



FCC RADIO TEST REPORT

FCC ID : B94HNI57CPS
Equipment : Notebook Computer
Brand Name : HP
Model Name : HSN-I57C
Applicant : HP Inc.
1501 Page Mill Road, Palo Alto CA 94304 USA
Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27

The product was received on Sep. 04, 2023 and testing was performed from Sep. 29, 2023 to Oct. 06, 2023. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	6
1.1 Product Feature of Equipment Under Test.....	6
1.2 Modification of EUT	7
1.3 Testing Location	8
1.4 Applicable Standards.....	8
2 Test Configuration of Equipment Under Test	9
2.1 Test Mode.....	9
2.2 Connection Diagram of Test System.....	10
2.3 Support Unit used in test configuration and system	10
2.4 Frequency List of Low/Middle/High Channels	11
3 Conducted Test Items.....	16
3.1 Measuring Instruments	16
3.2 Conducted Output Power and ERP/EIRP	17
4 Radiated Test Items	18
4.1 Measuring Instruments	18
4.2 Radiated Spurious Emission Measurement	20
5 List of Measuring Equipment.....	21
6 Measurement Uncertainty	22
Appendix A. Test Results of Conducted Test	
Appendix B. Test Results of Radiated Test	
Appendix C. Test Setup Photographs	



History of this test report

Report No.	Version	Description	Issue Date
FG281920-08B	01	Initial issue of report	Oct. 17, 2023
FG281920-08B	02	Revise Product Feature of Equipment Under Test This report is an updated version, replacing the report issued on Oct. 17, 2023.	Oct. 20, 2023



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
	§22.913 (a)(5)	Effective Radiated Power (Band 5) (Band 26)	Pass	
	§27.50 (b)(10) §27.50 (c)(10)	Effective Radiated Power (Band 12) (Band 13) (Band 17) (Band 71)		
	§24.232 (c) §27.50 (h)(2)	Equivalent Isotropic Radiated Power (Band 2) (Band 25) (Band 7) (Band 38) (Band 41)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (Band 4) (Band 66)		
-	§24.232 (d) §27.50 (d)(5)	Peak-to-Average Ratio	-	See Note
-	§2.1049	Occupied Bandwidth	-	See Note
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (c)(2)(4) §27.53 (g) §27.53 (h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 66) (Band 71)	-	See Note
	§2.1051 §27.53 (m)(4)	Conducted Band Edge Measurement (Band 7) (Band 38) (Band 41)		
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (c)(2) §27.53 (g) §27.53 (h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 66) (Band 71)	-	See Note
	§2.1051 §27.53 (m)(4)	Conducted Spurious Emission (Band 7) (Band 38) (Band 41)		
-	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	-	See Note



Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
4.2	§2.1053 §22.917 (a) §24.238 (a) §27.53 (c)(2) §27.53 (f) §27.53 (g) §27.53 (h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 66) (Band 71)	Pass	23.59 dB under the limit at 2109.00 MHz
	§2.1051 §27.53 (m)(4)	Radiated Spurious Emission (Band 7) (Band 38) (Band 41)		

Remark:

- For host device, Radiated Spurious Emission, Effective Radiated Power and Equivalent Isotropic Radiated Power are verified and complies with the limit in this test report.
- For host device, the Conducted Output Power is no difference after compared to module (Model: FM101-GL)

Conformity Assessment Condition:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Sheng Kuo

Report Producer: Michelle Chen



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
General Specs	WCDMA/LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, and Wi-Fi 6GHz 802.11ax
Integrated WLAN Module	Brand Name: REALTEK Model Name: RTL8852CE FCC ID: TX2-RTL8852CE
Integrated WLAN Module	Brand Name: Intel Model Name: AX211NGW FCC ID: PD9AX211NG
Antenna Type	WWAN: PIFA Antenna WLAN: <Main>: PIFA Antenna <Aux.>: PIFA Antenna Bluetooth: PIFA Antenna



WWAN Antenna Information				
Antenna 5 (Notebook Mode)	Part number	6036B0327801 (81EABL15.G79)	Peak gain (dBi)	LTE Band 2: 0.72
				LTE Band 4: 2.54
				LTE Band 5: -0.96
				LTE Band 7: 1.47
				LTE Band 12: -0.65
				LTE Band 13: -0.99
				LTE Band 17: -0.69
				LTE Band 25: 2.83
				LTE Band 26: -0.96
				LTE Band 38: 0.96
				LTE Band 41: 0.47
				LTE Band 66: 2.19
				LTE Band 71: -0.71
			Type	PIFA
Antenna 5 (Tablet Mode)	Part number	6036B0327801 (81EABL15.G79)	Peak gain (dBi)	LTE Band 2: 0.16
				LTE Band 4: 0.44
				LTE Band 5: 0.63
				LTE Band 7: 0.64
				LTE Band 12: 1.77
				LTE Band 13: -0.17
				LTE Band 17: 1.77
				LTE Band 25: 2.26
				LTE Band 26: 1.02
				LTE Band 38: -0.55
				LTE Band 41: 0.64
				LTE Band 66: 2.59
				LTE Band 71: 0.07
			Type	PIFA

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.2 Modification of EUT

No modifications made to the EUT during the testing.



1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No.
	TH03-HY
Test Engineer	Cotty Hsu
Temperature (°C)	22.2~23.1
Relative Humidity (%)	51~56

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No.
	03CH21-HY (TAF Code: 3786)
Test Engineer	Jack Cheng, Ray Lung and Sky Chang
Temperature (°C)	18~26
Relative Humidity (%)	50~70
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190 and TW3786

1.4 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ FCC 47 CFR Part 2, 22(H), 24(E), 27
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.



2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in Tablet Type (three orthogonal axis (X: flat, Y: portrait, Z: landscape)) and Notebook Type, and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report.

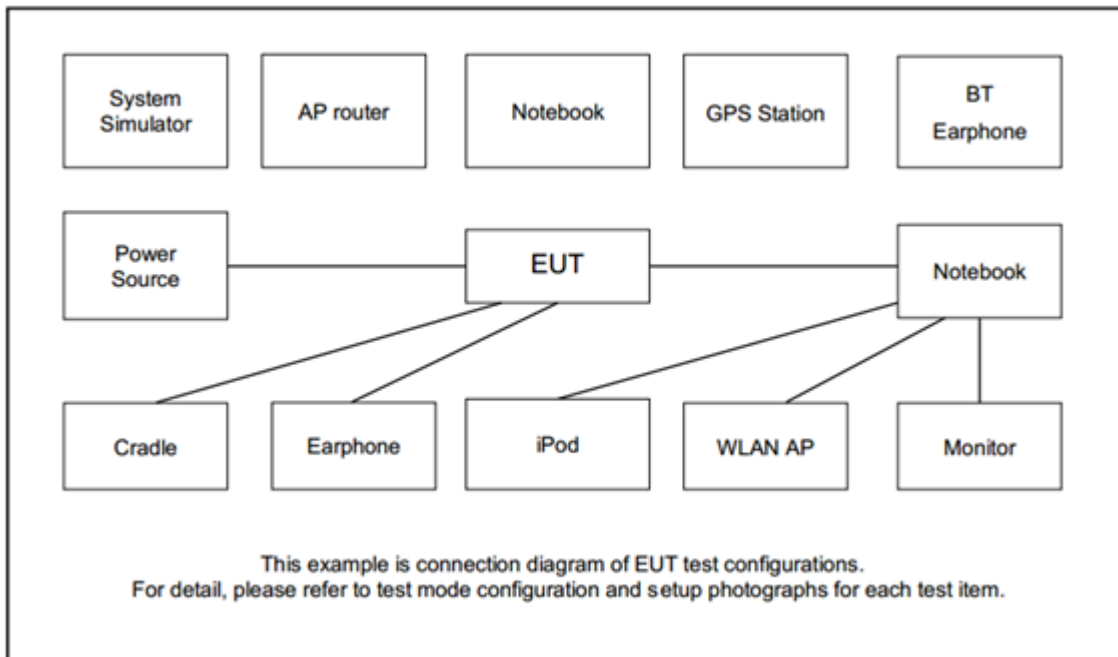
Modulation Type	Modulation
A	QPSK
B	16QAM

Test Item	Modulation Type	Bandwidth	RB Size	Channel
Conducted Power	A, B	All	1, Half, Full	L, M, H
EIRP	A, B	All	1, Half, Full	L, M, H
RSE	A	10 MHz or less	1RB	L, M, H

Remark:

1. Evaluated all the transmitter signal and reporting worst-case configuration among all modulation types.
2. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst-case emissions are reported.
3. During the RSE preliminary test, the standalone mode and charging modes were verified. It is determined that the adapter mode is the worst case for the official test.

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
2.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A



2.4 Frequency List of Low/Middle/High Channels

LTE Band 2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	18700	18900	19100
	Frequency	1860	1880	1900
15	Channel	18675	18900	19125
	Frequency	1857.5	1880	1902.5
10	Channel	18650	18900	19150
	Frequency	1855	1880	1905
5	Channel	18625	18900	19175
	Frequency	1852.5	1880	1907.5
3	Channel	18615	18900	19185
	Frequency	1851.5	1880	1908.5
1.4	Channel	18607	18900	19193
	Frequency	1850.7	1880	1909.3

LTE Band 4 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20050	20175	20300
	Frequency	1720	1732.5	1745
15	Channel	20025	20175	20325
	Frequency	1717.5	1732.5	1747.5
10	Channel	20000	20175	20350
	Frequency	1715	1732.5	1750
5	Channel	19975	20175	20375
	Frequency	1712.5	1732.5	1752.5
3	Channel	19965	20175	20385
	Frequency	1711.5	1732.5	1753.5
1.4	Channel	19957	20175	20393
	Frequency	1710.7	1732.5	1754.3



LTE Band 5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	20450	20525	20600
	Frequency	829	836.5	844
5	Channel	20425	20525	20625
	Frequency	826.5	836.5	846.5
3	Channel	20415	20525	20635
	Frequency	825.5	836.5	847.5
1.4	Channel	20407	20525	20643
	Frequency	824.7	836.5	848.3

LTE Band 7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20850	21100	21350
	Frequency	2510	2535	2560
15	Channel	20825	21100	21375
	Frequency	2507.5	2535	2562.5
10	Channel	20800	21100	21400
	Frequency	2505	2535	2565
5	Channel	20775	21100	21425
	Frequency	2502.5	2535	2567.5

LTE Band 12 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23060	23095	23130
	Frequency	704	707.5	711
5	Channel	23035	23095	23155
	Frequency	701.5	707.5	713.5
3	Channel	23025	23095	23165
	Frequency	700.5	707.5	714.5
1.4	Channel	23017	23095	23173
	Frequency	699.7	707.5	715.3



LTE Band 13 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	23230	-
	Frequency	-	782	-
5	Channel	23205	23230	23255
	Frequency	779.5	782	784.5

LTE Band 17 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23780	23790	23800
	Frequency	709	710	711
5	Channel	23755	23790	23825
	Frequency	706.5	710	713.5

LTE Band 25 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	26140	26340	26590
	Frequency	1860	1880	1905
15	Channel	26115	26340	26615
	Frequency	1857.5	1880	1907.5
10	Channel	26090	26340	26640
	Frequency	1855	1880	1910
5	Channel	26065	26340	26665
	Frequency	1852.5	1880	1912.5
3	Channel	26055	26340	26675
	Frequency	1851.5	1880	1913.5
1.4	Channel	26047	26340	26683
	Frequency	1850.7	1880	1914.3



LTE Band 26 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	26865	26915	26965
	Frequency	831.5	836.5	841.5
10	Channel	26840	26915	26990
	Frequency	829.0	836.5	844.0
5	Channel	26815	26915	27015
	Frequency	826.5	836.5	846.5
3	Channel	26805	26915	27025
	Frequency	825.5	836.5	847.5
1.4	Channel	26797	26915	27033
	Frequency	824.7	836.5	848.3

LTE Band 38 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	37850	38000	38150
	Frequency	2580.0	2595.0	2610.0
15	Channel	37825	38000	38175
	Frequency	2577.5	2595.0	2612.5
10	Channel	37800	38000	38200
	Frequency	2575.0	2595.0	2615.0
5	Channel	37775	38000	38225
	Frequency	2572.5	2595.0	2617.5

LTE Band 41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	39750	40620	41490
	Frequency	2506.0	2593.0	2680.0
15	Channel	39725	40620	41515
	Frequency	2503.5	2593.0	2682.5
10	Channel	39700	40620	41540
	Frequency	2501.0	2593.0	2685.0
5	Channel	39675	40620	41565
	Frequency	2498.5	2593.0	2687.5



LTE Band 66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	132072	132322	132572
	Frequency	1720	1745	1770
15	Channel	132047	132322	132597
	Frequency	1717.5	1745	1772.5
10	Channel	132022	132322	132622
	Frequency	1715	1745	1775
5	Channel	131997	132322	132647
	Frequency	1712.5	1745	1777.5
3	Channel	131987	132322	132657
	Frequency	1711.5	1745	1778.5
1.4	Channel	131979	132322	132665
	Frequency	1710.7	1745	1779.3

LTE Band 71 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	133222	133297	133372
	Frequency	673.0	680.5	688.0
15	Channel	133197	133297	133397
	Frequency	670.5	680.5	690.5
10	Channel	133172	133297	133422
	Frequency	668.0	680.5	693.0
5	Channel	133147	133297	133447
	Frequency	665.5	680.5	695.5

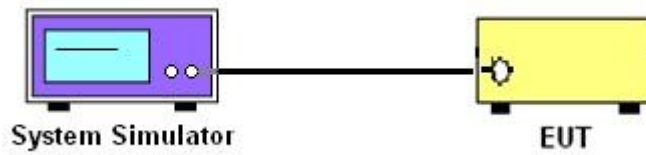
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power



3.1.3 Test Result of Conducted Test

Please refer to Appendix A.



