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TEST REPORT

EMI Test for FCC Certification of IML-C6400W Model

APPLICANT

Infomark Co., Ltd.

REPORT NO.

HCT-EM-2301-FC007-R1

DATE OF ISSUE

February 09, 2023

Tested by

Hyun-Jin Lim

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Page 1 of 66

F-TP22-03 (Rev. 04)

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TEST REPORT

EMI Test for
FCC Certification

REPORT NO.

HCT-EM-2301-FC007-R1

DATE OF ISSUE

February 09, 2023

FCC ID.

YCO-IML-C6400W

Applicant

Infomark Co., Ltd.

8F, 321, Hwangsaeul-ro, Bundang-gu, Seongnam-si,
Gyeonggi-do, 13590, KOREA

Product Name

LTE Mobile WiFi

Model Name

IML-C6400W

Date of Test

December 27, 2022 to January 14, 2023

Test Standard Used

FCC CFR 47 PART 15 Subpart B Class B
ANSI C63.4-2014

Test Results

Refer to the present document

Manufacturer

Infomark Co., Ltd.

The result shown in this test report refer only to the sample(s) tested unless otherwise stated.

This test results were applied only to the test methods required by the standard.

REVISION HISTORY

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	January 27, 2023	Initial Release
1	February 09, 2023	Revised the cover page

The above Test Report is not related to the accredited test result by (KS Q) ISO/IEC 17025 and KOLAS(Korea Laboratory Accreditation Scheme), which signed the ILAC-MRA. (KOLAS Accreditation No. KT197)

If this report is required to confirmation of authenticity, please contact to www.hct.co.kr



CONTENTS

1. GENERAL INFORMATION	5
1.1 Description of EUT	5
1.2 Tested System Details	6
1.3 Cable Description	7
1.4 Noise Suppression Parts on Cable (I/O Cable)	8
1.5 Test Facility	9
1.6 Calibration of Measuring Instrument	9
1.7 Measurement Uncertainty	9
2. DESCRIPTION OF TEST	10
2.1 Measurement of Conducted Emission	10
2.2 Measurement of Radiated Emission	11
2.3 Configuration of Tested System	13
3. OPERATION OF THE EUT	14
3.1 Conducted Emission	14
3.2 Radiated Emission	14
4. CONDUCTED EMISSION AND RADIATED EMISSION TEST SUMMARY	15
4.1 Conducted Emission	15
4.2 Radiated Emission Below 1 GHz	18
4.3 Radiated Emission Above 1 GHz	57
5. APPENDIX A. TEST SETUP PHOTO	66



1. GENERAL INFORMATION

1.1 Description of EUT

The EUT is LTE Mobile WiFi.

FCC ID	YCO-IML-C6400W
Model Name	IML-C6400W
Product Name	LTE Mobile WiFi
Frequency Range	826.5 MHz to 846.5 MHz (LTE Band 26 (5 MHz)) 829.0 MHz to 844.0 MHz (LTE Band 26 (10 MHz)) 831.5 MHz to 841.5 MHz (LTE Band 26 (15 MHz)) 816.5 MHz to 821.5 MHz (LTE Band 26 (5 MHz)) 819.0 MHz (LTE Band 26 (10 MHz)) 821.5 MHz (LTE Band 26 (15 MHz)) 2 412 MHz to 2 472 MHz (WLAN) 902.3 MHz to 927.8 MHz (LoRa (125 kHz))
Supply Voltage	Rated voltage: DC 5 V, 2 A Battery: DC 3.8 V, 3 300 mAh
Manufacturer	Infomark Co., Ltd.



1.2 Tested System Details

All equipment descriptions used in the tested system (including inserted cards) are:

Device Type	Model Name	Serial Number	Manufacturer
LTE Mobile WiFi	IML-C6400W	-	Infomark Co., Ltd.
Travel Adapter	EP-TA20KWK	R37J36617D3RT3	RFTECH THAI NGUYEN CO., Ltd
Notebook PC	HP ProBook 650 G1	5CG5520P9J	HP
Notebook PC Adapter	PPP012A-S	WBYGN0ALBZWY0Z	Acbel Electronic (Dong Guan) Co., Ltd
Gateway	DIR-806M	-	D-Link
Gateway Adapter	AMS1-0501200FK	-	D-Link
Serial Mouse	Serial 2 Button mouse	02031069	Radio Shack

NOTE. AD/DC Adapter is not enclosed with EUT.

AC/DC Adapter details.: Input: AC 100~240 V, 50/60 Hz, 0.5 A

Output: DC 5.0 V 2.0 A or DC 9.0 V, 1.67 A



1.3 Cable Description

[EUT(Only)]

Product Name	Port	Power Cord Shielded (Y/N)	I/O Cable Shielded (Y/N)	Length (m)
EUT	-	N	N	N/A

“(D)” Data cable, “(P)” Power cable

[EUT+TA]

Product Name	Port	Power Cord Shielded (Y/N)	I/O Cable Shielded (Y/N)	Length (m)
EUT	USB C type	Y	Y	(P) 1.0
Travel Adapter	AC IN	-	-	-

“(D)” Data cable, “(P)” Power cable

[EUT+PC]

Product Name	Port	Power Cord Shielded (Y/N)	I/O Cable Shielded (Y/N)	Length (m)
EUT	USB C type	Y	Y	(P,D) 1.0
Notebook PC	RJ 45	N	N	(D) 1.6
	Serial	N	N	(D) 1.8
	DC IN	N	N	(P) 1.8
Notebook PC Adapter	AC IN	N	N	(P) 1.5
Gateway	DC IN	N	N	(P) 1.8
Gateway Adapter	AC IN	N	N	(P) 1.5

1.4 Noise Suppression Parts on Cable (I/O Cable)

[EUT(Only)]

Product Name	Port	Ferrite Bead (Y/N)	Location	Metal Hood (Y/N)	Location
EUT	-	N	N/A	N	N/A

[EUT+TA]

Product Name	Port	Ferrite Bead (Y/N)	Location	Metal Hood (Y/N)	Location
EUT	USB C type	N	N/A	Y	Both End
Travel Adapter	AC IN	N	N/A	N	N/A

[EUT+PC]

Product Name	Port	Ferrite Bead (Y/N)	Location	Metal Hood (Y/N)	Location
EUT	USB C type	N	N/A	Y	Both End
Notebook PC	RJ 45	N	N/A	N	N/A
	Serial	N	N/A	Y	Notebook PC End
	DC IN	N	N/A	Y	Notebook PC End
	AC IN	N	N/A	N	N/A
Notebook PC Adapter	AC IN	N	N/A	N	N/A
Gateway	DC IN	N	N/A	Y	Gateway End
Gateway Adapter	AC IN	N	N/A	N	N/A



1.5 Test Facility

Test site is located at 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, South Korea. Those measurement facilities are constructed in conformance with the requirements of ANSI C63.4-2014. The Normalized site attenuations (30 MHz to 1 GHz) and Site validation (1 GHz to 18 GHz) were performed in accordance with the standard in ANSI C63.4-2014 and ANSI C63.4a-2017. Our laboratories are accredited and designated in accordance with the provisions of Radio Waves ACT and International Standard ISO/IEC 17025:2017. (National Radio Research Agency, CABID No. KR0032)

1.6 Calibration of Measuring Instrument

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturers recommendations for utilizing calibration equipment, which is traceable to recognized national standards. Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5:2017

1.7 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4-2014. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95 % level of confidence. The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Test Item	Test Site (Chamber)	Expanded Uncertainty
Conducted Emission	EMI Shield Room	1.9 dB
Radiated Emission (30 MHz to 1 GHz)	3 m Semi Anechoic Chamber #1	5.9 dB
Radiated Emission (1 GHz to 18 GHz)	3 m Semi Anechoic Chamber #1	4.8 dB

2. DESCRIPTION OF TEST

2.1 Measurement of Conducted Emission

The test procedure was in accordance with ANSI C63.4-2014, Clause 7.3

a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN).

If the EUT is connected to the PC through USB, the AC power-line adapter of the PC is directly connected to a line impedance stabilization network (LISN).

Other support units were connected to the power mains through another LISN.

The two LISNs provide $50\ \Omega$ / $50\ \mu\text{H}$ of coupling impedance for the measuring instrument.

b. Both conducted lines are measured in Quasi-Peak and Average mode, including the worst-case data points for each tested configuration.

c. The frequency range from 150 kHz to 30 MHz was searched.

Conducted Emission Limits

Frequency (MHz)	Resolution Bandwidth (kHz)	Class A		Class B	
		Quasi-Peak (dB μ V)	Average (dB μ V)	Quasi-Peak (dB μ V)	Average (dB μ V)
0.15 to 0.5	9	79	66	66 to 56*	56 to 46*
0.5 to 5	9	73	60	56	46
5 to 30	9	73	60	60	50

[*] Decreases with the logarithm of the frequency.

2.2 Measurement of Radiated Emission

The test procedure was in accordance with ANSI C63.4-2014, Clause 8.3

- The EUT was placed on the top of a turn table 0.8 meters above the ground at a semi-anechoic chamber.
The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 m away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from 1 m to 4 m above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 m to 4 m and the turn table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Quasi-Peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- The test-receiver system was set to Peak and Average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- 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. (1 GHz to 40 GHz)

Radiated Emission Limits

Frequency (MHz)	Class A			Class B		
	Antenna Distance (m)	Field Strength (μV/m)	Quasi-Peak (dBμV/m)	Antenna Distance (m)	Field Strength (μV/m)	Quasi-Peak (dBμV/m)
30 to 88	10	90	39.0	3	100	40.0
88 to 216	10	150	43.5	3	150	43.5
216 to 960	10	210	46.4	3	200	46.0
Above 960	10	300	49.5	3	500	54.0
Frequency (MHz)	Antenna Distance (m)	Class A		Class B		
		Peak (dBμV/m)	Average (dBμV/m)	Peak (dBμV/m)	Average (dBμV/m)	
Above 1 000	3	80	60	74	54	

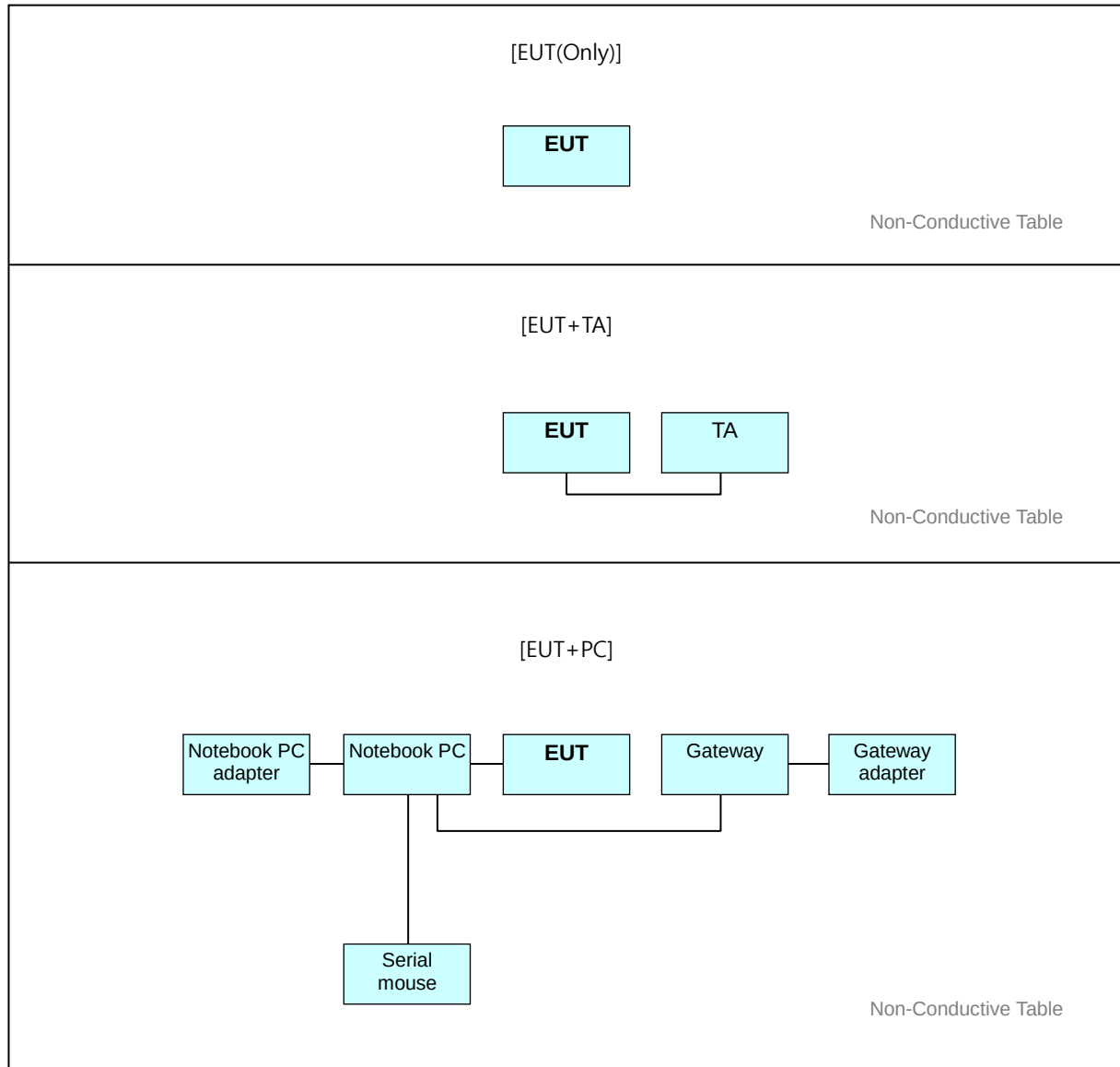


2.2.1 Frequency Range of Radiated Measurements

An unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a Radiated Emission limit is specified, up to the frequency shown in the following table

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 to 108	1 000
108 to 500	2 000
500 to 1 000	5 000
Above 1 000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

2.3 Configuration of Tested System



3. OPERATION OF THE EUT

During preliminary test and final tests, the following operating mode was investigated.

3.1 Conducted Emission

It was tested the following operating mode, after connecting all peripheral devices.

Operating Mode:

[EUT+TA]	LTE B26 LOW CH RX + Charging Mode
	LTE B26 MID CH RX + Charging Mode
	LTE B26 HIGH CH RX + Charging Mode
	LORA LOW CH RX + Charging Mode
	LORA MID CH RX + Charging Mode
	LORA HIGH CH RX + Charging Mode
	WiFi IDLE + Charging Mode
[EUT+PC]	Data Communication Mode

3.2 Radiated Emission

It was tested the following operating mode, after connecting all peripheral devices.

