

Test Report No:
2480097R-RFUSV23S-A

TEST REPORT

FCC Rules&Regulations

Product Name	Telematics Platform 2
Brand Name	PCI
Model No.	PCI-TP2
FCC ID	LY5-PCITP2V2
Applicant's Name / Address	PCI Private Limited 35 Pioneer Road North Singapore 628475 Singapore
Manufacturer's Name / Address	PCI Private Limited 35 Pioneer Road North Singapore 628475 Singapore
Test Method Requested, Standard	FCC CFR Title 47 Part 22 Subpart H FCC CFR Title 47 Part 24 Subpart E FCC CFR Title 47 Part 27 Subpart F, Subpart L, Subpart M, Subpart P FCC CFR Title 47 Part 90 Subpart S ANSI/TIA-603-E-2016 ANSI C63.26-2015
Verdict Summary	IN COMPLIANCE
Documented By	 Amelia Wu
Approved By	 Allen Lin
Date of Receipt	Aug. 05, 2024
Date of Issue	Oct. 18, 2024
Report Version	V1.0

INDEX

	page
Competences and Guarantees.....	4
General Conditions	4
Revision History	5
Summary of Test Result.....	6
Comments and Remarks	7
1. General Information.....	8
1.1. EUT Description	8
1.2. EUT Information	9
1.3. Testing Applied Standards	9
1.4. Testing Location Information	10
1.5. Measurement Uncertainty.....	10
1.6. List of Test Equipment.....	11
2. Test Configuration of EUT	12
2.1. Test Condition	12
2.2. The Worst Case Measurement Configuration	12
2.3. Tested System Details	14
2.4. Configuration of Tested System	14
3. RF Output Power.....	15
3.1. Test Setup	15
3.2. Test Procedure	15
3.3. Test Result of RF Output Power	15
4. Occupied Bandwidth	16
4.1. Test Setup	16
4.2. Test Procedures	16
4.3. Test Result of Occupied Bandwidth	16
5. Peak to Average Power Ratio	17
5.1. Test Setup	17
5.2. Test Procedure	17
5.3. Test Result of Peak to Average Power Ratio	17
6. Spurious Emission.....	18
6.1. Test Setup	18
6.2. Test Procedure	19
6.3. Test Result of Spurious Emission	19
7. Conducted Band Edge	20
7.1. Test Setup	20
7.2. Test Procedure	20

7.3.	Test Result of Conducted Band Edge	20
8.	Frequency Stability	21
8.1.	Test Setup	21
8.2.	Test Procedures	21
8.3.	Test Result of Frequency Stability	21
Appendix A. Test Result of RF Output Power		
Appendix B. Test Result of Occupied Bandwidth		
Appendix C. Test Result of Peak to Average Power Ratio		
Appendix D. Test Result of Spurious Emission		
Appendix E. Test Result of Conducted Band Edge		
Appendix F. Test Result of Frequency Stability		
Appendix G. Test Setup Photograph		

Competences and Guarantees

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

General Conditions

1. The test results relate only to the samples tested.
2. The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
3. This report must not be used to claim product endorsement by TAF or any agency of the government.
4. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
5. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	Oct. 18, 2024

Summary of Test Result

Report Clause	Test Items	Band	Ref Std. Clause	Limit	Result (PASS/FAIL)	Remark
3	RF Output Power	2	§2.1033 §2.1046 §24.232	< 2 Watts	PASS	-
		4, 66	§2.1033 §2.1046 §27.50	< 1 Watts	PASS	-
		5	§2.1033 §2.1046 §22.913	< 7 Watts ERP	PASS	-
		7, 38, 41	§2.1033 §2.1046 §27.50	< 2 Watts	PASS	-
		8	§2.1046 §27.1507	< 3 Watts ERP	PASS	-
		12, 13	§2.1033 §2.1046 §27.50	< 3 Watts ERP	PASS	-
		26	§2.1033 §2.1046 §90.635(b) §22.913	< 100 Watts	PASS	-
4	Occupied Bandwidth	2, 4, 5, 7, 8, 12, 13, 26, 38, 41, 66	§2.1049	N/A	PASS	-
5	Peak to Average Power Ratio	2	§24.232	$\leq$ 13 dB	PASS	-
		4, 7, 12, 13, 38, 41, 66	§27.50	$\leq$ 13 dB	PASS	-
		5, 26	§22.913	$\leq$ 13 dB	PASS	-
		8	§27.1507	$\leq$ 13 dB	PASS	-
6	Spurious Emission	2	§2.1053 §24.238	< -13 dBm	PASS	-
		4, 12, 66	§27.53	< -13 dBm	PASS	-
		5	§22.917	< -13 dBm	PASS	-
		7	§27.53	< 5 MHz: -10 dBm 5 MHz-X MHz: -13 dBm >X MHz: -25 dBm	PASS	-
		8	§2.1053 §27.1509	< -13 dBm	PASS	-
		13	§27.53	< -13 dBm < -70 dBW/MHz e.i.r.p. of all emissions, including harmonics in the band 1559-1610 MHz	PASS	-
		25	§27.238	< -13 dBm	PASS	-
		38	§2.1053 §27.53	<-25dBm	PASS	-
		41	§27.53	-25 dBm	PASS	-

7	Conducted Band Edge	2	§24.238	< -13 dBm	PASS	-
		4, 12, 66	§2.1053 §27.53	< -13 dBm	PASS	-
		5	§2.1053 §22.917	< -13 dBm	PASS	-
		7, 38, 41	§2.1053 §27.53	< 5 MHz: -10 dBm 5 MHz-X MHz: -13 dBm>X MHz: -25 dBm	PASS	-
		8	§2.1051 §27.1509	< -13 dBm	PASS	-
		13	§2.1053 §27.53	< -13 dBm < -35 dBm (763-775 MHz & 793-805 MHz)	PASS	-
		26	§2.1053 §90.691 §22.917	< -13 dBm	PASS	-
8	Frequency Stability	2, 8	§2.1055 §24.235	± 2.5 ppm	PASS	-
		4, 7, 12, 13, 38, 41, 66	§2.1055 §27.54	± 2.5 ppm	PASS	-
		5	§2.1055 §22.335	± 2.5 ppm	PASS	-
		26	§2.1055 §90.213	± 2.5 ppm	PASS	-

Comments and Explanations

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Comments and Remarks

The product specification and testing instructions for the EUT declared in the report are provided by the manufacturer.

1. General Information

1.1. EUT Description

Uplink Frequency Range (MHz)	LTE Band 2: 1850~1910 LTE Band 4: 1710~1755 LTE Band 5: 824~849 LTE Band 7: 2500~2570 LTE Band 8: 880~915 LTE Band 12: 699~716 LTE Band 13: 777~787 LTE Band 26: 814~849 LTE Band 38: 2570~2620 LTE Band 41: 2496~2690 LTE Band 66: 1710~1780
Downlink Frequency Range (MHz)	LTE Band 2: 1930~1990 LTE Band 4: 2110~2115 LTE Band 5: 869~894 LTE Band 7: 2620~2690 LTE Band 8: 925~960 LTE Band 12: 729~746 LTE Band 13: 746~756 LTE Band 26: 859~894 LTE Band 38: 2570~2620 LTE Band 41: 2496~2690 LTE Band 66: 2110~2200
Bandwidth (MHz)	LTE Band 2: 1.4 / 3 / 5 / 10 / 15 / 20 LTE Band 4: 1.4 / 3 / 5 / 10 / 15 / 20 LTE Band 5: 1.4 / 3 / 5 / 10 LTE Band 7: 5 / 10 / 15 / 20 LTE Band 8: 1.4 / 3 LTE Band 12: 1.4 / 3 / 5 / 10 LTE Band 13: 5 / 10 LTE Band 26: 1.4 / 3 / 5 / 10 / 15 / 20 LTE Band 38: 5 / 10 / 15 / 20 LTE Band 41: 1.4 / 3 / 5 / 10 / 15 / 20 LTE Band 66: 1.4 / 3 / 5 / 10 / 15 / 20
Type of Modulation	QPSK / 16QAM
IMEI No.	356488680641419

Antenna Information													
Ant.	Brand Name	Model No.	Type	Gain (dBi)									
				LTE Band 2	LTE Band 4/66	LTE Band 5	LTE Band 7	LTE Band 8	LTE Band 12	LTE Band 13	LTE Band 26	LTE Band 38	LTE Band 41
1	Green Antenna	GALHPLTE02	Metal Stamp antenna	2.6	2.78	0.15	1.96	-0.14	-1.54	0.19	0.22	1.75	1.96

1.2. EUT Information

EUT Power Type	From DC power supply
Hardware Version	2.0
Software Version	2.0

1.3. Testing Applied Standards

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

- FCC CFR Title 47 Part 22 Subpart H
- FCC CFR Title 47 Part 24 Subpart E
- FCC CFR Title 47 Part 27 Subpart F, Subpart L, Subpart M, Subpart P
- FCC CFR Title 47 Part 90 Subpart S
- ANSI/TIA-603-E (2016)
- ANSI C63.26-2015
- FCC KDB 971168 D01 v03r01

The following reference test guidance is not within the scope of accreditation of TAF.

- FCC KDB 412172 D01 v01r01
- FCC KDB 414788 D01 v01r01

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

1.4. Testing Location Information

Testing Location Information		
Test Laboratory : DEKRA Testing and Certification Co., Ltd.		
1 (TAF: 3024)	ADD: No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958 Test site Designation No. TW3024 with FCC. Conformity Assessment Body Identifier (CABID) TW3024 with ISED.	
2 (TAF: 3024)	ADD: No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958 Test site Designation No. TW3024 with FCC. Conformity Assessment Body Identifier (CABID) TW3024 with ISED.	
Test site number for address 1 includes HC-SR02. Test site number for address 2 includes HC-CB02, HC-CB03, HC-CB04, HC-SR10 and HC-SR12.		

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted Emission	HC-SR12	Max Chang	23~26 / 60~63	2024/08/12~2024/08/20
Radiated Emission	HC-CB02	Scott Chang Gary Liao	22~25 / 51~58.5	2024/08/12~2024/08/16

1.5. Measurement Uncertainty

Uncertainties have been calculated according to the DEKRA internal document with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Test Item	Uncertainty
RF Output Power	± 1.16 dB
Occupied Bandwidth	± 217.9 Hz
Peak to Average Power Ratio	± 2.47 dB
Spurious Emissions	± 3.52 dB below 1 GHz ± 3.56 dB above 1 GHz
Conducted Band Edge	± 2.47 dB
Frequency Stability	± 217.9 Hz

1.6. List of Test Equipment

HC-SR12

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	0.3-40 GHz	2023/10/25	2024/10/24
Pulse Power Sensor	Anritsu	MA2411B	1531043	0.3-40 GHz	2023/10/25	2024/10/24
EXA Signal Analyzer	Keysight	N9010A	MY51440132	10 Hz-44 GHz	2023/12/11	2024/12/10
Pulse Power Sensor	Anritsu	MA2411B	1531044	0.3-40 GHz	2023/10/25	2024/10/24
Spectrum Analyzer	Keysight	N9010B	MY57110159	10 Hz-7 GHz	2024/03/01	2025/02/28
Signal & Spectrum Analyzer	R&S	FSV40	101869	10Hz-40GHz	2024/06/20	2025/06/19
Temperature & Humidity Test Chamber	KSON	THS-B4T-150	A0401	-40°C~+150° C/10%-98%R.H ; 114x93x162cm	2023/12/06	2024/12/05
Radio Communication Tester	Anritsu	MT8821C	6261915489	LTE & Cat.M1 & NB-IOT	2023/10/30	2024/10/29

