



FCC Radio Test Report

FCC ID: ZMOLE270LA

This report concerns: Original Grant

Project No. : 2407C095
Equipment : LTE Module
Brand Name : Fibocom
Test Model : LE270-LA
Series Model : N/A
Applicant : Fibocom Wireless Inc.
Address : 1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China
Manufacturer : Fibocom Wireless Inc.
Address : 1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China
Factory : Fibocom Wireless Inc.
Address : 1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China
Date of Receipt : Aug. 07, 2024
Date of Test : Aug. 09, 2024 ~ Aug. 29, 2024
Issued Date : Sep. 04, 2024
Report Version : R00
Test Sample : Engineering Sample No.: SSL2024080742.
Standard(s) : 47 CFR FCC Part 24 Subpart E
47 CFR FCC Part 2

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** assumes no responsibility for the data provided by the customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by **BTL**.

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BTL's laboratory quality assurance procedures are in compliance with the ISO/IEC 17025: 2017 requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2407C095	R00	Original Report.	Sep. 04, 2024	Valid

1. APPLICABLE STANDARDS

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

ANSI C63.26-2015

The following reference test guidance is not within the scope of accreditation of A2LA:

FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part 24 Subpart E & Part 2			
Standard(s) Section	Test Item	Judgment	Remark
2.1046 24.232(c)	Equivalent Isotropic Radiated Power	PASS	-----
2.1049	Occupied Bandwidth	PASS	-----
2.1051 24.238(a)	Conducted Spurious Emissions	PASS	-----
2.1053 24.238(a)	Radiated Spurious Emissions	PASS	-----
24.238(a)	Band Edge Measurements	PASS	-----
24.232(d)	Peak To Average Ratio	PASS	-----
2.1055 24.235	Frequency Stability	PASS	-----

Note:

(1) "N/A" denotes test is not applicable in this test report.

2.1 TEST FACILITY

For Radiated items:

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Dalang, Dongguan City, Guangdong People's Republic of China.

For other items:

The test facilities used to collect the test data in this report is at the location of Room 108, Building 2, No.1, Yile Road, Songshan Lake Zone, Dongguan City, Guangdong, People's Republic of China.

BTL's Registration Number for FCC: 747969

BTL's Designation Number for FCC: CN1377

2.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated 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 ($k=2$))

The BTL measurement uncertainty as below table:

A. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	U , (dB)
DG-CB01	CISPR	9kHz ~ 30MHz	2.36

Test Site	Method	Measurement Frequency Range	Ant. H / V	U , (dB)
DG-CB03 (3m)	CISPR	30MHz ~ 200MHz	V	4.40
		30MHz ~ 200MHz	H	3.62
		200MHz ~ 1,000MHz	V	4.58
		200MHz ~ 1,000MHz	H	3.98

Test Site	Method	Measurement Frequency Range	U , (dB)
DG-CB03 (3m)	CISPR	1GHz ~ 6GHz	4.08
		6GHz ~ 18GHz	4.62

Test Site	Method	Measurement Frequency Range	U , (dB)
DG-CB03 (1m)	CISPR	18 ~ 26.5 GHz	3.36

B. Other Measurement:

Parameter	Uncertainty
Spectrum Bandwidth	± 1.74 %
Maximum Output Power	± 0.87 dB
Frequency Stability	± 53.10 Hz
Temperature	± 0.47 °C
Time	± 1.37 %

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

2.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By	Test Date
Output Power & EIRP	25.3°C	49%	DC 3.8V	Mark Wu	Aug. 12, 2024~ Aug. 20, 2024
Occupied Bandwidth	25.3°C	49%	DC 3.8V	Mark Wu	Aug. 12, 2024~ Aug. 20, 2024
Conducted Spurious Emissions	25.3°C	49%	DC 3.8V	Mark Wu	Aug. 12, 2024~ Aug. 20, 2024
Radiated Spurious Emissions (9 kHz to 30 MHz)	26°C	41%	DC 3.8V	Hayden Chen	Aug. 28, 2024
Radiated Spurious Emissions (30 MHz to 1000 MHz)	24°C	55%	DC 3.8V	Jensen Zhou	Aug. 24, 2024
Radiated Spurious Emissions (Above 1000 MHz)	24°C	54%	DC 3.8V	Jensen Zhou	Aug. 27, 2024~ Aug. 28, 2024
Band Edge	25.3°C	49%	DC 3.8V	Mark Wu	Aug. 12, 2024~ Aug. 20, 2024
Peak to Average Ratio	25.3°C	49%	DC 3.8V	Mark Wu	Aug. 12, 2024~ Aug. 20, 2024
Frequency Stability	Normal & Extreme	49%	Normal & Extreme	Mark Wu	Aug. 12, 2024~ Aug. 20, 2024

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	LTE Module			
Brand Name	Fibocom			
Test Model	LE270-LA			
Series Model	N/A			
Model Difference(s)	N/A			
Hardware Version	V1.2			
Software Version	12007.6000.00.04.26.01			
Power Source	DC voltage supplied from external power supply.			
Power Rating	DC 3.4V - 4.5V, Typical: 3.8V			
IMEI No.	868317070000764			
Modulation Type	LTE		UL: QPSK, 16QAM DL: QPSK, 16QAM, 64QAM	
Max. EIRP	LTE	Channel Bandwidth (MHz)	QPSK (dBm)	16QAM (dBm)
	Band 2	1.4	26.77	26.12
		3	26.80	26.15
		5	27.28	26.70
		10	27.23	26.49
		15	27.01	26.65
		20	27.10	26.79

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. Channel List:

LTE Band 2(UL:1850-1910MHz, DL:1930-1990MHz)					
Test Frequency ID	Bandwidth (MHz)	N _{UL}	Frequency of Uplink (MHz)	N _{DL}	Frequency of Downlink (MHz)
Low Range	1.4	18607	1850.7	607	1930.7
	3	18615	1851.5	615	1931.5
	5	18625	1852.5	625	1932.5
	10	18650	1855	650	1935
	15	18675	1857.5	675	1937.5
	20	18700	1860	700	1940
Mid Range	1.4/3/5/10/15/20	18900	1880	900	1960
High Range	1.4	19193	1909.3	1193	1989.3
	3	19185	1908.5	1185	1988.5
	5	19175	1907.5	1175	1987.5
	10	19150	1905	1150	1985
	15	19125	1902.5	1125	1982.5
	20	19100	1900	1100	1980

3. Table for Filed Antenna:

Brand	P/N	Antenna Type	Connector	Gain (dBi)	Note
	GHT-019A	Dipole	SMA Male J	2.85	LTE Band 2

Note:

- (1) The antenna gain is provided by the manufacturer.
- (2) The antenna is not attached when sales.

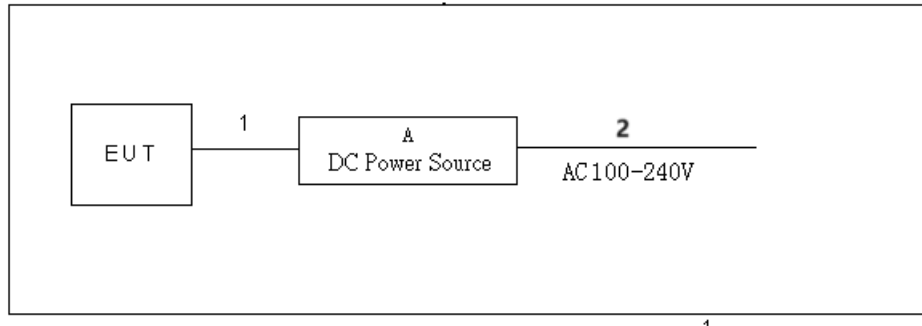
4. The UE capability is category 1, and the maximum RB Number is 27 when the modulation is 16QAM, so for the bandwidth of 10MHz, 15MHz and 20MHz only tested to 27 RB when the modulation is 16QAM.