Operating Mode:

[EUT(Only)]	LTE B26 LOW CH RX Mode
	LTE B26 MID CH RX Mode
	LTE B26 HIGH CH RX Mode
	LORA LOW CH RX Mode
	LORA MID CH RX Mode
	LORA HIGH CH RX Mode
	WiFi IDLE Mode
[EUT+TA]	LTE B26 LOW CH RX + Charging Mode
	LTE B26 MID CH RX + Charging Mode
	LTE B26 HIGH CH RX + Charging Mode
	LORA LOW CH RX + Charging Mode
	LORA MID CH RX + Charging Mode
	LORA HIGH CH RX + Charging Mode
	WiFi IDLE + Charging Mode
[EUT+PC]	Data Communication Mode

4. CONDUCTED EMISSION AND RADIATED EMISSION TEST SUMMARY

4.1 Conducted Emission

4.1.1 Measuring instruments

Type	Model Name	Manufacturer	Serial Number	Calibration Cycle	Next Calibration Date
☒ EMI Test Receiver	ESR7	Rohde & Schwarz	101910	1 year	06.07.2023
☒ LISN	ENV216	Rohde & Schwarz	102245	1 year	08.23.2023
☒ LISN	ENV216	Rohde & Schwarz	100073	1 year	05.12.2023
☒ Software	EMC32	Rohde & Schwarz	-	-	-

4.1.2 Operating Condition

The test results of conducted emission at mains ports provide the following information:

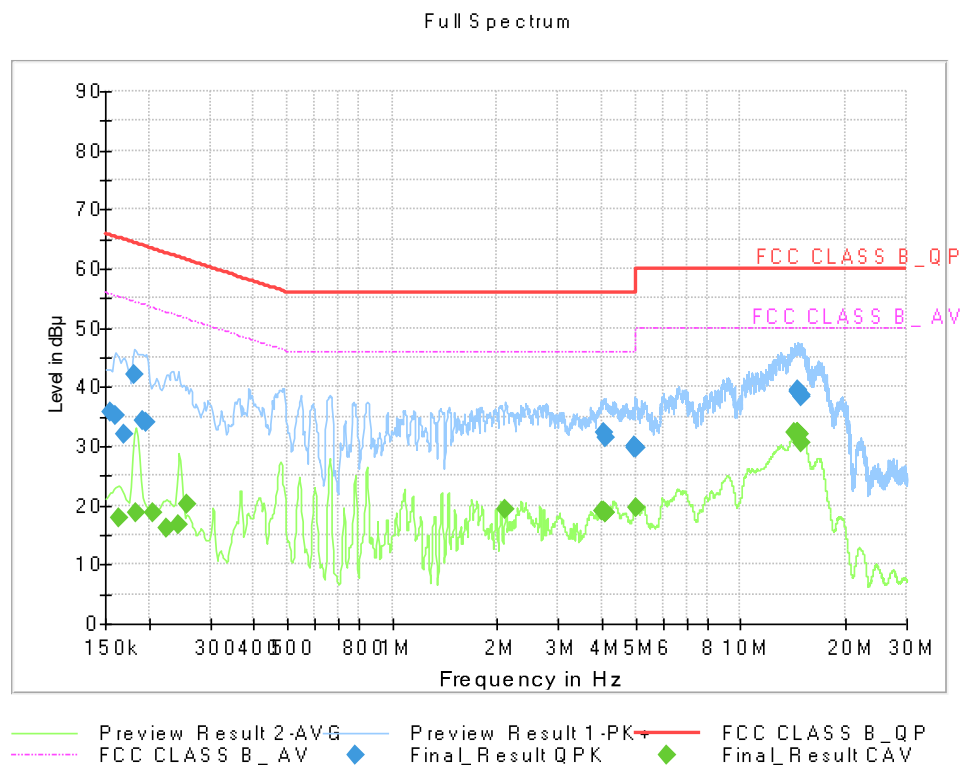
Test Standard Used	FCC CFR 47 PART 15 Subpart B Class B ANSI C63.4-2014
Frequency Range	0.15 MHz to 30 MHz
Detector	Quasi-Peak, CISPR-Average
Bandwidth	9 kHz (6 dB)
Test Site	EMI Shield Room
Temperature	max. 18.6 °C, min. 22.2 °C
Relative Humidity	max. 23.6 %, min. 30.6 %
Test Date	December 27, 2022 / January 09, 2023

- Calculation Formula:
1. Conductor L1 = Hot, Conductor N = Neutral
 2. Corr. = LISN Factor + Cable Loss
 3. QuasiPeak or CAverage= Receiver Reading + Corr.
 4. Margin = Limit – QuasiPeak or CAverage

4.1.3 Measuring Data

[EUT+TA]

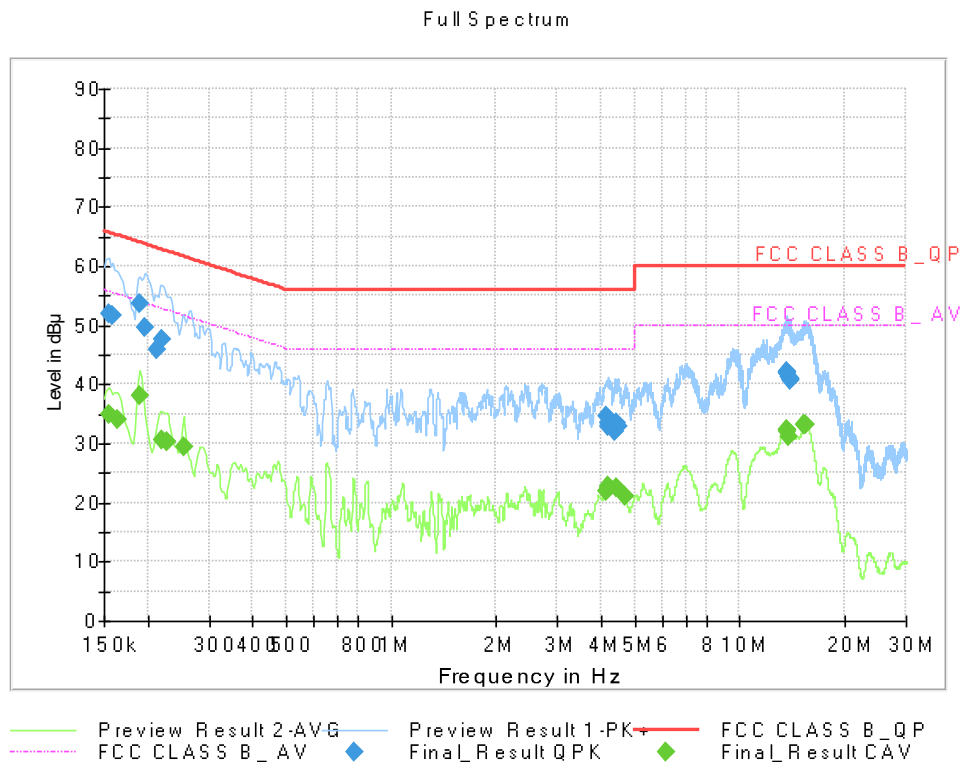
Figure 1: WiFi Idle + Charging Mode, Line (L1)



Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1545	35.90	65.75	29.85	9.000	L1	9.7
0.1613	35.25	65.40	30.15	9.000	L1	9.7
0.1703	32.12	64.95	32.83	9.000	L1	9.7
0.1815	42.04	64.42	22.38	9.000	L1	9.7
0.1928	34.26	63.92	29.66	9.000	L1	9.7
0.1973	34.15	63.73	29.58	9.000	L1	9.7
4.0550	32.37	56.00	23.63	9.000	L1	9.8
4.0978	31.30	56.00	24.70	9.000	L1	9.8
4.9753	29.79	56.00	26.21	9.000	L1	9.8
4.9798	29.98	56.00	26.02	9.000	L1	9.8
4.9843	29.86	56.00	26.14	9.000	L1	9.8
5.0158	29.59	60.00	30.41	9.000	L1	9.9
14.6098	39.23	60.00	20.77	9.000	L1	10.2
14.6255	39.11	60.00	20.89	9.000	L1	10.2
14.6705	39.45	60.00	20.55	9.000	L1	10.2
14.6795	39.25	60.00	20.75	9.000	L1	10.2
14.9270	38.30	60.00	21.70	9.000	L1	10.2
14.9338	38.60	60.00	21.40	9.000	L1	10.2

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1635	17.78	55.28	37.51	9.000	L1	9.7
0.1838	18.74	54.31	35.57	9.000	L1	9.7
0.2063	18.71	53.36	34.65	9.000	L1	9.7
0.2243	16.25	52.66	36.41	9.000	L1	9.7
0.2445	16.61	51.94	35.33	9.000	L1	9.7
0.2580	20.27	51.50	31.22	9.000	L1	9.7
2.1110	19.42	46.00	26.58	9.000	L1	9.8
3.9898	18.98	46.00	27.02	9.000	L1	9.8
4.0550	19.06	46.00	26.94	9.000	L1	9.8
4.0978	18.82	46.00	27.18	9.000	L1	9.8
4.1135	18.67	46.00	27.33	9.000	L1	9.8
4.9910	19.72	46.00	26.28	9.000	L1	9.8
14.2948	32.19	50.00	17.81	9.000	L1	10.2
14.6075	32.36	50.00	17.64	9.000	L1	10.2
14.6300	32.23	50.00	17.77	9.000	L1	10.2
14.6683	32.17	50.00	17.83	9.000	L1	10.2
14.6908	32.13	50.00	17.87	9.000	L1	10.2
15.0013	30.72	50.00	19.28	9.000	L1	10.2

Figure 2: WiFi Idle + Charging Mode, Line (N)

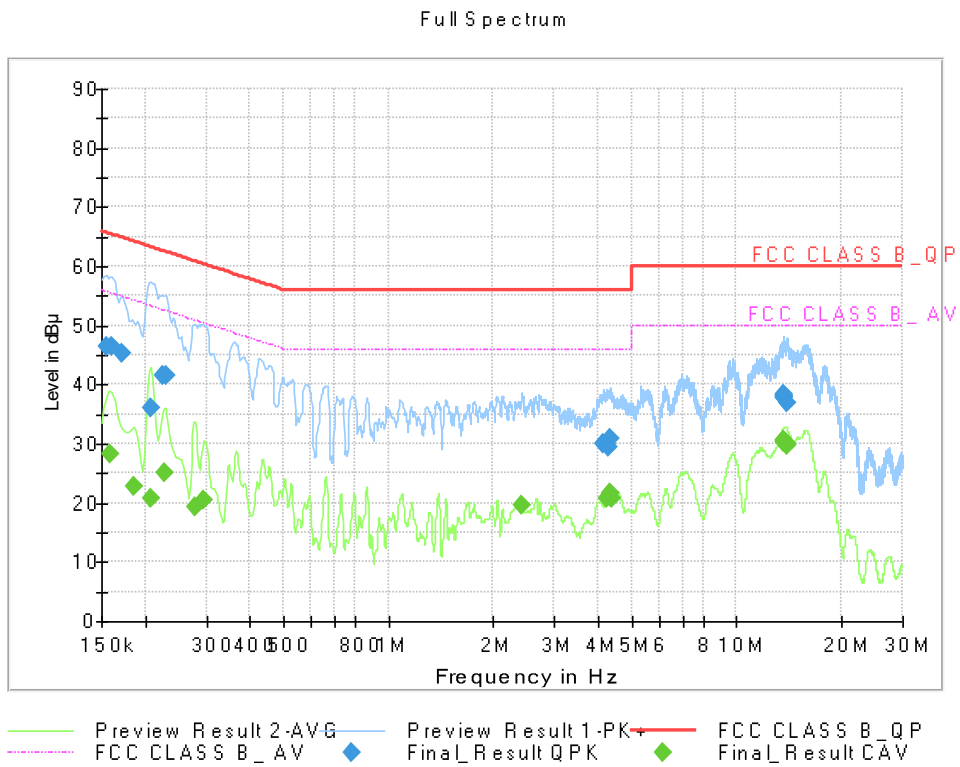




Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1545	52.06	65.75	13.69	9.000	N	9.6
0.1590	51.72	65.52	13.79	9.000	N	9.6
0.1905	53.76	64.02	10.25	9.000	N	9.6
0.1973	49.57	63.73	14.15	9.000	N	9.6
0.2130	45.95	63.09	17.14	9.000	N	9.6
0.2198	47.53	62.83	15.30	9.000	N	9.6
4.1630	34.50	56.00	21.50	9.000	N	9.8
4.1990	32.95	56.00	23.05	9.000	N	9.8
4.2035	33.49	56.00	22.51	9.000	N	9.8
4.3835	32.15	56.00	23.85	9.000	N	9.8
4.4533	33.43	56.00	22.57	9.000	N	9.8
4.4623	32.99	56.00	23.01	9.000	N	9.8
13.6198	41.80	60.00	18.20	9.000	N	10.2
13.6378	42.14	60.00	17.86	9.000	N	10.2
13.6873	42.08	60.00	17.92	9.000	N	10.2
13.8560	41.33	60.00	18.67	9.000	N	10.2
13.9078	41.04	60.00	18.96	9.000	N	10.2
13.9753	40.80	60.00	19.20	9.000	N	10.2

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1545	34.87	55.75	20.89	9.000	N	9.6
0.1635	34.07	55.28	21.21	9.000	N	9.6
0.1905	37.98	54.02	16.03	9.000	N	9.6
0.2198	30.58	52.83	22.25	9.000	N	9.6
0.2265	30.30	52.58	22.28	9.000	N	9.6
0.2535	29.32	51.64	22.32	9.000	N	9.6
4.1428	21.96	46.00	24.04	9.000	N	9.8
4.1518	21.98	46.00	24.02	9.000	N	9.8
4.1698	22.39	46.00	23.61	9.000	N	9.8
4.2058	22.75	46.00	23.25	9.000	N	9.8
4.4308	22.57	46.00	23.43	9.000	N	9.8
4.6738	21.09	46.00	24.91	9.000	N	9.9
13.5770	32.21	50.00	17.79	9.000	N	10.2
13.6063	32.25	50.00	17.75	9.000	N	10.2
13.6400	31.94	50.00	18.06	9.000	N	10.2
13.8538	31.01	50.00	18.99	9.000	N	10.2
15.3275	33.19	50.00	16.81	9.000	N	10.3
15.3635	33.09	50.00	16.91	9.000	N	10.3

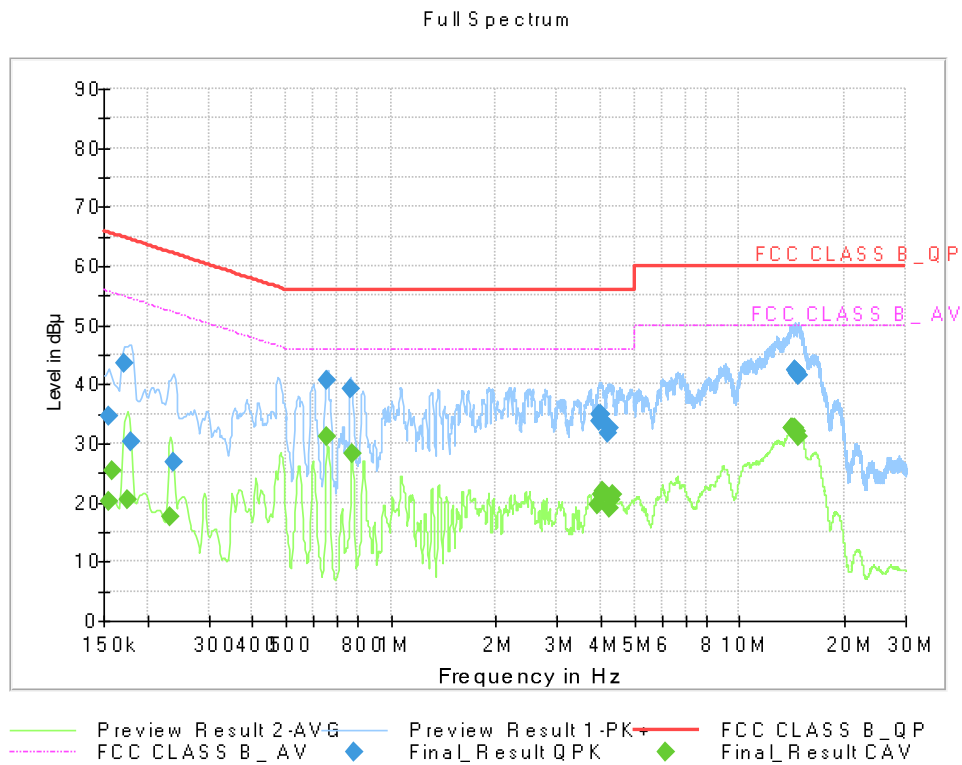
Figure 3: LTE B26 LOW CH RX + Charging, Line (L1)



Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1545	46.58	65.75	19.18	9.000	L1	9.7
0.1613	46.38	65.40	19.02	9.000	L1	9.7
0.1725	45.40	64.84	19.44	9.000	L1	9.7
0.2085	35.95	63.27	27.31	9.000	L1	9.7
0.2243	41.52	62.66	21.14	9.000	L1	9.7
0.2310	41.52	62.41	20.89	9.000	L1	9.7
4.1360	30.05	56.00	25.95	9.000	L1	9.8
4.1405	30.03	56.00	25.97	9.000	L1	9.8
4.2305	29.93	56.00	26.07	9.000	L1	9.8
4.2868	29.55	56.00	26.45	9.000	L1	9.8
4.3228	30.81	56.00	25.19	9.000	L1	9.8
4.3318	30.77	56.00	25.23	9.000	L1	9.8
13.5883	38.10	60.00	21.90	9.000	L1	10.2
13.6580	38.30	60.00	21.70	9.000	L1	10.2
13.6670	38.00	60.00	22.00	9.000	L1	10.2
13.6760	37.89	60.00	22.11	9.000	L1	10.2
13.6828	37.87	60.00	22.13	9.000	L1	10.2
13.9393	36.78	60.00	23.22	9.000	L1	10.2