3.2 Conducted Output Power and ERP/EIRP

3.2.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5 and Band 26

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12 and Band 13 and Band 17 and Band 71

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2 and Band 25 and Band 7 and Band 38 and Band 41

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4 and Band 66

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.2.2 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

4 Radiated Test Items

4.1 Measuring Instruments

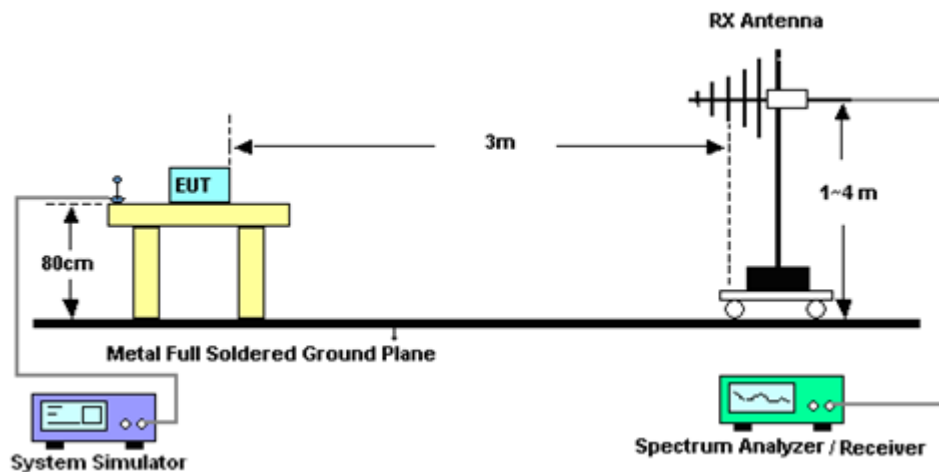
See list of measuring instruments of this test report.

4.1.1 Test Setup

For radiated test below 30MHz



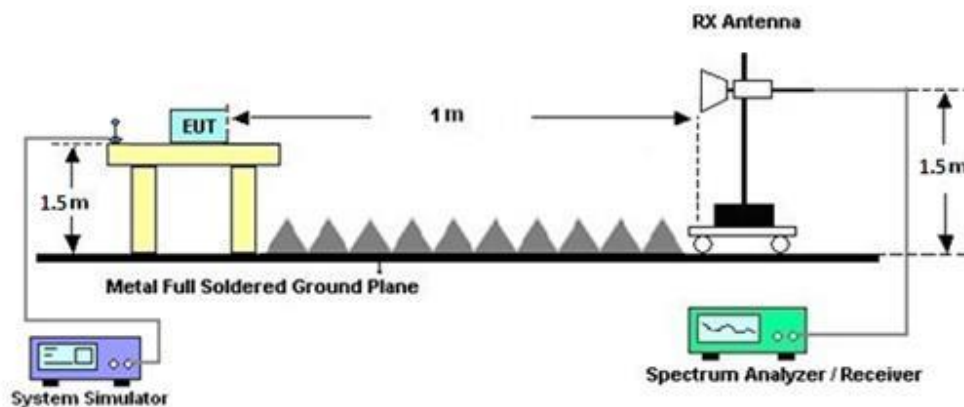
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

Note:

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.



4.2 Radiated Spurious Emission Measurement

4.2.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For LTE Band 7, 38, 41

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

For LTE Band 13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI C63.26-2015 section 5.5.4 Radiated measurement using the field strength method.

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. To convert spectrum reading E(dBuV/m) to EIRP(dBm)
 $EIRP(dBm) = Level (dBuV/m) + 20\log(d) - 104.77$, where d is the distance at which field strength limit is specified in the rules
7. Field Strength Level (dBm) = Spectrum Reading (dBm) + Antenna Factor + Cable Loss + Read Level - Preamp Factor.
8. ERP (dBm) = EIRP - 2.15
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
For LTE Band 7, 38, 41

The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Radio Communication Analyzer	Anritsu	MT8821C	6262025353	LTE FDD/TDD LTE-2CC DLCA/ULCA	Oct. 13, 2022	Sep. 29, 2023~ Oct. 06, 2023	Oct. 12, 2023	Conducted (TH03-HY)
Coupler	Warison	20dB 25W SMA Directional Coupler	#B	1-18GHz	Jan. 06, 2023	Sep. 29, 2023~ Oct. 06, 2023	Jan. 05, 2024	Conducted (TH03-HY)
LOOP Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 12, 2023	Oct. 05, 2023~ Oct. 06, 2023	Sep. 11, 2024	Radiation (03CH21-HY)
Bilog Antenna	TESEQ	CBL 6111D&00802N 1D01N-06	55606 & 08	30MHz~1GHz	Oct. 22, 2022	Oct. 05, 2023~ Oct. 06, 2023	Oct. 21, 2023	Radiation (03CH21-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C03A18EN	1GHz~18GHz	Jul. 12, 2023	Oct. 05, 2023~ Oct. 06, 2023	Jul. 11, 2024	Radiation (03CH21-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	1223	18GHz~40GHz	Jul. 10, 2023	Oct. 05, 2023~ Oct. 06, 2023	Jul. 09, 2024	Radiation (03CH21-HY)
Amplifier	SONOMA	310N	421580	30MHz~1GHz	Jul. 15, 2023	Oct. 05, 2023~ Oct. 06, 2023	Jul. 14, 2024	Radiation (03CH21-HY)
Amplifier	EMEC	EM01G18GA	060876	1GHz~18GHz	Sep. 28, 2023	Oct. 05, 2023~ Oct. 06, 2023	Sep. 27, 2024	Radiation (03CH21-HY)
Preamplifier	EMEC	EM18G40G	060871	18GHz~40GHz	Aug. 30, 2023	Oct. 05, 2023~ Oct. 06, 2023	Aug. 29, 2024	Radiation (03CH21-HY)
Spectrum Analyzer	Keysight	N9010B	MY62170358	10Hz~44GHz	Aug. 28, 2023	Oct. 05, 2023~ Oct. 06, 2023	Aug. 27, 2024	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 07, 2023	Oct. 05, 2023~ Oct. 06, 2023	Mar. 06, 2024	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804397/2,804612/ 2,804614/2	30MHz~40GHz	Oct. 25, 2022	Oct. 05, 2023~ Oct. 06, 2023	Oct. 24, 2023	Radiation (03CH21-HY)
Hygrometer	TECPEL	DTM-303A	TP211568	N/A	Nov. 17, 2022	Oct. 05, 2023~ Oct. 06, 2023	Nov. 16, 2023	Radiation (03CH21-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Oct. 05, 2023~ Oct. 06, 2023	N/A	Radiation (03CH21-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Oct. 05, 2023~ Oct. 06, 2023	N/A	Radiation (03CH21-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Oct. 05, 2023~ Oct. 06, 2023	N/A	Radiation (03CH21-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Oct. 05, 2023~ Oct. 06, 2023	N/A	Radiation (03CH21-HY)



6 Measurement Uncertainty

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.06 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.31 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.30 dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power & ERP/EIRP)

LTE Band 2 Maximum Average Power [dBm] (GT - LC = 0.72 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	22.71	22.85	22.63	23.57	0.2275
20	1	49		22.70	22.73	22.68		
20	1	99		22.65	22.63	22.63		
20	50	0		21.72	21.79	21.69		
20	50	24		21.73	21.79	21.72		
20	50	50		21.70	21.73	21.72		
20	100	0		21.71	21.77	21.67		
20	1	0	16-QAM	21.95	22.03	21.92	22.75	0.1884
20	1	49		22.00	21.97	21.92		
20	1	99		21.91	21.83	21.82		
20	50	0		20.74	20.82	20.69		
20	50	24		20.75	20.80	20.73		
20	50	50		20.70	20.75	20.70		
20	100	0		20.71	20.78	20.68		
Limit	EIRP < 2W			Result			Pass	

LTE Band 2 Maximum Average Power [dBm] (GT - LC = 0.72 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	22.72	22.80	22.66	23.52	0.2249
15	1	37		22.69	22.74	22.57		
15	1	74		22.66	22.70	22.58		
15	36	0		21.73	21.82	21.73		
15	36	20		21.77	21.85	21.75		
15	36	39		21.70	21.79	21.64		
15	75	0		21.72	21.80	21.75		
15	1	0	16-QAM	22.00	22.07	21.95	22.79	0.1901
15	1	37		22.02	22.02	21.83		
15	1	74		21.90	21.99	21.86		
15	36	0		20.74	20.83	20.71		
15	36	20		20.77	20.83	20.77		
15	36	39		20.71	20.76	20.63		
15	75	0		20.74	20.79	20.75		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = 0.72 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	22.76	22.80	22.75	23.52	0.2249
10	1	25		22.71	22.76	22.67		
10	1	49		22.67	22.78	22.64		
10	25	0		21.73	21.84	21.78		
10	25	12		21.74	21.82	21.70		
10	25	25		21.72	21.83	21.66		
10	50	0		21.73	21.83	21.76		
10	1	0	16-QAM	22.00	22.06	22.00	22.78	0.1897
10	1	25		22.01	22.04	21.90		
10	1	49		21.99	22.01	21.90		
10	25	0		20.73	20.83	20.75		
10	25	12		20.76	20.84	20.69		
10	25	25		20.74	20.79	20.64		
10	50	0		20.73	20.82	20.78		
Limit	EIRP < 2W			Result			Pass	

LTE Band 2 Maximum Average Power [dBm] (GT - LC = 0.72 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	22.73	22.81	22.64	23.55	0.2265
5	1	12		22.68	22.80	22.69		
5	1	24		22.70	22.83	22.63		
5	12	0		21.69	21.78	21.66		
5	12	7		21.71	21.80	21.68		
5	12	13		21.69	21.77	21.65		
5	25	0		21.68	21.79	21.65		
5	1	0	16-QAM	21.96	22.03	21.85	22.75	0.1884
5	1	12		21.96	22.03	21.91		
5	1	24		21.94	21.99	21.89		
5	12	0		20.70	20.80	20.67		
5	12	7		20.72	20.83	20.72		
5	12	13		20.71	20.81	20.68		
5	25	0		20.70	20.81	20.64		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = 0.72 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	22.69	22.83	22.65	23.55	0.2265
3	1	8		22.70	22.80	22.66		
3	1	14		22.68	22.80	22.66		
3	8	0		21.66	21.79	21.65		
3	8	4		21.72	21.80	21.72		
3	8	7		21.68	21.79	21.65		
3	15	0		21.68	21.78	21.67		
3	1	0	16-QAM	21.91	22.00	21.85	22.75	0.1884
3	1	8		21.96	22.03	21.91		
3	1	14		21.91	21.97	21.89		
3	8	0		20.73	20.84	20.72		
3	8	4		20.75	20.87	20.75		
3	8	7		20.73	20.83	20.71		
3	15	0		20.69	20.79	20.69		
Limit	EIRP < 2W			Result			Pass	

LTE Band 2 Maximum Average Power [dBm] (GT - LC = 0.72 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	22.55	22.68	22.58	23.49	0.2234
1.4	1	3		22.62	22.74	22.63		
1.4	1	5		22.57	22.68	22.55		
1.4	3	0		22.64	22.74	22.61		
1.4	3	1		22.68	22.77	22.66		
1.4	3	3		22.65	22.75	22.61		
1.4	6	0		21.60	21.70	21.57		
1.4	1	0	16-QAM	21.84	21.92	21.80	22.72	0.1871
1.4	1	3		21.92	22.00	21.91		
1.4	1	5		21.85	21.92	21.83		
1.4	3	0		21.63	21.74	21.62		
1.4	3	1		21.70	21.78	21.67		
1.4	3	3		21.63	21.73	21.61		
1.4	6	0		20.67	20.79	20.66		
Limit	EIRP < 2W			Result			Pass	