HC-CB02

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	10 Hz-40 GHz	2023/10/03	2024/10/02
EXA Signal Analyzer	Keysight	N9010A	MY51440132	10 Hz-44 GHz	2023/12/11	2024/12/10
Trilog Broadband Antenna	Schwarzbeck	VULB 9168	1272	30 MHz-2 GHz	2024/04/29	2025/04/28
Horn Antenna	Schwarzbeck	BBHA 9170	203	18G-40GHz	2024/02/02	2025/02/01
Pre-Amplifier	EMCI	EMC01820I	980365	30M-8 GHz,20 dB	2024/04/02	2025/04/01
Pre-Amplifier	EMEC	EM01G18GA	060741	1G-18 GHz,50 dB	2024/04/23	2025/04/22
Pre-Amplifier	DEKRA	AP-400C	201801231	18G-40 GHz,48 dB	2023/10/03	2024/10/02
Radio Communication Tester	Anritsu	MT8821C	6261915489	LTE & Cat.M1 & NB-IOT	2023/10/30	2024/10/29
Coaxial Cable(13m)	Suhner	SF104	HC-CB02	30M-18 GHz	2024/08/07	2025/08/06
Coaxial Cable(3m)	Suhner,Rosnol	SF102_UP0264	HC-CB02-1	18G-40 GHz 3 m	2023/08/14	2024/08/13
Coaxial Cable(3m)	Suhner,Rosnol	SF102_UP0264	HC-CB02-1	18G-40 GHz 3 m	2024/08/13	2025/08/12
Radiated Software	Audix	e3 V9	HC-CB02_1	N/A	N/A	N/A

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2. Test Configuration of EUT

2.1. Test Condition

EUT Operational Condition			
Testing Voltage	Vnom (DC 12V)	Vmax (DC 32V)	Vmin (DC 6V)
Operational Climatic	Tnom (25°C)	Tmax (70°C)	Tmin (-30°C)

2.2. The Worst Case Measurement Configuration

Tests Item	RF Output Power Occupied Bandwidth Peak to Average Power Ratio Conducted Band Edge Frequency Stability
Test Condition	Conducted measurement at transmit chains
Test Mode	Mode 1: LTE Band 2 Mode 2: LTE Band 4/66 Mode 3: LTE Band 5/26 (Part 22) Mode 4: LTE Band 7 Mode 5: LTE Band 8 Mode 6: LTE Band 12 Mode 7: LTE Band 13 Mode 8: LTE Band 26 (Part 90) Mode 9: LTE Band 38 Mode 10: LTE Band 41

Tests Item	Transmitter Radiated Spurious Emission
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Test Mode	Mode 1: LTE Band 2 Mode 2: LTE Band 4/66 Mode 3: LTE Band 5/26 (Part 22) Mode 4: LTE Band 7 Mode 5: LTE Band 8 Mode 6: LTE Band 12 Mode 7: LTE Band 13 Mode 8: LTE Band 26 (Part 90) Mode 9: LTE Band 38 Mode 10: LTE Band 41

The EUT was performed at X axis, Y axis and Z axis position for radiated spurious emission test.
The worst case was found at Z axis, so the measurement will follow this same test configuration.

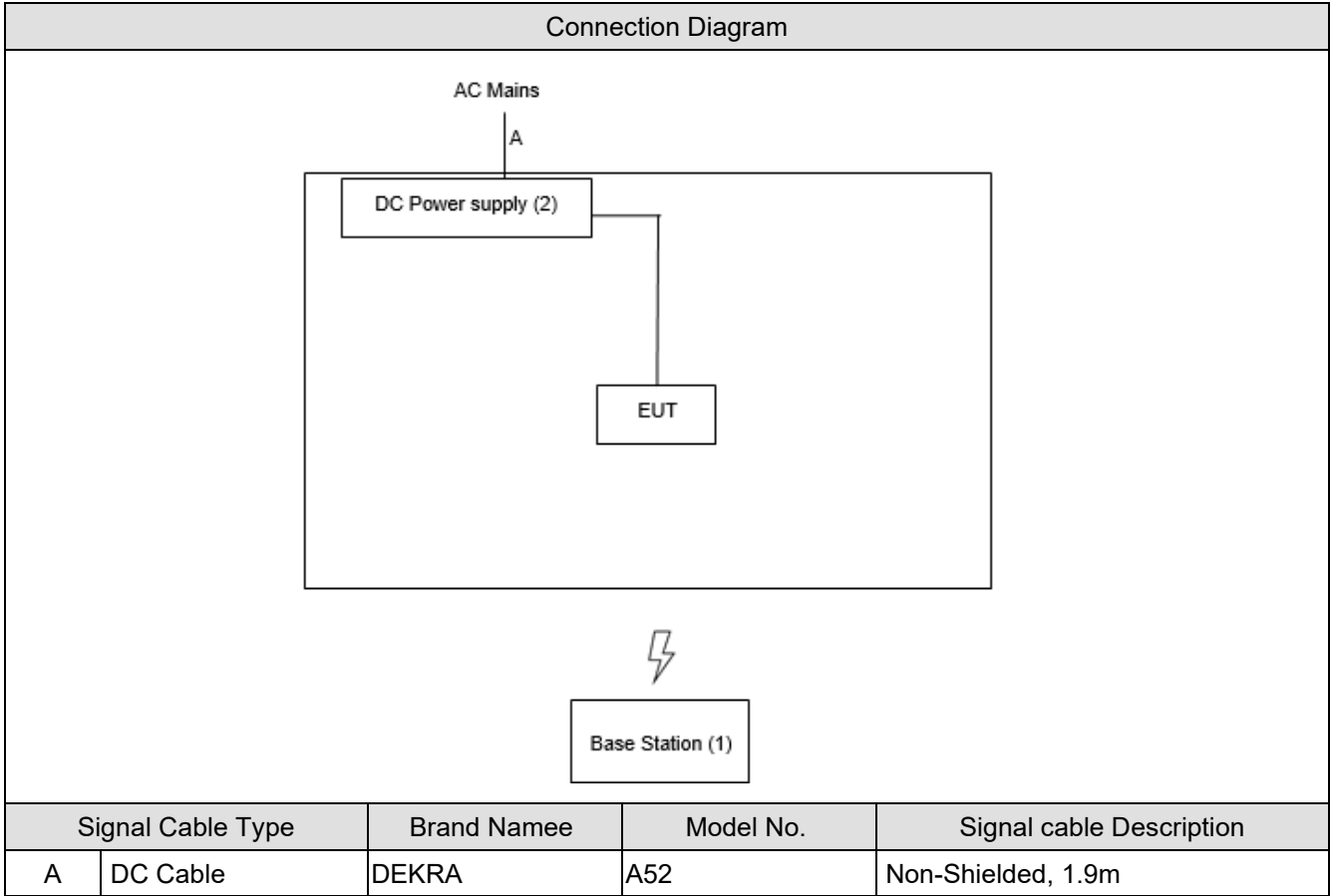
Note:

1. Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. The device was tested under all bandwidths, RB configurations and modulations.
The worst case was found in "QPSK" and show in "Conducted Band Edge".
The worst case was found in "QPSK / 20 MHz / 1RB0" and show in "Spurious Emission".
3. LTE Band 66 is covered by LTE Band 4.
4. LTE Band 26 is covered by LTE Band 5.
5. The EUT was performed at X axis, Y axis and Z axis position for radiated spurious emission test.
The worst case was found at Z axis, so the measurement will follow this same test configuration.

2.3. Tested System Details

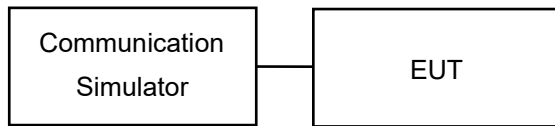
No.	Equipment	Brand Name	Model No.	Serial No.
1	Base Station	Anritsu	MT8821C	6261915489
2	DC Power supply	Topward	6303D	809497

2.4. Configuration of Tested System



3. RF Output Power

3.1. Test Setup



3.2. Test Procedure

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum conducted RF output power under transmission mode and specific channel frequency. The relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_T - L_C$$

where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas} , typically dBW or dBm);

P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

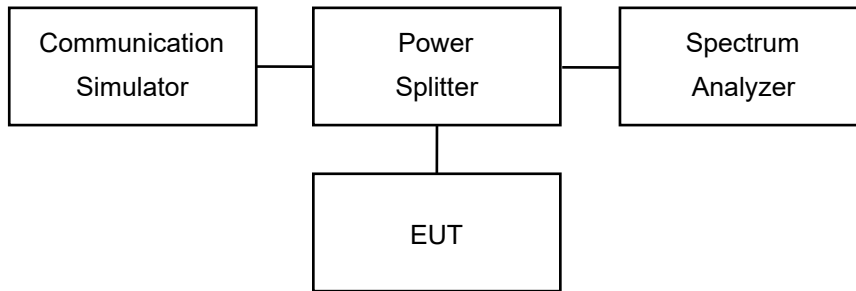
L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB

3.3. Test Result of RF Output Power

Refer as Appendix A

4. Occupied Bandwidth

4.1. Test Setup



4.2. Test Procedures

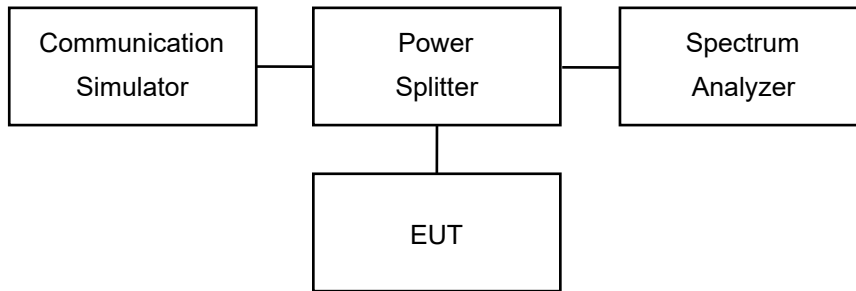
The EUT makes a call to the communication simulator. The 26dB bandwidth and 99% occupied bandwidth measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. The path loss was compensated to the results for each measurement.

4.3. Test Result of Occupied Bandwidth

Refer as Appendix B

5. Peak to Average Power Ratio

5.1. Test Setup



5.2. Test Procedure

1. The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. The path loss was compensated to the results for each measurement.
2. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth.
3. Set the number of counts to a value that stabilizes the measured CCDF curve.
4. Record the maximum PAPR level associated with a probability of 0.1 %.