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1590	28.35	55.52	27.17	9.000	L1	9.7
0.1860	22.82	54.21	31.40	9.000	L1	9.7
0.2085	20.83	53.27	32.44	9.000	L1	9.7
0.2265	25.20	52.58	27.37	9.000	L1	9.7
0.2783	19.37	50.87	31.50	9.000	L1	9.7
0.2963	20.51	50.35	29.84	9.000	L1	9.7
2.4238	19.67	46.00	26.33	9.000	L1	9.8
4.2598	20.91	46.00	25.09	9.000	L1	9.8
4.3205	21.57	46.00	24.43	9.000	L1	9.8
4.3273	21.55	46.00	24.45	9.000	L1	9.8
4.3453	21.07	46.00	24.93	9.000	L1	9.8
4.3723	20.71	46.00	25.29	9.000	L1	9.8
13.6310	30.55	50.00	19.45	9.000	L1	10.2
13.6603	30.46	50.00	19.54	9.000	L1	10.2
13.6828	30.26	50.00	19.74	9.000	L1	10.2
13.6985	30.18	50.00	19.82	9.000	L1	10.2
13.8943	29.68	50.00	20.32	9.000	L1	10.2
13.9550	30.01	50.00	19.99	9.000	L1	10.2

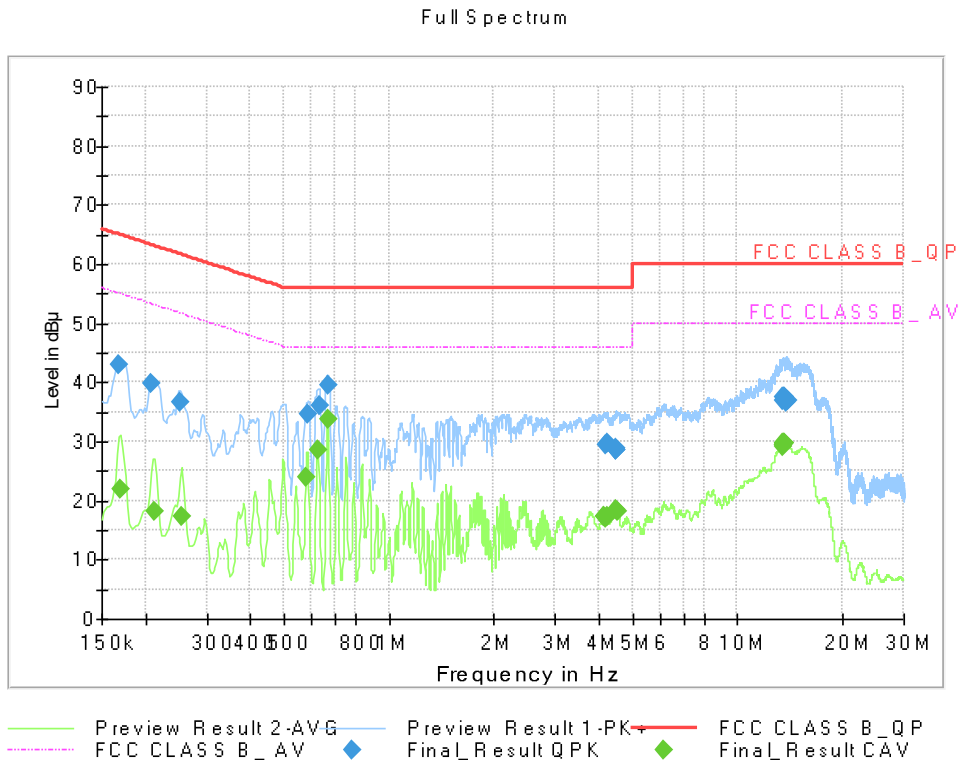
Figure 4: LTE B26 LOW CH RX Mode, Line (N)



Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1545	34.50	65.75	31.25	9.000	N	9.6
0.1725	43.66	64.84	21.18	9.000	N	9.6
0.1793	30.28	64.52	34.24	9.000	N	9.6
0.2378	26.80	62.17	35.38	9.000	N	9.6
0.6575	40.63	56.00	15.37	9.000	N	9.7
0.7655	39.18	56.00	16.82	9.000	N	9.7
3.9583	33.63	56.00	22.37	9.000	N	9.8
3.9785	34.77	56.00	21.23	9.000	N	9.8
3.9853	34.89	56.00	21.11	9.000	N	9.8
4.0168	34.10	56.00	21.90	9.000	N	9.8
4.2035	31.64	56.00	24.36	9.000	N	9.8
4.2193	32.51	56.00	23.49	9.000	N	9.8
14.3938	42.30	60.00	17.70	9.000	N	10.3
14.4883	42.33	60.00	17.67	9.000	N	10.3
14.5378	42.16	60.00	17.84	9.000	N	10.3
14.6773	41.96	60.00	18.04	9.000	N	10.3
14.7358	41.63	60.00	18.37	9.000	N	10.3
14.8078	41.40	60.00	18.60	9.000	N	10.3

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1545	20.30	55.75	35.45	9.000	N	9.6
0.1590	25.31	55.52	30.20	9.000	N	9.6
0.1748	20.34	54.73	34.39	9.000	N	9.6
0.2333	17.64	52.33	34.69	9.000	N	9.6
0.6575	31.28	46.00	14.72	9.000	N	9.7
0.7723	28.15	46.00	17.85	9.000	N	9.7
3.9335	19.70	46.00	26.30	9.000	N	9.8
3.9830	21.25	46.00	24.75	9.000	N	9.8
4.0415	22.00	46.00	24.00	9.000	N	9.8
4.2193	19.03	46.00	26.97	9.000	N	9.8
4.2845	20.48	46.00	25.52	9.000	N	9.8
4.3250	21.40	46.00	24.60	9.000	N	9.8
14.1238	32.50	50.00	17.50	9.000	N	10.2
14.1373	32.61	50.00	17.39	9.000	N	10.2
14.2205	32.60	50.00	17.40	9.000	N	10.2
14.4860	32.51	50.00	17.49	9.000	N	10.3
14.6143	32.06	50.00	17.94	9.000	N	10.3
14.7853	31.19	50.00	18.81	9.000	N	10.3

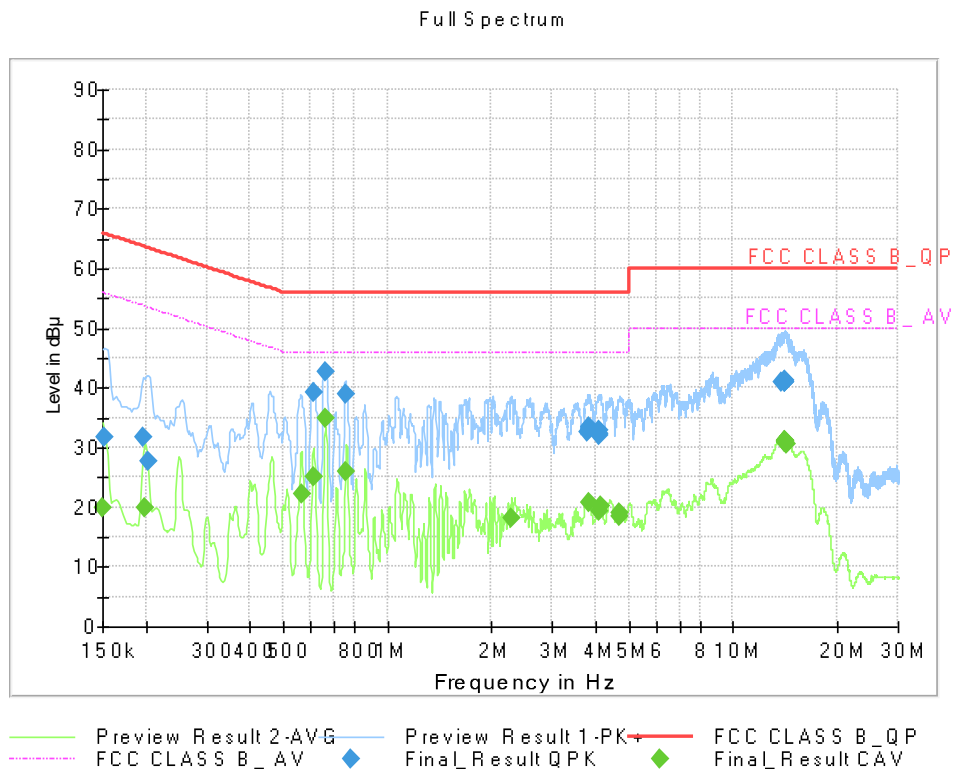
Figure 5: LTE B26 MID CH RX + Charging, Line (L1)



Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1680	43.07	65.06	21.98	9.000	L1	9.7
0.2085	39.76	63.27	23.51	9.000	L1	9.7
0.2513	36.76	61.72	24.96	9.000	L1	9.7
0.5878	34.58	56.00	21.42	9.000	L1	9.7
0.6305	35.98	56.00	20.02	9.000	L1	9.7
0.6665	39.48	56.00	16.52	9.000	L1	9.7
4.2080	29.50	56.00	26.50	9.000	L1	9.8
4.2215	29.86	56.00	26.14	9.000	L1	9.8
4.4803	28.50	56.00	27.50	9.000	L1	9.8
4.4848	28.51	56.00	27.49	9.000	L1	9.8
4.4938	28.66	56.00	27.34	9.000	L1	9.8
4.5028	28.80	56.00	27.20	9.000	L1	9.8
13.5275	37.05	60.00	22.95	9.000	L1	10.2
13.5680	37.43	60.00	22.57	9.000	L1	10.2
13.5860	37.59	60.00	22.41	9.000	L1	10.2
13.6108	37.46	60.00	22.54	9.000	L1	10.2
13.8673	36.72	60.00	23.29	9.000	L1	10.2
13.8898	36.94	60.00	23.06	9.000	L1	10.2

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1703	21.87	54.95	33.08	9.000	L1	9.7
0.2130	18.09	53.09	35.00	9.000	L1	9.7
0.2535	17.18	51.64	34.46	9.000	L1	9.7
0.5810	23.94	46.00	22.06	9.000	L1	9.7
0.6238	28.51	46.00	17.49	9.000	L1	9.7
0.6665	33.73	46.00	12.27	9.000	L1	9.7
4.1248	17.40	46.00	28.60	9.000	L1	9.8
4.1653	17.19	46.00	28.81	9.000	L1	9.8
4.2080	17.05	46.00	28.95	9.000	L1	9.8
4.2238	17.40	46.00	28.60	9.000	L1	9.8
4.4893	18.54	46.00	27.46	9.000	L1	9.8
4.5163	18.19	46.00	27.81	9.000	L1	9.8
13.4330	29.14	50.00	20.86	9.000	L1	10.1
13.5275	29.51	50.00	20.49	9.000	L1	10.2
13.5590	29.55	50.00	20.45	9.000	L1	10.2
13.5703	29.65	50.00	20.35	9.000	L1	10.2
13.5793	29.66	50.00	20.34	9.000	L1	10.2
13.6018	29.66	50.00	20.34	9.000	L1	10.2

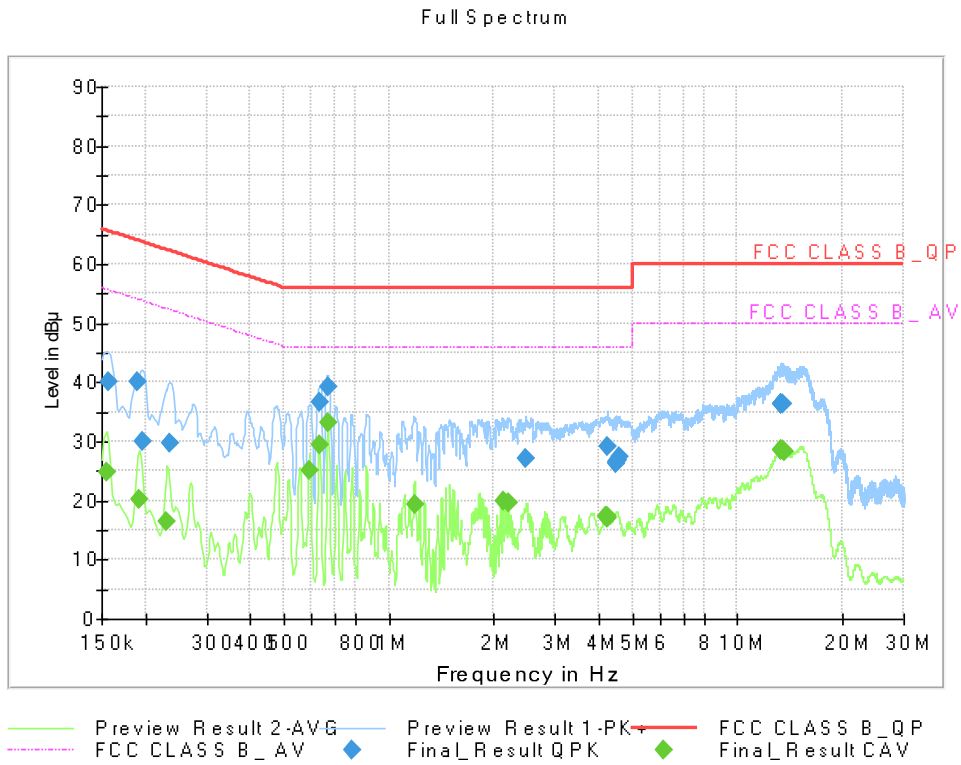
Figure 6: LTE B26 MID CH RX + Charging, Line (N)



Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1523	31.84	65.88	34.04	9.000	N	9.6
0.1973	31.66	63.73	32.06	9.000	N	9.6
0.2040	27.71	63.45	35.73	9.000	N	9.6
0.6125	39.35	56.00	16.65	9.000	N	9.7
0.6620	42.57	56.00	13.43	9.000	N	9.7
0.7543	38.88	56.00	17.12	9.000	N	9.7
3.8008	32.56	56.00	23.44	9.000	N	9.8
3.8345	33.35	56.00	22.65	9.000	N	9.8
3.8413	33.27	56.00	22.73	9.000	N	9.8
4.0820	31.92	56.00	24.08	9.000	N	9.8
4.0888	32.38	56.00	23.62	9.000	N	9.8
4.1000	32.90	56.00	23.10	9.000	N	9.8
13.8358	41.06	60.00	18.94	9.000	N	10.2
14.0923	41.17	60.00	18.83	9.000	N	10.2
14.1035	40.84	60.00	19.16	9.000	N	10.2
14.1103	40.98	60.00	19.02	9.000	N	10.2
14.1418	41.17	60.00	18.83	9.000	N	10.2
14.1575	41.02	60.00	18.98	9.000	N	10.2

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1500	19.80	56.00	36.20	9.000	N	9.6
0.1995	19.96	53.63	33.67	9.000	N	9.6
0.5630	22.31	46.00	23.69	9.000	N	9.7
0.6103	25.17	46.00	20.84	9.000	N	9.7
0.6620	35.03	46.00	10.97	9.000	N	9.7
0.7610	25.95	46.00	20.05	9.000	N	9.7
2.2798	18.05	46.00	27.95	9.000	N	9.8
3.8413	20.75	46.00	25.25	9.000	N	9.8
4.0978	19.38	46.00	26.62	9.000	N	9.8
4.1473	20.22	46.00	25.78	9.000	N	9.8
4.6918	18.90	46.00	27.10	9.000	N	9.9
4.7098	18.36	46.00	27.64	9.000	N	9.9
14.0540	31.26	50.00	18.74	9.000	N	10.2
14.0968	31.07	50.00	18.93	9.000	N	10.2
14.1350	30.99	50.00	19.01	9.000	N	10.2
14.1620	31.05	50.00	18.95	9.000	N	10.2
14.1845	30.80	50.00	19.20	9.000	N	10.2
14.2565	30.57	50.00	19.43	9.000	N	10.3

