.3	2000.0	9.000	On	L1	19.8	10.7	56.0
0.919500	41.8	2000.0	9.000	On	L1	19.7	14.2	56.0
1.302000	40.7	2000.0	9.000	On	L1	19.6	15.3	56.0
3.520500	38.4	2000.0	9.000	On	L1	19.7	17.6	56.0
3.849000	35.5	2000.0	9.000	On	L1	19.6	20.5	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.379500	26.8	2000.0	9.000	On	L1	19.8	21.5	48.3
0.595500	36.5	2000.0	9.000	On	L1	19.8	9.5	46.0
0.919500	32.6	2000.0	9.000	On	L1	19.7	13.4	46.0
1.302000	30.4	2000.0	9.000	On	L1	19.6	15.6	46.0
2.332500	26.9	2000.0	9.000	On	L1	19.7	19.1	46.0
4.654500	25.8	2000.0	9.000	On	L1	19.6	20.2	46.0

ANNEX E: Accreditation Certificate

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 600118-0

Telecommunication Technology Labs, CAICT
Beijing
China

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Electromagnetic Compatibility & Telecommunications

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2016-09-29 through 2017-09-30
Effective Dates

For the National Voluntary Laboratory Accreditation Program

*****END OF REPORT*****