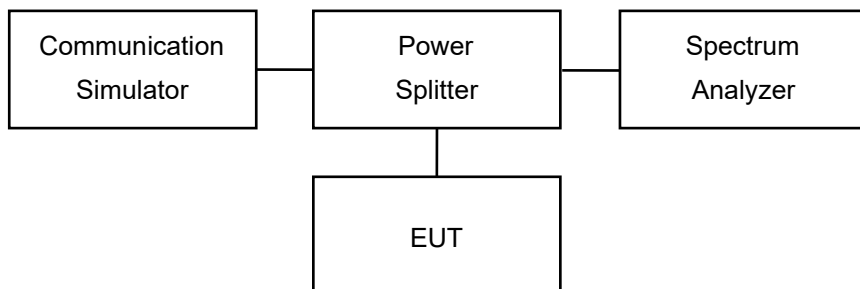
5.3. Test Result of Peak to Average Power Ratio

Refer as Appendix C

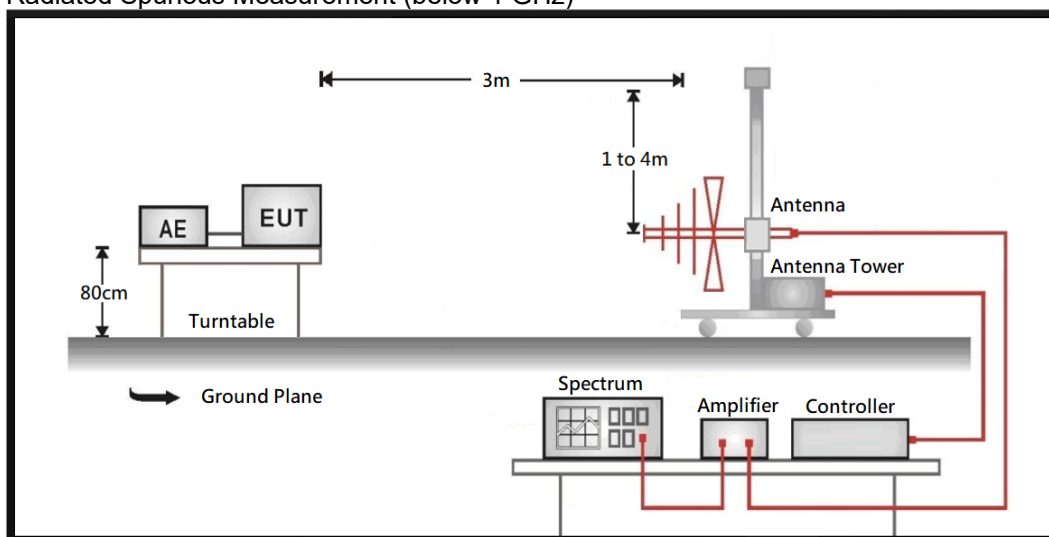
6. Spurious Emission

6.1. Test Setup

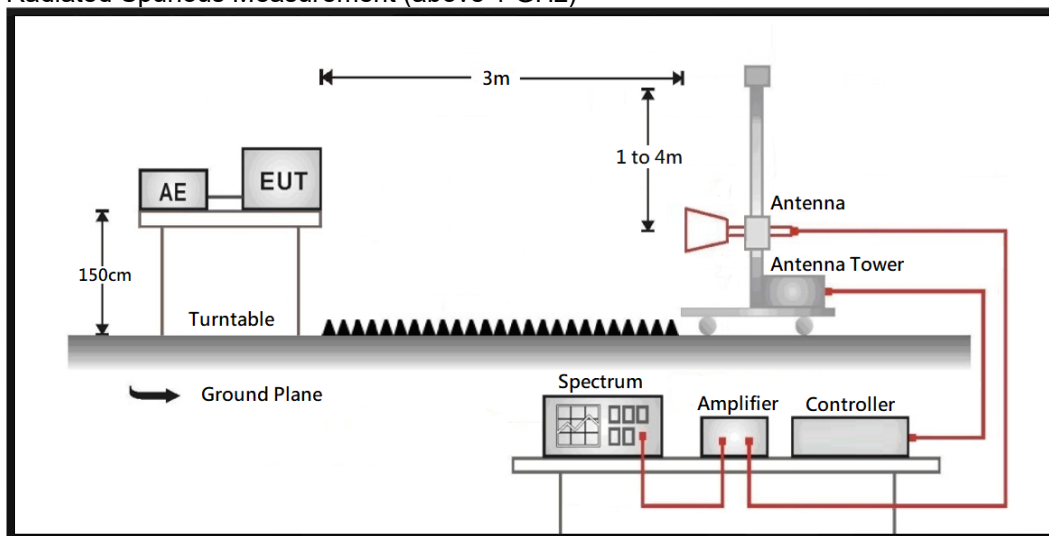
Conducted Spurious Measurement



Radiated Spurious Measurement (below 1 GHz)



Radiated Spurious Measurement (above 1 GHz)



6.2. Test Procedure

Conducted Spurious Measurement:

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. The path loss was compensated to the results for each measurement. The resolution bandwidth of the spectrum analyzer was set at 1 MHz, sufficient scans were taken to show the out of band Emission if any up to 10th harmonic.

Radiated Spurious Measurement:

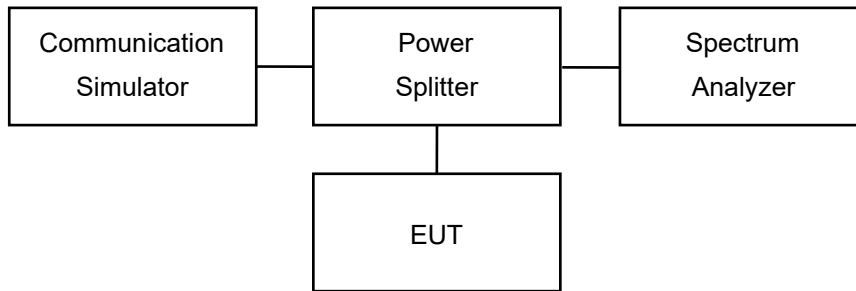
The EUT and its simulators are placed on a turn table which is 0.8 or 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations. The resolution bandwidth of the spectrum analyzer was set at 1 MHz, sufficient scans were taken to show the out of band Emission if any up to 10th harmonic. Taking the record of maximum spurious emission.

6.3. Test Result of Spurious Emission

Refer as Appendix D

7. Conducted Band Edge

7.1. Test Setup



7.2. Test Procedure

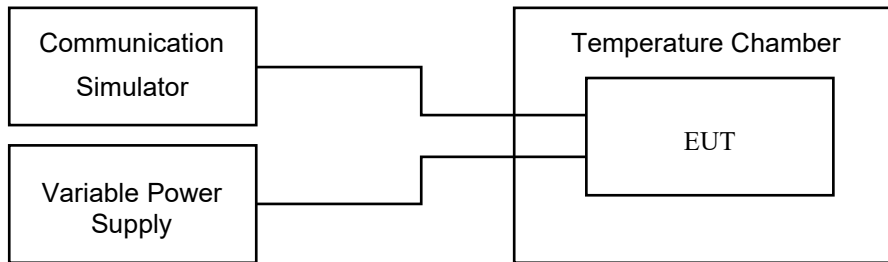
1. The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. The path loss was compensated to the results for each measurement.
2. In the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.

7.3. Test Result of Conducted Band Edge

Refer as Appendix E

8. Frequency Stability

8.1. Test Setup



8.2. Test Procedures

Frequency Stability under Temperature Variations:

The EUT under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a communication simulator. The EUT was placed inside the temperature chamber. Set the EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Frequency Stability under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC or DC power supply to power the EUT and set the voltage to rated voltage. Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

8.3. Test Result of Frequency Stability

Refer as Appendix F

Appendix A. Test Result of RF Output Power

Mode 1: LTE Band 2

Mode					Conducted Power		EIRP Power		Limit (W)
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	QPSK EIRP(W)	16-QAM EIRP(W)	
1.4	18607	1850.7	1	0	23.03	21.98	0.366	0.287	2
			1	2	23.04	22.07	0.366	0.293	2
			1	5	23.08	21.83	0.370	0.277	2
			6	0	22.13	21.29	0.297	0.245	2
	18900	1880	1	0	23.15	20.57	0.376	0.207	2
			1	2	23.11	21.62	0.372	0.264	2
			1	5	23.05	21.83	0.367	0.277	2
			6	0	22.12	21.36	0.296	0.249	2
	19193	1909.3	1	0	23.13	20.38	0.374	0.199	2
			1	2	23.16	21.86	0.377	0.279	2
			1	5	23.19	21.81	0.379	0.276	2
			6	0	22.67	21.63	0.337	0.265	2
3	18615	1851.5	1	0	22.18	20.49	0.301	0.204	2
			1	7	23.16	22.23	0.377	0.304	2
			1	14	22.95	21.87	0.359	0.280	2
			15	0	22.06	21.49	0.292	0.256	2
	18900	1880	1	0	23.17	20.83	0.378	0.220	2
			1	7	22.95	21.75	0.359	0.272	2
			1	14	23.17	22.25	0.378	0.305	2
			15	0	21.96	21.91	0.286	0.282	2
	19185	1908.5	1	0	23.01	20.87	0.364	0.222	2
			1	7	23.18	21.74	0.378	0.272	2
			1	14	22.97	21.70	0.361	0.269	2
			15	0	21.78	21.33	0.274	0.247	2

Note:

1. EIRP (W) = Conducted Output Power (dBm) + Antenna Gain (dBi)

2. EIRP (W) = $(10^{(\text{Power(dBm)}/10)}) \times 10^{-3}$

Mode					Conducted Power		EIRP Power		Limit (W)
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	QPSK EIRP(W)	16-QAM EIRP(W)	
5	18625	1852.5	1	0	22.95	20.55	0.359	0.207	2
			1	12	23.09	22.05	0.371	0.292	2
			1	24	23.00	21.91	0.363	0.282	2
			25	0	22.07	21.44	0.293	0.254	2
	18900	1880	1	0	23.15	21.02	0.376	0.230	2
			1	12	22.96	21.94	0.360	0.284	2
			1	24	22.89	21.90	0.354	0.282	2
			25	0	21.71	21.86	0.270	0.279	2
	19175	1907.5	1	0	23.01	20.97	0.364	0.228	2
			1	12	22.98	21.73	0.361	0.271	2
			1	24	23.12	22.00	0.373	0.288	2
			25	0	22.19	21.40	0.301	0.251	2
10	18650	1855	1	0	22.90	20.79	0.355	0.218	2
			1	24	23.01	22.16	0.364	0.299	2
			1	49	22.96	22.23	0.360	0.304	2
			50	0	22.16	-	0.299	-	2
	18900	1880	1	0	23.15	21.02	0.376	0.230	2
			1	24	22.87	21.25	0.352	0.243	2
			1	49	23.11	22.13	0.372	0.297	2
			50	0	22.01	-	0.289	-	2
	19150	1905	1	0	23.08	21.24	0.370	0.242	2
			1	24	22.94	21.76	0.358	0.273	2
			1	49	22.91	21.83	0.356	0.277	2
			50	0	21.83	-	0.277	-	2

Note:

1. EIRP (W) = Conducted Output Power (dBm) + Antenna Gain (dBi)

2. EIRP (W) = $(10^{(\text{Power(dBm)}/10)}) \times 10^{-3}$

Mode					Conducted Power		EIRP Power		Limit (W)
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	QPSK EIRP(W)	16-QAM EIRP(W)	
15	18675	1857.5	1	0	22.94	20.73	0.358	0.215	2
			1	37	23.14	22.12	0.375	0.296	2
			1	74	23.28	22.12	0.387	0.296	2
			75	0	22.28	-	0.308	-	2
	18900	1880	1	0	22.98	21.12	0.361	0.236	2
			1	37	23.10	22.09	0.372	0.294	2
			1	74	23.21	22.45	0.381	0.320	2
			75	0	21.95	-	0.285	-	2
	19125	1902.5	1	0	22.89	21.23	0.354	0.242	2
			1	37	22.75	21.66	0.343	0.267	2
			1	74	23.17	22.33	0.378	0.311	2
			75	0	21.82	-	0.277	-	2
20	18700	1860	1	0	23.10	20.91	0.372	0.224	2
			1	49	23.04	22.17	0.366	0.300	2
			1	99	23.30	22.11	0.389	0.296	2
			100	0	22.22	-	0.303	-	2
	18900	1880	1	0	22.99	21.16	0.362	0.238	2
			1	49	23.31	22.20	0.390	0.302	2
			1	99	23.09	21.93	0.371	0.284	2
			100	0	21.83	-	0.277	-	2
	19100	1900	1	0	22.85	21.13	0.351	0.236	2
			1	49	22.91	21.91	0.356	0.282	2
			1	99	22.92	21.82	0.356	0.277	2
			100	0	21.91	-	0.282	-	2