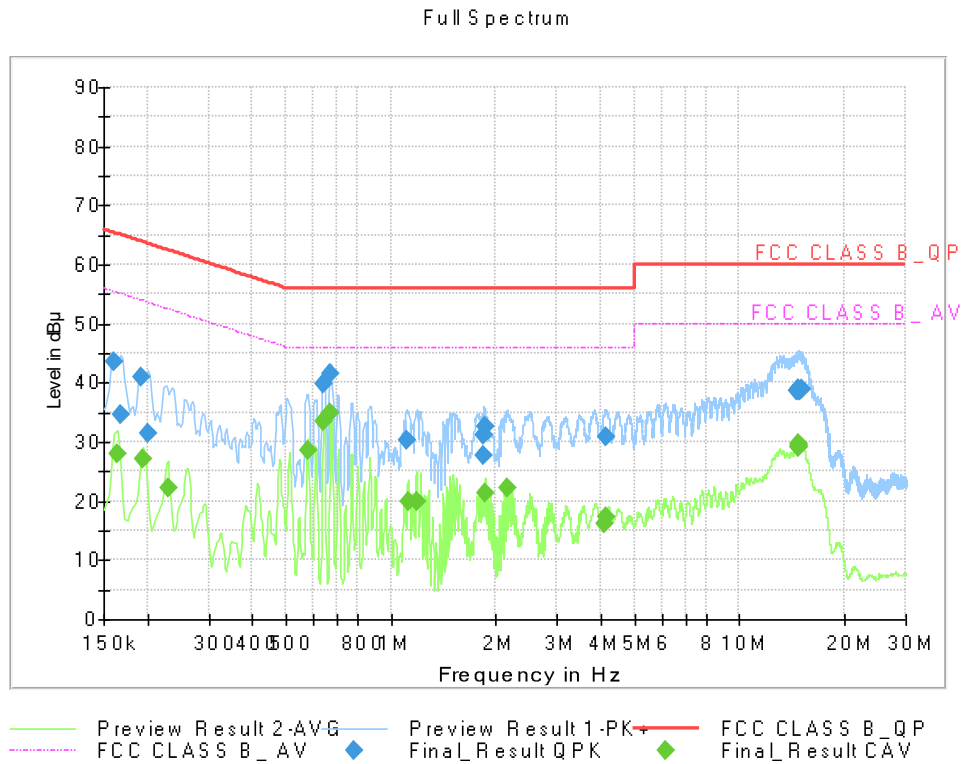
Figure 7: LTE B26 HIGH CH RX + Charging, Line (L1)



Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1568	40.21	65.63	25.42	9.000	L1	9.7
0.1905	40.16	64.02	23.85	9.000	L1	9.7
0.1973	29.88	63.73	33.84	9.000	L1	9.7
0.2355	29.75	62.25	32.51	9.000	L1	9.7
0.6350	36.67	56.00	19.33	9.000	L1	9.7
0.6665	39.36	56.00	16.64	9.000	L1	9.7
2.4710	27.08	56.00	28.92	9.000	L1	9.8
4.2440	29.00	56.00	27.00	9.000	L1	9.8
4.4893	26.62	56.00	29.38	9.000	L1	9.8
4.5005	26.31	56.00	29.69	9.000	L1	9.8
4.5095	26.68	56.00	29.32	9.000	L1	9.8
4.5590	27.37	56.00	28.63	9.000	L1	9.8
13.3610	36.22	60.00	23.78	9.000	L1	10.1
13.3880	36.25	60.00	23.75	9.000	L1	10.1
13.3925	36.31	60.00	23.69	9.000	L1	10.1
13.4015	36.32	60.00	23.68	9.000	L1	10.1
13.4128	36.22	60.00	23.78	9.000	L1	10.1
13.4398	36.41	60.00	23.59	9.000	L1	10.2

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1545	24.68	55.75	31.08	9.000	L1	9.7
0.1928	20.16	53.92	33.76	9.000	L1	9.7
0.2310	16.42	52.41	35.99	9.000	L1	9.7
0.5923	25.16	46.00	20.84	9.000	L1	9.7
0.6305	29.36	46.00	16.64	9.000	L1	9.7
0.6688	33.18	46.00	12.82	9.000	L1	9.7
1.1840	19.34	46.00	26.66	9.000	L1	9.7
2.1223	19.92	46.00	26.08	9.000	L1	9.8
2.2010	19.68	46.00	26.32	9.000	L1	9.8
4.1675	17.26	46.00	28.74	9.000	L1	9.8
4.2215	17.01	46.00	28.99	9.000	L1	9.8
4.2553	17.25	46.00	28.75	9.000	L1	9.8
13.3813	28.46	50.00	21.54	9.000	L1	10.1
13.4015	28.45	50.00	21.55	9.000	L1	10.1
13.4128	28.46	50.00	21.54	9.000	L1	10.1
13.4195	28.48	50.00	21.52	9.000	L1	10.1
13.4578	28.51	50.00	21.49	9.000	L1	10.2
13.7098	28.23	50.00	21.77	9.000	L1	10.2

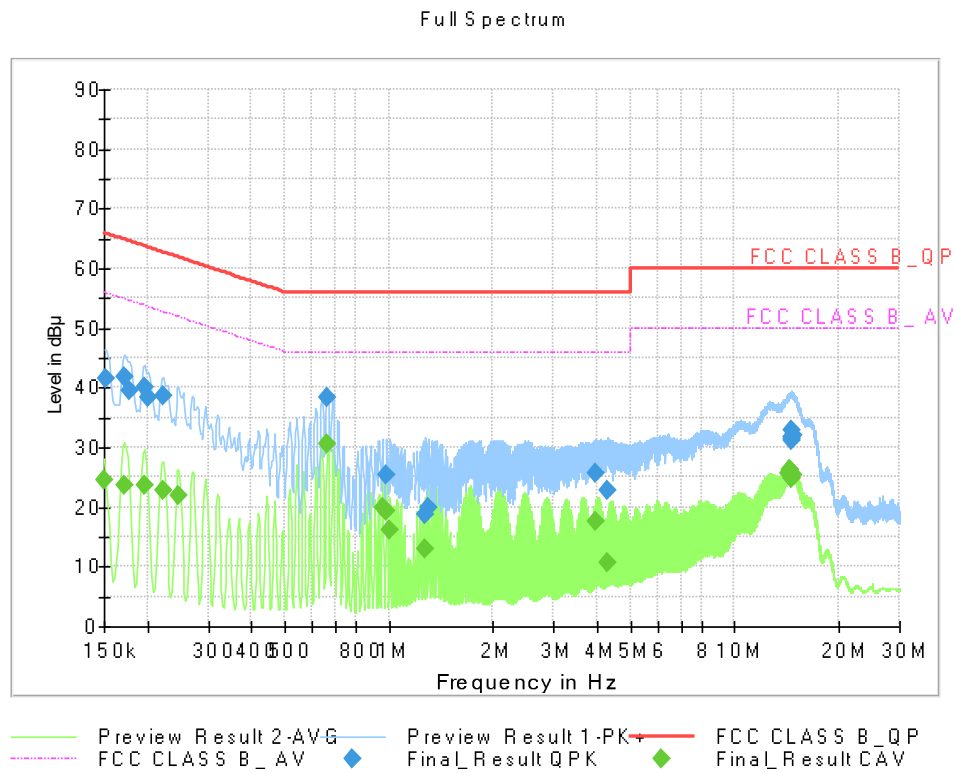
Figure 8: LTE B26 HIGH CH RX + Charging, Line (N)



Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1613	43.66	65.40	21.74	9.000	N	9.6
0.1680	34.49	65.06	30.57	9.000	N	9.6
0.1928	41.03	63.92	22.89	9.000	N	9.6
0.2018	31.45	63.54	32.09	9.000	N	9.6
0.6418	39.84	56.00	16.16	9.000	N	9.7
0.6710	41.45	56.00	14.55	9.000	N	9.7
1.1143	30.18	56.00	25.82	9.000	N	9.7
1.8455	27.78	56.00	28.22	9.000	N	9.7
1.8500	31.13	56.00	24.87	9.000	N	9.7
1.8568	32.67	56.00	23.33	9.000	N	9.7
1.8635	32.48	56.00	23.52	9.000	N	9.7
4.1225	30.97	56.00	25.03	9.000	N	9.8
14.6525	38.52	60.00	21.48	9.000	N	10.3
14.6863	38.65	60.00	21.35	9.000	N	10.3
14.7200	39.01	60.00	20.99	9.000	N	10.3
14.7718	39.00	60.00	21.00	9.000	N	10.3
14.9900	38.64	60.00	21.36	9.000	N	10.3
15.0238	38.80	60.00	21.20	9.000	N	10.3

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1635	28.00	55.28	27.28	9.000	N	9.6
0.1950	26.98	53.82	26.84	9.000	N	9.6
0.2288	22.24	52.50	30.25	9.000	N	9.6
0.5765	28.57	46.00	17.43	9.000	N	9.7
0.6418	33.32	46.00	12.68	9.000	N	9.7
0.6733	34.89	46.00	11.11	9.000	N	9.7
1.1188	19.99	46.00	26.01	9.000	N	9.7
1.1840	19.83	46.00	26.17	9.000	N	9.7
1.8590	21.36	46.00	24.64	9.000	N	9.7
2.1493	22.13	46.00	23.87	9.000	N	9.7
4.1045	16.28	46.00	29.72	9.000	N	9.8
4.1315	17.31	46.00	28.69	9.000	N	9.8
14.6863	29.09	50.00	20.91	9.000	N	10.3
14.6975	29.14	50.00	20.86	9.000	N	10.3
14.7110	29.18	50.00	20.82	9.000	N	10.3
14.7155	29.17	50.00	20.83	9.000	N	10.3
14.7763	29.57	50.00	20.43	9.000	N	10.3
14.8078	29.55	50.00	20.45	9.000	N	10.3

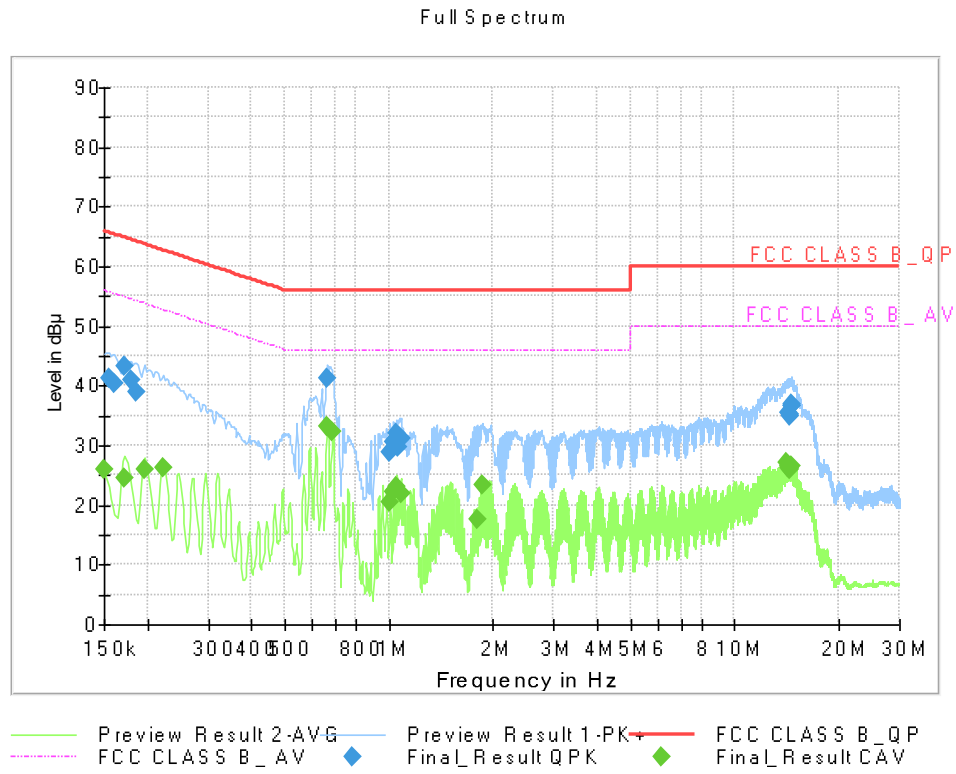
Figure 9: LORA LOW CH RX + Charging, Line (L1)



Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1523	41.56	65.88	24.32	9.000	L1	9.7
0.1725	41.80	64.84	23.03	9.000	L1	9.7
0.1770	39.60	64.63	25.02	9.000	L1	9.7
0.1973	40.16	63.73	23.56	9.000	L1	9.7
0.2018	38.41	63.54	25.13	9.000	L1	9.7
0.2220	38.51	62.74	24.23	9.000	L1	9.7
0.6643	38.50	56.00	17.51	9.000	L1	9.7
0.9838	25.46	56.00	30.54	9.000	L1	9.7
1.2785	18.78	56.00	37.22	9.000	L1	9.7
1.3010	20.03	56.00	35.97	9.000	L1	9.7
3.9560	25.81	56.00	30.19	9.000	L1	9.8
4.2755	22.92	56.00	33.08	9.000	L1	9.8
14.5468	32.79	60.00	27.21	9.000	L1	10.2
14.6323	31.57	60.00	28.43	9.000	L1	10.2
14.6593	31.75	60.00	28.25	9.000	L1	10.2
14.6750	31.12	60.00	28.88	9.000	L1	10.2
14.6840	31.67	60.00	28.33	9.000	L1	10.2
14.7425	31.98	60.00	28.02	9.000	L1	10.2

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1500	24.39	56.00	31.61	9.000	L1	9.7
0.1725	23.53	54.84	31.31	9.000	L1	9.7
0.1973	23.79	53.73	29.93	9.000	L1	9.7
0.2220	22.73	52.74	30.02	9.000	L1	9.7
0.2468	21.98	51.87	29.88	9.000	L1	9.7
0.6643	30.51	46.00	15.49	9.000	L1	9.7
0.9590	19.94	46.00	26.06	9.000	L1	9.7
0.9838	19.23	46.00	26.77	9.000	L1	9.7
1.0085	16.19	46.00	29.81	9.000	L1	9.7
1.2785	12.93	46.00	33.07	9.000	L1	9.7
3.9560	17.62	46.00	28.38	9.000	L1	9.8
4.2755	10.76	46.00	35.24	9.000	L1	9.8
14.3488	25.81	50.00	24.19	9.000	L1	10.2
14.3960	26.13	50.00	23.87	9.000	L1	10.2
14.4208	26.37	50.00	23.63	9.000	L1	10.2
14.6435	24.78	50.00	25.22	9.000	L1	10.2
14.6683	24.84	50.00	25.16	9.000	L1	10.2
14.6908	25.29	50.00	24.71	9.000	L1	10.2

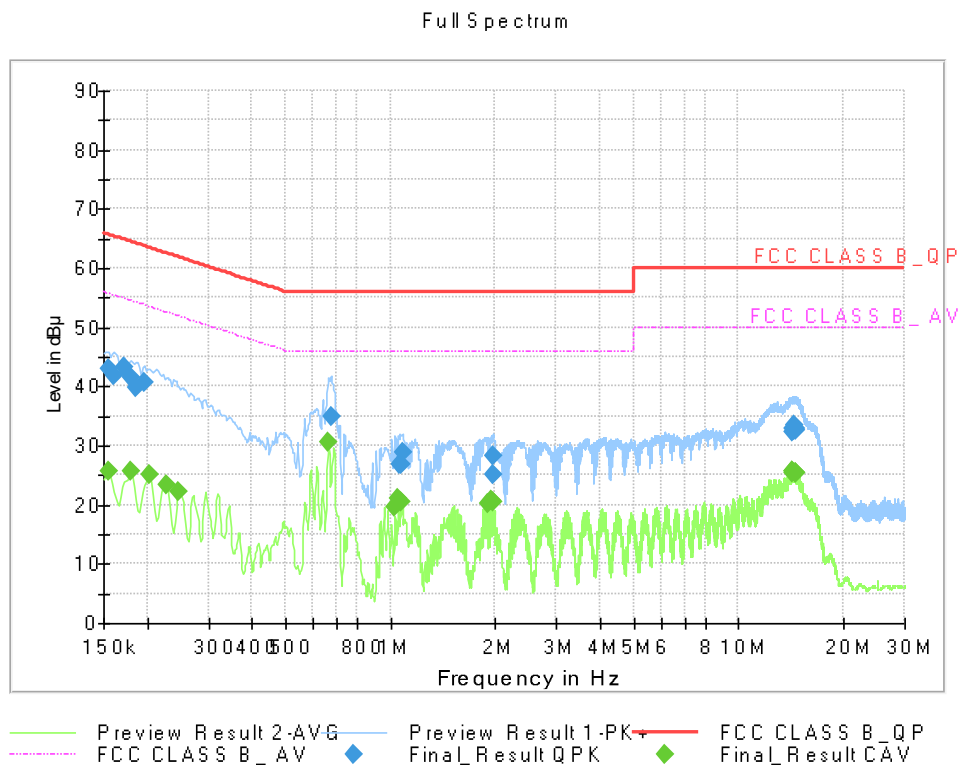
Figure 10: LORA LOW CH RX + Charging, Line (N)



Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1545	41.11	65.75	24.64	9.000	N	9.6
0.1613	40.45	65.40	24.95	9.000	N	9.6
0.1725	43.32	64.84	21.52	9.000	N	9.6
0.1793	41.01	64.52	23.51	9.000	N	9.6
0.1860	39.05	64.21	25.17	9.000	N	9.6
0.6643	41.21	56.00	14.79	9.000	N	9.7
1.0063	28.83	56.00	27.17	9.000	N	9.7
1.0310	30.44	56.00	25.56	9.000	N	9.7
1.0558	32.13	56.00	23.87	9.000	N	9.7
1.0670	29.60	56.00	26.40	9.000	N	9.7
1.0715	30.98	56.00	25.02	9.000	N	9.7
1.0805	31.12	56.00	24.88	9.000	N	9.7
14.3218	35.45	60.00	24.55	9.000	N	10.3
14.3735	35.02	60.00	24.98	9.000	N	10.3
14.3960	35.09	60.00	24.91	9.000	N	10.3
14.5625	36.88	60.00	23.12	9.000	N	10.3
14.5850	36.58	60.00	23.42	9.000	N	10.3
14.6120	36.59	60.00	23.41	9.000	N	10.3

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1500	25.88	56.00	30.12	9.000	N	9.6
0.1725	24.41	54.84	30.43	9.000	N	9.6
0.1973	25.89	53.73	27.83	9.000	N	9.6
0.2220	26.29	52.74	26.45	9.000	N	9.6
0.6620	33.18	46.00	12.82	9.000	N	9.7
0.6868	32.32	46.00	13.68	9.000	N	9.7
1.0063	20.43	46.00	25.57	9.000	N	9.7
1.0310	22.18	46.00	23.82	9.000	N	9.7
1.0558	23.06	46.00	22.94	9.000	N	9.7
1.0805	22.03	46.00	23.97	9.000	N	9.7
1.7938	17.59	46.00	28.41	9.000	N	9.7
1.8658	23.22	46.00	22.78	9.000	N	9.7
14.1733	27.06	50.00	22.94	9.000	N	10.2
14.3195	26.39	50.00	23.61	9.000	N	10.3
14.3443	26.17	50.00	23.83	9.000	N	10.3
14.3690	25.97	50.00	24.03	9.000	N	10.3
14.4680	26.28	50.00	23.72	9.000	N	10.3
14.5895	26.51	50.00	23.49	9.000	N	10.3

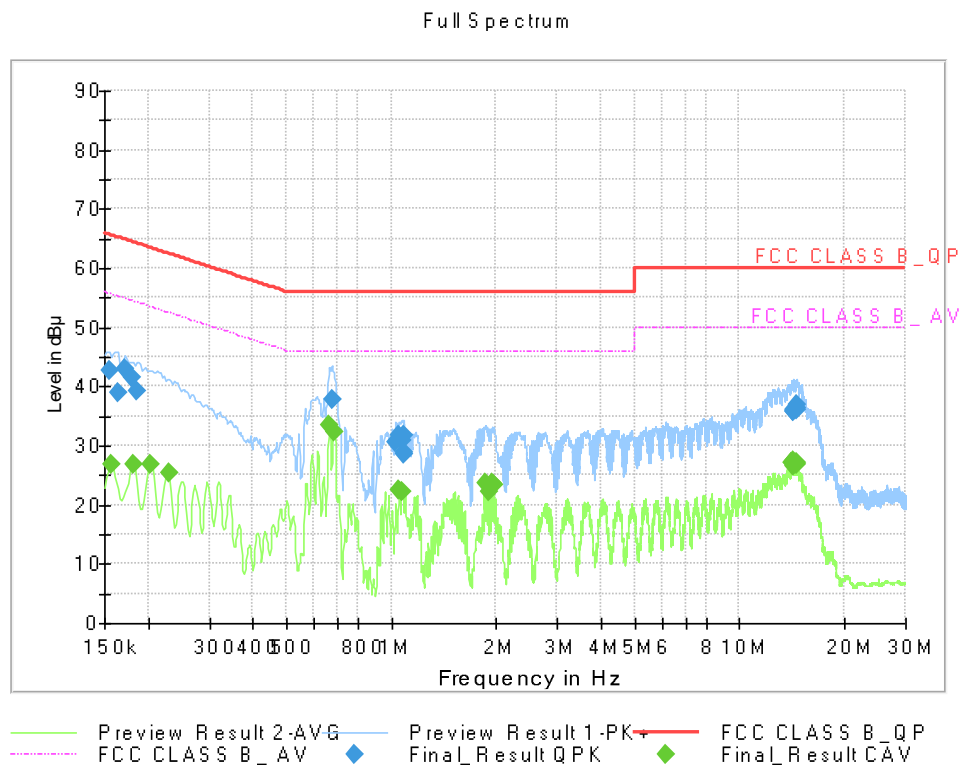
Figure 11: LORA MID CH RX + Charging, Line (L1)



Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1545	42.89	65.75	22.87	9.000	L1	9.7
0.1613	41.77	65.40	23.63	9.000	L1	9.7
0.1725	43.17	64.84	21.67	9.000	L1	9.7
0.1793	41.67	64.52	22.85	9.000	L1	9.7
0.1860	39.78	64.21	24.43	9.000	L1	9.7
0.1973	40.74	63.73	22.99	9.000	L1	9.7
0.6755	34.85	56.00	21.15	9.000	L1	9.7
1.0670	26.74	56.00	29.26	9.000	L1	9.7
1.0760	26.89	56.00	29.11	9.000	L1	9.7
1.0805	28.92	56.00	27.08	9.000	L1	9.7
1.9648	28.26	56.00	27.74	9.000	L1	9.7
1.9715	25.02	56.00	30.98	9.000	L1	9.7
14.2183	32.99	60.00	27.01	9.000	L1	10.2
14.3488	32.22	60.00	27.78	9.000	L1	10.2
14.4658	33.35	60.00	26.65	9.000	L1	10.2
14.4770	32.56	60.00	27.44	9.000	L1	10.2
14.6098	32.74	60.00	27.26	9.000	L1	10.2
14.6593	32.66	60.00	27.34	9.000	L1	10.2

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1545	25.76	55.75	29.99	9.000	L1	9.7
0.1793	25.79	54.52	28.73	9.000	L1	9.7
0.2040	24.96	53.45	28.49	9.000	L1	9.7
0.2265	23.50	52.58	29.07	9.000	L1	9.7
0.2468	22.10	51.87	29.77	9.000	L1	9.7
0.6620	30.68	46.00	15.32	9.000	L1	9.7
1.0310	19.62	46.00	26.38	9.000	L1	9.7
1.0558	21.01	46.00	24.99	9.000	L1	9.7
1.0783	20.38	46.00	25.62	9.000	L1	9.7
1.9153	20.27	46.00	25.73	9.000	L1	9.7
1.9400	20.69	46.00	25.31	9.000	L1	9.7
1.9648	20.47	46.00	25.53	9.000	L1	9.7
14.2183	25.24	50.00	24.76	9.000	L1	10.2
14.2430	25.65	50.00	24.35	9.000	L1	10.2
14.2678	25.65	50.00	24.35	9.000	L1	10.2
14.5850	25.39	50.00	24.61	9.000	L1	10.2
14.6098	25.52	50.00	24.48	9.000	L1	10.2
14.6593	25.44	50.00	24.56	9.000	L1	10.2

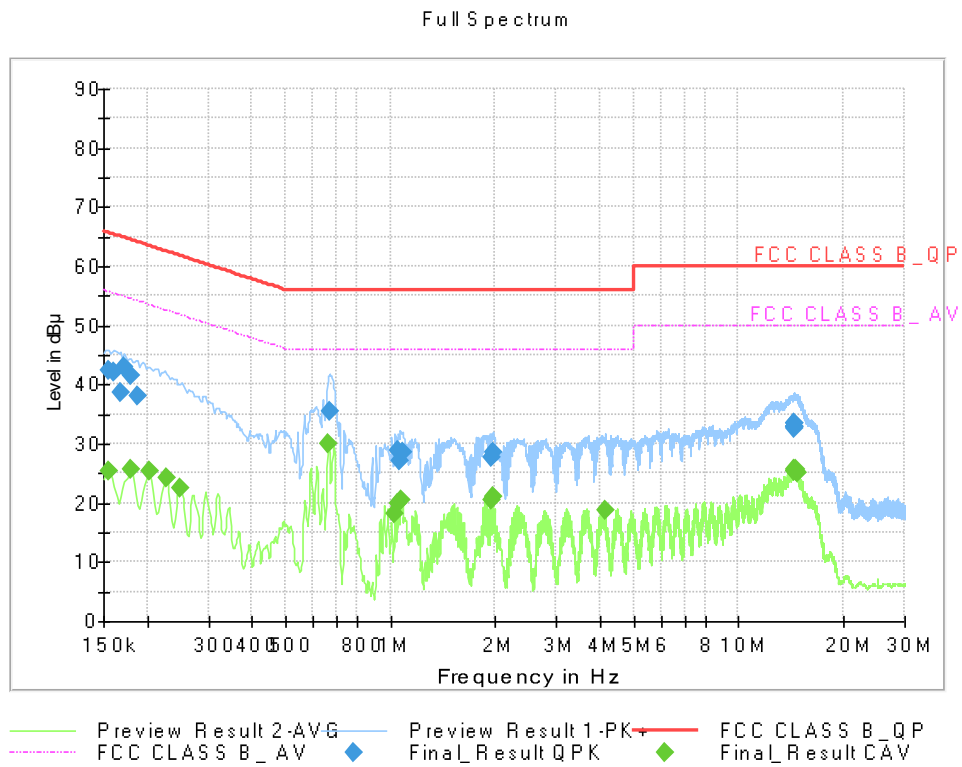
Figure 12: LORA MID CH RX + Charging, Line (N)



Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1545	42.79	65.75	22.97	9.000	N	9.6
0.1635	39.06	65.28	26.22	9.000	N	9.6
0.1725	42.98	64.84	21.86	9.000	N	9.6
0.1793	41.65	64.52	22.87	9.000	N	9.6
0.1860	39.09	64.21	25.12	9.000	N	9.6
0.6755	37.88	56.00	18.12	9.000	N	9.7
1.0310	30.47	56.00	25.53	9.000	N	9.7
1.0558	31.78	56.00	24.22	9.000	N	9.7
1.0715	30.93	56.00	25.07	9.000	N	9.7
1.0805	31.65	56.00	24.35	9.000	N	9.7
1.0850	28.58	56.00	27.42	9.000	N	9.7
1.0895	28.70	56.00	27.30	9.000	N	9.7
14.2385	35.73	60.00	24.27	9.000	N	10.2
14.2700	36.03	60.00	23.97	9.000	N	10.3
14.2948	35.83	60.00	24.17	9.000	N	10.3
14.5625	36.83	60.00	23.17	9.000	N	10.3
14.5670	36.38	60.00	23.62	9.000	N	10.3
14.5940	36.04	60.00	23.96	9.000	N	10.3

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1568	26.90	55.63	28.73	9.000	N	9.6
0.1815	26.95	54.42	27.46	9.000	N	9.6
0.2040	26.82	53.45	26.63	9.000	N	9.6
0.2288	25.30	52.50	27.19	9.000	N	9.6
0.6620	33.59	46.00	12.41	9.000	N	9.7
0.6845	32.34	46.00	13.66	9.000	N	9.7
1.0513	22.36	46.00	23.64	9.000	N	9.7
1.0715	22.07	46.00	23.93	9.000	N	9.7
1.8680	23.61	46.00	22.39	9.000	N	9.7
1.9153	22.29	46.00	23.71	9.000	N	9.7
1.9400	23.54	46.00	22.46	9.000	N	9.7
1.9625	23.25	46.00	22.75	9.000	N	9.7
14.1440	27.04	50.00	22.96	9.000	N	10.2
14.1935	27.02	50.00	22.98	9.000	N	10.2
14.2183	27.27	50.00	22.73	9.000	N	10.2
14.3150	26.64	50.00	23.36	9.000	N	10.3
14.5625	26.91	50.00	23.09	9.000	N	10.3
14.6098	26.99	50.00	23.01	9.000	N	10.3

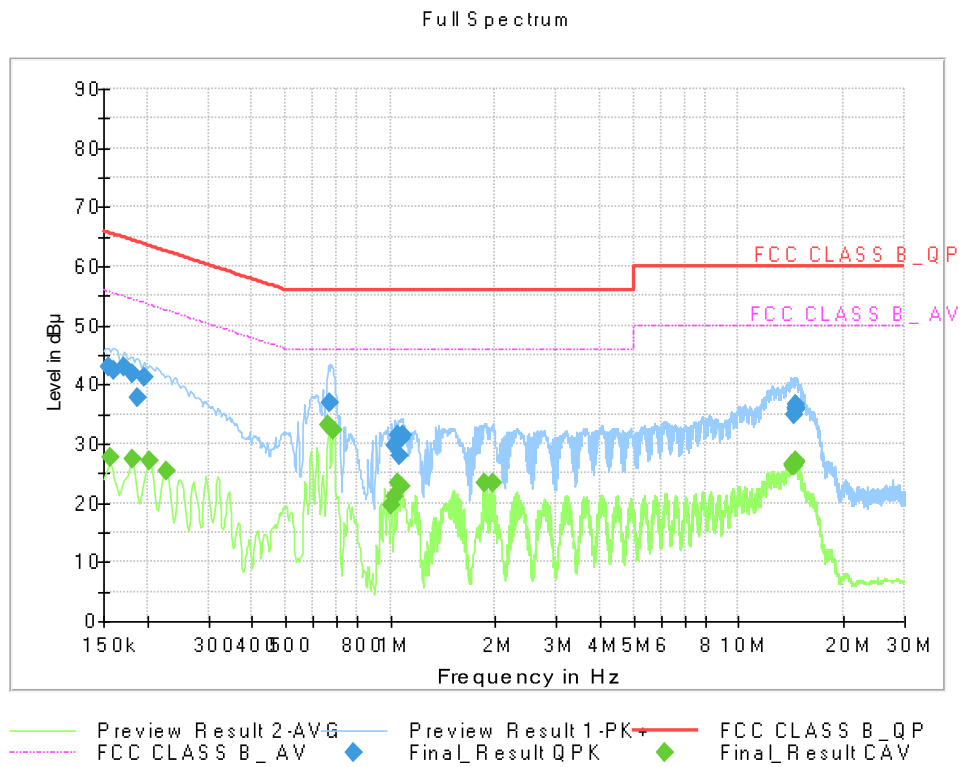
Figure 13: LORA HIGH CH RX + Charging, Line (L1)