3.2 DESCRIPTION OF TEST MODES

Following mode(s) is (were) found to be the worst case(s) and selected for the final test.

LTE BAND 2 MODE					
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Output Power & EIRP	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	1RB/3RB/6RB
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	1RB/8RB/15RB
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	1RB/12RB/25RB
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK	1RB/25RB/50RB
				16QAM	1RB/25RB/27RB
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK	1RB/36RB/75RB
				16QAM	1RB/27RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK	1RB/50RB/100RB
				16QAM	1RB/27RB
Occupied Bandwidth	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	6RB
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	15RB
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	25RB
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK	50RB
				16QAM	27RB
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK	75RB
				16QAM	27RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK	100RB
				16QAM	27RB
Conducted Spurious Emissions	18607 to 19193	18900	1.4 MHz	QPSK	1RB
	18625 to 19175	18900	5MHz	QPSK	1RB
	18700 to 19100	18900	20MHz	QPSK	1RB
Radiated Spurious Emissions	18607 to 19193	18900	1.4 MHz	QPSK	1RB
	18625 to 19175	18900	5MHz	QPSK	1RB
	18700 to 19100	18900	20MHz	QPSK	1RB
Band Edge	18607 to 19193	18607, 19193	1.4MHz	QPSK	1RB/6RB
	18615 to 19185	18615, 19185	3MHz	QPSK	1RB/15RB
	18625 to 19175	18625, 19175	5MHz	QPSK	1RB/25RB
	18650 to 19150	18650, 19150	10MHz	QPSK	1RB/50RB
				16QAM	1RB/27RB
	18675 to 19125	18675, 19125	15MHz	QPSK	1RB/75RB
				16QAM	1RB/27RB
	18700 to 19100	18700, 19100	20MHz	QPSK	1RB/100RB
				16QAM	1RB/27RB
Peak To Average Ratio	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	1RB
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	1RB
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	1RB
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	1RB
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	1RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	1RB
Frequency Stability	18700 to 19100	18700, 19100	20MHz	QPSK	100RB

3.3 BLOCKDIGRAMSHOWINGTHECONFIGURATIONOFSYSTEMTESTED



2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

For 9 kHz to 30 MHz:

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.
A	DC Power Source	N/A	ZN2PD2-14W-S+	SF654501927

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1.2m
2	AC Cable	NO	NO	1.2m

For other items:

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.
A	DC Power Source	UNI-T	UDP6721	AWP7224050031

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1.2m
2	AC Cable	NO	NO	1.2m

4. TEST RESULT

4.1 OUTPUT POWER MEASUREMENT

4.1.1 LIMIT

Mobile / Portable stations are limited to 2 watts e.i.r.p.

4.1.2 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 5 or ANSI C63.26-2015 Section 5.2.

EIRP:

$EIRP = \text{Output Power} + \text{Antenan gain}$

Output Power:

The EUT was set up for the maximum power with GSM, GPRS, EDGE, WCDMA and LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

4.1.3 TEST SETUP LAYOUT

Output Power Measurement



4.1.4 TEST DEVIATION

No deviation.

4.1.5 TEST RESULTS

Please refer to the APPENDIX A.

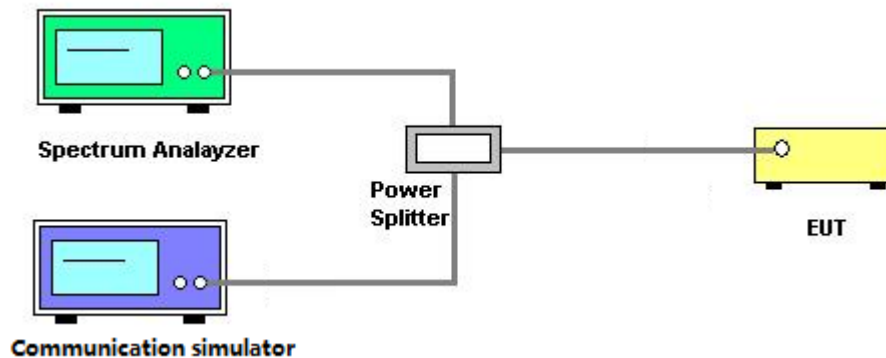
4.2 OCCUPIED BANDWIDTH MEASUREMENT

4.2.1 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 4 or ANSI C63.26-2015 Section 5.4.

1. The EUT makes a call to the communication simulator. All 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. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth and 26dB bandwidth.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. $RBW = (1\% \sim 5\%) * EBW$
 $VBW \geq 3 * RBW$
4. Set spectrum analyzer with Peak detector.

4.2.2 TEST SETUP LAYOUT



4.2.3 TEST DEVIATION

No deviation.

4.2.4 TEST RESULTS

Please refer to the APPENDIX B.

4.3 CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

4.3.1 LIMIT

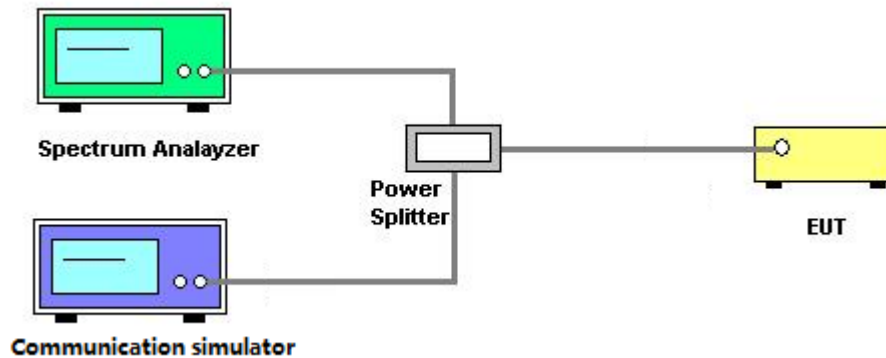
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm.

4.3.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6 or ANSI C63.26-2015 Section 5.7.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
3. Set spectrum analyzer with Peak or RMS detector.
4. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

4.3.3 TEST SETUP LAYOUT



4.3.4 TEST DEVIATION

No deviation.

4.3.5 TEST RESULTS

Please refer to the APPENDIX C.

4.4 RADIATED SPURIOUS EMISSIONS MEASUREMENT

4.4.1 LIMIT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm.

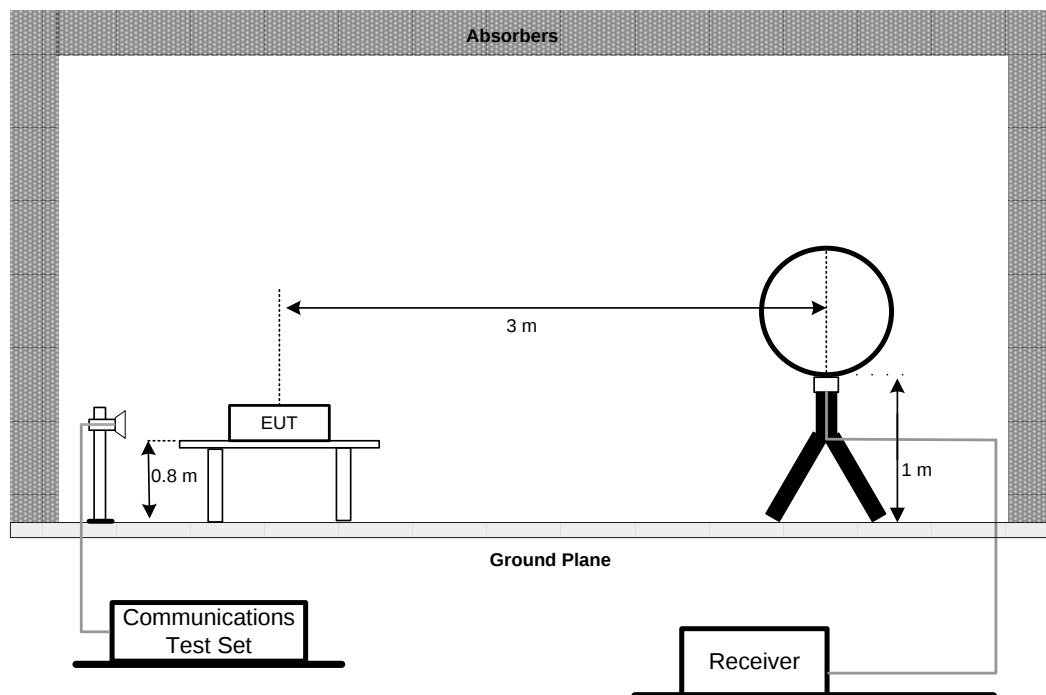
4.4.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6.2 or ANSI C63.26-2015 Section 5.5.