Note:

1. EIRP (W) = Conducted Output Power (dBm) + Antenna Gain (dBi)

2. EIRP (W) = $(10^{(\text{Power(dBm)}/10)}) \times 10^{-3}$

Mode 2: LTE Band 4 / Band 66

Mode					Conducted Power		EIRP Power		Limit (W)
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	QPSK EIRP(W)	16-QAM EIRP(W)	
1.4	131979	1710.7	1	0	22.99	22.00	0.378	0.301	1
			1	2	23.04	21.82	0.382	0.288	1
			1	5	22.75	21.79	0.357	0.286	1
			6	0	22.18	20.82	0.313	0.229	1
	132322	1745	1	0	23.24	22.26	0.400	0.319	1
			1	2	23.29	22.06	0.405	0.305	1
			1	5	23.18	21.84	0.394	0.290	1
			6	0	22.17	20.98	0.313	0.238	1
	132665	1779.3	1	0	23.31	21.95	0.406	0.297	1
			1	2	23.23	21.83	0.399	0.289	1
			1	5	23.24	22.03	0.400	0.303	1
			6	0	22.27	20.75	0.320	0.225	1
3	131987	1711.5	1	0	22.98	21.84	0.377	0.290	1
			1	7	22.97	21.94	0.376	0.296	1
			1	14	22.88	21.83	0.368	0.289	1
			15	0	22.11	20.96	0.308	0.237	1
	132322	1745	1	0	23.22	21.98	0.398	0.299	1
			1	7	23.31	22.04	0.406	0.303	1
			1	14	22.90	22.13	0.370	0.310	1
			15	0	22.12	21.18	0.309	0.249	1
	132657	1778.5	1	0	23.23	21.90	0.399	0.294	1
			1	7	22.87	21.98	0.367	0.299	1
			1	14	22.97	21.94	0.376	0.296	1
			15	0	22.14	21.13	0.310	0.246	1

Note:

1. EIRP (W) = Conducted Output Power (dBm) + Antenna Gain (dBi)

2. EIRP (W) = $(10^{(\text{Power(dBm)}/10)}) \times 10^{-3}$

Mode					Conducted Power		EIRP Power		Limit (W)
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	QPSK EIRP(W)	16-QAM EIRP(W)	
5	131997	1712.5	1	0	22.71	21.94	0.354	0.296	1
		1712.5	1	12	22.88	21.90	0.368	0.294	1
		1712.5	1	24	22.71	21.81	0.354	0.288	1
		1712.5	25	0	22.00	21.05	0.301	0.242	1
	132322	1745	1	0	23.08	22.28	0.385	0.321	1
		1745	1	12	23.12	22.09	0.389	0.307	1
		1745	1	24	22.85	22.00	0.366	0.301	1
		1745	25	0	22.20	21.27	0.315	0.254	1
	132647	1777.5	1	0	23.25	22.00	0.401	0.301	1
		1777.5	1	12	23.31	21.98	0.406	0.299	1
		1777.5	1	24	22.92	21.74	0.372	0.283	1
		1777.5	25	0	22.15	21.28	0.311	0.255	1
10	132022	1715	1	0	23.04	21.84	0.382	0.290	1
		1715	1	24	22.82	21.94	0.363	0.296	1
		1715	1	49	22.92	22.04	0.372	0.303	1
		1715	50	0	-	20.92	0.300	-	1
	132322	1745	1	0	23.00	21.92	0.378	0.295	1
		1745	1	24	23.24	22.19	0.400	0.314	1
		1745	1	49	23.33	22.06	0.408	0.305	1
		1745	50	0	-	21.17	0.318	-	1
	132622	1775	1	0	23.29	22.07	0.405	0.305	1
		1775	1	24	23.21	22.12	0.397	0.309	1
		1775	1	49	23.12	22.04	0.389	0.303	1
		1775	50	0	-	21.37	0.317	-	1

Note:

1. EIRP (W) = Conducted Output Power (dBm) + Antenna Gain (dBi)

2. $EIRP (W) = (10^{(Power(dBm)/10)}) * 10^{-3}$

Mode					Conducted Power		EIRP Power		Limit (W)
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	QPSK EIRP(W)	16-QAM EIRP(W)	
15	132047	1717.5	1	0	23.09	21.88	0.386	0.292	1
		1717.5	1	37	23.18	22.43	0.394	0.332	1
		1717.5	1	74	23.30	22.01	0.406	0.301	1
		1717.5	75	0	22.30	-	0.322	-	1
	132322	1745	1	0	23.24	22.06	0.400	0.305	1
		1745	1	37	23.20	22.08	0.396	0.306	1
		1745	1	74	23.32	22.13	0.407	0.310	1
		1745	75	0	22.21	-	0.316	-	1
	132597	1772.5	1	0	23.36	22.06	0.411	0.305	1
		1772.5	1	37	23.32	22.09	0.407	0.307	1
		1772.5	1	74	23.30	22.00	0.406	0.301	1
		1772.5	75	0	22.28	-	0.321	-	1
20	132072	1720	1	0	23.10	23.09	0.387	0.386	1
		1720	1	49	23.20	21.88	0.396	0.292	1
		1720	1	99	23.13	22.06	0.390	0.305	1
		1720	100	0	22.35	-	0.326	-	1
	132322	1745	1	0	23.26	21.96	0.402	0.298	1
		1745	1	49	23.37	22.09	0.412	0.307	1
		1745	1	99	23.25	22.11	0.401	0.308	1
		1745	100	0	22.24	-	0.318	-	1
	132572	1770	1	0	23.31	21.92	0.406	0.295	1
		1770	1	49	23.35	22.12	0.410	0.309	1
		1770	1	99	23.11	21.91	0.388	0.294	1
		1770	100	0	22.16	-	0.312	-	1

Note:

1. EIRP (W) = Conducted Output Power (dBm) + Antenna Gain (dBi)

2. $EIRP (W) = (10^{(Power(dBm)/10)}) * 10^{-3}$

Mode 3: LTE Band 5 / Band 26 (Part 22)

Mode					Conducted Power		ERP Power		Limit (W)
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	QPSK ERP(W)	16-QAM ERP(W)	
1.4	26797	824.7	1	0	23.19	22.05	0.134	0.103	7
			1	2	23.24	22.07	0.135	0.103	7
			1	5	23.29	22.01	0.137	0.102	7
			6	0	22.34	21.15	0.110	0.084	7
	26915	836.5	1	0	23.32	22.04	0.138	0.103	7
			1	2	23.27	22.28	0.136	0.108	7
			1	5	23.50	22.27	0.144	0.108	7
			6	0	22.41	21.25	0.112	0.086	7
	27033	848.3	1	0	23.43	22.23	0.141	0.107	7
			1	2	23.21	22.18	0.134	0.106	7
			1	5	23.35	22.25	0.139	0.108	7
			6	0	22.32	21.05	0.109	0.082	7
3	26805	825.5	1	0	23.52	22.64	0.144	0.118	7
			1	7	23.20	22.14	0.134	0.105	7
			1	14	23.24	21.99	0.135	0.101	7
			15	0	22.06	21.04	0.103	0.081	7
	26915	836.5	1	0	23.35	22.15	0.139	0.105	7
			1	7	23.22	22.34	0.135	0.110	7
			1	14	23.41	22.31	0.141	0.109	7
			15	0	22.41	21.29	0.112	0.086	7
	27025	847.5	1	0	23.52	22.53	0.144	0.115	7
			1	7	23.36	22.28	0.139	0.108	7
			1	14	23.51	22.30	0.144	0.109	7
			15	0	22.23	21.03	0.107	0.081	7

Note:

1. ERP (W) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15

2. ERP (W) = $(10^{(\text{Power(dBm)}/10)}) \cdot 10^{-3}$

Mode					Conducted Power		ERP Power		Limit (W)
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	QPSK ERP(W)	16-QAM ERP(W)	
5	26815	826.5	1	0	23.52	22.13	0.144	0.105	7
			1	12	23.04	21.84	0.129	0.098	7
			1	24	23.33	22.16	0.138	0.105	7
			25	0	22.08	21.10	0.104	0.083	7
	26915	836.5	1	0	23.28	22.36	0.136	0.110	7
			1	12	23.43	22.25	0.141	0.108	7
			1	24	23.41	22.33	0.141	0.110	7
			25	0	22.32	21.07	0.109	0.082	7
	27015	846.5	1	0	23.14	21.57	0.132	0.092	7
			1	12	23.04	22.02	0.129	0.102	7
			1	24	23.15	22.32	0.132	0.109	7
			25	0	21.96	21.94	0.101	0.100	7
10	26840	829	1	0	23.52	22.29	0.144	0.109	7
			1	24	23.17	22.17	0.133	0.106	7
			1	49	23.37	22.12	0.139	0.104	7
			50	0	22.36	-	0.110	-	7
	26915	836.5	1	0	23.31	22.23	0.137	0.107	7
			1	24	23.13	22.15	0.132	0.105	7
			1	49	23.51	22.23	0.144	0.107	7
			50	0	22.15	-	0.105	-	7
	26990	844	1	0	23.47	22.23	0.143	0.107	7
			1	24	23.14	22.13	0.132	0.105	7
			1	49	23.47	22.32	0.143	0.109	7
			50	0	22.32	-	0.109	-	7

Note:

1. ERP (W) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15

2. ERP (W) = $(10^{(\text{Power(dBm)}/10)}) \times 10^{-3}$

Mode					Conducted Power		ERP Power		Limit (W)
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	QPSK ERP(W)	16-QAM ERP(W)	
15 (band 26)	26865	831.5	1	0	23.39	22.39	0.140	0.111	7
			1	37	23.26	22.58	0.136	0.116	7
			1	74	23.48	22.10	0.143	0.104	7
			75	0	22.26	-	0.108	-	7
	26915	836.5	1	0	23.38	22.39	0.140	0.111	7
			1	37	23.65	22.84	0.149	0.123	7
			1	74	23.60	22.34	0.147	0.110	7
			75	0	23.09	-	0.131	-	7
	26965	841.5	1	0	23.54	22.57	0.145	0.116	7
			1	37	23.57	22.20	0.146	0.106	7
			1	74	23.39	22.24	0.140	0.107	7
			75	0	22.28	-	0.108	-	7

Note:

1. ERP (W) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15
2. ERP (W) = $(10^{(\text{Power(dBm)}/10)}) \cdot 10^{-3}$

Mode 4: LTE Band 7

Mode					Conducted Power		EIRP Power		Limit (W)
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	QPSK EIRP(W)	16-QAM EIRP(W)	
5	20775	2502.5	1	0	22.15	21.18	0.258	0.206	2
			1	12	22.10	21.16	0.255	0.205	2
			1	24	22.14	21.24	0.257	0.209	2
			25	0	21.94	20.96	0.245	0.196	2
	21100	2535	1	0	21.25	20.12	0.209	0.161	2
			1	12	21.64	20.60	0.229	0.180	2
			1	24	21.85	20.86	0.240	0.191	2
			25	0	21.69	20.64	0.232	0.182	2
	21425	2567.5	1	0	21.10	20.17	0.202	0.163	2
			1	12	21.90	20.90	0.243	0.193	2
			1	24	22.27	20.84	0.265	0.191	2
			25	0	22.08	20.81	0.254	0.189	2
10	20800	2505	1	0	21.18	19.90	0.206	0.153	2
			1	24	22.33	21.08	0.269	0.201	2
			1	49	22.28	21.18	0.265	0.206	2
			50	0	22.06	-	0.252	-	2
	21100	2535	1	0	21.28	20.24	0.211	0.166	2
			1	24	21.85	20.79	0.240	0.188	2
			1	49	22.15	21.16	0.258	0.205	2
			50	0	22.00	-	0.249	-	2
	21400	2565	1	0	21.18	20.10	0.206	0.161	2
			1	24	22.05	21.01	0.252	0.198	2
			1	49	22.33	21.18	0.269	0.206	2
			50	0	22.16	-	0.258	-	2