Frequency (MHz)	QuasiPeak (dBuV)	Limit (dBuV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1545	42.43	65.75	23.32	9.000	L1	9.7
0.1613	42.07	65.40	23.33	9.000	L1	9.7
0.1680	38.78	65.06	26.28	9.000	L1	9.7
0.1725	43.09	64.84	21.75	9.000	L1	9.7
0.1793	41.62	64.52	22.90	9.000	L1	9.7
0.1883	38.06	64.11	26.05	9.000	L1	9.7
0.6710	35.38	56.00	20.62	9.000	L1	9.7
1.0558	28.86	56.00	27.14	9.000	L1	9.7
1.0670	27.03	56.00	28.97	9.000	L1	9.7
1.0805	28.68	56.00	27.32	9.000	L1	9.7
1.9400	27.69	56.00	28.31	9.000	L1	9.7
1.9648	28.45	56.00	27.55	9.000	L1	9.7
14.4095	32.98	60.00	27.02	9.000	L1	10.2
14.4140	33.37	60.00	26.63	9.000	L1	10.2
14.4185	32.80	60.00	27.20	9.000	L1	10.2
14.4365	33.46	60.00	26.54	9.000	L1	10.2
14.4478	32.73	60.00	27.27	9.000	L1	10.2
14.4545	32.98	60.00	27.02	9.000	L1	10.2

Frequency (MHz)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1545	25.40	55.75	30.35	9.000	L1	9.7
0.1793	25.69	54.52	28.83	9.000	L1	9.7
0.2040	25.48	53.45	27.97	9.000	L1	9.7
0.2265	24.26	52.58	28.32	9.000	L1	9.7
0.2490	22.49	51.79	29.31	9.000	L1	9.7
0.6620	30.12	46.00	15.88	9.000	L1	9.7
1.0310	18.18	46.00	27.82	9.000	L1	9.7
1.0558	19.99	46.00	26.01	9.000	L1	9.7
1.0783	20.48	46.00	25.52	9.000	L1	9.7
1.9400	20.62	46.00	25.38	9.000	L1	9.7
1.9625	20.95	46.00	25.05	9.000	L1	9.7
4.1248	18.82	46.00	27.18	9.000	L1	9.8
14.4140	25.73	50.00	24.27	9.000	L1	10.2
14.4388	25.53	50.00	24.47	9.000	L1	10.2
14.4635	25.38	50.00	24.62	9.000	L1	10.2
14.5603	25.57	50.00	24.43	9.000	L1	10.2
14.5850	25.34	50.00	24.66	9.000	L1	10.2
14.7808	25.24	50.00	24.76	9.000	L1	10.2

Figure 14: LORA HIGH CH RX + Charging, Line (N)

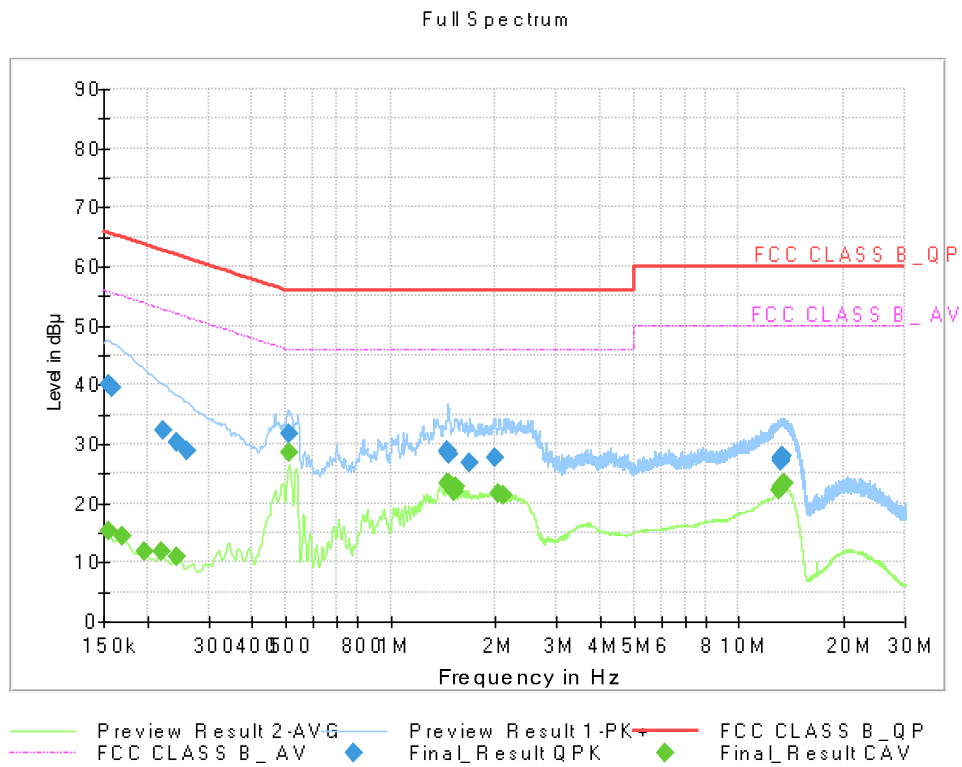


Frequency (MHz)	QuasiPeak (dBuV)	Limit (dBuV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1545	43.00	65.75	22.75	9.000	N	9.6
0.1613	42.29	65.40	23.11	9.000	N	9.6
0.1725	43.06	64.84	21.77	9.000	N	9.6
0.1815	41.97	64.42	22.45	9.000	N	9.6
0.1883	37.92	64.11	26.20	9.000	N	9.6
0.1973	41.17	63.73	22.56	9.000	N	9.6
0.6733	36.98	56.00	19.02	9.000	N	9.7
1.0310	29.80	56.00	26.20	9.000	N	9.7
1.0558	31.57	56.00	24.43	9.000	N	9.7
1.0625	27.99	56.00	28.01	9.000	N	9.7
1.0715	30.81	56.00	25.19	9.000	N	9.7
1.0805	31.52	56.00	24.48	9.000	N	9.7
14.4253	34.81	60.00	25.19	9.000	N	10.3
14.5625	36.49	60.00	23.51	9.000	N	10.3
14.5783	35.98	60.00	24.02	9.000	N	10.3
14.5895	36.12	60.00	23.88	9.000	N	10.3
14.5963	35.64	60.00	24.36	9.000	N	10.3
14.6143	35.79	60.00	24.21	9.000	N	10.3

Frequency (MHz)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1568	27.55	55.63	28.08	9.000	N	9.6
0.1815	27.53	54.42	26.88	9.000	N	9.6
0.2040	27.15	53.45	26.29	9.000	N	9.6
0.2265	25.48	52.58	27.10	9.000	N	9.6
0.6620	33.21	46.00	12.79	9.000	N	9.7
0.6868	32.33	46.00	13.67	9.000	N	9.7
1.0063	19.54	46.00	26.46	9.000	N	9.7
1.0310	20.95	46.00	25.05	9.000	N	9.7
1.0535	23.36	46.00	22.64	9.000	N	9.7
1.0760	22.78	46.00	23.22	9.000	N	9.7
1.8680	23.43	46.00	22.57	9.000	N	9.7
1.9625	23.46	46.00	22.54	9.000	N	9.7
14.3150	26.57	50.00	23.43	9.000	N	10.3
14.3398	26.35	50.00	23.65	9.000	N	10.3
14.3645	26.23	50.00	23.77	9.000	N	10.3
14.5603	27.10	50.00	22.90	9.000	N	10.3
14.5850	26.72	50.00	23.28	9.000	N	10.3
14.6098	26.73	50.00	23.27	9.000	N	10.3

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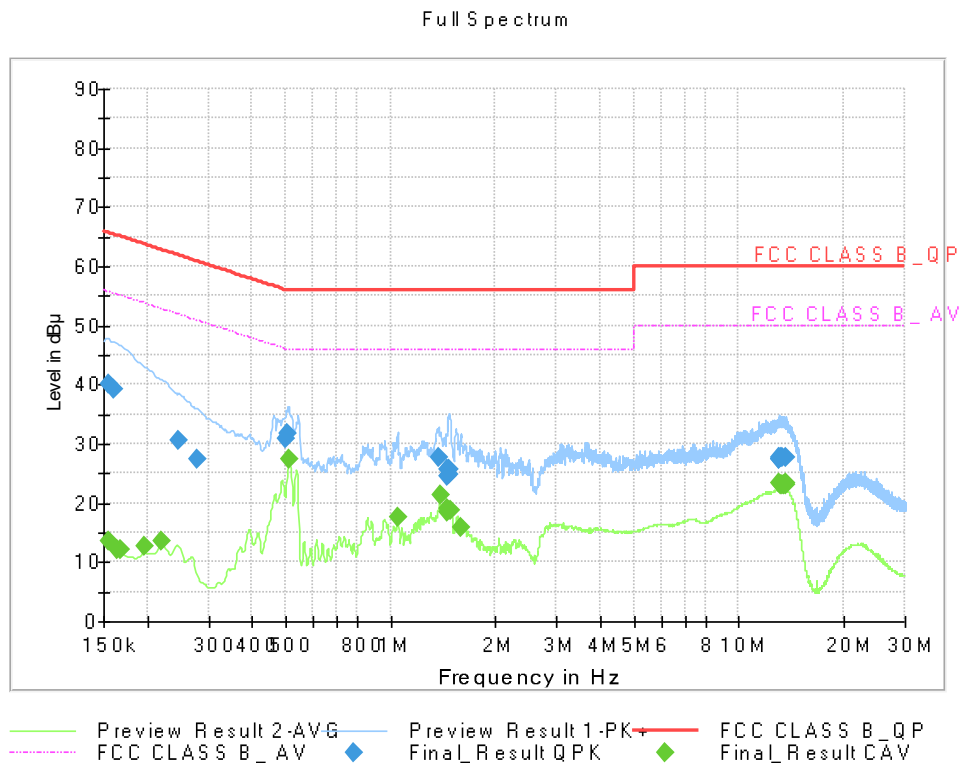
Figure 15: DATA COMMUNICATION, Line (L1)



Frequency (MHz)	QuasiPeak (dBuV)	Limit (dBuV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1545	40.03	65.75	25.72	9.000	L1	9.6
0.1590	39.60	65.52	25.92	9.000	L1	9.6
0.2220	32.39	62.74	30.35	9.000	L1	9.6
0.2445	30.29	61.94	31.65	9.000	L1	9.6
0.2603	28.96	61.42	32.46	9.000	L1	9.6
0.5090	31.73	56.00	24.27	9.000	L1	9.6
1.4518	28.76	56.00	27.24	9.000	L1	9.7
1.4563	28.56	56.00	27.44	9.000	L1	9.7
1.4608	28.79	56.00	27.21	9.000	L1	9.7
1.4743	28.36	56.00	27.64	9.000	L1	9.7
1.6903	26.79	56.00	29.21	9.000	L1	9.7
1.9940	27.78	56.00	28.22	9.000	L1	9.7
13.1743	27.57	60.00	32.43	9.000	L1	9.9
13.1855	27.62	60.00	32.38	9.000	L1	9.9
13.2193	27.25	60.00	32.75	9.000	L1	9.9
13.2485	27.22	60.00	32.78	9.000	L1	9.9
13.2553	27.43	60.00	32.57	9.000	L1	9.9
13.3205	27.85	60.00	32.15	9.000	L1	9.9

Frequency (MHz)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1545	15.33	55.75	40.42	9.000	L1	9.6
0.1703	14.30	54.95	40.65	9.000	L1	9.6
0.1973	11.86	53.73	41.86	9.000	L1	9.6
0.2198	11.75	52.83	41.08	9.000	L1	9.6
0.2445	11.03	51.94	40.92	9.000	L1	9.6
0.5113	28.42	46.00	17.58	9.000	L1	9.6
1.4473	23.36	46.00	22.64	9.000	L1	9.7
1.4653	23.42	46.00	22.58	9.000	L1	9.7
1.5283	22.00	46.00	24.00	9.000	L1	9.7
1.5463	22.82	46.00	23.18	9.000	L1	9.7
2.0503	21.64	46.00	24.36	9.000	L1	9.7
2.1088	21.43	46.00	24.57	9.000	L1	9.7
13.0100	22.35	50.00	27.65	9.000	L1	9.9
13.2598	22.69	50.00	27.31	9.000	L1	9.9
13.2710	22.65	50.00	27.35	9.000	L1	9.9
13.4083	23.09	50.00	26.91	9.000	L1	9.9
13.4533	23.36	50.00	26.64	9.000	L1	9.9
13.5680	23.37	50.00	26.63	9.000	L1	9.9

Figure 16: DATA COMMUNICATION, Line (N)



Frequency (MHz)	QuasiPeak (dBuV)	Limit (dBuV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1545	40.12	65.75	25.64	9.000	N	9.5
0.1613	39.37	65.40	26.03	9.000	N	9.5
0.2468	30.49	61.87	31.38	9.000	N	9.6
0.2783	27.47	60.87	33.40	9.000	N	9.6
0.5023	30.90	56.00	25.11	9.000	N	9.6
0.5068	31.72	56.00	24.28	9.000	N	9.6
1.3708	27.58	56.00	28.42	9.000	N	9.6
1.4518	24.42	56.00	31.58	9.000	N	9.6
1.4608	25.55	56.00	30.45	9.000	N	9.6
1.4675	24.68	56.00	31.32	9.000	N	9.6
1.4720	25.60	56.00	30.40	9.000	N	9.6
1.4765	25.61	56.00	30.39	9.000	N	9.6
13.0235	27.29	60.00	32.71	9.000	N	9.8
13.0663	27.26	60.00	32.74	9.000	N	9.8
13.1068	27.70	60.00	32.30	9.000	N	9.8
13.1473	27.65	60.00	32.35	9.000	N	9.8
13.3993	27.62	60.00	32.38	9.000	N	9.8
13.6040	27.68	60.00	32.32	9.000	N	9.8

Frequency (MHz)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1545	13.45	55.75	42.30	9.000	N	9.5
0.1635	12.19	55.28	43.10	9.000	N	9.5
0.1680	12.00	55.06	43.06	9.000	N	9.5
0.1973	12.68	53.73	41.04	9.000	N	9.6
0.2198	13.52	52.83	39.31	9.000	N	9.6
0.5113	27.34	46.00	18.66	9.000	N	9.6
1.0468	17.71	46.00	28.29	9.000	N	9.6
1.3865	21.36	46.00	24.64	9.000	N	9.6
1.4473	18.45	46.00	27.55	9.000	N	9.6
1.4563	19.14	46.00	26.86	9.000	N	9.6
1.4878	18.70	46.00	27.30	9.000	N	9.6
1.5868	15.87	46.00	30.13	9.000	N	9.6
13.1068	23.28	50.00	26.72	9.000	N	9.8
13.2013	22.94	50.00	27.06	9.000	N	9.8
13.3228	23.14	50.00	26.86	9.000	N	9.8
13.5230	23.20	50.00	26.80	9.000	N	9.8
13.5815	23.10	50.00	26.90	9.000	N	9.8
13.6063	23.45	50.00	26.55	9.000	N	9.8

4.2 Radiated Emission Below 1 GHz

4.2.1 Measuring instruments

Type	Model Name	Manufacturer	Serial Number	Calibration Cycle	Next Calibration Date
10 m Semi Anechoic Chamber #1					
☐ EMI test receiver	ESU26	Rohde & Schwarz	100241	1 year	06.14.2023
☐ Bilog Antenna	VULB 9168	SCHWARZBECK	847	2 year	05.27.2024
☐ Antenna master	MA4000-EP	INNCO systems	MA4000/283	N/A	-
☐ Turn Table	DT3000-3t	INNCO systems	DT3000/69	N/A	-
☐ Low Noise Amplifier	TK-PA01S	TESTEK	200112-L	1 year	06.14.2023
10 m Semi Anechoic Chamber #2					
☐ EMI Test Receiver	ESW44	Rohde & Schwarz	101946	1 year	07.04.2023
☐ Bilog Antenna	VULB9168	Schwarzbeck	760	2 year	02.22.2023
☐ Ant MAST	MA4000-EP	INNCO systems	-	N/A	-
☐ Ant MAST Controller	CO3000	INNCO systems	CO3000/999/ 40240317/G	N/A	-
☐ Turn Table	DDT6000/3000-5T	INNCO systems	-	N/A	-
☐ Low Noise Amplifier	TK-PA1S	TESTEK	190005-L	1 year	04.11.2023
3 m Semi Anechoic Chamber #1					
☒ EMI Test Receiver	ESU40	Rohde & Schwarz	100524	1 year	05.10.2023
☒ Bilog Antenna	VULB9168	Schwarzbeck	255	2 year	03.15.2023
☒ Antenna master	MA4640-XP-ET	INNCO SYSTEM	-	N/A	-
☒ Antenna master controller	CO3000	INNCO SYSTEM	CO3000/870 /35990515/L	N/A	-
☒ Turn Table	1060	INNCO SYSTEM	-	N/A	-
☒ Turn Table controller	CO2000	INNCO SYSTEM	CO2000/095 /7590304/L	N/A	-
☒ Software	EMC32	Rohde & Schwarz	-	-	-
3 m Semi Anechoic Chamber #2					
☐ EMI Test Receiver	ESU40	Rohde&Schwartz	100361	1 year	09.16.2023
☐ Bilog Antenna	VULB 9168	SCHWARZBECK	01156	2 year	05.27.2024
☐ Antenna Master	MA4640-XP-ET	INNCO SYSTEM	-	N/A	-
☐ Antenna Master Controller	CO3000	INNCO SYSTEM	CO3000/1250 /4892320/P	N/A	-
☐ Turn Table	DS2000-S	INNCO SYSTEM	-	N/A	-
☐ Turn Table Controller	CO2000	INNCO SYSTEM	CO3000/1250 /4892320/P	N/A	-
☐ Software	EMC32	Rohde & Schwarz	-	-	-