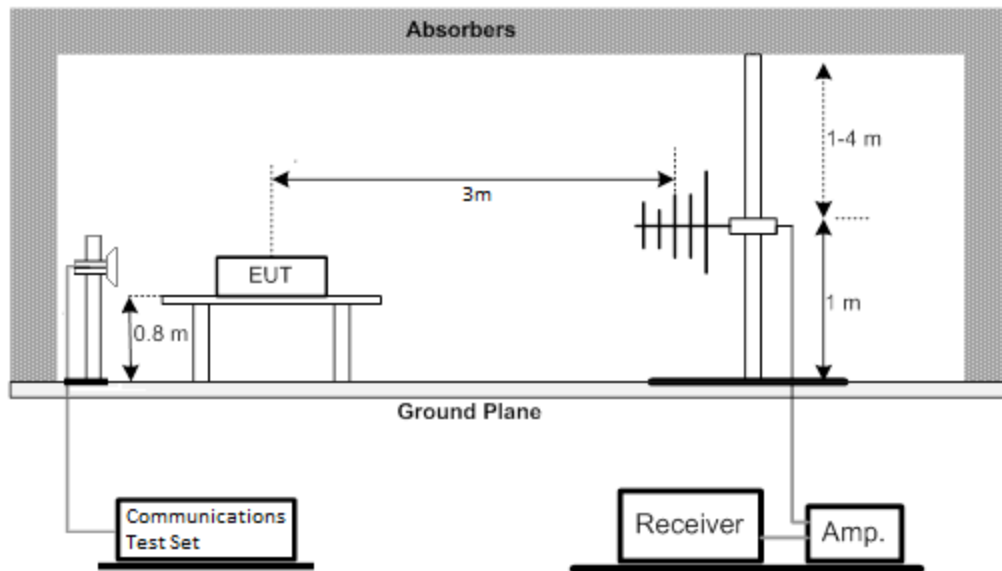
1. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
3. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
4. Start the test, rotate the table 360° to find the worst Angle, maintain the worst Angle, raise the antenna to 1-4m to find the worst height, maintain the worst height, then rotate the table to determine the final worst Angle, grab the spectrum diagram.
5. EUT shall be placed in accordance with X,Y,Z as required by Figure 5 in ANSI C63.26.
Repeat Step 5 above to find the worst placement. Test all bands according to the worst placement.
6. Then EIRP is then converted to field strength as follows in Equation
7. $E \text{ (dBuV/m)} = \text{EIRP (dBm)} - 20\log(D) + 104.8$; where D is the measurement distance (in the far field region) in m. The emission limit equal to 82.26dBuV/m.

4.4.3 TEST SETUP LAYOUT

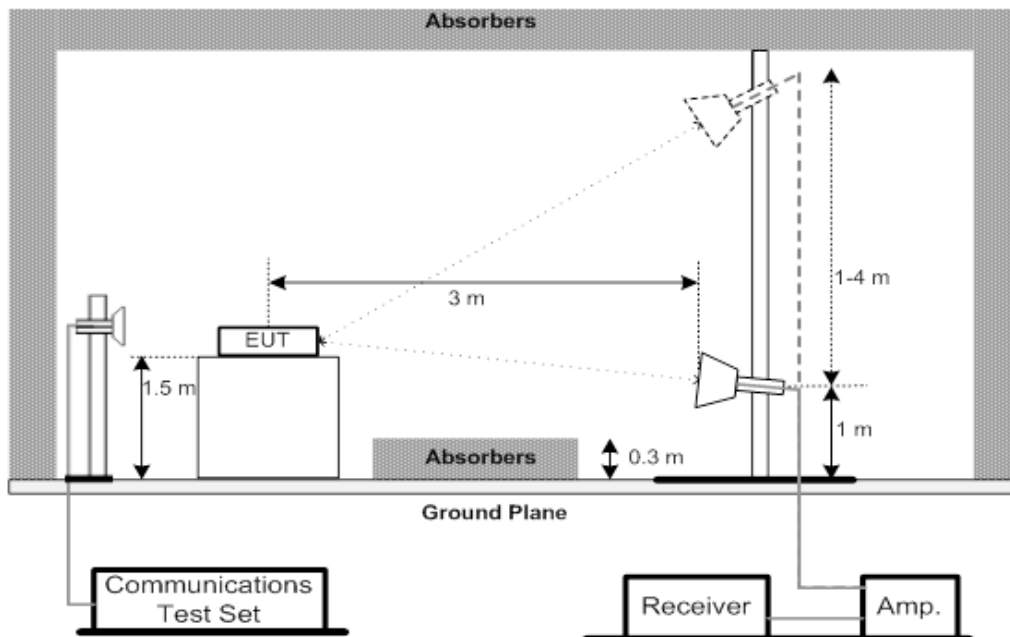
Below 30MHz

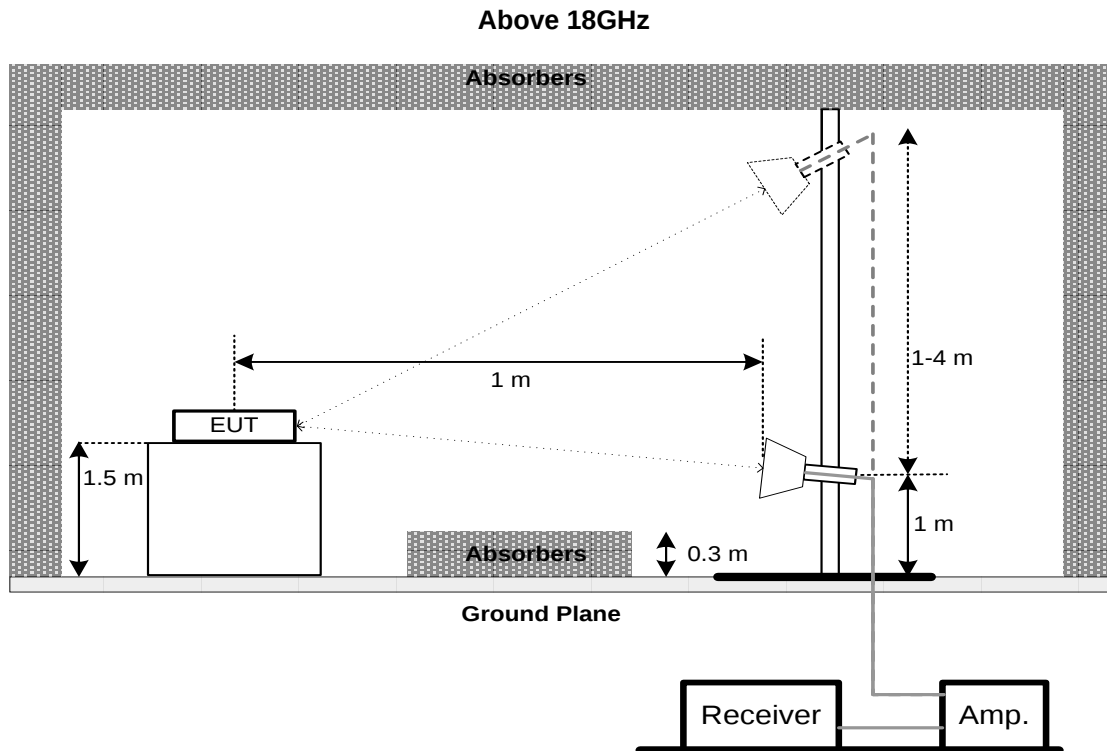


30MHz to 1000MHz



1GHz to 18GHz





4.4.4 TEST DEVIATION

No deviation.