Note:

1. EIRP (W) = Conducted Output Power (dBm) + Antenna Gain (dBi)

2. EIRP (W) = $(10^{(\text{Power(dBm)}/10)}) \times 10^{-3}$

Mode					Conducted Power		EIRP Power		Limit (W)
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	QPSK EIRP(W)	16-QAM EIRP(W)	
15	20825	2507.5	1	0	21.22	20.09	0.208	0.160	2
			1	37	22.31	21.21	0.267	0.207	2
			1	74	22.35	21.00	0.270	0.198	2
			75	0	22.23	-	0.262	-	2
	21100	2535	1	0	22.21	20.29	0.261	0.168	2
			1	37	22.18	20.61	0.259	0.181	2
			1	74	22.36	20.99	0.270	0.197	2
			75	0	22.22	-	0.262	-	2
	21375	2562.5	1	0	22.16	20.04	0.258	0.158	2
			1	37	22.13	21.22	0.256	0.208	2
			1	74	22.26	20.99	0.264	0.197	2
			75	0	22.13	-	0.256	-	2
20	20850	2510	1	0	22.13	20.38	0.256	0.171	2
			1	49	22.03	21.14	0.251	0.204	2
			1	99	22.19	20.86	0.260	0.191	2
			100	0	22.08	-	0.254	-	2
	21100	2535	1	0	22.14	20.22	0.257	0.165	2
			1	49	22.39	20.72	0.272	0.185	2
			1	99	22.25	20.95	0.264	0.195	2
			100	0	22.10	-	0.255	-	2
	21350	2560	1	0	22.24	19.98	0.263	0.156	2
			1	49	22.33	21.06	0.269	0.200	2
			1	99	22.28	21.09	0.265	0.202	2
			100	0	22.10	-	0.255	-	2

Note:

1. EIRP (W) = Conducted Output Power (dBm) + Antenna Gain (dBi)

2. $EIRP (W) = (10^{(Power(dBm)/10)}) * 10^{-3}$

Mode 5: LTE Band 8

Mode					Conducted Power		ERP Power		Limit (W)
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	QPSK ERP(W)	16-QAM ERP(W)	
1.4	21632	898.2	1	0	23.45	22.53	0.131	0.106	7
			1	12	23.41	22.32	0.129	0.101	7
			1	24	23.42	22.50	0.130	0.105	7
			25	0	23.56	22.19	0.134	0.098	7
	21640	899	1	0	23.49	22.33	0.132	0.101	7
			1	12	23.46	22.24	0.131	0.099	7
			1	24	23.41	22.26	0.129	0.099	7
			25	0	23.45	22.29	0.131	0.100	7
	21648	899.8	1	0	23.44	22.12	0.130	0.096	7
			1	12	23.43	22.36	0.130	0.102	7
			1	24	23.57	22.27	0.134	0.100	7
			25	0	23.52	22.22	0.133	0.098	7
3	21640	899	1	0	23.58	22.23	0.135	0.099	7
			1	24	23.61	22.24	0.136	0.099	7
			1	49	23.45	22.33	0.131	0.101	7
			50	0	23.47	22.56	0.131	0.106	7

Note:

1. ERP (W) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15dB
2. ERP (W) = $(10^{(\text{Power(dBm)}/10)}) \times 10^{-3}$

Mode 6: LTE Band 12

Mode					Conducted Power		ERP Power		Limit (W)
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	QPSK ERP(W)	16-QAM ERP(W)	
1.4	23017	699.7	1	0	23.36	22.51	0.093	0.076	3
			1	2	23.39	22.43	0.093	0.075	3
			1	5	23.46	22.23	0.095	0.071	3
			6	0	23.47	22.26	0.095	0.072	3
	23095	707.5	1	0	23.41	21.00	0.094	0.054	3
			1	2	23.47	22.24	0.095	0.072	3
			1	5	23.44	22.24	0.094	0.072	3
			6	0	23.25	22.48	0.090	0.076	3
	23173	715.3	1	0	22.59	21.21	0.078	0.056	3
			1	2	23.50	22.18	0.096	0.071	3
			1	5	23.41	21.87	0.094	0.066	3
			6	0	23.35	22.29	0.092	0.072	3
3	23025	700.5	1	0	22.47	21.25	0.076	0.057	3
			1	7	23.06	22.18	0.086	0.071	3
			1	14	23.50	22.29	0.096	0.072	3
			15	0	23.13	22.32	0.088	0.073	3
	23095	707.5	1	0	22.49	21.26	0.076	0.057	3
			1	7	23.33	22.39	0.092	0.074	3
			1	14	23.38	22.17	0.093	0.070	3
			15	0	23.30	22.19	0.091	0.071	3
	23165	714.5	1	0	22.60	21.57	0.078	0.061	3
			1	7	23.23	22.38	0.090	0.074	3
			1	14	23.64	22.16	0.099	0.070	3
			15	0	23.23	22.45	0.090	0.075	3

Note:

1. ERP (W) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15dB

2. ERP (W) = $(10^{(\text{Power(dBm)}/10)}) \cdot 10^{-3}$

Mode					Conducted Power		ERP Power		Limit (W)
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	QPSK ERP(W)	16-QAM ERP(W)	
5	23035	701.5	1	0	22.45	21.33	0.075	0.058	3
			1	12	23.26	22.41	0.091	0.074	3
			1	24	23.35	22.38	0.092	0.074	3
			25	0	23.30	22.05	0.091	0.069	3
	23095	707.5	1	0	22.49	21.45	0.076	0.060	3
			1	12	23.16	22.42	0.089	0.075	3
			1	24	23.32	22.29	0.092	0.072	3
			25	0	22.99	22.18	0.085	0.071	3
	23155	713.5	1	0	22.46	21.33	0.075	0.058	3
			1	12	23.02	22.19	0.086	0.071	3
			1	24	23.39	22.21	0.093	0.071	3
			25	0	23.34	22.14	0.092	0.070	3
10	23060	704	1	0	22.39	21.40	0.074	0.059	3
			1	24	23.46	22.33	0.095	0.073	3
			1	49	23.61	22.38	0.098	0.074	3
			50	0	23.35	-	0.092	-	3
	23095	707.5	1	0	22.49	21.38	0.076	0.059	3
			1	24	23.65	22.26	0.099	0.072	3
			1	49	23.43	22.44	0.094	0.075	3
			50	0	23.25	-	0.090	-	3
	23130	711	1	0	22.56	21.49	0.077	0.060	3
			1	24	23.23	22.32	0.090	0.073	3
			1	49	23.37	21.89	0.093	0.066	3
			50	0	23.26	-	0.091	-	3

Note:

1. ERP (W) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15dB
2. ERP (W) = $(10^{(\text{Power(dBm)}/10)}) \times 10^{-3}$

Mode 7: LTE Band 13

Mode					Conducted Power		ERP Power		Limit (W)
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	QPSK ERP(W)	16-QAM ERP(W)	
5	23205	779.5	1	0	22.99	22.77	0.127	0.121	3
			1	12	23.27	22.52	0.135	0.114	3
			1	24	23.63	22.61	0.147	0.116	3
			25	0	22.69	21.53	0.118	0.091	3
	23230	782	1	0	22.79	22.66	0.121	0.117	3
			1	12	23.51	22.50	0.143	0.113	3
			1	24	23.45	22.65	0.141	0.117	3
			25	0	22.59	21.58	0.116	0.092	3
	23255	784.5	1	0	22.78	22.59	0.121	0.116	3
			1	12	23.58	22.82	0.145	0.122	3
			1	24	23.59	22.53	0.146	0.114	3
			25	0	22.54	21.95	0.114	0.100	3
10	23230	782	1	0	23.48	22.77	0.142	0.121	3
			1	24	23.71	22.29	0.150	0.108	3
			1	49	23.69	22.70	0.149	0.119	3
			50	0	22.66	-	0.117	-	3

Note:

1. ERP (W) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15dB
2. ERP (W) = $(10^{(\text{Power(dBm)}/10)}) \times 10^{-3}$

Mode 8: LTE Band 26 (Part 90)

Mode					Conducted Power		ERP Power		Limit (W)
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	QPSK ERP(W)	16-QAM ERP(W)	
1.4	26697	814.7	1	0	23.62	22.59	0.148	0.116	100
			1	2	23.58	22.81	0.146	0.122	100
			1	5	23.58	22.51	0.146	0.114	100
			6	0	22.55	21.33	0.115	0.087	100
	26740	819	1	0	23.65	22.53	0.149	0.115	100
			1	2	23.56	22.45	0.146	0.113	100
			1	5	23.56	22.54	0.146	0.115	100
			6	0	22.73	21.74	0.120	0.096	100
	26783	823.3	1	0	23.59	22.45	0.147	0.113	100
			1	2	23.53	21.76	0.145	0.096	100
			1	5	23.54	22.32	0.145	0.109	100
			6	0	22.48	21.30	0.114	0.086	100
3	26705	815.5	1	0	23.52	22.39	0.144	0.111	100
			1	7	23.47	22.49	0.143	0.114	100
			1	14	23.63	22.50	0.148	0.114	100
			15	0	22.65	21.69	0.118	0.095	100
	26740	819	1	0	23.65	22.57	0.149	0.116	100
			1	7	23.56	22.47	0.146	0.113	100
			1	14	23.28	22.53	0.136	0.115	100
			15	0	22.69	21.64	0.119	0.094	100
	26775	822.5	1	0	23.36	22.44	0.139	0.112	100
			1	7	23.55	22.30	0.145	0.109	100
			1	14	23.38	22.42	0.140	0.112	100
			15	0	22.64	21.50	0.118	0.091	100

Note:

1. ERP (W) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15dB

2. ERP (W) = $(10^{(\text{Power(dBm)}/10)}) \cdot 10^{-3}$

Mode					Conducted Power		ERP Power		Limit (W)
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	QPSK ERP(W)	16-QAM ERP(W)	
5	26715	816.5	1	0	23.37	22.30	0.139	0.109	100
			1	12	23.59	22.49	0.147	0.114	100
			1	24	23.47	22.44	0.143	0.112	100
			25	0	22.74	21.69	0.121	0.095	100
	26740	819	1	0	23.46	22.30	0.142	0.109	100
			1	12	23.54	22.44	0.145	0.112	100
			1	24	23.28	22.25	0.136	0.108	100
			25	0	22.72	21.65	0.120	0.094	100
	26765	821.5	1	0	23.43	22.45	0.141	0.113	100
			1	12	23.70	22.41	0.150	0.112	100
			1	24	23.30	22.28	0.137	0.108	100
			25	0	22.65	21.59	0.118	0.092	100
10	26740	819	1	0	23.42	22.48	0.141	0.114	100
			1	24	23.60	22.42	0.147	0.112	100
			1	49	23.57	22.29	0.146	0.109	100
			50	0	22.68	-	0.119	-	100

Note:

1. ERP (W) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15dB
2. ERP (W) = $(10^{(\text{Power(dBm)}/10)}) \times 10^{-3}$