LTE Band 25 Maximum Average Power [dBm] (GT - LC = 2.83 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	22.63	22.78	22.51	25.61	0.3639
20	1	49		22.61	22.67	22.45		
20	1	99		22.59	22.67	22.48		
20	50	0		22.45	22.59	22.42		
20	50	24		22.44	22.51	22.37		
20	50	50		22.42	22.51	22.31		
20	100	0		22.41	22.48	22.40		
20	1	0	16-QAM	22.71	22.75	22.66	25.58	0.3614
20	1	49		22.69	22.67	22.55		
20	1	99		22.66	22.70	22.58		
20	50	0		21.17	21.25	21.17		
20	50	24		21.17	21.22	21.07		
20	50	50		21.16	21.20	21.16		
20	100	0		21.16	21.21	21.14		
Limit	EIRP < 2W			Result			Pass	

LTE Band 25 Maximum Average Power [dBm] (GT - LC = 2.83 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	22.63	22.74	22.42	25.57	0.3606
15	1	37		22.61	22.67	22.44		
15	1	74		22.54	22.66	22.44		
15	36	0		22.38	22.49	22.34		
15	36	20		22.38	22.48	22.30		
15	36	39		22.35	22.43	22.27		
15	75	0		22.36	22.40	22.40		
15	1	0	16-QAM	22.63	22.69	22.65	25.52	0.3565
15	1	37		22.59	22.65	22.50		
15	1	74		22.58	22.63	22.51		
15	36	0		21.59	21.63	21.53		
15	36	20		21.56	21.63	21.61		
15	36	39		21.52	21.59	21.50		
15	75	0		21.60	21.69	21.51		
Limit	EIRP < 2W			Result			Pass	



LTE Band 25 Maximum Average Power [dBm] (GT - LC = 2.83 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	22.60	22.68	22.44	25.51	0.3556
10	1	25		22.61	22.62	22.41		
10	1	49		22.59	22.65	22.45		
10	25	0		22.37	22.49	22.41		
10	25	12		22.38	22.48	22.35		
10	25	25		22.37	22.45	22.23		
10	50	0		22.35	22.40	22.35		
10	1	0	16-QAM	22.69	22.71	22.63	25.54	0.3581
10	1	25		22.64	22.58	22.54		
10	1	49		22.61	22.66	22.50		
10	25	0		21.63	21.67	21.54		
10	25	12		21.62	21.64	21.62		
10	25	25		21.59	21.62	21.51		
10	50	0		21.54	21.67	21.61		
Limit	EIRP < 2W			Result			Pass	

LTE Band 25 Maximum Average Power [dBm] (GT - LC = 2.83 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	22.58	22.76	22.43	25.59	0.3622
5	1	12		22.54	22.66	22.37		
5	1	24		22.49	22.59	22.39		
5	12	0		22.37	22.59	22.37		
5	12	7		22.40	22.51	22.30		
5	12	13		22.41	22.46	22.27		
5	25	0		22.39	22.47	22.34		
5	1	0	16-QAM	22.64	22.73	22.61	25.56	0.3597
5	1	12		22.63	22.67	22.52		
5	1	24		22.57	22.70	22.49		
5	12	0		21.59	21.63	21.51		
5	12	7		21.64	21.68	21.53		
5	12	13		21.60	21.67	21.47		
5	25	0		21.58	21.64	21.55		
Limit	EIRP < 2W			Result			Pass	



LTE Band 25 Maximum Average Power [dBm] (GT - LC = 2.83 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	22.53	22.72	22.43	25.55	0.3589
3	1	8		22.55	22.65	22.35		
3	1	14		22.54	22.64	22.40		
3	8	0		22.37	22.51	22.39		
3	8	4		22.36	22.42	22.27		
3	8	7		22.36	22.46	22.29		
3	15	0		22.40	22.45	22.30		
3	1	0	16-QAM	22.62	22.65	22.66	25.50	0.3548
3	1	8		22.67	22.64	22.49		
3	1	14		22.61	22.67	22.58		
3	8	0		21.56	21.69	21.50		
3	8	4		21.60	21.67	21.52		
3	8	7		21.56	21.62	21.46		
3	15	0		21.56	21.61	21.52		
Limit	EIRP < 2W			Result			Pass	

LTE Band 25 Maximum Average Power [dBm] (GT - LC = 2.83 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	22.44	22.70	22.39	25.53	0.3573
1.4	1	3		22.52	22.64	22.27		
1.4	1	5		22.51	22.56	22.30		
1.4	3	0		22.52	22.67	22.34		
1.4	3	1		22.51	22.65	22.35		
1.4	3	3		22.53	22.60	22.32		
1.4	6	0		22.29	22.43	22.31		
1.4	1	0	16-QAM	22.35	22.39	22.17	25.50	0.3548
1.4	1	3		22.29	22.39	22.23		
1.4	1	5		22.34	22.40	22.30		
1.4	3	0		22.54	22.64	22.56		
1.4	3	1		22.59	22.56	22.43		
1.4	3	3		22.54	22.67	22.55		
1.4	6	0		21.46	21.57	21.36		
Limit	EIRP < 2W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = 2.54 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	22.38	22.62	22.49	25.16	0.3281
20	1	49		22.37	22.42	22.48		
20	1	99		22.38	22.35	22.42		
20	50	0		21.42	21.51	21.55		
20	50	24		21.56	21.53	21.54		
20	50	50		21.50	21.47	21.54		
20	100	0		21.52	21.50	21.52		
20	1	0	16-QAM	21.67	21.78	21.80	24.34	0.2716
20	1	49		21.65	21.75	21.77		
20	1	99		21.71	21.67	21.73		
20	50	0		20.44	20.54	20.56		
20	50	24		20.55	20.54	20.57		
20	50	50		20.50	20.50	20.53		
20	100	0		20.51	20.50	20.55		
Limit	EIRP < 1W			Result			Pass	

LTE Band 4 Maximum Average Power [dBm] (GT - LC = 2.54 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	22.40	22.49	22.51	25.05	0.3199
15	1	37		22.39	22.47	22.51		
15	1	74		22.42	22.43	22.44		
15	36	0		21.44	21.53	21.59		
15	36	20		21.57	21.57	21.63		
15	36	39		21.51	21.52	21.56		
15	75	0		21.53	21.54	21.57		
15	1	0	16-QAM	21.67	21.82	21.83	24.37	0.2735
15	1	37		21.70	21.78	21.82		
15	1	74		21.72	21.71	21.77		
15	36	0		20.45	20.57	20.58		
15	36	20		20.58	20.56	20.58		
15	36	39		20.52	20.52	20.58		
15	75	0		20.54	20.55	20.57		
Limit	EIRP < 1W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = 2.54 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	22.43	22.52	22.59	25.13	0.3258
10	1	25		22.45	22.51	22.58		
10	1	49		22.38	22.45	22.51		
10	25	0		21.48	21.57	21.62		
10	25	12		21.49	21.56	21.64		
10	25	25		21.45	21.53	21.60		
10	50	0		21.46	21.55	21.61		
10	1	0	16-QAM	21.71	21.86	21.85	24.40	0.2754
10	1	25		21.71	21.82	21.85		
10	1	49		21.66	21.75	21.80		
10	25	0		20.46	20.58	20.60		
10	25	12		20.48	20.58	20.62		
10	25	25		20.44	20.53	20.59		
10	50	0		20.47	20.55	20.62		
Limit	EIRP < 1W			Result			Pass	

LTE Band 4 Maximum Average Power [dBm] (GT - LC = 2.54 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	22.41	22.47	22.54	25.10	0.3236
5	1	12		22.40	22.50	22.56		
5	1	24		22.38	22.45	22.48		
5	12	0		21.45	21.55	21.59		
5	12	7		21.50	21.54	21.62		
5	12	13		21.46	21.52	21.56		
5	25	0		21.45	21.55	21.58		
5	1	0	16-QAM	21.65	21.77	21.81	24.39	0.2748
5	1	12		21.69	21.80	21.85		
5	1	24		21.66	21.76	21.79		
5	12	0		20.46	20.55	20.60		
5	12	7		20.48	20.57	20.64		
5	12	13		20.45	20.53	20.59		
5	25	0		20.43	20.54	20.57		
Limit	EIRP < 1W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = 2.54 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	22.38	22.46	22.53	25.07	0.3214
3	1	8		22.40	22.48	22.53		
3	1	14		22.37	22.44	22.49		
3	8	0		21.46	21.55	21.59		
3	8	4		21.49	21.57	21.62		
3	8	7		21.44	21.53	21.58		
3	15	0		21.44	21.52	21.59		
3	1	0	16-QAM	21.62	21.76	21.80	24.39	0.2748
3	1	8		21.68	21.79	21.85		
3	1	14		21.62	21.72	21.78		
3	8	0		20.49	20.58	20.66		
3	8	4		20.52	20.63	20.69		
3	8	7		20.49	20.60	20.65		
3	15	0		20.47	20.54	20.63		
Limit	EIRP < 1W			Result			Pass	

LTE Band 4 Maximum Average Power [dBm] (GT - LC = 2.54 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	22.29	22.41	22.46	25.11	0.3243
1.4	1	3		22.37	22.48	22.54		
1.4	1	5		22.30	22.40	22.46		
1.4	3	0		22.37	22.45	22.52		
1.4	3	1		22.44	22.51	22.57		
1.4	3	3		22.37	22.45	22.51		
1.4	6	0		21.36	21.48	21.50		
1.4	1	0	16-QAM	21.59	21.70	21.75	24.37	0.2735
1.4	1	3		21.65	21.77	21.83		
1.4	1	5		21.57	21.70	21.75		
1.4	3	0		21.37	21.48	21.56		
1.4	3	1		21.42	21.52	21.59		
1.4	3	3		21.36	21.46	21.53		
1.4	6	0		20.41	20.54	20.61		
Limit	EIRP < 1W			Result			Pass	



LTE Band 5 Maximum Average Power [dBm] (GT - LC = 0.63 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	23.40	23.46	23.44	21.94	0.1563
10	1	25		23.37	23.39	23.39		
10	1	49		23.43	23.33	23.26		
10	25	0		22.40	22.44	22.43		
10	25	12		22.51	22.42	22.44		
10	25	25		22.48	22.38	22.39		
10	50	0		22.48	22.39	22.41		
10	1	0	16-QAM	22.63	22.68	22.66	21.16	0.1306
10	1	25		22.60	22.63	22.63		
10	1	49		22.59	22.56	22.48		
10	25	0		21.41	21.41	21.41		
10	25	12		21.50	21.43	21.41		
10	25	25		21.44	21.37	21.35		
10	50	0		21.50	21.41	21.40		
Limit	ERP < 7W			Result			Pass	

LTE Band 5 Maximum Average Power [dBm] (GT - LC = 0.63 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	23.38	23.40	23.33	21.88	0.1542
5	1	12		23.36	23.38	23.35		
5	1	24		23.33	23.33	23.10		
5	12	0		22.43	22.39	22.34		
5	12	7		22.40	22.39	22.36		
5	12	13		22.40	22.37	22.31		
5	25	0		22.38	22.39	22.36		
5	1	0	16-QAM	22.62	22.61	22.56	21.12	0.1294
5	1	12		22.64	22.61	22.54		
5	1	24		22.58	22.57	22.46		
5	12	0		21.39	21.41	21.34		
5	12	7		21.45	21.45	21.37		
5	12	13		21.38	21.36	21.33		
5	25	0		21.38	21.36	21.34		
Limit	ERP < 7W			Result			Pass	



LTE Band 5 Maximum Average Power [dBm] (GT - LC = 0.63 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	23.37	23.35	23.37	21.85	0.1531
3	1	8		23.34	23.37	23.32		
3	1	14		23.33	23.37	23.13		
3	8	0		22.39	22.39	22.35		
3	8	4		22.44	22.40	22.38		
3	8	7		22.36	22.37	22.34		
3	15	0		22.41	22.38	22.35		
3	1	0	16-QAM	22.65	22.60	22.54	21.13	0.1297
3	1	8		22.63	22.62	22.52		
3	1	14		22.59	22.60	22.46		
3	8	0		21.45	21.44	21.39		
3	8	4		21.47	21.44	21.41		
3	8	7		21.45	21.42	21.39		
3	15	0		21.40	21.40	21.36		
Limit	ERP < 7W			Result			Pass	