4.2.2 Operating Condition

The test results of radiated emission provide the following information:

Used Test Standard	FCC CFR 47 PART 15 Subpart B Class B ANSI C63.4-2014
Frequency Range	30 MHz to 1 000 MHz
Detector	Quasi-Peak
Bandwidth	120 kHz (6 dB)
Measurement Distance	3 m
Antenna height	1 m to 4 m
Test Site	3 m Semi Anechoic Chamber #1
Temperature	min. 18.5 °C, max. 21.8 °C
Relative Humidity	min. 25.3 %, max. 32.9 %
Test Date	December 27 / December 28, 2022 January 02 / January 07 / January 09 / January 10, 2023

Calculation Formula:

1. POL. H = Horizontal, POL. V = Vertical
2. QuasiPeak = Reading (Receiver Reading) + Corr.
3. Corr. (Correction Factor) = Antenna Factor + Cable Loss
4. Margin = Limit - QuasiPeak

4.2.3 Measuring Data

[EUT(Only)]

WiFi IDLE Mode

Frequency (MHz)	Quasi Peak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)
41.7184	16.52	40.00	23.48	386.9	V	264.0	19.4
50.4122	17.18	40.00	22.82	285.9	H	150.0	20.1
62.7132	16.75	40.00	23.25	374.8	V	238.0	19.3
150.2221	17.79	43.50	25.71	125.0	H	147.0	19.5
696.5646	28.42	46.00	17.58	325.1	V	281.0	28.8
952.3684	32.07	46.00	13.93	125.2	H	115.0	32.1

LTE B26 LOW CH RX Mode

Frequency (MHz)	Quasi Peak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)
41.4027	16.69	40.00	23.31	203.7	V	30.0	19.4
52.3931	17.19	40.00	22.81	185.8	V	19.0	20.0
62.1403	16.85	40.00	23.15	107.8	V	271.0	19.3
495.8714	24.29	46.00	21.71	225.2	H	214.0	25.4
685.3035	28.31	46.00	17.69	174.9	H	247.0	28.6
995.8664	32.73	54.00	21.27	220.0	V	75.0	32.6

LTE B26 LOW CH DL Frequency: 858.962 MHz



LTE B26 MID CH RX Mode

Frequency (MHz)	Quasi Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)
35.8514	16.42	40.00	23.58	125.2	V	294.0	19.0
62.4157	16.82	40.00	23.18	274.8	V	145.0	19.3
114.5083	17.07	43.50	26.43	183.7	V	17.0	16.5
245.0912	16.82	46.00	29.18	183.7	V	212.0	18.6
476.7276	23.72	46.00	22.28	303.8	V	2.0	24.9
652.1725	27.92	46.00	18.08	174.9	H	34.0	28.2

LTE B26 MID CH DL Frequency : 875.646 MHz

LTE B26 HIGH CH RX Mode

Frequency (MHz)	Quasi Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)
41.0355	16.58	40.00	23.42	225.1	H	258.0	19.4
46.9698	17.01	40.00	22.99	303.8	H	58.0	19.8
114.5032	17.05	43.50	26.45	198.7	V	268.0	16.5
247.4130	16.95	46.00	29.05	205.9	V	235.0	18.7
466.0239	23.32	46.00	22.68	303.0	H	0.0	24.6
600.5452	27.46	46.00	18.54	282.7	V	249.0	27.5

LTE B26 HIGH CH DL Frequency : 897.374 MHz

LORA LOW CH RX Mode

Frequency (MHz)	Quasi Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)
32.0553	17.47	40.00	22.53	186.7	H	7.0	18.6
54.7930	17.15	40.00	22.85	384.0	V	92.0	19.9
61.7686	16.82	40.00	23.18	304.9	H	275.0	19.4
494.4655	24.26	46.00	21.74	225.1	H	88.0	25.4
637.6328	27.75	46.00	18.25	100.0	V	236.0	28.0
947.3579	32.13	46.00	13.87	325.1	H	31.0	32.1

LORA MID CH RX Mode

Frequency (MHz)	Quasi Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)
32.1540	20.80	40.00	19.20	174.8	V	138.0	18.6
56.9336	17.21	40.00	22.79	181.8	V	246.0	19.8
97.6435	12.39	43.50	31.11	204.7	H	182.0	14.9
490.4395	24.17	46.00	21.83	184.8	H	0.0	25.3
696.7312	28.52	46.00	17.48	125.0	H	89.0	28.8
937.2322	31.93	46.00	14.07	174.7	V	5.0	32.0

LORA HIGH CH RX Mode

Frequency (MHz)	Quasi Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)
32.0917	21.46	40.00	18.54	204.9	V	79.0	18.6
50.3285	17.28	40.00	22.72	125.1	V	265.0	20.1
63.1826	16.81	40.00	23.19	202.9	H	97.0	19.2
114.4650	14.94	43.50	28.56	190.9	V	34.0	16.5
675.5723	28.19	46.00	17.81	174.9	V	279.0	28.5
959.5369	32.19	46.00	13.81	184.7	V	0.0	32.2

[EUT+TA]

WiFi IDLE + Charging Mode

Frequency (MHz)	Quasi Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)
47.5975	18.65	40.00	21.35	112.9	V	26.0	19.9
52.9295	18.47	40.00	21.53	109.7	V	30.0	19.9
80.4340	19.17	40.00	20.83	100.0	V	272.0	15.6
86.0317	15.08	40.00	24.92	117.9	V	322.0	14.8
187.0208	17.74	43.50	25.76	183.8	H	194.0	17.8
943.6916	32.00	46.00	14.00	374.7	V	192.0	32.1

LTE B26 LOW CH RX + Charging Mode

Frequency (MHz)	Quasi Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)
45.4243	17.21	40.00	22.79	203.8	V	326.0	19.7
67.5426	17.89	40.00	22.11	125.2	V	124.0	18.6
87.1125	20.39	40.00	19.61	125.0	V	83.0	14.7
197.9600	22.50	43.50	21.00	125.2	V	115.0	17.0
478.2726	23.72	46.00	22.28	125.1	V	271.0	24.9
652.4365	27.83	46.00	18.17	320.9	H	303.0	28.2

LTE B26 LOW CH DL Frequency : 857.992 MHz



LTE B26 MID CH RX + Charging Mode

Frequency (MHz)	Quasi Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)
45.3769	18.02	40.00	21.98	109.9	V	163.0	19.7
47.7831	18.38	40.00	21.62	110.8	V	251.0	19.9
61.3301	18.67	40.00	21.33	125.1	V	127.0	19.5
81.7037	19.01	40.00	20.99	100.0	V	269.0	15.4
181.2174	17.60	43.50	25.90	100.0	V	310.0	18.3
809.2020	30.57	46.00	15.43	274.9	V	348.0	30.7

LTE B26 MID CH DL Frequency : 875.937 MHz

LTE B26 HIGH CH RX + Charging Mode

Frequency (MHz)	Quasi Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)
47.5794	21.33	40.00	18.67	108.7	V	312.0	19.9
62.3678	19.00	40.00	21.00	225.1	V	331.0	19.3
81.1338	18.83	40.00	21.17	125.2	V	274.0	15.5
184.2589	16.25	43.50	27.25	100.0	V	271.0	18.1
489.0449	24.06	46.00	21.94	174.9	V	0.0	25.2
682.6319	28.21	46.00	17.79	100.0	V	75.0	28.6

LTE B26 HIGH CH DL Frequency : 893.106 MHz

LORA LOW CH RX + Charging Mode

Frequency (MHz)	Quasi Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)
32.0288	21.20	40.00	18.80	188.0	V	335.0	18.6
46.9269	30.31	40.00	9.69	111.7	V	264.0	19.8
54.7108	25.76	40.00	14.24	112.7	V	238.0	19.9
85.5220	22.99	40.00	17.01	100.0	V	303.0	14.9
608.7359	27.64	46.00	18.36	219.8	V	205.0	27.6
953.9337	32.18	46.00	13.82	201.7	H	184.0	32.2

LORA MID CH RX + Charging Mode

Frequency (MHz)	Quasi Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)
33.9256	20.34	40.00	19.66	187.0	V	134.0	18.8
48.7750	27.31	40.00	12.69	100.0	V	106.0	20.0
85.3963	23.24	40.00	16.76	100.0	V	308.0	14.9
101.2588	25.88	43.50	17.62	100.0	V	0.0	15.2
694.2365	28.26	46.00	17.74	201.9	V	62.0	28.7
927.3918	31.64	46.00	14.36	125.1	V	15.0	31.9

LORA HIGH CH RX + Charging Mode

Frequency (MHz)	Quasi Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)
32.4468	20.38	40.00	19.62	186.0	V	326.0	18.7
53.2517	23.69	40.00	16.31	108.8	V	30.0	19.9
84.8352	19.37	40.00	20.63	100.0	V	1.0	15.0
97.0973	22.42	43.50	21.08	100.0	V	0.0	14.9
683.1484	28.25	46.00	17.75	100.0	H	49.0	28.6
937.4580	31.89	46.00	14.11	203.0	H	164.0	32.0



[EUT+PC]

Data Communication Mode

Frequency (MHz)	Quasi Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)
31.9171	21.36	40.00	18.64	183.8	V	245.0	18.6
71.9482	21.56	40.00	18.44	225.1	V	275.0	17.8
96.3767	25.08	43.50	18.42	125.3	V	296.0	14.8
272.3952	28.21	46.00	17.79	100.0	H	99.0	19.6
348.1197	27.05	46.00	18.95	100.0	H	98.0	21.7
953.4451	32.07	46.00	13.93	125.2	V	0.0	32.1



4.3 Radiated Emission Above 1 GHz

4.3.1 Measuring instruments

Type	Model Name	Manufacturer	Serial Number	Calibration Cycle	Next Calibration Date
3 m Semi Anechoic Chamber #1					
☒ EMI test receiver	ESU40	Rohde & Schwarz	100524	1 year	05.10.2023
☒ Horn antenna	BBHA 9120D	Schwarzbeck	01836	1 year	07.21.2023
☒ Power Amplifier	TK-PA18H	TESTEK	170034-L	1 year	02.24.2023
☐ Horn Antenna	BBHA9170	Schwarzbeck	BBHA 9170#786	1 year	11.17.2023
☐ Power Amplifier	TK-PA1840H	TESTEK	170030-L	1 year	02.24.2023
☒ Antenna master	MA4640-XP-ET	INNCO Systems	-	N/A	-
☒ Antenna master controller	CO3000	INNCO Systems	CO3000/870/35990515/L	N/A	-
☒ Turn table	1060	INNCO Systems	-	N/A	-
☒ Turn table controller	CO2000	INNCO Systems	CO2000/095/7590304/L	N/A	-
☐ Power Amplifier	TK-PA18H	TESTEK	170012-L	1 year	04.21.2023
☒ Software	EMC32	Rohde & Schwarz	-	-	-
3 m Semi Anechoic Chamber #2					
☐ EMI test receiver	ESU40	Rohde&Schwarz	100361	1 year	09.16.2023
☐ Horn Antenna	BBHA 9170	SCHWARZBECK	810	1 year	04.25.2023
☐ Power Amplifier	TK-PA1804H	TESTEK	170033-L	1 year	04.15.2023
☐ Horn Antenna	BBHA 9120D	SCHWARZBECK	296	1 year	02.17.2023
☐ Amplifier	CBLU5183530	CERNEX	24348	1 year	06.02.2023
☐ Antenna Master	MA4640-XP-ET	INNCO SYSTEM	-	N/A	-
☐ Antenna Master Controller	CO3000	INNCO SYSTEM	CO3000/1250/4892320/P	N/A	-
☐ Turn Table	DS2000-S	INNCO SYSTEM	-	N/A	-
☐ Turn Table Controller	CO2000	INNCO SYSTEM	CO3000/1250/4892320/P	N/A	-
10 m Semi Anechoic Chamber #1					
☐ EMI test receiver	ESU26	ROHDE&SCHWARZ	100241	1 year	06.14.2023
☐ Horn Antenna	BBHA 9120 D	SCHWARZBECK	1639	1 year	08.31.2023
☐ Antenna master	AS2000-PP	INNCO systems	AS2000/135/34270914/L	N/A	-
☐ Turn table	DT3000-3t	INNCO systems	DT3000/69	N/A	-
☐ Amplifier	CBLU1183540	CERNEX	21691	1 year	06.14.2023
10 m Semi Anechoic Chamber #2					
☐ EMI Test Receiver	ESW44	Rohde & Schwarz	101946	1 year	07.04.2023
☐ Amplifier	TK-PA6S	TESTEK	130012	1 year	01.18.2023
☐ Horn Antenna	BBHA 9120D	SCHWARZBECK	1641	1 year	06.30.2023
☐ Horn Antenna	BBHA 9120D	Schwarzbeck	1152	1 year	02.23.2023
☐ Ant MAST	MA4000-EP	INNCO systems	-	N/A	-
☐ Ant MAST Controller	CO3000	INNCO systems	CO3000/999/40240317/G	N/A	-
☐ Ant MAST	MA4640/800 XP-ET	INNCO systems	-	N/A	-
☐ Ant MAST Controller	CO3000	INNCO systems	CO3000/951/38590616/G	N/A	-
☐ Turn Table	DDT6000/3000-5T	INNCO systems	-	N/A	-

4.3.2 Operating Condition

The test results of radiated emission provide the following information:

Used Test Standard	FCC CFR 47 PART 15 Subpart B Class B ANSI C63.4-2014
Detector	Peak, CISPR-Average
Bandwidth	1 MHz
Highest Frequency	2 472 MHz
Tested Frequency Range	1 GHz to 18 GHz
Measurement Distance	3 m
Antenna height	1 m to 4 m
Test Site	3 m Semi Anechoic Chamber #1
Temperature	min. 19.8 °C, max. 21.7 °C
Relative Humidity	min. 25.8 %, max. 31.5 %
Test Date	January 12 / January 14, 2023

- Calculation Formula:
1. POL. H = Horizontal, POL. V = Vertical
 2. Peak or CAverage = Reading (Receiver Reading) + Corr.
 3. Corr. (Correction Factor) = Antenna Factor+ Cable Loss –Amplifier Gain
 4. Margin = Limit - Peak or CAverage

4.3.3 Measuring Data

[EUT(Only)]

WiFi IDLE Mode

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
6597.0750	39.39	---	74.00	34.61	150.2	V	235.0	-13.0
6597.0750	---	26.84	54.00	27.16	150.2	V	235.0	-13.0
7785.4100	---	29.97	54.00	24.03	250.0	V	300.0	-9.9
7785.4100	42.05	---	74.00	31.95	250.0	V	300.0	-9.9
9335.0450	43.71	---	74.00	30.29	200.6	V	55.0	-8.0
9335.0450	---	30.96	54.00	23.04	200.6	V	55.0	-8.0
11048.0500	---	33.53	54.00	20.47	149.8	V	73.0	-3.5
11048.0500	45.87	---	74.00	28.13	149.8	V	73.0	-3.5
13749.0800	45.50	---	74.00	28.50	115.5	V	75.0	-2.0
13749.0800	---	33.00	54.00	21.00	115.5	V	75.0	-2.0
17821.2100	54.12	---	74.00	19.88	150.2	H	116.0	8.8
17821.2100	---	41.59	54.00	12.41	150.2	H	116.0	8.8