4.4.5 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the APPENDIX D.

4.4.6 TEST RESULTS (30MHZ TO 1000MHZ)

Please refer to the APPENDIX E.

4.4.7 TEST RESULTS (ABOVE 1000MHZ)

Please refer to the APPENDIX F.

4.5 BAND EDGE MEASUREMENT

4.5.1 LIMIT

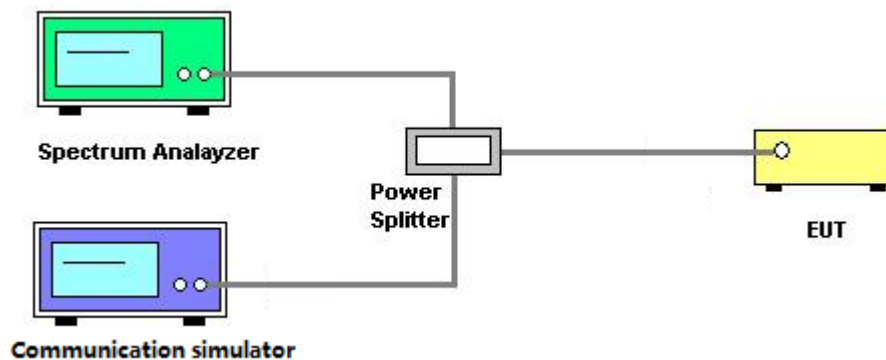
A Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

4.5.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6 or ANSI C63.26-2015 Section 5.7.

1. All measurements were done at low and high operational frequency range.
2. Record the max trace plot into the test report.

4.5.3 TEST SETUP LAYOUT



4.5.4 TEST DEVIATION

No deviation.

4.5.5 TEST RESULTS

Please refer to the APPENDIX G.

4.6 PEAK TO AVERAGE RATIO MEASUREMENT

4.6.1 LIMIT

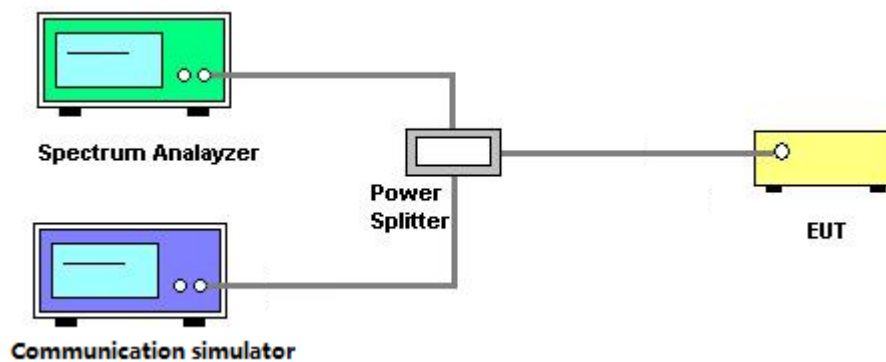
In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

4.6.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 5.7 or ANSI C63.26-2015 Section 5.2.6.

1. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

4.6.3 TEST SETUP LAYOUT



4.6.4 TEST DEVIATION

No deviation.

4.6.5 TEST RESULTS

Please refer to the APPENDIX H.

4.7 FREQUENCY STABILITY MEASUREMENT

4.7.1 LIMIT

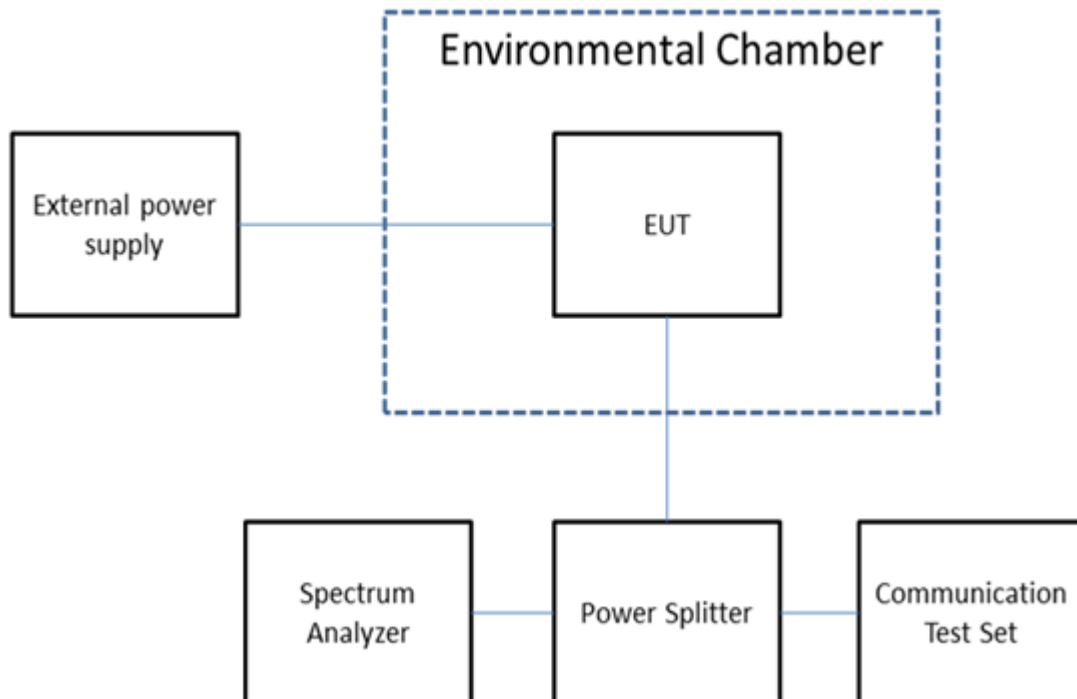
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

4.7.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 9 or ANSI C63.26-2015 Section 5.6.

1. A reference point shall be established at the applicable unwanted emissions limit using a RBW equal to the RBW required by the unwantedemissions specification of the applicable regulatory standard. These reference points measuredusing the lowest and highest channel of operation shall be identified as f L and f H respectively. The worst-case frequency offset determined in the above methods shall be added or subtracted from the values of f L and f H and the resulting frequencies must remain within the band.
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

4.7.3 TEST SETUP LAYOUT



4.7.4 TEST DEVIATION

No deviation.

4.7.5 TEST RESULTS

Please refer to the APPENDIX I.