LTE Band 5 Maximum Average Power [dBm] (GT - LC = 0.63 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	23.28	23.27	23.18	21.89	0.1545
1.4	1	3		23.35	23.34	23.25		
1.4	1	5		23.26	23.25	23.15		
1.4	3	0		23.34	23.33	23.28		
1.4	3	1		23.40	23.41	23.35		
1.4	3	3		23.35	23.34	23.28		
1.4	6	0		22.34	22.29	22.26		
1.4	1	0	16-QAM	22.56	22.52	22.47	21.09	0.1285
1.4	1	3		22.61	22.61	22.51		
1.4	1	5		22.55	22.53	22.42		
1.4	3	0		22.34	22.31	22.28		
1.4	3	1		22.39	22.36	22.30		
1.4	3	3		22.34	22.29	22.26		
1.4	6	0		21.38	21.38	21.33		
Limit	ERP < 7W			Result			Pass	



LTE Band 7 Maximum Average Power [dBm] (GT - LC = 1.47 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.61	23.72	23.68	25.19	0.3304
20	1	49		23.48	23.60	23.61		
20	1	99		23.60	23.59	23.56		
20	50	0		22.65	22.77	22.68		
20	50	24		22.60	22.66	22.68		
20	50	50		22.61	22.70	22.63		
20	100	0		22.61	22.70	22.66		
20	1	0	16-QAM	22.81	22.88	22.85	24.35	0.2723
20	1	49		22.83	22.87	22.82		
20	1	99		22.77	22.86	22.80		
20	50	0		21.56	21.58	21.62		
20	50	24		21.63	21.62	21.69		
20	50	50		21.65	21.73	21.73		
20	100	0		21.58	21.63	21.66		
Limit	EIRP < 2W			Result			Pass	

LTE Band 7 Maximum Average Power [dBm] (GT - LC = 1.47 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	23.51	23.65	23.64	25.12	0.3251
15	1	37		23.43	23.56	23.54		
15	1	74		23.51	23.59	23.54		
15	36	0		22.55	22.75	22.68		
15	36	20		22.52	22.57	22.63		
15	36	39		22.51	22.65	22.56		
15	75	0		22.59	22.61	22.66		
15	1	0	16-QAM	22.80	22.83	22.83	24.32	0.2704
15	1	37		22.83	22.77	22.74		
15	1	74		22.74	22.85	22.73		
15	36	0		21.53	21.53	21.57		
15	36	20		21.55	21.54	21.62		
15	36	39		21.55	21.70	21.72		
15	75	0		21.48	21.54	21.66		
Limit	EIRP < 2W			Result			Pass	



LTE Band 7 Maximum Average Power [dBm] (GT - LC = 1.47 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	23.54	23.71	23.62	25.18	0.3296
10	1	25		23.38	23.56	23.61		
10	1	49		23.51	23.58	23.52		
10	25	0		22.64	22.72	22.59		
10	25	12		22.55	22.60	22.64		
10	25	25		22.51	22.64	22.60		
10	50	0		22.53	22.70	22.56		
10	1	0	16-QAM	22.73	22.87	22.85	24.34	0.2716
10	1	25		22.82	22.77	22.73		
10	1	49		22.73	22.79	22.70		
10	25	0		21.46	21.57	21.57		
10	25	12		21.58	21.56	21.69		
10	25	25		21.63	21.65	21.64		
10	50	0		21.58	21.59	21.60		
Limit	EIRP < 2W			Result			Pass	

LTE Band 7 Maximum Average Power [dBm] (GT - LC = 1.47 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.56	23.62	23.64	25.11	0.3243
5	1	12		23.42	23.53	23.54		
5	1	24		23.52	23.59	23.54		
5	12	0		22.64	22.73	22.58		
5	12	7		22.52	22.58	22.68		
5	12	13		22.54	22.60	22.62		
5	25	0		22.61	22.68	22.59		
5	1	0	16-QAM	22.74	22.80	22.80	24.27	0.2673
5	1	12		22.74	22.78	22.77		
5	1	24		22.72	22.76	22.78		
5	12	0		21.49	21.48	21.53		
5	12	7		21.60	21.52	21.65		
5	12	13		21.62	21.70	21.64		
5	25	0		21.57	21.54	21.58		
Limit	EIRP < 2W			Result			Pass	



LTE Band 12 Maximum Average Power [dBm] (GT - LC = 1.77 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	24.14	24.15	24.12	23.77	0.2382
10	1	25		24.07	24.11	24.06		
10	1	49		24.12	24.07	24.03		
10	25	0		23.72	23.74	23.65		
10	25	12		23.62	23.67	23.64		
10	25	25		23.62	23.62	23.63		
10	50	0		23.61	23.67	23.63		
10	1	0	16-QAM	23.86	23.99	23.90	23.61	0.2296
10	1	25		23.88	23.85	23.89		
10	1	49		23.82	23.93	23.82		
10	25	0		22.69	22.70	22.67		
10	25	12		22.64	22.68	22.66		
10	25	25		22.61	22.65	22.62		
10	50	0		22.68	22.70	22.64		
Limit	ERP < 3W			Result			Pass	

LTE Band 12 Maximum Average Power [dBm] (GT - LC = 1.77 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	24.11	24.12	24.11	23.74	0.2366
5	1	12		23.99	24.07	24.01		
5	1	24		24.03	24.00	23.96		
5	12	0		23.65	23.68	23.57		
5	12	7		23.57	23.67	23.56		
5	12	13		23.62	23.58	23.59		
5	25	0		23.60	23.63	23.58		
5	1	0	16-QAM	23.79	23.91	23.88	23.53	0.2254
5	1	12		23.83	23.77	23.83		
5	1	24		23.74	23.84	23.80		
5	12	0		22.66	22.67	22.59		
5	12	7		22.54	22.66	22.58		
5	12	13		22.58	22.64	22.54		
5	25	0		22.59	22.61	22.60		
Limit	ERP < 3W			Result			Pass	



LTE Band 12 Maximum Average Power [dBm] (GT - LC = 1.77 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	24.06	24.09	24.12	23.74	0.2366
3	1	8		24.04	24.09	24.01		
3	1	14		24.10	24.01	23.99		
3	8	0		23.72	23.64	23.62		
3	8	4		23.55	23.60	23.58		
3	8	7		23.55	23.59	23.55		
3	15	0		23.57	23.62	23.57		
3	1	0	16-QAM	23.76	23.94	23.87	23.56	0.2270
3	1	8		23.82	23.81	23.87		
3	1	14		23.73	23.87	23.76		
3	8	0		22.61	22.64	22.64		
3	8	4		22.54	22.61	22.62		
3	8	7		22.51	22.63	22.57		
3	15	0		22.65	22.64	22.60		
Limit	ERP < 3W			Result			Pass	

LTE Band 12 Maximum Average Power [dBm] (GT - LC = 1.77 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	23.96	24.09	24.08	23.71	0.2350
1.4	1	3		24.01	24.03	23.93		
1.4	1	5		24.01	23.92	23.94		
1.4	3	0		23.99	23.99	24.05		
1.4	3	1		24.02	23.99	23.97		
1.4	3	3		24.08	24.01	23.90		
1.4	6	0		23.64	23.62	23.52		
1.4	1	0	16-QAM	23.52	23.51	23.50	23.50	0.2239
1.4	1	3		23.55	23.55	23.49		
1.4	1	5		23.56	23.60	23.57		
1.4	3	0		23.73	23.88	23.79		
1.4	3	1		23.80	23.72	23.87		
1.4	3	3		23.66	23.85	23.69		
1.4	6	0		22.60	22.55	22.54		
Limit	ERP < 3W			Result			Pass	



LTE Band 13 Maximum Average Power [dBm] (GT - LC = -0.17 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK		23.96		21.64	0.1459
10	1	25			23.87			
10	1	49			23.87			
10	25	0			23.44			
10	25	12			23.43			
10	25	25			23.42			
10	50	0			23.38			
10	1	0	16-QAM		23.61		21.33	0.1358
10	1	25			23.55			
10	1	49			23.65			
10	25	0			22.67			
10	25	12			22.66			
10	25	25			22.62			
10	50	0			22.59			
Limit	ERP < 3W			Result			Pass	

LTE Band 13 Maximum Average Power [dBm] (GT - LC = -0.17 dB)									
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)	
5	1	0	QPSK		23.88	23.87	23.93	21.61	0.1449
5	1	12			23.83	23.81	23.79		
5	1	24			23.78	23.83	23.79		
5	12	0			23.41	23.34	23.35		
5	12	7			23.38	23.33	23.36		
5	12	13			23.35	23.32	23.42		
5	25	0			23.35	23.28	23.31		
5	1	0	16-QAM		23.52	23.61	23.54	21.32	0.1355
5	1	12			23.47	23.53	23.48		
5	1	24			23.62	23.64	23.59		
5	12	0			22.60	22.60	22.66		
5	12	7			22.60	22.63	22.61		
5	12	13			22.53	22.59	22.55		
5	25	0			22.58	22.54	22.54		
Limit	ERP < 3W			Result			Pass		



LTE Band 17 Maximum Average Power [dBm] (GT - LC = 1.77 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	23.81	23.83	23.78	23.45	0.2213
10	1	25		23.71	23.77	23.67		
10	1	49		23.65	23.73	23.71		
10	25	0		23.52	23.55	23.51		
10	25	12		23.51	23.49	23.41		
10	25	25		23.41	23.42	23.45		
10	50	0		23.46	23.51	23.42		
10	1	0	16-QAM	23.80	23.81	23.70	23.43	0.2203
10	1	25		23.71	23.70	23.67		
10	1	49		23.66	23.61	23.59		
10	25	0		22.56	22.63	22.53		
10	25	12		22.54	22.54	22.49		
10	25	25		22.51	22.42	22.42		
10	50	0		22.52	22.54	22.52		
Limit	ERP < 3W			Result			Pass	

LTE Band 17 Maximum Average Power [dBm] (GT - LC = 1.77 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	23.81	23.82	23.78	23.44	0.2208
5	1	12		23.64	23.77	23.57		
5	1	24		23.60	23.65	23.66		
5	12	0		23.48	23.51	23.41		
5	12	7		23.41	23.46	23.32		
5	12	13		23.36	23.39	23.36		
5	25	0		23.46	23.46	23.36		
5	1	0	16-QAM	23.78	23.72	23.65	23.40	0.2188
5	1	12		23.64	23.60	23.65		
5	1	24		23.59	23.61	23.57		
5	12	0		22.55	22.62	22.52		
5	12	7		22.49	22.47	22.42		
5	12	13		22.48	22.36	22.35		
5	25	0		22.51	22.52	22.42		
Limit	ERP < 3W			Result			Pass	



LTE Band 26 Maximum Average Power [dBm] (GT - LC = 1.02 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
15	1	0	QPSK	23.39	23.09	23.23	22.26	0.1683
15	1	37		23.27	23.17	23.21		
15	1	74		23.25	23.21	23.24		
15	36	0		22.32	22.28	22.23		
15	36	20		22.33	22.45	22.31		
15	36	39		22.31	22.17	22.24		
15	75	0		22.32	22.31	22.30		
15	1	0	16-QAM	22.49	22.63	22.51	21.60	0.1445
15	1	37		22.57	22.73	22.53		
15	1	74		22.60	22.70	22.54		
15	36	0		21.36	21.25	21.22		
15	36	20		21.34	21.43	21.31		
15	36	39		21.28	21.51	21.23		
15	75	0		21.32	21.14	21.28		
Limit	ERP < 7W			Result			Pass	

LTE Band 26 Maximum Average Power [dBm] (GT - LC = 1.02 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	23.28	23.30	23.26	22.25	0.1679
10	1	25		23.36	23.35	23.29		
10	1	49		23.22	23.38	23.25		
10	25	0		22.34	22.28	22.27		
10	25	12		22.34	22.40	22.28		
10	25	25		22.39	22.38	22.36		
10	50	0		22.50	22.33	22.26		
10	1	0	16-QAM	22.62	22.44	22.55	21.54	0.1426
10	1	25		22.67	22.59	22.60		
10	1	49		22.59	22.49	22.51		
10	25	0		21.48	21.24	21.28		
10	25	12		21.43	21.31	21.28		
10	25	25		21.35	21.19	21.33		
10	50	0		21.49	21.28	21.27		
Limit	ERP < 7W			Result			Pass	



LTE Band 26 Maximum Average Power [dBm] (GT - LC = 1.02 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	23.23	23.20	23.27	22.24	0.1675
5	1	12		23.37	23.22	23.30		
5	1	24		23.35	23.12	23.28		
5	12	0		22.22	22.24	22.32		
5	12	7		22.30	22.21	22.34		
5	12	13		22.45	22.34	22.32		
5	25	0		22.32	22.25	22.33		
5	1	0	16-QAM	22.61	22.51	22.56	21.54	0.1426
5	1	12		22.55	22.59	22.54		
5	1	24		22.67	22.41	22.48		
5	12	0		21.35	21.27	21.32		
5	12	7		21.37	21.39	21.34		
5	12	13		21.41	21.28	21.29		
5	25	0		21.39	21.39	21.31		
Limit	ERP < 7W			Result			Pass	