Mode 9: LTE Band 38

Mode					Conducted Power		EIRP Power		Limit (W)
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	QPSK EIRP(W)	16-QAM EIRP(W)	
5	37775	2572.5	1	0	22.53	21.37	0.268	0.205	2
			1	12	22.72	21.55	0.280	0.214	2
			1	24	22.41	21.36	0.261	0.205	2
			25	0	21.65	20.78	0.219	0.179	2
	38000	2595	1	0	22.37	21.21	0.258	0.198	2
			1	12	22.64	21.37	0.275	0.205	2
			1	24	22.44	21.20	0.262	0.197	2
			25	0	21.45	20.71	0.209	0.176	2
	38225	2617.5	1	0	22.63	21.57	0.274	0.215	2
			1	12	22.94	21.63	0.294	0.218	2
			1	24	22.64	21.50	0.275	0.211	2
			25	0	21.88	21.12	0.231	0.194	2
10	37800	2575	1	0	22.65	21.51	0.275	0.212	2
			1	24	22.63	21.67	0.274	0.220	2
			1	49	22.33	21.14	0.256	0.195	2
			50	0	21.79	-	0.226	-	2
	38000	2595	1	0	22.56	21.26	0.270	0.200	2
			1	24	22.57	21.53	0.270	0.213	2
			1	49	22.50	21.22	0.266	0.198	2
			50	0	21.53	-	0.213	-	2
	38200	2615	1	0	22.70	21.36	0.279	0.205	2
			1	24	22.67	21.79	0.277	0.226	2
			1	49	22.72	21.47	0.280	0.210	2
			50	0	21.87	-	0.230	-	2

Note:

1. EIRP (W) = Conducted Output Power (dBm) + Antenna Gain (dBi)
2. $EIRP (W) = (10^{(Power(dBm)/10)}) * 10^{-3}$

Mode					Conducted Power		EIRP Power		Limit (W)
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	QPSK EIRP(W)	16-QAM EIRP(W)	
15	37825	2577.5	1	0	22.84	21.49	0.288	0.211	2
			1	37	22.50	21.53	0.266	0.213	2
			1	74	22.55	21.14	0.269	0.195	2
			75	0	21.58	-	0.215	-	2
	38000	2595	1	0	22.57	21.39	0.270	0.206	2
			1	37	22.64	21.46	0.275	0.209	2
			1	74	22.59	21.39	0.272	0.206	2
			75	0	21.48	-	0.210	-	2
	38175	2612.5	1	0	22.72	21.46	0.280	0.209	2
			1	37	22.68	21.50	0.277	0.211	2
			1	74	22.62	21.55	0.274	0.214	2
			75	0	21.91	-	0.232	-	2
20	37850	2580	1	0	22.65	21.49	0.275	0.211	2
			1	49	22.53	21.57	0.268	0.215	2
			1	99	22.41	21.23	0.261	0.199	2
			100	0	21.55	-	0.214	-	2
	38000	2595	1	0	22.68	21.28	0.277	0.201	2
			1	49	22.94	21.49	0.294	0.211	2
			1	99	22.61	21.24	0.273	0.199	2
			100	0	21.59	-	0.216	-	2
	38150	2610	1	0	22.63	21.35	0.274	0.204	2
			1	49	22.85	21.73	0.288	0.223	2
			1	99	22.79	21.44	0.284	0.208	2
			100	0	21.60	-	0.216	-	2

Note:

1. EIRP (W) = Conducted Output Power (dBm) + Antenna Gain (dBi)

2. EIRP (W) = $(10^{(\text{Power(dBm)}/10)}) \times 10^{-3}$

Mode 10: LTE Band 41

Mode					Conducted Power		EIRP Power		Limit (W)
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	QPSK EIRP(W)	16-QAM EIRP(W)	
5	39675	2498.5	1	0	23.25	22.22	0.332	0.262	2
			1	12	23.30	22.04	0.336	0.251	2
			1	24	23.12	21.93	0.322	0.245	2
			25	0	22.32	21.65	0.268	0.230	2
	40620	2593	1	0	22.26	21.27	0.264	0.210	2
			1	12	22.36	21.25	0.270	0.209	2
			1	24	22.27	21.19	0.265	0.207	2
			25	0	21.48	20.46	0.221	0.175	2
	41565	2687.5	1	0	22.30	21.08	0.267	0.201	2
			1	12	22.30	21.14	0.267	0.204	2
			1	24	22.33	21.04	0.269	0.200	2
			25	0	21.52	20.50	0.223	0.176	2
10	39700	2501	1	0	23.29	22.35	0.335	0.270	2
			1	24	23.19	22.17	0.327	0.259	2
			1	49	22.90	21.84	0.306	0.240	2
			50	0	22.28	-	0.265	-	2
	40620	2593	1	0	22.40	21.32	0.273	0.213	2
			1	24	22.50	21.42	0.279	0.218	2
			1	49	22.37	21.38	0.271	0.216	2
			50	0	21.57	-	0.225	-	2
	41540	2685	1	0	22.41	21.23	0.274	0.208	2
			1	24	22.41	21.34	0.274	0.214	2
			1	49	22.34	21.18	0.269	0.206	2
			50	0	21.55	-	0.224	-	2

Note:

1. EIRP (W) = Conducted Output Power (dBm) + Antenna Gain (dBi)
2. $EIRP (W) = (10^{(Power(dBm)/10)}) * 10^{-3}$

Mode					Conducted Power		EIRP Power		Limit (W)
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	QPSK EIRP(W)	16-QAM EIRP(W)	
15	39725	2503.5	1	0	23.21	22.18	0.329	0.259	2
			1	37	23.15	21.63	0.324	0.229	2
			1	74	22.61	21.49	0.286	0.221	2
			75	0	21.88	-	0.242	-	2
	40620	2593	1	0	22.55	21.45	0.282	0.219	2
			1	37	22.35	21.35	0.270	0.214	2
			1	74	22.37	21.47	0.271	0.220	2
			75	0	21.25	-	0.209	-	2
	41515	2682.5	1	0	22.64	21.36	0.288	0.215	2
			1	37	22.58	21.13	0.284	0.204	2
			1	74	22.25	21.18	0.264	0.206	2
			75	0	21.35	-	0.214	-	2
20	39750	2506	1	0	23.12	22.18	0.322	0.259	2
			1	49	22.82	21.76	0.301	0.236	2
			1	99	22.52	21.50	0.281	0.222	2
			100	0	21.56	-	0.225	-	2
	40620	2593	1	0	22.45	21.26	0.276	0.210	2
			1	49	23.32	21.60	0.337	0.227	2
			1	99	22.42	21.35	0.274	0.214	2
			100	0	21.44	-	0.219	-	2
	41490	2680	1	0	22.56	21.35	0.283	0.214	2
			1	49	22.51	21.49	0.280	0.221	2
			1	99	22.13	21.17	0.256	0.206	2
			100	0	21.46	-	0.220	-	2

Note:

1. EIRP (W) = Conducted Output Power (dBm) + Antenna Gain (dBi)

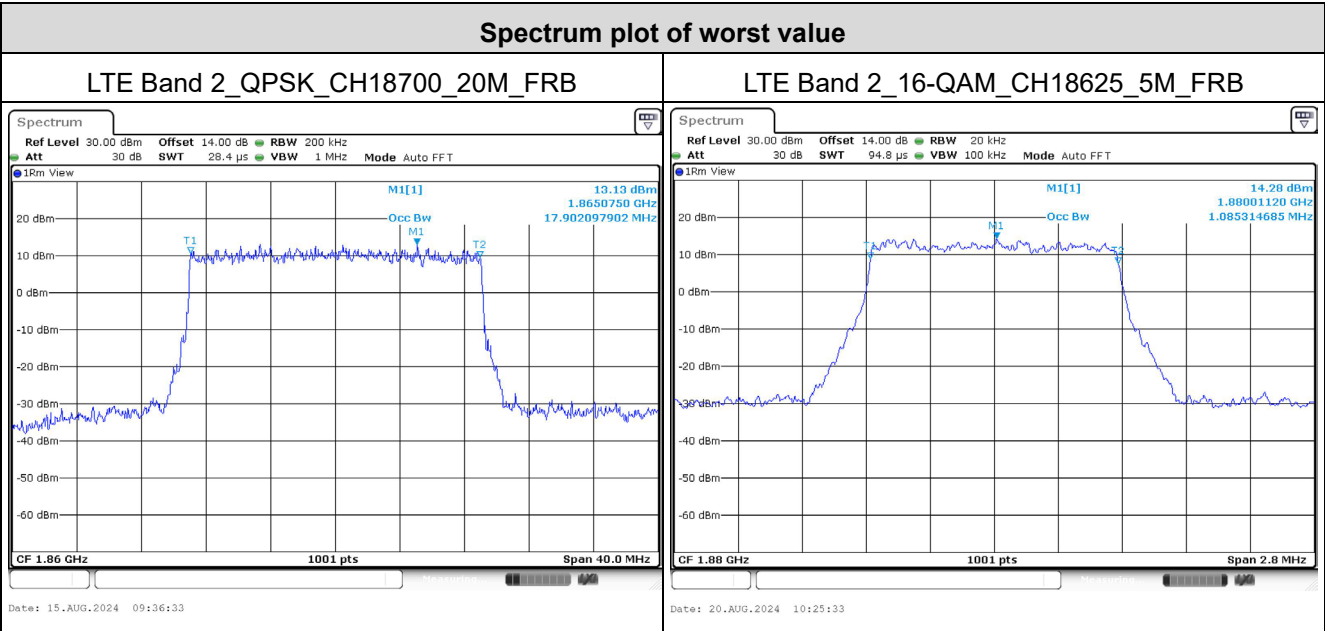
2. EIRP (W) = $(10^{(\text{Power(dBm)}/10)}) \times 10^{-3}$