4. LIST OF MEASUREMENT EQUIPMENTS

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Active Loop Antenna	Schwarzbeck	FMZB 1513-60B	1513-60 B-034	Mar. 30, 2025
2	MXE EMI Receiver	Keysight	N9038A	MY56400091	Dec. 22, 2024
3	Cable	N/A	RW2350-3.8A-NM BM-1.5M	N/A	Jun. 09, 2025
4	Cable	N/A	RG 213/U	N/A	Jun. 09, 2025
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	966 Chamber room	ETS	9*6*6	N/A	May 16, 2025
7	wideband radio communication tester	R&S	CMW500	152372	Dec. 22, 2024
8	DC power supply	N/A	ZN2PD2-14W-S+	SF654501927	Jan. 19, 2025

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	1462	Dec. 13, 2024
2	Attenuator	EMC INSTRUMENT	EMCI-N-6-06	AT-06009	Dec. 13, 2024
3	Preamplifier	EMC INSTRUMENT	EMC001330	980998	Nov. 17, 2024
4	Cable	RegalWay	LMR400-NMNM -12.5m	N/A	Jun. 06, 2025
5	Cable	RegalWay	LMR400-NMNM -3m	N/A	Jun. 06, 2025
6	Cable	RegalWay	LMR400-NMNM -0.5m	N/A	Jun. 06, 2025
7	Receiver	Agilent	N9038A	MY52130039	Dec. 22, 2024
8	Positioning Controller	MF	MF-7802	N/A	N/A
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
10	966 Chamber room	CM	9*6*6	N/A	May 16, 2025
11	wideband radio communication tester	R&S	CMW500	152372	Dec. 22, 2024
12	DC power supply	UNI-T	UDP6721	AWP7224050031	Mar. 20, 2025

Radiated Emissions - 1 GHz to 18 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Receiver	Agilent	N9038A	MY52130039	Dec. 22, 2024
2	Preamplifier	EMC INSTRUMENT	EMC118A45SE	980888	Nov. 17, 2024
3	Double Ridged Guide Antenna	ETS	3115	75789	Jun. 15, 2025
4	Cable	RegalWay	RWLP50-4.0A-SMS M-12.5M	N/A	Jul. 03, 2025
5	Cable	RegalWay	RWLP50-4.0A-NM RASM-2.5M	N/A	Jul. 03, 2025
6	Cable	RegalWay	RWLP50-4.0A-NM RASMRA-0.8M	N/A	Jul. 03, 2025
7	966 Chamber room	CM	9*6*6	N/A	May 19, 2025
8	Filter	Wairwright Instruments GmbH	WHK 1.5/15G-10ST	N/A	Dec. 22, 2024
9	Filter	COM-MW	ZHPF-M1-13G-W1 02	N/A	May 31, 2025
10	Filter	STI	STI15-9912	N/A	May 31, 2025
11	Positioning Controller	MF	MF-7802	N/A	N/A
12	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
13	wideband radio communication tester	R&S	CMW500	152372	Dec. 22, 2024
14	DC power supply	UNI-T	UDP6721	AWP7224050031	Mar. 20, 2025

Radiated Emissions - Above 18 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Receiver	Agilent	N9038A	MY52130039	Dec. 22, 2024
2	Low Noise Amplifier	CONNPHY	CLN-18G40G-4330 -K	619413	Jul. 17, 2025
3	Cable	RegalWay	RWLP50-2.6A-2.92 M2.92M-1.1M	N/A	Jul. 25, 2025
4	Cable	Tonscend	HF160-KMKM-3M	N/A	Jul. 25, 2025
5	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170(3m)	9170-319	Jun. 16, 2025
6	966 Chamber room	CM	9*6*6	N/A	May 19, 2025
7	Positioning Controller	MF	MF-7802	N/A	N/A
8	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
9	wideband radio communication tester	R&S	CMW500	152372	Dec. 22, 2024
10	DC power supply	UNI-T	UDP6721	AWP7224050031	Mar. 20, 2025

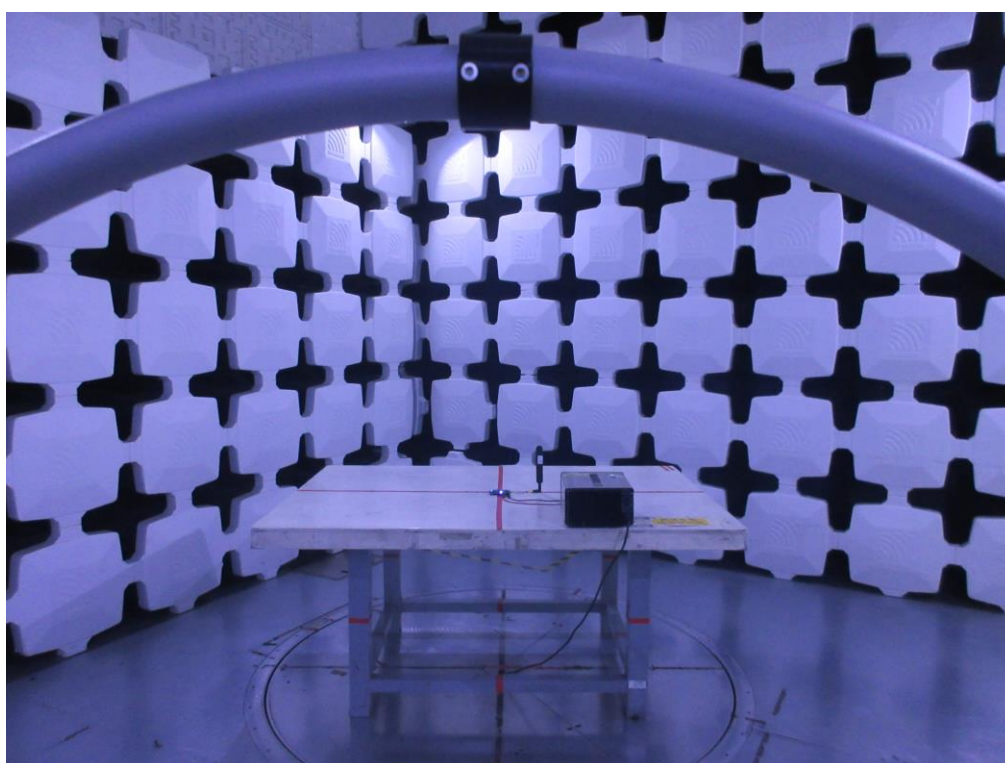
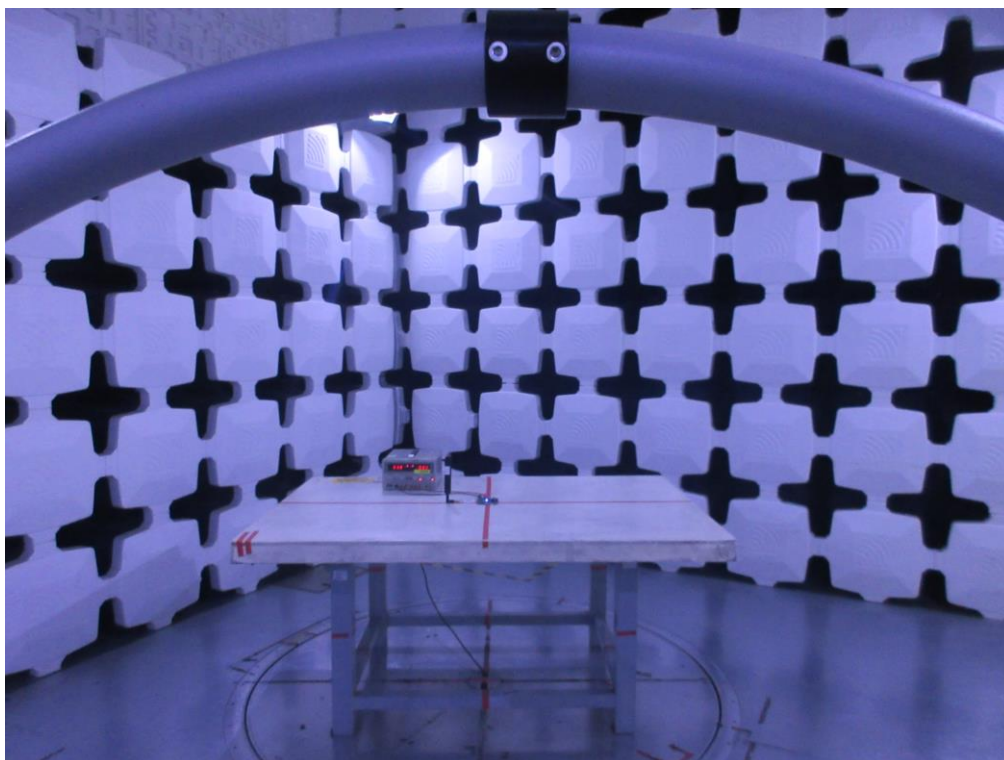
Conducted Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	MXA Signal Analyzer	Agilent Technologies	N9020A	MY49100060	Jun. 28, 2025
2	Wideband Radio Communication Tester	R&S	CWM 500	131463	Jan. 19, 2025
3	DC Source meter	Iteck	IT6154	006104126768201001	Jun. 28, 2025
4	Temperature Chamber	ESPEC	SU-242	93018786	Jun. 28, 2025