LTE Band 26 Maximum Average Power [dBm] (GT - LC = 1.02 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	23.27	23.31	23.31	22.18	0.1652
3	1	8		23.21	23.28	23.27		
3	1	14		23.18	23.26	23.30		
3	8	0		22.38	22.31	22.33		
3	8	4		22.39	22.37	22.35		
3	8	7		22.25	22.33	22.31		
3	15	0		22.36	22.25	22.34		
3	1	0	16-QAM	22.49	22.51	22.53	21.50	0.1413
3	1	8		22.50	22.63	22.55		
3	1	14		22.44	22.62	22.50		
3	8	0		21.35	21.46	21.38		
3	8	4		21.42	21.34	21.41		
3	8	7		21.36	21.46	21.38		
3	15	0		21.45	21.34	21.34		
Limit	ERP < 7W			Result			Pass	



LTE Band 26 Maximum Average Power [dBm] (GT - LC = 1.02 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	23.21	23.15	23.18	22.26	0.1683
1.4	1	3		23.36	23.29	23.25		
1.4	1	5		23.27	23.23	23.16		
1.4	3	0		23.38	23.16	23.23		
1.4	3	1		23.39	23.39	23.29		
1.4	3	3		23.28	23.29	23.25		
1.4	6	0		22.26	22.27	22.24		
1.4	1	0	16-QAM	22.55	22.47	22.46	21.53	0.1422
1.4	1	3		22.66	22.55	22.53		
1.4	1	5		22.38	22.54	22.42		
1.4	3	0		22.36	22.33	22.24		
1.4	3	1		22.38	22.24	22.30		
1.4	3	3		22.34	22.24	22.24		
1.4	6	0		21.36	21.39	21.34		
Limit	ERP < 7W			Result			Pass	



LTE Band 38 Maximum Average Power [dBm] (GT - LC = 0.96 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.69	23.48	23.65	24.65	0.2917
20	1	49		23.54	23.36	23.55		
20	1	99		23.56	23.43	23.37		
20	50	0		22.70	22.60	22.66		
20	50	24		22.68	22.45	22.59		
20	50	50		22.59	22.53	22.52		
20	100	0		22.62	22.46	22.56		
20	1	0	16-QAM	22.75	22.55	22.62	23.71	0.2350
20	1	49		22.61	22.47	22.61		
20	1	99		22.59	22.57	22.57		
20	50	0		21.72	21.55	21.53		
20	50	24		21.69	21.52	21.50		
20	50	50		21.59	21.45	21.48		
20	100	0		21.66	21.49	21.57		
Limit	EIRP < 2W			Result			Pass	

LTE Band 38 Maximum Average Power [dBm] (GT - LC = 0.96 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	23.59	23.44	23.64	24.60	0.2884
15	1	37		23.45	23.28	23.48		
15	1	74		23.53	23.39	23.30		
15	36	0		22.67	22.50	22.57		
15	36	20		22.66	22.43	22.54		
15	36	39		22.54	22.47	22.47		
15	75	0		22.52	22.36	22.46		
15	1	0	16-QAM	22.66	22.53	22.58	23.62	0.2301
15	1	37		22.61	22.44	22.57		
15	1	74		22.55	22.53	22.54		
15	36	0		21.68	21.51	21.53		
15	36	20		21.65	21.51	21.47		
15	36	39		21.53	21.38	21.39		
15	75	0		21.58	21.39	21.54		
Limit	EIRP < 2W			Result			Pass	



LTE Band 38 Maximum Average Power [dBm] (GT - LC = 0.96 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	23.67	23.40	23.55	24.63	0.2904
10	1	25		23.52	23.33	23.52		
10	1	49		23.47	23.37	23.34		
10	25	0		22.64	22.52	22.58		
10	25	12		22.59	22.38	22.58		
10	25	25		22.54	22.49	22.50		
10	50	0		22.62	22.46	22.54		
10	1	0	16-QAM	22.69	22.46	22.59	23.65	0.2317
10	1	25		22.61	22.47	22.58		
10	1	49		22.56	22.49	22.56		
10	25	0		21.69	21.54	21.48		
10	25	12		21.59	21.52	21.40		
10	25	25		21.50	21.38	21.43		
10	50	0		21.61	21.49	21.48		
Limit	EIRP < 2W			Result			Pass	

LTE Band 38 Maximum Average Power [dBm] (GT - LC = 0.96 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.66	23.41	23.56	24.62	0.2897
5	1	12		23.50	23.32	23.53		
5	1	24		23.56	23.43	23.28		
5	12	0		22.64	22.50	22.66		
5	12	7		22.64	22.37	22.51		
5	12	13		22.56	22.45	22.49		
5	25	0		22.52	22.41	22.46		
5	1	0	16-QAM	22.74	22.55	22.56	23.70	0.2344
5	1	12		22.51	22.39	22.56		
5	1	24		22.50	22.57	22.56		
5	12	0		21.71	21.51	21.49		
5	12	7		21.63	21.46	21.43		
5	12	13		21.51	21.41	21.47		
5	25	0		21.57	21.44	21.49		
Limit	EIRP < 2W			Result			Pass	



LTE Band 41 Maximum Average Power [dBm] (GT - LC = 0.64 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.51	23.60	23.78	24.42	0.2767
20	1	49		23.49	23.45	23.71		
20	1	99		23.47	23.47	23.70		
20	50	0		22.59	22.58	22.79		
20	50	24		22.53	22.53	22.78		
20	50	50		22.53	22.53	22.76		
20	100	0		22.57	22.55	22.73		
20	1	0	16-QAM	22.55	22.62	22.83	23.47	0.2223
20	1	49		22.47	22.50	22.74		
20	1	99		22.57	22.58	22.82		
20	50	0		21.59	21.58	21.81		
20	50	24		21.53	21.55	21.80		
20	50	50		21.52	21.53	21.77		
20	100	0		21.52	21.51	21.75		
Limit	EIRP < 2W			Result			Pass	

LTE Band 41 Maximum Average Power [dBm] (GT - LC = 0.64 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	23.44	23.51	23.74	24.38	0.2742
15	1	37		23.49	23.41	23.67		
15	1	74		23.44	23.46	23.68		
15	36	0		22.59	22.51	22.77		
15	36	20		22.49	22.52	22.71		
15	36	39		22.52	22.47	22.69		
15	75	0		22.49	22.50	22.72		
15	1	0	16-QAM	22.49	22.59	22.79	23.43	0.2203
15	1	37		22.41	22.42	22.70		
15	1	74		22.52	22.55	22.73		
15	36	0		21.54	21.54	21.75		
15	36	20		21.53	21.46	21.71		
15	36	39		21.49	21.50	21.70		
15	75	0		21.50	21.42	21.74		
Limit	EIRP < 2W			Result			Pass	



LTE Band 41 Maximum Average Power [dBm] (GT - LC = 0.64 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	23.48	23.51	23.72	24.36	0.2729
10	1	25		23.45	23.41	23.64		
10	1	49		23.45	23.44	23.70		
10	25	0		22.54	22.57	22.76		
10	25	12		22.53	22.50	22.70		
10	25	25		22.43	22.47	22.67		
10	50	0		22.56	22.49	22.65		
10	1	0	16-QAM	22.53	22.56	22.75	23.39	0.2183
10	1	25		22.44	22.49	22.69		
10	1	49		22.57	22.50	22.72		
10	25	0		21.52	21.50	21.81		
10	25	12		21.50	21.47	21.71		
10	25	25		21.49	21.50	21.75		
10	50	0		21.47	21.46	21.66		
Limit	EIRP < 2W			Result			Pass	

LTE Band 41 Maximum Average Power [dBm] (GT - LC = 0.64 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.51	23.52	23.72	24.36	0.2729
5	1	12		23.44	23.38	23.62		
5	1	24		23.40	23.37	23.70		
5	12	0		22.55	22.49	22.75		
5	12	7		22.50	22.44	22.73		
5	12	13		22.50	22.46	22.76		
5	25	0		22.47	22.53	22.63		
5	1	0	16-QAM	22.46	22.54	22.77	23.45	0.2213
5	1	12		22.46	22.46	22.73		
5	1	24		22.51	22.48	22.81		
5	12	0		21.49	21.53	21.81		
5	12	7		21.47	21.52	21.73		
5	12	13		21.52	21.51	21.69		
5	25	0		21.49	21.51	21.65		
Limit	EIRP < 2W			Result			Pass	



LTE Band 41(HPUE) Maximum Average Power [dBm] (GT - LC = 0.64 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	26.19	26.09	26.41	27.05	0.5070
20	1	49		25.98	26.03	26.27		
20	1	99		26.01	25.97	26.37		
20	50	0		25.13	25.15	25.46		
20	50	24		25.04	25.12	25.40		
20	50	50		25.07	25.05	25.36		
20	100	0		25.12	25.12	25.39		
20	1	0	16-QAM	25.24	25.19	25.49	26.22	0.4188
20	1	49		25.19	25.19	25.42		
20	1	99		25.15	25.29	25.58		
20	50	0		24.17	24.09	24.37		
20	50	24		24.15	24.17	24.42		
20	50	50		24.04	24.20	24.41		
20	100	0		24.09	24.14	24.37		
Limit	EIRP < 2W			Result			Pass	

LTE Band 41(HPUE) Maximum Average Power [dBm] (GT - LC = 0.64 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	26.12	26.00	26.39	27.03	0.5047
15	1	37		25.90	25.98	26.25		
15	1	74		26.00	25.89	26.33		
15	36	0		25.11	25.13	25.46		
15	36	20		25.03	25.07	25.37		
15	36	39		24.99	24.97	25.28		
15	75	0		25.07	25.08	25.31		
15	1	0	16-QAM	25.21	25.14	25.39	26.13	0.4102
15	1	37		25.11	25.14	25.38		
15	1	74		25.13	25.19	25.49		
15	36	0		24.16	24.00	24.27		
15	36	20		24.07	24.15	24.42		
15	36	39		24.02	24.11	24.31		
15	75	0		24.03	24.09	24.31		
Limit	EIRP < 2W			Result			Pass	



LTE Band 41(HPUE) Maximum Average Power [dBm] (GT - LC = 0.64 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	26.09	26.09	26.39	27.03	0.5047
10	1	25		25.98	25.97	26.18		
10	1	49		26.00	25.87	26.36		
10	25	0		25.13	25.11	25.40		
10	25	12		24.98	25.10	25.39		
10	25	25		25.00	24.96	25.27		
10	50	0		25.03	25.07	25.36		
10	1	0	16-QAM	25.23	25.12	25.43	26.17	0.4140
10	1	25		25.13	25.18	25.33		
10	1	49		25.09	25.25	25.53		
10	25	0		24.14	24.01	24.35		
10	25	12		24.14	24.12	24.38		
10	25	25		24.02	24.17	24.41		
10	50	0		24.07	24.05	24.34		
Limit	EIRP < 2W			Result			Pass	

LTE Band 41(HPUE) Maximum Average Power [dBm] (GT - LC = 0.64 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	26.11	26.06	26.31	26.96	0.4966
5	1	12		25.93	26.01	26.22		
5	1	24		26.01	25.93	26.32		
5	12	0		25.13	25.10	25.45		
5	12	7		24.98	25.03	25.34		
5	12	13		25.00	25.00	25.28		
5	25	0		25.07	25.07	25.38		
5	1	0	16-QAM	25.17	25.15	25.46	26.13	0.4102
5	1	12		25.11	25.10	25.37		
5	1	24		25.10	25.29	25.49		
5	12	0		24.13	24.09	24.35		
5	12	7		24.07	24.17	24.40		
5	12	13		24.02	24.18	24.36		
5	25	0		24.04	24.08	24.32		
Limit	EIRP < 2W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = 2.59 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	22.56	22.78	22.73	25.37	0.3443
20	1	49		22.48	22.74	22.69		
20	1	99		22.38	22.65	22.58		
20	50	0		22.16	22.40	22.34		
20	50	24		22.13	22.36	22.33		
20	50	50		22.10	22.35	22.31		
20	100	0		22.11	22.35	22.29		
20	1	0	16-QAM	22.52	22.68	22.59	25.27	0.3365
20	1	49		22.43	22.64	22.51		
20	1	99		22.37	22.65	22.54		
20	50	0		21.45	21.71	21.69		
20	50	24		21.42	21.66	21.63		
20	50	50		21.38	21.67	21.59		
20	100	0		21.40	21.63	21.62		
Limit	EIRP < 1W			Result			Pass	