Appendix B. Test Result of Occupied Bandwidth

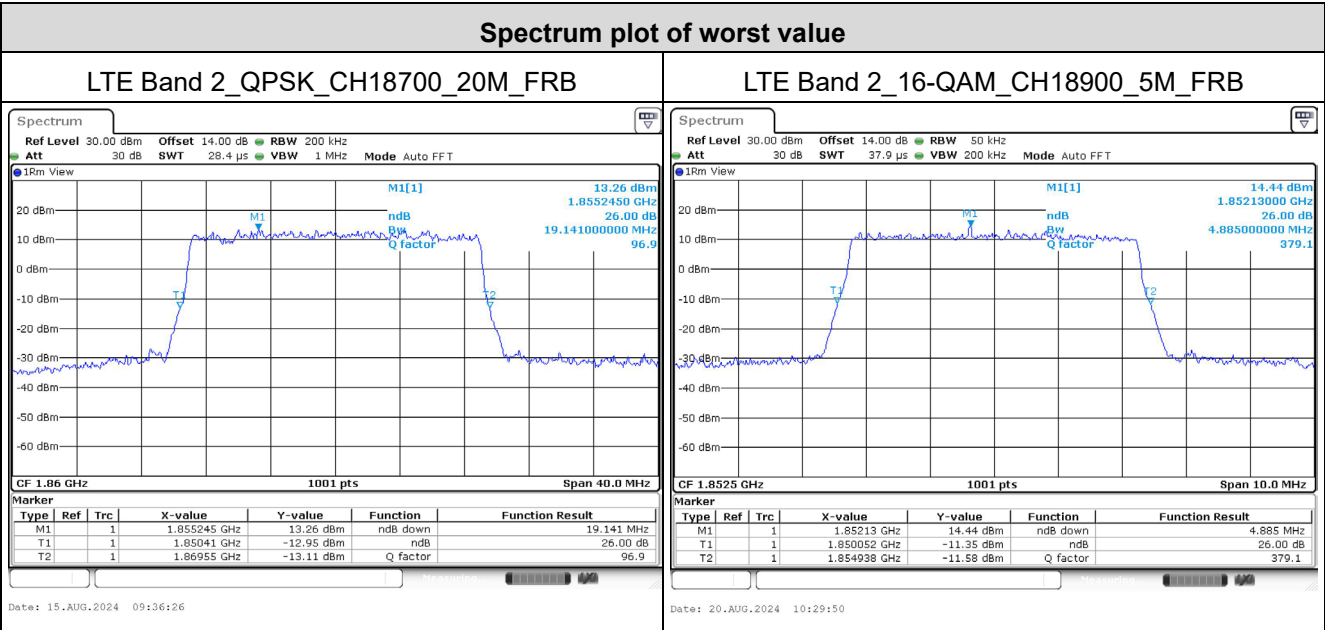
Mode 1: LTE Band 2

Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
				26dB BW	99% BW	
1.4	QPSK	18607	1850.7	1.31	1.08	N/A
		18900	1880.0	1.28	1.09	N/A
		19193	1909.3	1.29	1.08	N/A
	16-QAM	18607	1850.7	1.27	1.09	N/A
		18900	1880.0	1.27	1.09	N/A
		19193	1909.3	1.30	1.09	N/A
3	QPSK	18615	1851.5	2.94	2.69	N/A
		18900	1880.0	2.95	2.69	N/A
		19185	1908.5	2.93	2.67	N/A
	16-QAM	18615	1851.5	2.93	2.68	N/A
		18900	1880.0	2.94	2.68	N/A
		19185	1908.5	2.94	2.68	N/A
5	QPSK	18625	1852.5	4.93	4.48	N/A
		18900	1880.0	4.92	4.47	N/A
		19175	1907.5	4.93	4.46	N/A
	16-QAM	18625	1852.5	4.89	4.48	N/A
		18900	1880.0	4.95	4.47	N/A
		19175	1907.5	4.93	4.46	N/A
10	QPSK	18650	1855.0	9.69	8.93	N/A
		18900	1880.0	9.67	8.93	N/A
		19150	1905.0	9.61	8.91	N/A
15	QPSK	18675	1857.5	14.66	13.37	N/A
		18900	1880.0	14.66	13.31	N/A
		19125	1902.5	14.54	13.34	N/A
20	QPSK	18700	1860.0	19.14	17.90	N/A
		18900	1880.0	18.94	17.78	N/A
		19100	1900.0	18.86	17.82	N/A

For 99% Bandwidth:



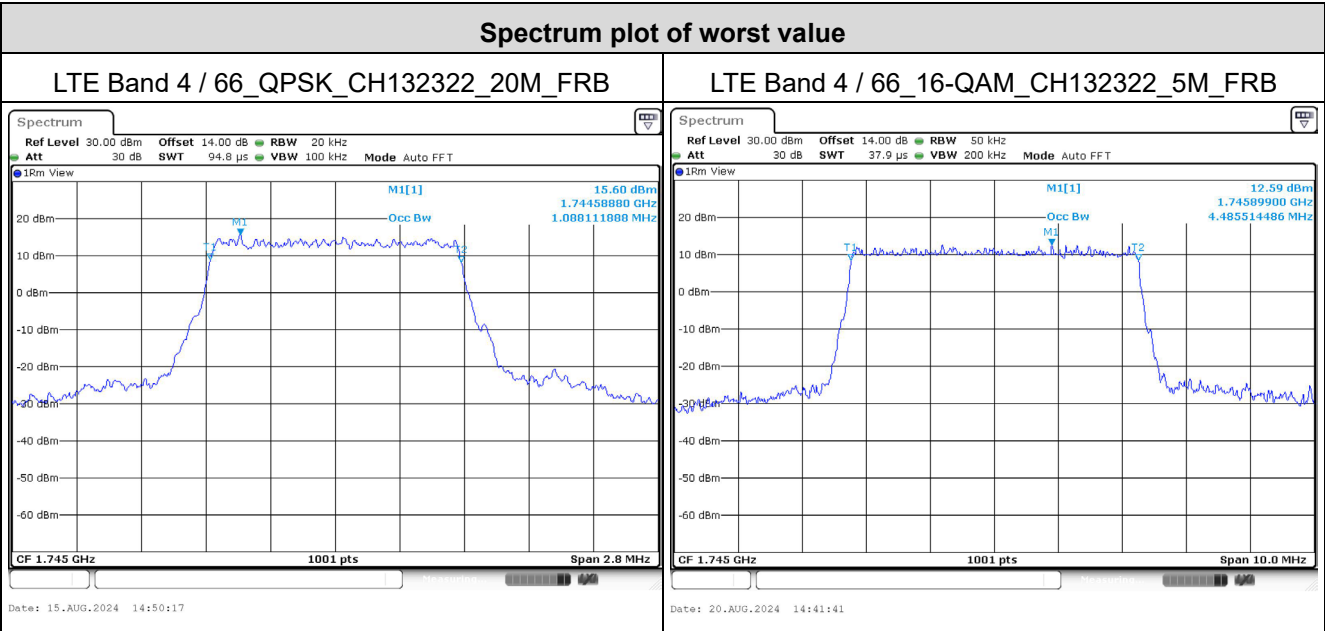
For 26dB Bandwidth:



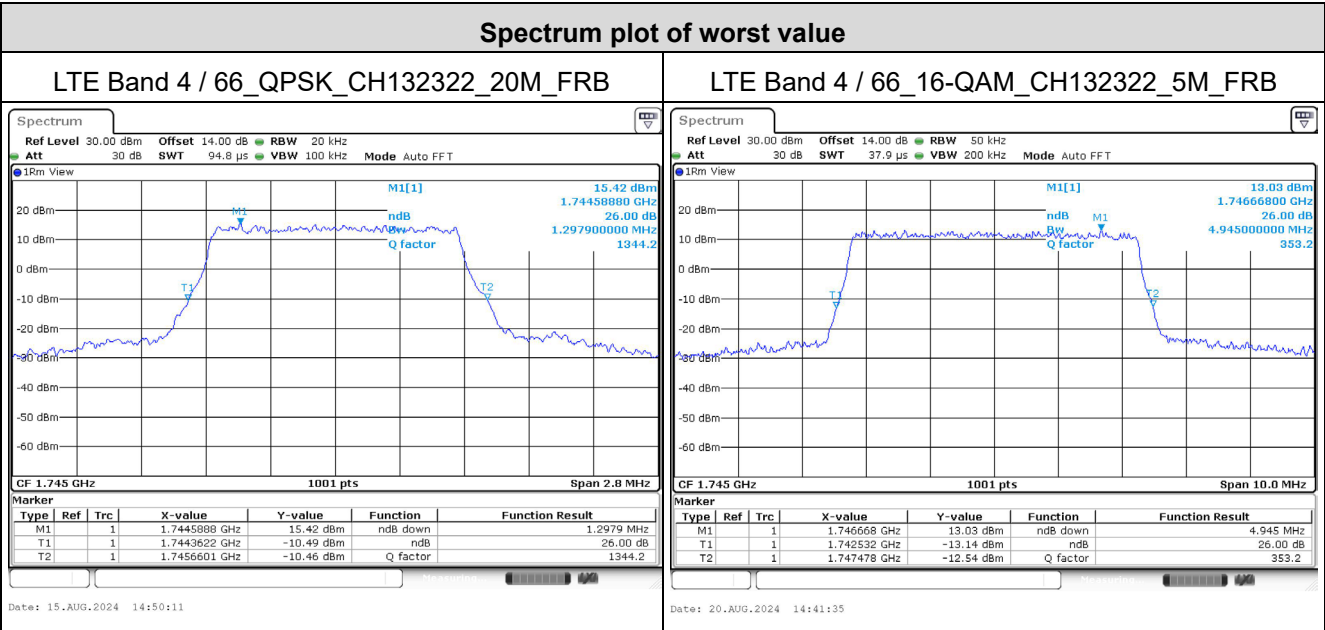
Mode 2: LTE Band 4 / Band 66

Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
				26dB BW	99% BW	
1.4	QPSK	131979	1710.7	1.26	1.09	N/A
		132322	1745.0	1.30	1.09	N/A
		132665	1779.3	1.27	1.08	N/A
	16-QAM	131979	1710.7	1.26	1.08	N/A
		132322	1745.0	1.26	1.08	N/A
		132665	1779.3	1.27	1.09	N/A
3	QPSK	131987	1711.5	2.93	2.69	N/A
		132322	1745.0	2.93	2.69	N/A
		132657	1778.5	2.94	2.69	N/A
	16-QAM	131987	1711.5	2.94	2.69	N/A
		132322	1745.0	2.93	2.69	N/A
		132657	1778.5	2.96	2.68	N/A
5	QPSK	131997	1712.5	4.95	4.49	N/A
		132322	1745.0	4.91	4.47	N/A
		132647	1777.5	4.92	4.48	N/A
	16-QAM	131997	1712.5	4.87	4.46	N/A
		132322	1745.0	4.95	4.49	N/A
		132647	1777.5	4.93	4.49	N/A
10	QPSK	132022	1715.0	9.75	8.95	N/A
		132322	1745.0	9.69	8.95	N/A
		132622	1775.0	9.69	8.93	N/A
15	QPSK	132047	1717.5	14.63	13.40	N/A
		132322	1745.0	14.54	13.40	N/A
		132597	1772.5	14.45	13.37	N/A
20	QPSK	132072	1720.0	18.90	17.78	N/A
		132322	1745.0	19.18	17.82	N/A
		132572	1770.0	18.98	17.74	N/A

For 99% Bandwidth:



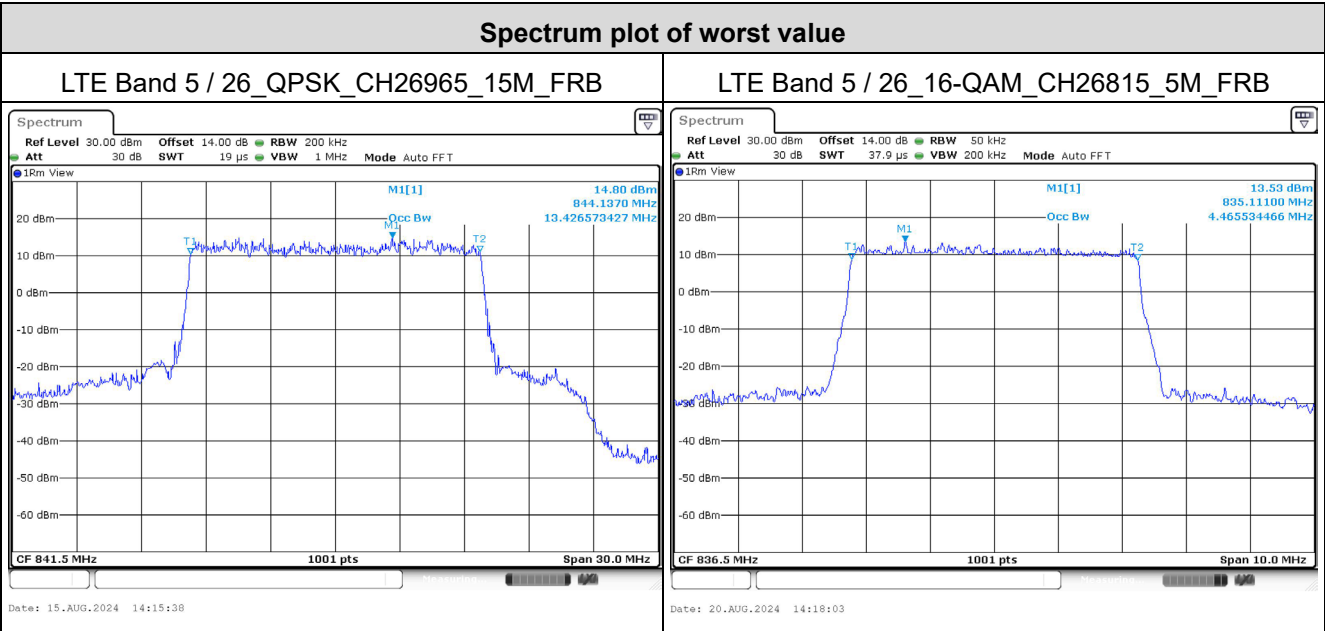
For 26dB Bandwidth:



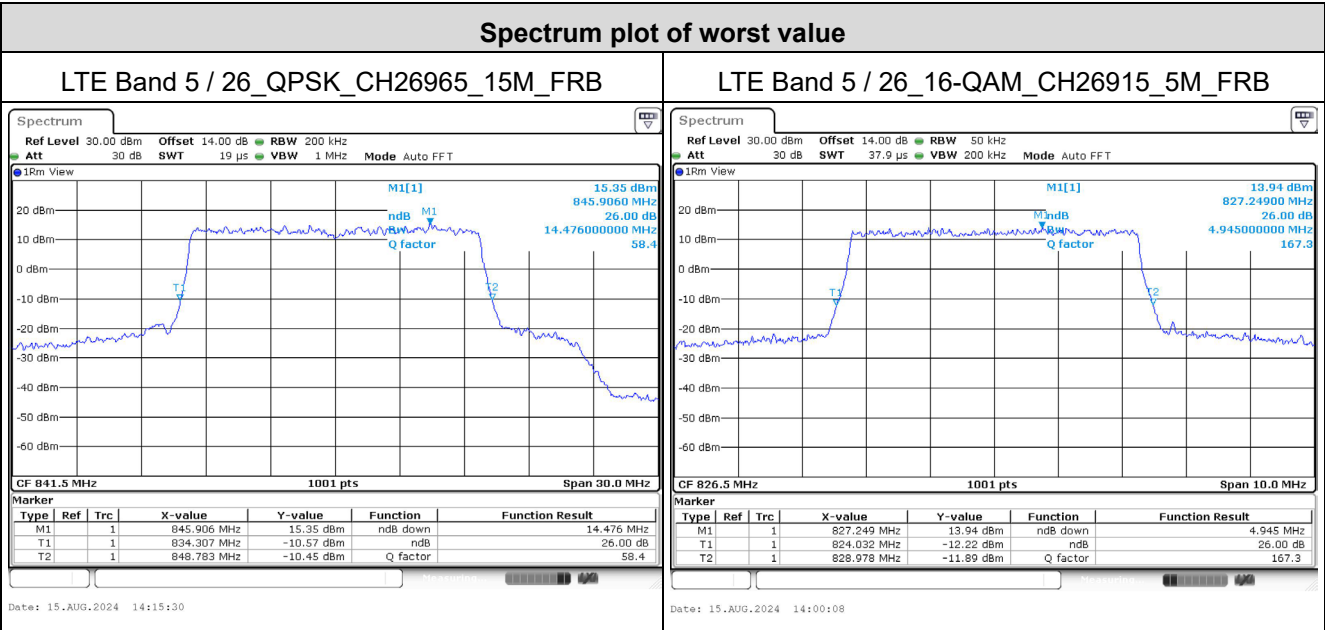
Mode 3: LTE Band 5 / Band 26 (Part 22)

Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
				26dB BW	99% BW	
1.4	QPSK	26797	824.7	1.26	1.09	N/A
		26915	836.5	1.26	1.09	N/A
		27033	848.3	1.25	1.09	N/A
	16-QAM	26797	824.7	1.27	1.09	N/A
		26915	836.5	1.25	1.08	N/A
		27033	848.3	1.29	1.09	N/A
3	QPSK	26805	825.5	2.92	2.68	N/A
		26915	836.5	2.94	2.69	N/A
		27025	847.5	2.92	2.69	N/A
	16-QAM	26805	825.5	2.95	2.67	N/A
		26915	836.5	2.94	2.68	N/A
		27025	847.5	2.93	2.68	N/A
5	QPSK	26815	826.5	4.95	4.47	N/A
		26915	836.5	4.90	4.47	N/A
		27015	846.5	4.88	4.47	N/A
	16-QAM	26815	826.5	4.88	4.47	N/A
		26915	836.5	4.92	4.47	N/A
		27015	846.5	4.89	4.46	N/A
10	QPSK	26840	829.0	9.67	8.93	N/A
		26915	836.5	9.67	8.91	N/A
		26990	844.0	9.65	8.91	N/A
15	QPSK	26865	831.5	14.45	13.37	N/A
		26915	836.5	14.33	13.37	N/A
		26965	841.5	14.48	13.43	N/A

For 99% Bandwidth:



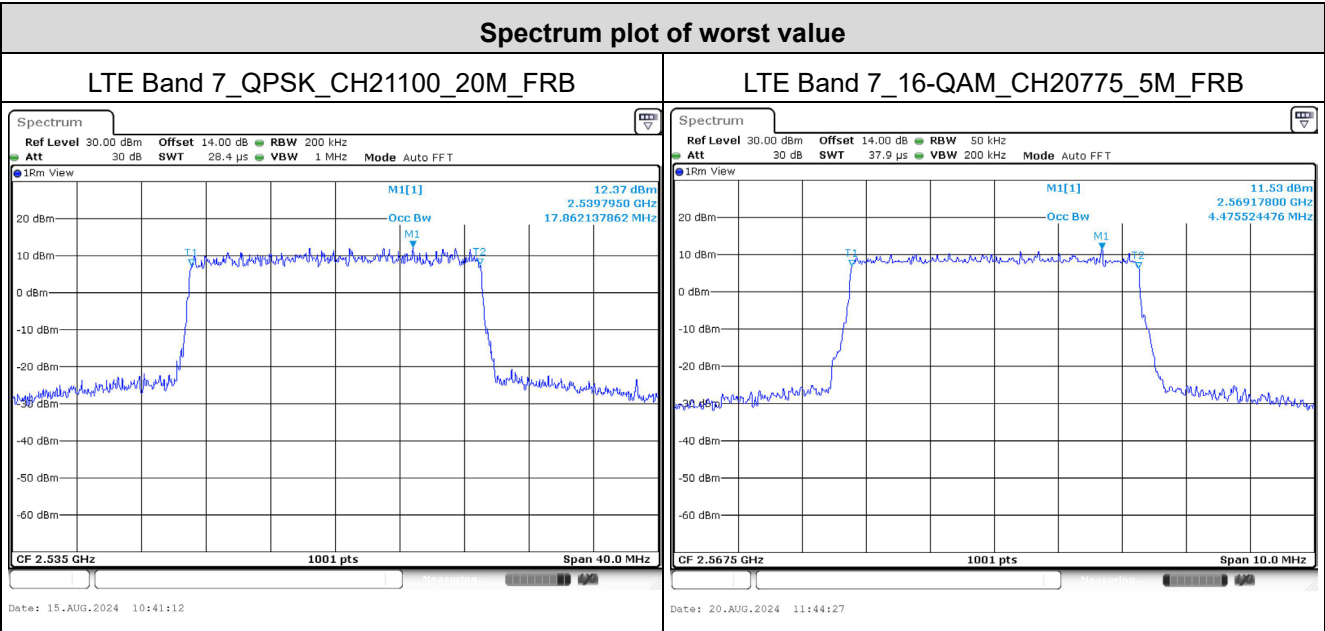
For 26dB Bandwidth:



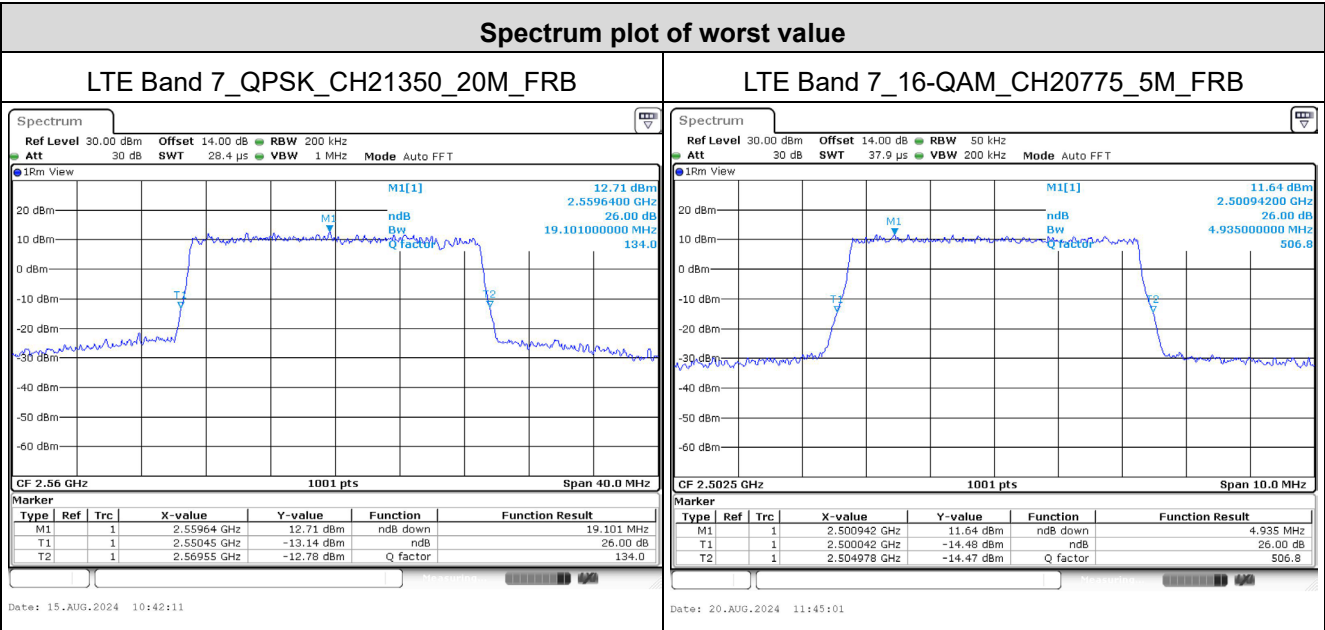
Mode 4: LTE Band 7

Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
				26dB BW	99% BW	
5	QPSK	20775	2502.5	4.90	4.47	N/A
		21100	2535.0	4.94	4.47	N/A
		21425	2567.5	4.92	4.48	N/A
	16-QAM	20775	2502.5	4.94	4.48	N/A
		21100	2535.0	4.86	4.47	N/A
		21425	2567.5	4.93	4.48	N/A
10	QPSK	20800	2505.0	9.73	8.93	N/A
		21100	2535.0	9.77	8.93	N/A
		21400	2565.0	9.71	8.93	N/A
15	QPSK	20825	2507.5	14.63	13.37	N/A
		21100	2535.0	14.72	13.40	N/A
		21375	2562.5	14.45	13.40	N/A
20	QPSK	20850	2510.0	18.86	17.82	N/A
		21100	2535.0	18.94	17.86	N/A
		21350	2560.0	19.10	17.86	N/A

For 99% Bandwidth:



For 26dB Bandwidth:



Mode 5: LTE Band 8

Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
				26dB BW	99% BW	
1.4	QPSK	21632	898.2	1.26	1.08	N/A
		21640	899.0	1.25	1.09	N/A
		21648	899.8	1.28	1.09	N/A
	16-QAM	21632	898.2	1.27	1.08	N/A
		21640	899.0	1.25	1.08	N/A
		21648	899.8	1.29	1.09	N/A
3	QPSK	21640	899.0	2.93	2.69	N/A
	16-QAM	21640	899.0	2.94	2.68	N/A