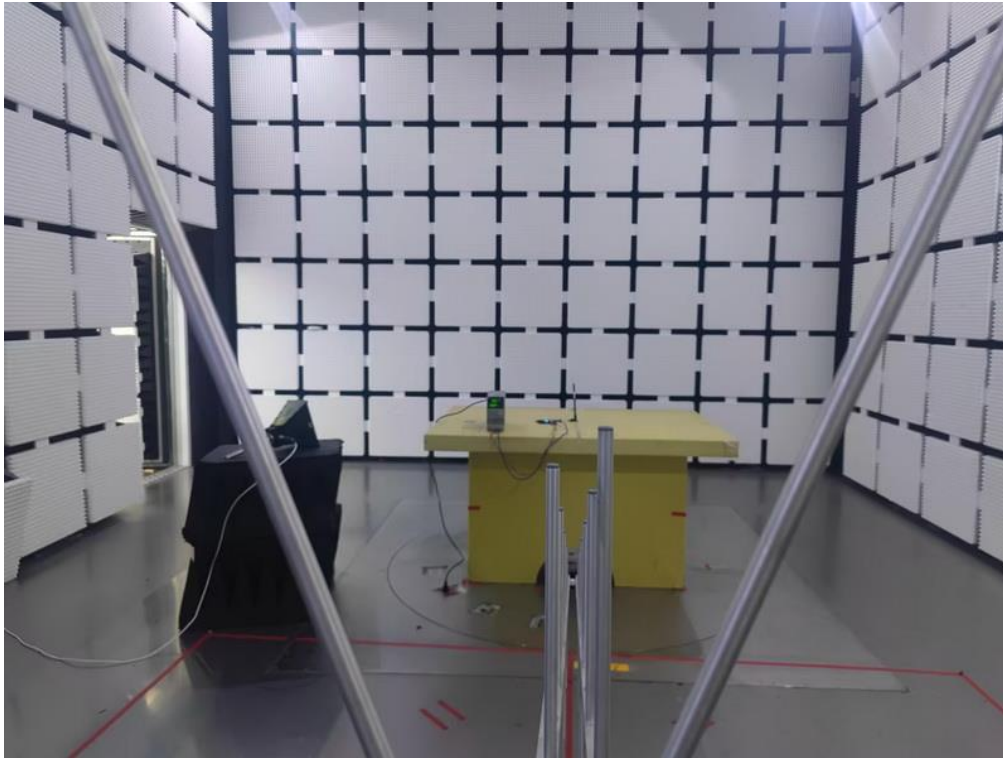
Remark: "N/A" denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

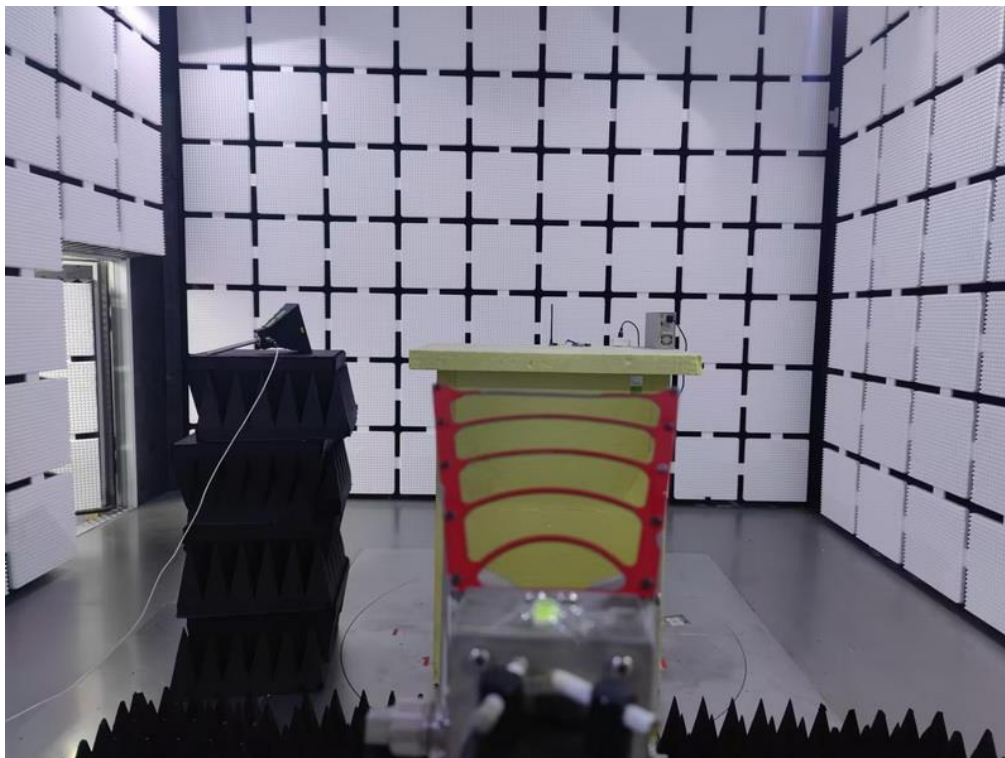
5. EUT TEST PHOTO

Radiated Emissions Test Photos

9 kHz to 30 MHz

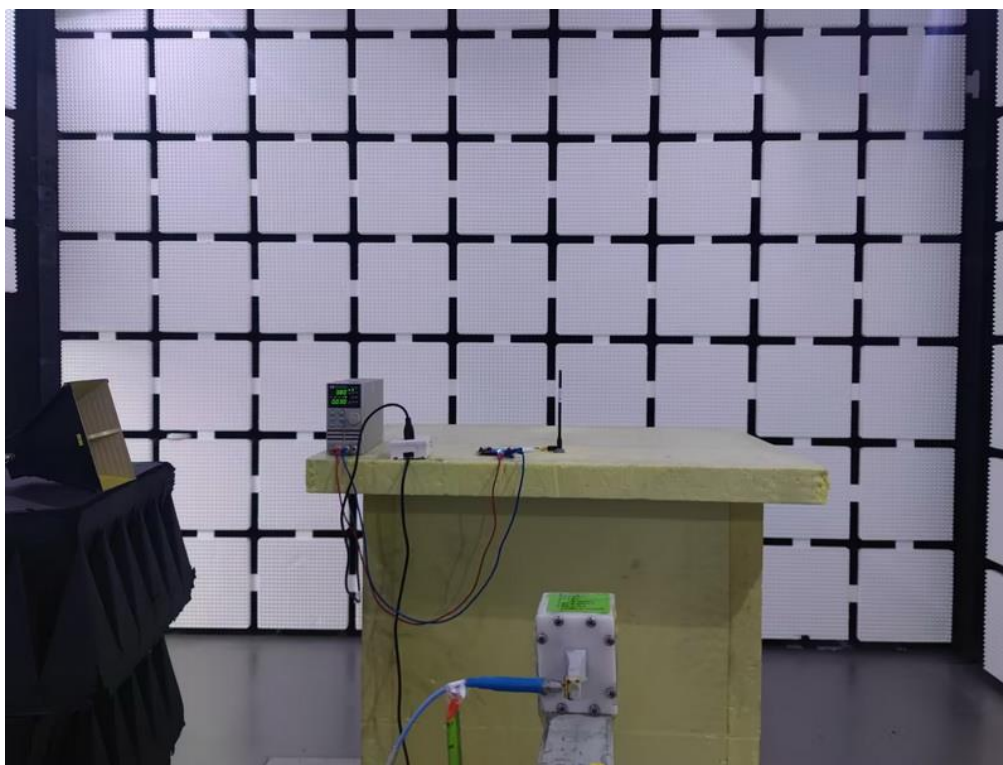


Radiated Emissions Test Photos**30 MHz to 1 GHz**

Radiated Emissions Test Photos**1 GHz to 18 GHz**

Radiated Emissions Test Photos

Above 18 GHz



APPENDIX A - OUTPUT POWER

Output Power (dBm)