LTE Band 66 Maximum Average Power [dBm] (GT - LC = 2.59 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	22.49	22.75	22.67	25.34	0.3420
15	1	37		22.39	22.70	22.65		
15	1	74		22.32	22.61	22.51		
15	36	0		22.14	22.34	22.24		
15	36	20		22.11	22.35	22.28		
15	36	39		22.01	22.31	22.28		
15	75	0		22.11	22.26	22.22		
15	1	0	16-QAM	22.49	22.61	22.53	25.20	0.3311
15	1	37		22.42	22.60	22.45		
15	1	74		22.37	22.60	22.51		
15	36	0		21.38	21.66	21.67		
15	36	20		21.32	21.56	21.59		
15	36	39		21.28	21.67	21.53		
15	75	0		21.36	21.59	21.59		
Limit	EIRP < 1W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = 2.59 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	22.47	22.69	22.70	25.29	0.3381
10	1	25		22.39	22.68	22.63		
10	1	49		22.34	22.65	22.52		
10	25	0		22.16	22.39	22.24		
10	25	12		22.04	22.36	22.23		
10	25	25		22.03	22.31	22.28		
10	50	0		22.07	22.32	22.23		
10	1	0	16-QAM	22.44	22.58	22.52	25.22	0.3327
10	1	25		22.36	22.58	22.50		
10	1	49		22.35	22.63	22.50		
10	25	0		21.43	21.62	21.69		
10	25	12		21.42	21.65	21.56		
10	25	25		21.34	21.67	21.53		
10	50	0		21.38	21.54	21.53		
Limit	EIRP < 1W			Result			Pass	

LTE Band 66 Maximum Average Power [dBm] (GT - LC = 2.59 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	22.47	22.74	22.69	25.33	0.3412
5	1	12		22.40	22.74	22.63		
5	1	24		22.34	22.62	22.48		
5	12	0		22.13	22.34	22.28		
5	12	7		22.04	22.35	22.33		
5	12	13		22.08	22.35	22.23		
5	25	0		22.10	22.32	22.24		
5	1	0	16-QAM	22.49	22.65	22.55	25.24	0.3342
5	1	12		22.35	22.57	22.43		
5	1	24		22.34	22.59	22.47		
5	12	0		21.43	21.67	21.69		
5	12	7		21.40	21.60	21.60		
5	12	13		21.34	21.60	21.50		
5	25	0		21.40	21.63	21.61		
Limit	EIRP < 1W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = 2.59 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	22.50	22.78	22.68	25.37	0.3443
3	1	8		22.47	22.70	22.61		
3	1	14		22.35	22.62	22.53		
3	8	0		22.13	22.31	22.32		
3	8	4		22.08	22.32	22.33		
3	8	7		22.00	22.25	22.29		
3	15	0		22.08	22.29	22.23		
3	1	0	16-QAM	22.49	22.61	22.57	25.20	0.3311
3	1	8		22.35	22.59	22.46		
3	1	14		22.31	22.60	22.46		
3	8	0		21.39	21.69	21.63		
3	8	4		21.40	21.63	21.60		
3	8	7		21.32	21.67	21.55		
3	15	0		21.31	21.63	21.60		
Limit	EIRP < 1W			Result			Pass	

LTE Band 66 Maximum Average Power [dBm] (GT - LC = 2.59 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	22.50	22.76	22.60	25.35	0.3428
1.4	1	3		22.47	22.62	22.57		
1.4	1	5		22.34	22.54	22.50		
1.4	3	0		22.46	22.68	22.64		
1.4	3	1		22.45	22.64	22.57		
1.4	3	3		22.26	22.59	22.51		
1.4	6	0		22.03	22.24	22.29		
1.4	1	0	16-QAM	22.01	22.31	22.24	25.18	0.3296
1.4	1	3		21.95	22.15	22.19		
1.4	1	5		22.00	22.21	22.19		
1.4	3	0		22.48	22.57	22.47		
1.4	3	1		22.31	22.49	22.37		
1.4	3	3		22.23	22.59	22.41		
1.4	6	0		21.29	21.54	21.48		
Limit	EIRP < 1W			Result			Pass	



LTE Band 71 Maximum Average Power [dBm] (GT - LC = 0.07 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
20	1	0	QPSK	22.14	22.31	22.26	20.23	0.1054
20	1	49		22.05	22.16	22.20		
20	1	99		22.11	22.12	22.06		
20	50	0		21.95	22.09	22.02		
20	50	24		21.90	21.96	21.94		
20	50	50		21.92	22.05	21.92		
20	100	0		21.88	21.92	21.87		
20	1	0	16-QAM	21.98	22.17	22.16	20.09	0.1021
20	1	49		21.97	22.04	22.03		
20	1	99		21.88	22.06	22.04		
20	50	0		21.91	22.05	22.01		
20	50	24		21.88	21.81	21.95		
20	50	50		21.81	21.98	21.91		
20	100	0		21.87	21.94	21.86		
Limit	ERP < 3W			Result			Pass	

LTE Band 71 Maximum Average Power [dBm] (GT - LC = 0.07 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
15	1	0	QPSK	22.09	22.30	22.19	20.22	0.1052
15	1	37		21.95	22.12	22.15		
15	1	74		22.08	22.10	22.04		
15	36	0		21.85	21.99	22.02		
15	36	20		21.89	21.91	21.87		
15	36	39		21.90	21.95	21.89		
15	75	0		21.84	21.90	21.77		
15	1	0	16-QAM	21.93	22.07	22.16	20.08	0.1019
15	1	37		21.96	21.96	21.97		
15	1	74		21.87	21.97	21.94		
15	36	0		21.85	22.05	21.94		
15	36	20		21.81	21.71	21.91		
15	36	39		21.79	21.96	21.81		
15	75	0		21.79	21.92	21.81		
Limit	ERP < 3W			Result			Pass	



LTE Band 71 Maximum Average Power [dBm] (GT - LC = 0.07 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	22.10	22.31	22.22	20.23	0.1054
10	1	25		22.03	22.16	22.16		
10	1	49		22.04	22.10	21.99		
10	25	0		21.93	22.01	21.92		
10	25	12		21.90	21.92	21.86		
10	25	25		21.86	22.02	21.83		
10	50	0		21.86	21.92	21.87		
10	1	0	16-QAM	21.97	22.14	22.10	20.06	0.1014
10	1	25		21.90	22.03	21.95		
10	1	49		21.84	22.02	21.97		
10	25	0		21.84	22.04	21.99		
10	25	12		21.88	21.81	21.87		
10	25	25		21.79	21.88	21.83		
10	50	0		21.84	21.90	21.80		
Limit	ERP < 3W			Result			Pass	

LTE Band 71 Maximum Average Power [dBm] (GT - LC = 0.07 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	22.06	22.23	22.26	20.18	0.1042
5	1	12		21.99	22.10	22.12		
5	1	24		22.11	22.08	21.98		
5	12	0		21.91	22.02	21.95		
5	12	7		21.90	21.90	21.88		
5	12	13		21.92	22.05	21.82		
5	25	0		21.86	21.86	21.85		
5	1	0	16-QAM	21.94	22.15	22.14	20.07	0.1016
5	1	12		21.95	22.02	21.98		
5	1	24		21.86	22.06	21.96		
5	12	0		21.89	21.98	21.99		
5	12	7		21.78	21.77	21.94		
5	12	13		21.75	21.94	21.88		
5	25	0		21.77	21.89	21.86		
Limit	ERP < 3W			Result			Pass	



Appendix B. Test Results of Radiated Test

B1. Summary of each worse mode

Part	Mode	Ch	Freq (MHz)	Level (dBm)	Detector	Ant Factor (dB/m)	Amp\Cbl (dB)	Filter (dB)	EIRP CF (dB)	Reading (dBuV)	Limit (dBm)	Margin (dB)	PoI	Ant
Part 27M	1	H	10722.000	-53.03	RMS	37.50	-20.32	0.50	-95.23	24.52	-25.00	-28.03	V	Tx0Rx0
Part 27H	2	M	2109.000	-36.59	RMS	26.40	-23.73	0.41	-95.23	55.56	-13.00	-23.59	V	Tx0Rx0

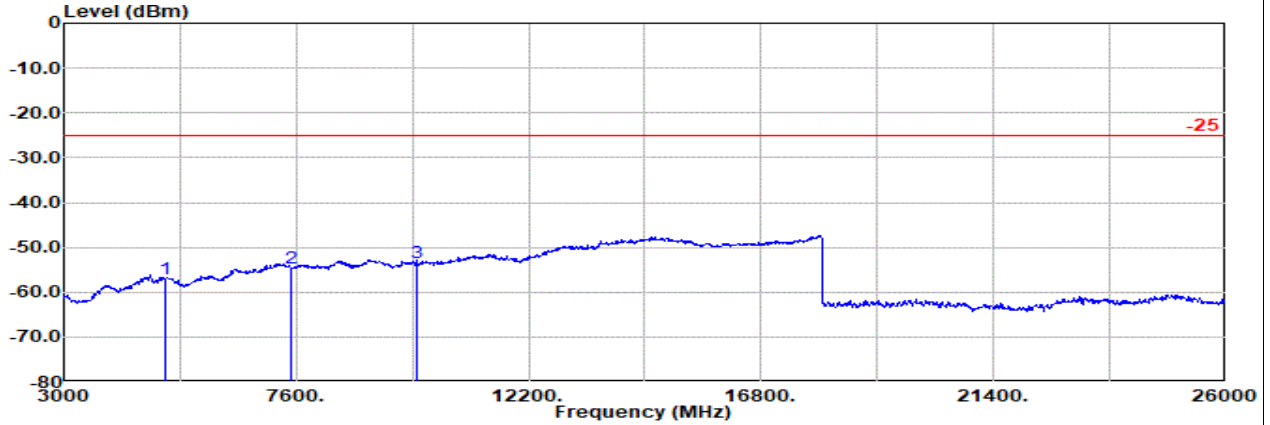


Tx0Rx0

Part 27M Mode 1

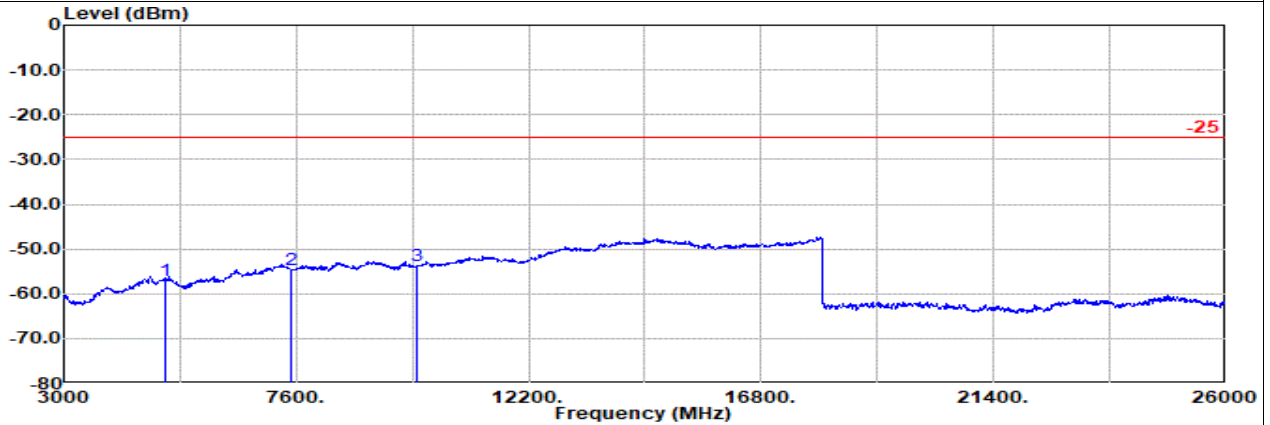
LTE B41 10M LTE B41 10M Ch39700 1RB0 QPSK

L



Site : 03CH21-HY
 Condition: -25 3m DRH18-E_LE2C03A18EN_230712 Horizontal
 : LTE Band 41 10M Ch39700 1RB0 QPSK

Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
			Factor	1				g	dB
1	4993.00	-57.02 RMS	32.70	-19.93	0.41	-95.23	25.03	-25.00	-32.02 Horizontal
2	7490.00	-54.62 RMS	36.82	-20.15	0.39	-95.23	23.55	-25.00	-29.62 Horizontal
3	9986.00	-53.36 RMS	37.30	-20.34	0.41	-95.23	24.50	-25.00	-28.36 Horizontal



Site : 03CH21-HY
 Condition: -25 3m DRH18-E_LE2C03A18EN_230712 Vertical
 : LTE Band 41 10M Ch39700 1RB0 QPSK

Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
			Factor	1				g	dB
1	4993.00	-57.02 RMS	32.70	-19.93	0.41	-95.23	25.03	-25.00	-32.02 Vertical
2	7490.00	-54.50 RMS	36.82	-20.15	0.39	-95.23	23.67	-25.00	-29.50 Vertical
3	9986.00	-53.63 RMS	37.30	-20.34	0.41	-95.23	24.23	-25.00	-28.63 Vertical