WiFi 2.4 GHz Fundamental Frequency : 2441.6 MHz

WiFi 2.4 GHz Harmonic Frequency : 4882.8, 7325.7, 9768.6, 12208.1, 14652.7 MHz

LTE B26 LOW CH RX Mode

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3524.5700	34.03	---	74.00	39.97	150.1	V	171.0	-22.8
3524.5700	---	21.31	54.00	32.69	150.1	V	171.0	-22.8
7440.2200	41.85	---	74.00	32.15	132.6	V	224.0	-10.5
7440.2200	---	29.44	54.00	24.56	132.6	V	224.0	-10.5
10688.1350	45.30	---	74.00	28.70	321.8	V	177.0	-4.4
10688.1350	---	33.04	54.00	20.96	321.8	V	177.0	-4.4
13221.6800	45.26	---	74.00	28.74	177.7	H	5.0	-3.1
13221.6800	---	32.95	54.00	21.05	177.7	H	5.0	-3.1
14798.0700	46.73	---	74.00	27.27	150.1	V	110.0	-0.3
14798.0700	---	34.71	54.00	19.30	150.1	V	110.0	-0.3
17832.3800	54.06	---	74.00	19.94	157.6	H	173.0	8.9
17832.3800	---	41.62	54.00	12.38	157.6	H	173.0	8.9



LTE B26 MID CH RX Mode

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4963.3300	---	24.52	54.00	29.48	301.6	H	0.0	-17.9
4963.3300	36.51	---	74.00	37.49	301.6	H	0.0	-17.9
7427.3850	---	29.43	54.00	24.57	301.8	V	287.0	-10.5
7427.3850	41.77	---	74.00	32.23	301.8	V	287.0	-10.5
9802.1500	44.34	---	74.00	29.66	249.5	V	2.0	-6.9
9802.1500	---	31.99	54.00	22.01	249.5	V	2.0	-6.9
13232.8200	44.62	---	74.00	29.38	150.1	H	106.0	-3.0
13232.8200	---	32.70	54.00	21.30	150.1	H	106.0	-3.0
14166.8400	47.29	---	74.00	26.71	141.6	H	329.0	-1.0
14166.8400	---	34.62	54.00	19.38	141.6	H	329.0	-1.0
17838.4050	54.85	---	74.00	19.15	295.5	H	79.0	9.0
17838.4050	---	41.64	54.00	12.36	295.5	H	79.0	9.0

LTE B26 HIGH CH RX Mode

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
5015.3250	37.19	---	74.00	36.81	130.8	V	302.0	-17.7
5015.3250	---	24.40	54.00	29.60	130.8	V	302.0	-17.7
7434.5550	41.50	---	74.00	32.50	350.1	V	274.0	-10.5
7434.5550	---	29.39	54.00	24.61	350.1	V	274.0	-10.5
9804.8450	44.02	---	74.00	29.98	236.5	V	108.0	-6.9
9804.8450	---	31.85	54.00	22.15	236.5	V	108.0	-6.9
13224.7750	---	32.91	54.00	21.09	149.6	H	136.0	-3.1
13224.7750	45.39	---	74.00	28.61	149.6	H	136.0	-3.1
14437.7600	---	34.96	54.00	19.04	173.6	V	260.0	-0.4
14437.7600	47.33	---	74.00	26.67	173.6	V	260.0	-0.4
17815.7650	53.58	---	74.00	20.42	338.8	V	302.0	8.7
17815.7650	---	41.44	54.00	12.56	338.8	V	302.0	8.7

LORA LOW CH RX Mode

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
6654.8200	40.01	---	74.00	33.99	107.7	V	30.0	-12.8
6654.8200	---	27.03	54.00	26.97	107.7	V	30.0	-12.8
8183.1900	---	29.53	54.00	24.47	121.3	H	121.0	-9.6
8183.1900	42.31	---	74.00	31.69	121.3	H	121.0	-9.6
9359.1200	---	31.03	54.00	22.97	190.6	V	311.0	-8.0
9359.1200	43.29	---	74.00	30.71	190.6	V	311.0	-8.0
10477.4000	45.12	---	74.00	28.88	214.6	V	206.0	-4.9
10477.4000	---	32.91	54.00	21.09	214.6	V	206.0	-4.9
14836.2250	46.73	---	74.00	27.27	154.6	V	133.0	-0.3
14836.2250	---	34.38	54.00	19.62	154.6	V	133.0	-0.3
17837.6500	54.09	---	74.00	19.91	100.0	H	192.0	9.0
17837.6500	---	41.60	54.00	12.40	100.0	H	192.0	9.0

LORA MID CH RX Mode

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
7766.9650	42.91	---	74.00	31.09	230.5	V	195.0	-9.9
7766.9650	---	29.92	54.00	24.08	230.5	V	195.0	-9.9
8919.9150	42.56	---	74.00	31.44	191.6	V	50.0	-8.9
8919.9150	---	29.95	54.00	24.05	191.6	V	50.0	-8.9
10782.6950	45.71	---	74.00	28.29	115.6	V	0.0	-4.1
10782.6950	---	33.29	54.00	20.71	115.6	V	0.0	-4.1
13837.0750	---	33.86	54.00	20.14	140.6	V	225.0	-1.8
13837.0750	45.71	---	74.00	28.29	140.6	V	225.0	-1.8
14799.2750	---	34.72	54.00	19.28	140.8	V	341.0	-0.3
14799.2750	47.74	---	74.00	26.26	140.8	V	341.0	-0.3
17837.4250	54.82	---	74.00	19.18	100.0	V	286.0	9.0
17837.4250	---	41.68	54.00	12.32	100.0	V	286.0	9.0

LORA HIGH CH RX Mode

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
5034.9600	36.93	---	74.00	37.07	157.6	H	182.0	-17.7
5034.9600	---	24.44	54.00	29.56	157.6	H	182.0	-17.7
7419.6050	---	29.44	54.00	24.56	212.5	V	182.0	-10.6
7419.6050	42.36	---	74.00	31.64	212.5	V	182.0	-10.6
9745.6700	44.47	---	74.00	29.53	249.9	H	202.0	-7.0
9745.6700	---	31.56	54.00	22.44	249.9	H	202.0	-7.0
13266.6700	44.74	---	74.00	29.26	249.9	H	245.0	-3.0
13266.6700	---	32.48	54.00	21.52	249.9	H	245.0	-3.0
14398.1800	---	34.39	54.00	19.61	150.1	H	0.0	-0.5
14398.1800	46.26	---	74.00	27.74	150.1	H	0.0	-0.5
17849.2250	54.27	---	74.00	19.73	200.5	V	10.0	9.2
17849.2250	---	41.56	54.00	12.44	200.5	V	10.0	9.2

[EUT+TA]

WiFi IDLE + Charging Mode

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4468.0300	36.26	---	74.00	37.74	108.7	H	125.0	-19.4
4468.0300	---	23.71	54.00	30.29	108.7	H	125.0	-19.4
6989.8450	---	28.43	54.00	25.57	149.9	V	44.0	-11.8
6989.8450	40.73	---	74.00	33.27	149.9	V	44.0	-11.8
8970.8100	42.77	---	74.00	31.23	123.3	V	212.0	-8.8
8970.8100	---	30.36	54.00	23.64	123.3	V	212.0	-8.8
11126.8050	45.78	---	74.00	28.22	249.9	H	166.0	-3.5
11126.8050	---	33.29	54.00	20.71	249.9	H	166.0	-3.5
14173.0800	---	34.60	54.00	19.40	156.7	V	76.0	-1.0
14173.0800	47.14	---	74.00	26.86	156.7	V	76.0	-1.0
17843.2100	53.47	---	74.00	20.53	104.7	H	269.0	9.1
17843.2100	---	41.55	54.00	12.45	104.7	H	269.0	9.1

WiFi 2.4 GHz Fundamental Frequency : 2445 MHz

WiFi 2.4 GHz Harmonic Frequency : 4882.8, 7324.0, 9768.6, 12208.1, 14652.7 MHz

LTE B26 LOW CH RX + Charging Mode

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3494.3450	33.90	---	74.00	40.10	139.6	V	169.0	-22.9
3494.3450	---	21.31	54.00	32.69	139.6	V	169.0	-22.9
7416.8600	---	29.35	54.00	24.65	117.4	V	266.0	-10.6
7416.8600	41.26	---	74.00	32.74	117.4	V	266.0	-10.6
9745.3750	44.17	---	74.00	29.83	185.8	H	52.0	-7.0
9745.3750	---	31.70	54.00	22.30	185.8	H	52.0	-7.0
11809.9750	44.82	---	74.00	29.18	249.8	H	74.0	-3.6
11809.9750	---	32.46	54.00	21.54	249.8	H	74.0	-3.6
14528.2650	48.01	---	74.00	25.99	220.7	H	0.0	-0.2
14528.2650	---	34.77	54.00	19.23	220.7	H	0.0	-0.2
17841.9400	---	41.63	54.00	12.37	121.3	V	204.0	9.1
17841.9400	54.00	---	74.00	20.00	121.3	V	204.0	9.1



LTE B26 MID CH RX + Charging Mode

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
7444.7650	41.60	---	74.00	32.40	199.7	V	195.0	-10.5
7444.7650	---	29.32	54.00	24.68	199.7	V	195.0	-10.5
8031.9300	42.45	---	74.00	31.55	181.6	V	46.0	-9.5
8031.9300	---	30.51	54.00	23.49	181.6	V	46.0	-9.5
9802.6850	---	31.69	54.00	22.31	240.5	H	316.0	-6.9
9802.6850	44.06	---	74.00	29.94	240.5	H	316.0	-6.9
11120.5800	47.34	---	74.00	26.66	149.9	H	254.0	-3.5
11120.5800	---	33.42	54.00	20.58	149.9	H	254.0	-3.5
14509.0600	47.38	---	74.00	26.62	163.8	V	356.0	-0.2
14509.0600	---	34.94	54.00	19.06	163.8	V	356.0	-0.2
17849.1600	---	41.51	54.00	12.49	165.7	H	138.0	9.2
17849.1600	53.61	---	74.00	20.39	165.7	H	138.0	9.2

LTE B26 HIGH CH RX + Charging Mode

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4955.9000	---	24.41	54.00	29.59	150.1	H	193.0	-17.9
4955.9000	37.38	---	74.00	36.62	150.1	H	193.0	-17.9
7490.7400	---	29.08	54.00	24.92	125.7	V	275.0	-10.4
7490.7400	41.53	---	74.00	32.47	125.7	V	275.0	-10.4
9409.1250	---	31.45	54.00	22.55	200.5	H	79.0	-7.9
9409.1250	43.80	---	74.00	30.20	200.5	H	79.0	-7.9
13216.0300	45.17	---	74.00	28.83	150.2	H	76.0	-3.1
13216.0300	---	32.80	54.00	21.20	150.2	H	76.0	-3.1
14793.7950	---	34.31	54.00	19.69	147.6	H	59.0	-0.3
14793.7950	47.23	---	74.00	26.77	147.6	H	59.0	-0.3
17796.5650	53.61	---	74.00	20.39	122.3	V	97.0	8.4
17796.5650	---	40.95	54.00	13.05	122.3	V	97.0	8.4



LORA LOW CH RX + Charging Mode

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3666.6600	33.93	---	74.00	40.07	132.6	V	50.0	-22.3
3666.6600	---	21.67	54.00	32.33	132.6	V	50.0	-22.3
6274.7450	---	26.29	54.00	27.71	149.6	V	188.0	-14.2
6274.7450	38.37	---	74.00	35.63	149.6	V	188.0	-14.2
9761.2350	---	31.80	54.00	22.20	100.0	V	102.0	-7.0
9761.2350	44.18	---	74.00	29.82	100.0	V	102.0	-7.0
13255.4700	---	32.55	54.00	21.45	109.8	H	98.0	-3.0
13255.4700	45.31	---	74.00	28.69	109.8	H	98.0	-3.0
14546.1550	46.92	---	74.00	27.08	122.3	V	198.0	-0.2
14546.1550	---	34.65	54.00	19.35	122.3	V	198.0	-0.2
17846.6450	---	41.59	54.00	12.41	188.6	V	323.0	9.1
17846.6450	53.66	---	74.00	20.34	188.6	V	323.0	9.1

LORA MID CH RX + Charging Mode

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
6713.4650	39.88	---	74.00	34.12	99.8	H	174.0	-12.6
6713.4650	---	27.56	54.00	26.44	99.8	H	174.0	-12.6
7439.1200	41.86	---	74.00	32.14	149.6	H	170.0	-10.5
7439.1200	---	29.32	54.00	24.68	149.6	H	170.0	-10.5
9310.6900	43.00	---	74.00	31.00	249.9	V	34.0	-8.1
9310.6900	---	30.62	54.00	23.38	249.9	V	34.0	-8.1
13329.9950	---	32.52	54.00	21.48	124.7	V	17.0	-2.9
13329.9950	44.95	---	74.00	29.05	124.7	V	17.0	-2.9
14763.6200	46.66	---	74.00	27.34	218.5	H	227.0	-0.3
14763.6200	---	34.69	54.00	19.31	218.5	H	227.0	-0.3
17834.3350	---	41.70	54.00	12.30	122.3	V	130.0	9.0
17834.3350	55.27	---	74.00	18.73	122.3	V	130.0	9.0

LORA HIGH CH RX + Charging Mode

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4983.3600	---	24.12	54.00	29.88	173.6	H	262.0	-17.8
4983.3600	36.00	---	74.00	38.00	173.6	H	262.0	-17.8
7425.4800	41.40	---	74.00	32.60	107.7	V	145.0	-10.5
7425.4800	---	29.42	54.00	24.58	107.7	V	145.0	-10.5
9807.3750	---	31.70	54.00	22.30	109.8	V	300.0	-6.9
9807.3750	44.05	---	74.00	29.95	109.8	V	300.0	-6.9
13252.4950	---	32.59	54.00	21.41	141.7	V	346.0	-3.0
13252.4950	45.88	---	74.00	28.12	141.7	V	346.0	-3.0
14596.5450	46.52	---	74.00	27.48	114.4	V	173.0	-0.2
14596.5450	---	34.16	54.00	19.84	114.4	V	173.0	-0.2
17839.2000	---	41.52	54.00	12.48	142.7	H	287.0	9.0
17839.2000	53.55	---	74.00	20.45	142.7	H	287.0	9.0



[EUT+PC]

Data Communication Mode

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1199.7950	42.77	---	74.00	31.23	222.7	V	8.0	-30.6
1199.7950	---	18.02	54.00	35.98	222.7	V	8.0	-30.6
1995.9800	43.35	---	74.00	30.65	250.0	V	29.0	-28.1
1995.9800	---	18.86	54.00	35.14	250.0	V	29.0	-28.1
5889.0900	---	39.76	54.00	14.24	200.6	V	77.0	-15.5
5889.0900	44.19	---	74.00	29.81	200.6	V	77.0	-15.5
10419.3800	---	32.63	54.00	21.37	242.7	H	0.0	-5.1
10419.3800	45.18	---	74.00	28.82	242.7	H	0.0	-5.1
14770.1050	---	34.59	54.00	19.41	228.5	V	255.0	-0.3
14770.1050	47.22	---	74.00	26.78	228.5	V	255.0	-0.3
17815.5350	---	41.46	54.00	12.54	230.6	H	0.0	8.7
17815.5350	53.61	---	74.00	20.39	230.6	H	0.0	8.7



5. APPENDIX A. TEST SETUP PHOTO

Please refer to Appendix. A and test setup photo file no. as follows;

File No.	Date of Issue	Description
HCT-EM-2301-FC007-P	January 27, 2023	Initial Release

End of report