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18607CH	18900CH	19193CH
				1850.7MHz	1880MHz	1909.3MHz
2 / 1.4MHz	QPSK	1	0	23.79	23.74	23.76
		1	2	23.92	23.71	23.80
		1	5	23.90	23.78	23.67
		3	0	23.82	23.76	23.64
		3	1	23.85	23.79	23.62
		3	2	23.87	23.82	23.62
		6	0	23.09	23.11	23.02
	16QAM	1	0	23.14	23.20	23.22
		1	2	23.19	23.21	23.18
		1	5	23.24	23.27	23.21
		3	0	23.02	23.14	23.21
		3	1	23.04	23.13	23.20
		3	2	23.04	23.10	23.14
		6	0	22.19	22.23	22.47

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18615CH	18900CH	19185CH
				1851.5MHz	1880MHz	1908.5MHz
2 / 3MHz	QPSK	1	0	23.69	23.61	23.76
		1	7	23.95	23.81	23.89
		1	14	23.81	23.70	23.63
		8	0	23.11	23.01	23.11
		8	4	23.21	23.05	23.14
		8	7	23.22	23.06	23.12
		15	0	23.17	23.01	23.09
	16QAM	1	0	22.91	23.10	23.15
		1	7	23.21	23.24	23.30
		1	14	23.30	23.10	23.15
		8	0	22.25	22.13	22.42
		8	4	22.33	22.18	22.48
		8	7	22.35	22.28	22.45
		15	0	22.09	22.17	22.36

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18625CH	18900CH	19175CH
				1852.5MHz	1880MHz	1907.5MHz
2 / 5MHz	QPSK	1	0	24.06	23.92	24.06
		1	13	24.05	23.92	23.91
		1	24	24.43	24.15	23.96
		12	0	23.32	23.19	23.14
		12	6	23.36	23.18	23.17
		12	11	23.43	23.26	23.21
		25	0	23.38	23.27	23.22
	16QAM	1	0	23.52	23.54	23.46
		1	13	23.65	23.44	23.33
		1	24	23.85	23.75	23.50
		12	0	22.27	22.44	22.56
		12	6	22.28	22.43	22.54
		12	11	22.40	22.51	22.56
		25	0	22.37	22.43	22.54

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18650CH	18900CH	19150CH
				1855MHz	1880MHz	1905MHz
2 / 10MHz	QPSK	1	0	24.05	23.86	24.22
		1	25	24.26	23.82	23.93
		1	49	24.38	24.20	24.02
		25	0	23.29	23.14	23.30
		25	13	23.44	23.20	23.17
		25	25	23.44	23.35	23.24
		50	0	23.46	23.12	23.29
	16QAM	1	0	23.24	23.18	23.61
		1	25	23.48	23.24	23.37
		1	49	23.64	23.58	23.49
		25	0	22.38	22.22	22.53
		25	13	22.43	22.29	22.43
		25	25	22.49	22.44	22.46
		27	0	22.32	22.34	22.46

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18675CH	18900CH	19125CH
				1857.5MHz	1880MHz	1902.5MHz
2 / 15MHz	QPSK	1	0	23.55	23.52	24.08
		1	38	24.06	23.93	24.07
		1	74	23.75	24.05	23.80
		36	0	23.86	23.95	24.16
		36	18	23.84	23.93	24.14
		36	39	23.98	23.89	24.14
		75	0	23.96	23.87	24.16
	16QAM	1	0	22.96	23.00	23.72
		1	38	23.52	23.39	23.80
		1	74	23.20	23.41	23.46
		27	0	22.33	22.21	22.18

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18700CH	18900CH	19100CH
				1860MHz	1880MHz	1900MHz
2 / 20MHz	QPSK	1	0	23.58	23.59	23.92
		1	50	24.11	23.84	24.25
		1	99	23.69	23.98	23.74
		50	0	23.72	23.92	24.04
		50	25	23.75	23.90	24.02
		50	50	23.30	23.47	24.00
		100	0	23.80	23.92	24.09
	16QAM	1	0	22.96	22.96	23.61
		1	50	23.51	23.22	23.94
		1	99	23.09	23.41	23.44
		27	0	22.12	22.07	22.01

EIRP (dBm)

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18607CH	18900CH	19193CH
				1850.7MHz	1880MHz	1909.3MHz
2 / 1.4MHz	QPSK	1	0	26.64	26.59	26.61
		1	2	26.77	26.56	26.65
		1	5	26.75	26.63	26.52
		3	0	26.67	26.61	26.49
		3	1	26.70	26.64	26.47
		3	2	26.72	26.67	26.47
		6	0	25.94	25.96	25.87
	16QAM	1	0	25.99	26.05	26.07
		1	2	26.04	26.06	26.03
		1	5	26.09	26.12	26.06
		3	0	25.87	25.99	26.06
		3	1	25.89	25.98	26.05
		3	2	25.89	25.95	25.99
		6	0	25.04	25.08	25.32

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18615CH	18900CH	19185CH
				1851.5MHz	1880MHz	1908.5MHz
2 / 3MHz	QPSK	1	0	26.54	26.46	26.61
		1	7	26.80	26.66	26.74
		1	14	26.66	26.55	26.48
		8	0	25.96	25.86	25.96
		8	4	26.06	25.90	25.99
		8	7	26.07	25.91	25.97
		15	0	26.02	25.86	25.94
	16QAM	1	0	25.76	25.95	26.00
		1	7	26.06	26.09	26.15
		1	14	26.15	25.95	26.00
		8	0	25.10	24.98	25.27
		8	4	25.18	25.03	25.33
		8	7	25.20	25.13	25.30
		15	0	24.94	25.02	25.21

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18625CH	18900CH	19175CH
				1852.5MHz	1880MHz	1907.5MHz
2 / 5MHz	QPSK	1	0	26.91	26.77	26.91
		1	13	26.90	26.77	26.76
		1	24	27.28	27.00	26.81
		12	0	26.17	26.04	25.99
		12	6	26.21	26.03	26.02
		12	11	26.28	26.11	26.06
		25	0	26.23	26.12	26.07
	16QAM	1	0	26.37	26.39	26.31
		1	13	26.50	26.29	26.18
		1	24	26.70	26.60	26.35
		12	0	25.12	25.29	25.41
		12	6	25.13	25.28	25.39
		12	11	25.25	25.36	25.41
		25	0	25.22	25.28	25.39