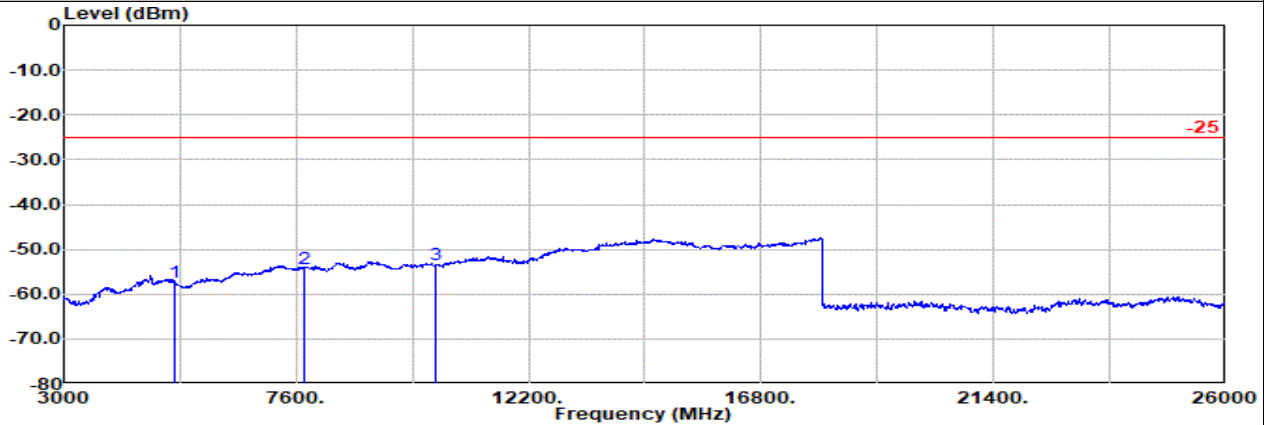


Tx0Rx0

Part 27M Mode 1

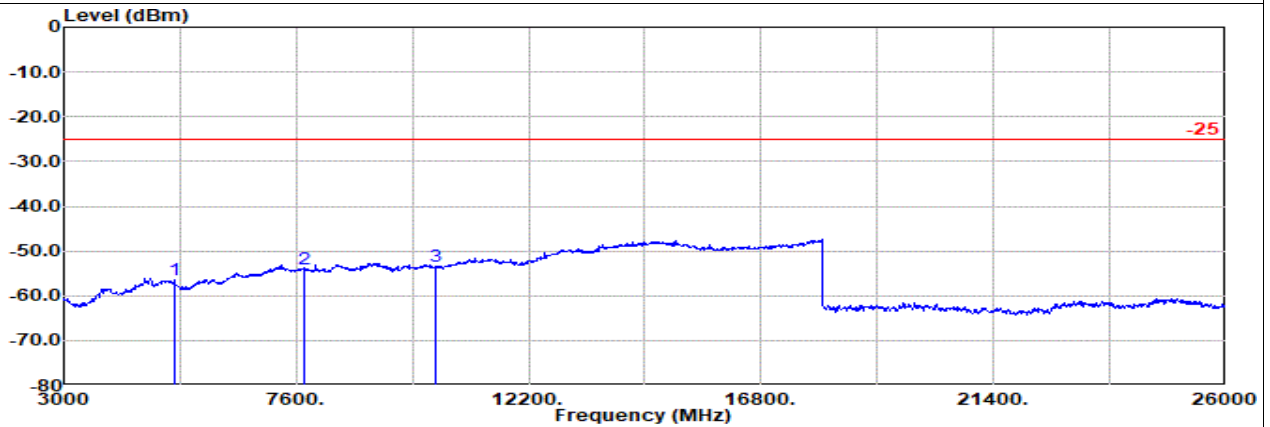
LTE B41 10M LTE B41 10M Ch40620 1RB0 QPSK

M



Site : 03CH21-HY
 Condition: -25 3m DRH18-E_LE2C03A18EN_230712 Horizontal
 : LTE Band 41 10M Ch40620 1RB0 QPSK

1	MHz	Level dBm	Detector	Ant Amp\Cb Filter		EIRPCF	Readin g	Limit dBm	Margin	Pol	
				Factor	1						dB
1	5177.00	-57.34	RMS	32.60	-20.12	0.39	-95.23	25.02	-25.00	-32.34	Horizontal
2	7766.00	-54.20	RMS	36.60	-19.90	0.40	-95.23	23.93	-25.00	-29.20	Horizontal
3	10354.00	-53.58	RMS	37.39	-20.42	0.46	-95.23	24.22	-25.00	-28.58	Horizontal



Site : 03CH21-HY
 Condition: -25 3m DRH18-E_LE2C03A18EN_230712 Vertical
 : LTE Band 41 10M Ch40620 1RB0 QPSK

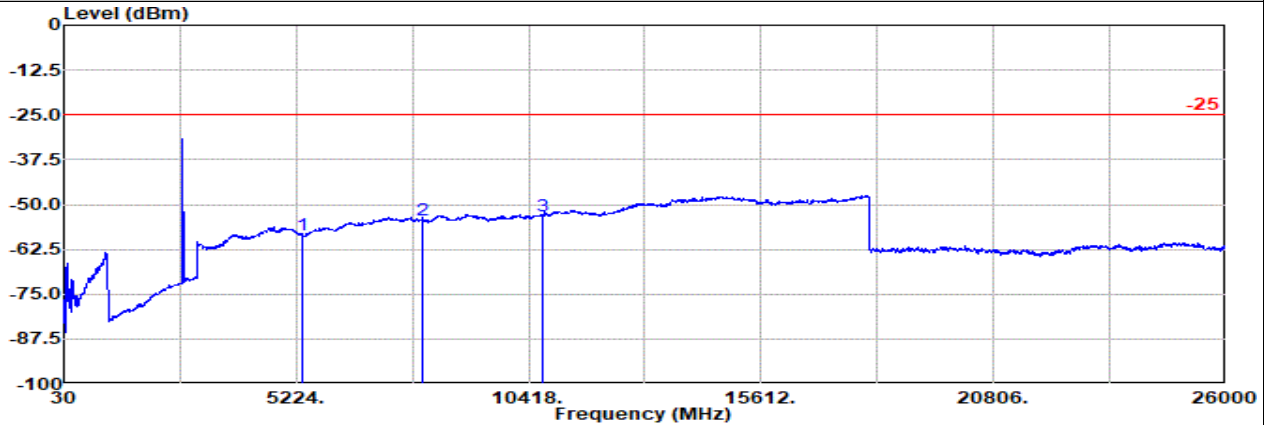
1	MHz	Level dBm	Detector	Ant Amp\Cb Filter		EIRPCF	Readin g	Limit dBm	Margin	Pol	
				Factor	1						dB
1	5177.00	-56.48	RMS	32.60	-20.12	0.39	-95.23	25.88	-25.00	-31.48	Vertical
2	7766.00	-54.10	RMS	36.60	-19.90	0.40	-95.23	24.03	-25.00	-29.10	Vertical
3	10354.00	-53.50	RMS	37.39	-20.42	0.46	-95.23	24.30	-25.00	-28.50	Vertical



Tx0Rx0

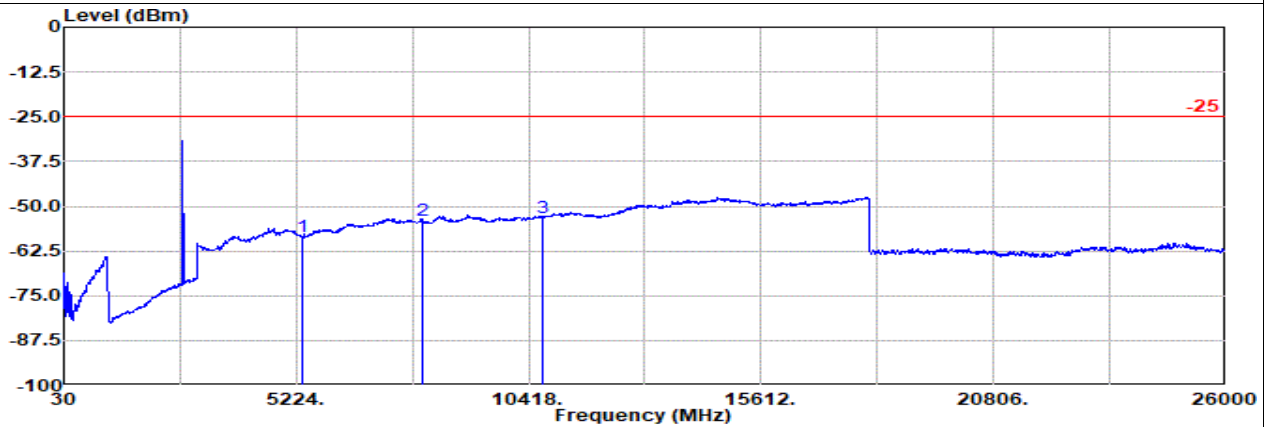
Part 27M Mode 1
LTE B41 10M LTE B41 10M Ch41540 1RB0 QPSK

H



Site : 03CH21-HY
Condition: -25 3m DRH18-E_LE2C03A18EN_230712 Horizontal
: LTE Band 41 10M Ch41540 1RB0 QPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1				g	
	MHz	dBm		dB/m	dB	dB	dBuV	dBm	dB	
1	5361.00	-58.63	RMS	32.40	-20.35	0.60	-95.23	23.95	-25.00	-33.63 Horizontal
2	8042.00	-54.30	RMS	36.62	-20.50	0.38	-95.23	24.43	-25.00	-29.30 Horizontal
3	10722.00	-53.29	RMS	37.50	-20.32	0.50	-95.23	24.26	-25.00	-28.29 Horizontal



Site : 03CH21-HY
Condition: -25 3m DRH18-E_LE2C03A18EN_230712 Vertical
: LTE Band 41 10M Ch41540 1RB0 QPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1				g	
	MHz	dBm		dB/m	dB	dB	dBuV	dBm	dB	
1	5361.00	-58.59	RMS	32.40	-20.35	0.60	-95.23	23.99	-25.00	-33.59 Vertical
2	8042.00	-53.96	RMS	36.62	-20.50	0.38	-95.23	24.77	-25.00	-28.96 Vertical
3	10722.00	-53.03	RMS	37.50	-20.32	0.50	-95.23	24.52	-25.00	-28.03 Vertical

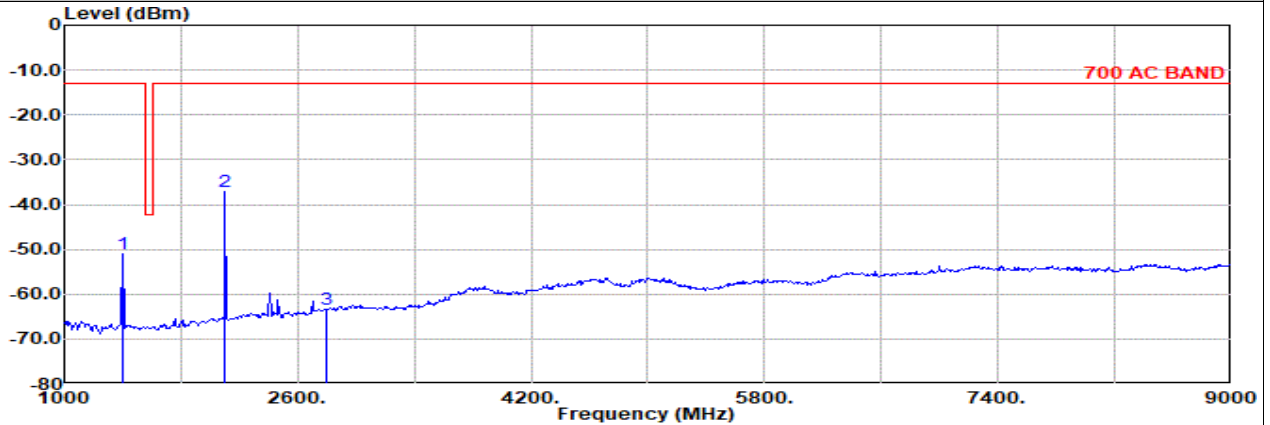


Tx0Rx0

Part 27H Mode 2

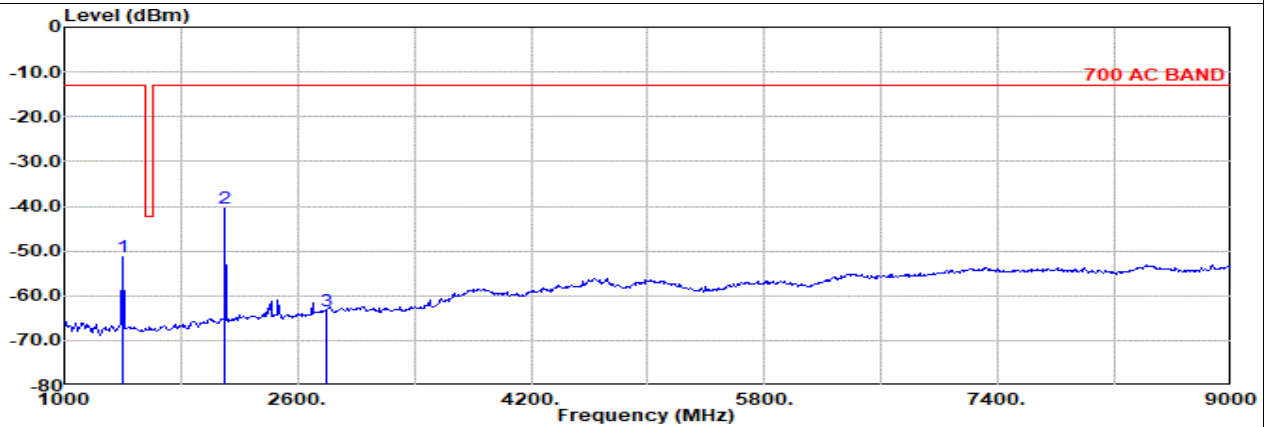
LTE B12 10M LTE B12 10M Ch23060 1RB0 QPSK

L



Site : 03CH21-HY
 Condition: 700 AC BAND 3m DRH18-E_LE2C03A18EN_230712 Horizontal
 : LTE Band 12 10M Ch23060 1RB0 QPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin		Pol
				Factor	1				g	dBm	
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	1399.00	-51.08	RMS	24.59	-24.78	0.72	-95.23	43.62	-13.00	-38.08	Horizontal
2	2099.00	-37.22	RMS	26.39	-23.74	0.42	-95.23	54.94	-13.00	-24.22	Horizontal
3	2798.00	-63.42	RMS	28.00	-22.74	0.34	-95.23	26.21	-13.00	-50.42	Horizontal



Site : 03CH21-HY
 Condition: 700 AC BAND 3m DRH18-E_LE2C03A18EN_230712 Vertical
 : LTE Band 12 10M Ch23060 1RB0 QPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin		Pol
				Factor	1				g	dBm	
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	1399.00	-51.30	RMS	24.59	-24.78	0.72	-95.23	43.40	-13.00	-38.30	Vertical
2	2099.00	-40.54	RMS	26.39	-23.74	0.42	-95.23	51.62	-13.00	-27.54	Vertical
3	2798.00	-63.29	RMS	28.00	-22.74	0.34	-95.23	26.34	-13.00	-50.29	Vertical

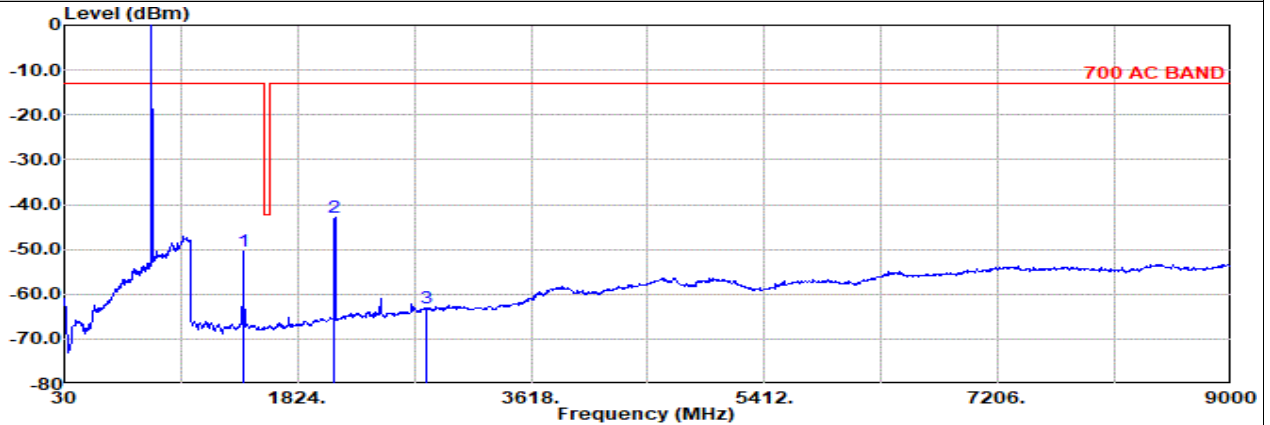


Tx0Rx0

Part 27H Mode 2

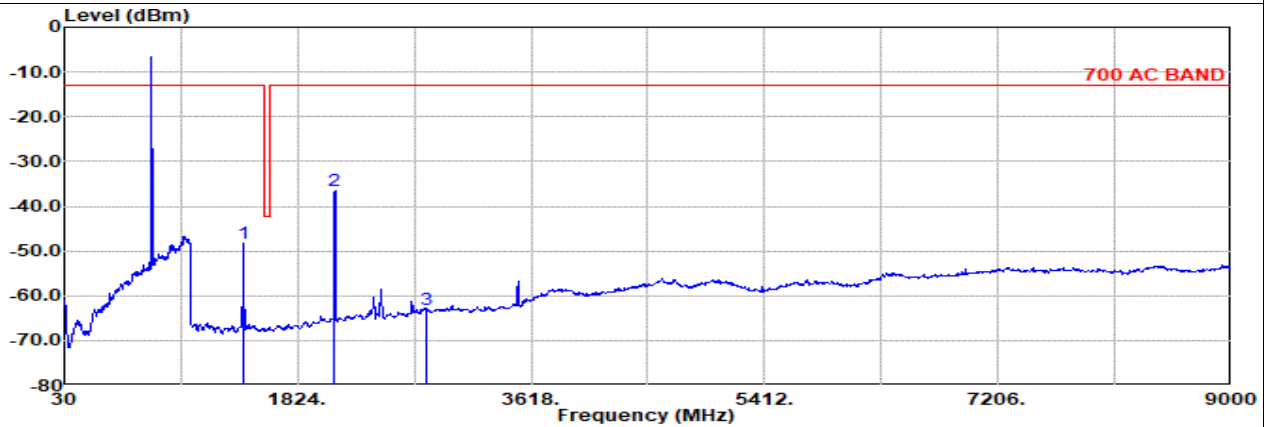
LTE B12 10M LTE B12 10M Ch23095 1RB0 QPSK

M



Site : 03CH21-HY
 Condition: 700 AC BAND 3m DRH18-E_LE2C03A18EN_230712 Horizontal
 : LTE Band 12 10M Ch23095 1RB0 QPSK

Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin		Pol
			Factor	1				g	dBm	
1	1406.00	-50.54 RMS	24.66	-24.76	0.71	-95.23	44.08	-13.00	-37.54	Horizontal
2	2109.00	-42.72 RMS	26.40	-23.73	0.41	-95.23	49.43	-13.00	-29.72	Horizontal
3	2812.00	-63.14 RMS	28.08	-22.72	0.34	-95.23	26.39	-13.00	-50.14	Horizontal



Site : 03CH21-HY
 Condition: 700 AC BAND 3m DRH18-E_LE2C03A18EN_230712 Vertical
 : LTE Band 12 10M Ch23095 1RB0 QPSK

Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin		Pol
			Factor	1				g	dBm	
1	1406.00	-48.24 RMS	24.66	-24.76	0.71	-95.23	46.38	-13.00	-35.24	Vertical
2	2109.00	-36.59 RMS	26.40	-23.73	0.41	-95.23	55.56	-13.00	-23.59	Vertical
3	2812.00	-63.18 RMS	28.08	-22.72	0.34	-95.23	26.35	-13.00	-50.18	Vertical

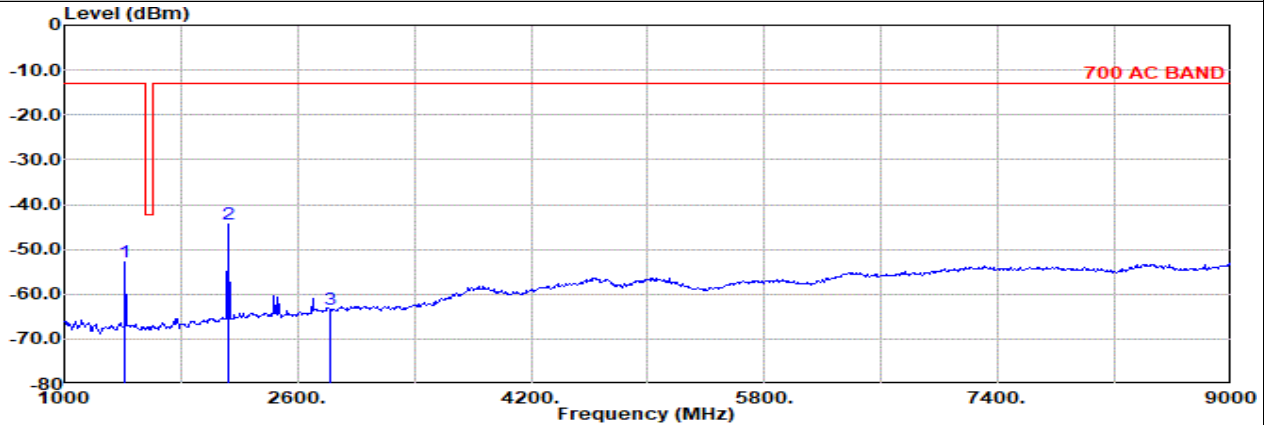


Tx0Rx0

Part 27H Mode 2

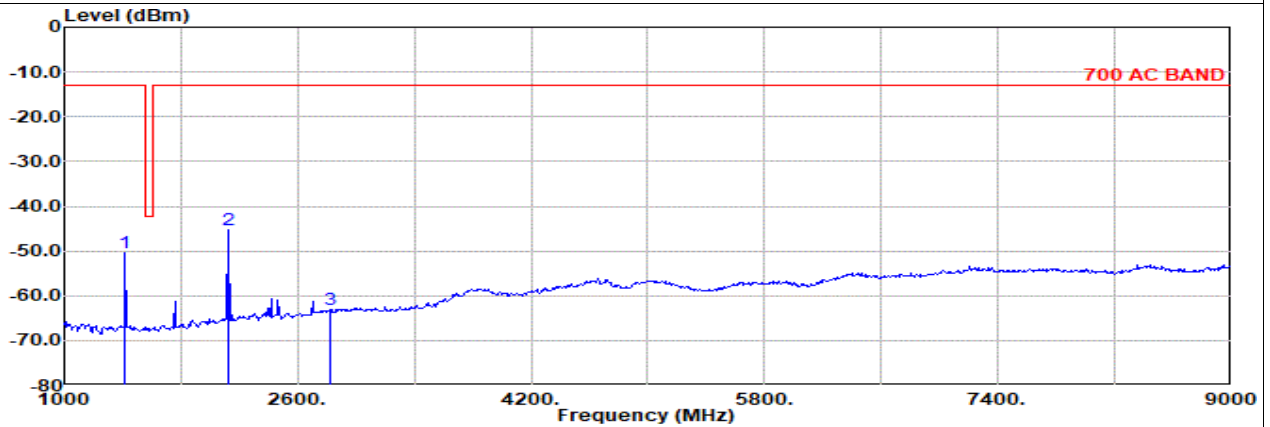
LTE B12 10M LTE B12 10M Ch23130 1RB0 QPSK

H



Site : 03CH21-HY
 Condition: 700 AC BAND 3m DRH18-E_LE2C03A18EN_230712 Horizontal
 : LTE Band 12 10M Ch23130 1RB0 QPSK

Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF		Readin Limit		Margin Pol	
			Factor	1	dB	dB	g	dBm	dB	
1	1413.00	-52.97 RMS	24.73	-24.75	0.71	-95.23	41.57	-13.00	-39.97	Horizontal
2	2120.00	-44.24 RMS	26.40	-23.71	0.41	-95.23	47.89	-13.00	-31.24	Horizontal
3	2826.00	-63.39 RMS	28.06	-22.70	0.33	-95.23	26.15	-13.00	-50.39	Horizontal



Site : 03CH21-HY
 Condition: 700 AC BAND 3m DRH18-E_LE2C03A18EN_230712 Vertical
 : LTE Band 12 10M Ch23130 1RB0 QPSK

Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF		Readin Limit		Margin Pol	
			Factor	1	dB	dB	g	dBm	dB	
1	1413.00	-50.34 RMS	24.73	-24.75	0.71	-95.23	44.20	-13.00	-37.34	Vertical
2	2120.00	-45.17 RMS	26.40	-23.71	0.41	-95.23	46.96	-13.00	-32.17	Vertical
3	2826.00	-63.08 RMS	28.06	-22.70	0.33	-95.23	26.46	-13.00	-50.08	Vertical