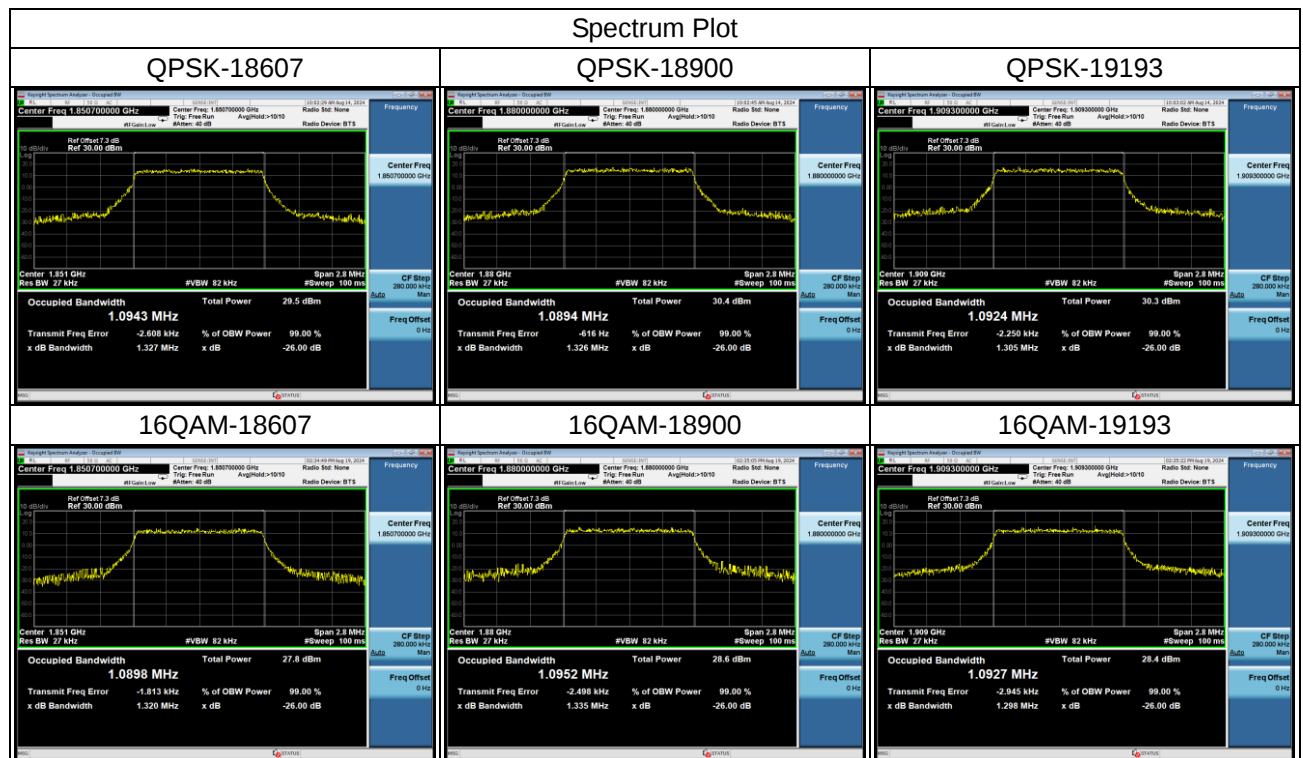
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18650CH	18900CH	19150CH
				1855MHz	1880MHz	1905MHz
2 / 10MHz	QPSK	1	0	26.90	26.71	27.07
		1	25	27.11	26.67	26.78
		1	49	27.23	27.05	26.87
		25	0	26.14	25.99	26.15
		25	13	26.29	26.05	26.02
		25	25	26.29	26.20	26.09
		50	0	26.31	25.97	26.14
	16QAM	1	0	26.09	26.03	26.46
		1	25	26.33	26.09	26.22
		1	49	26.49	26.43	26.34
		25	0	25.23	25.07	25.38
		25	13	25.28	25.14	25.28
		25	25	25.34	25.29	25.31
		27	0	25.17	25.19	25.31

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18675CH	18900CH	19125CH
				1857.5MHz	1880MHz	1902.5MHz
2 / 15MHz	QPSK	1	0	26.40	26.37	26.93
		1	38	26.91	26.78	26.92
		1	74	26.60	26.90	26.65
		36	0	26.71	26.80	27.01
		36	18	26.69	26.78	26.99
		36	39	26.83	26.74	26.99
		75	0	26.81	26.72	27.01
	16QAM	1	0	25.81	25.85	26.57
		1	38	26.37	26.24	26.65
		1	74	26.05	26.26	26.31
		27	0	25.18	25.06	25.03

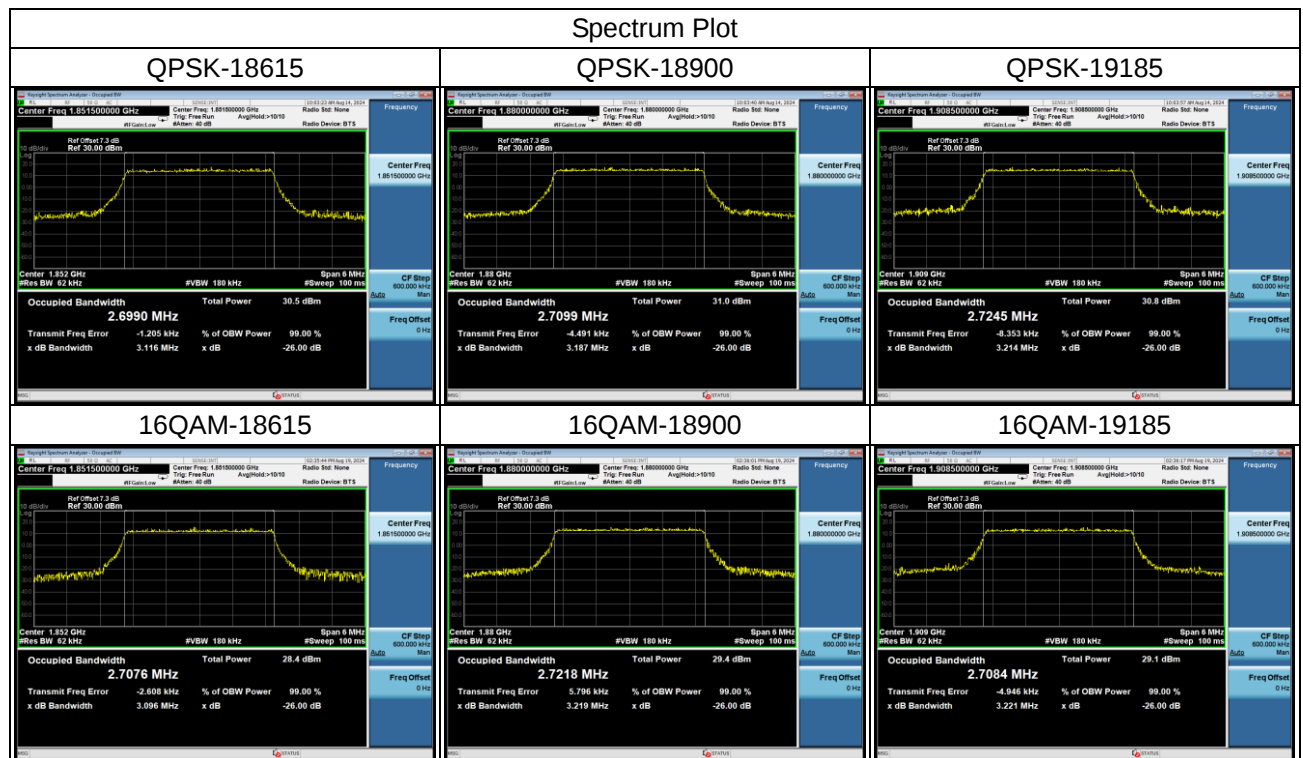
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18700CH	18900CH	19100CH
				1860MHz	1880MHz	1900MHz
2 / 20MHz	QPSK	1	0	26.43	26.44	26.77
		1	50	26.96	26.69	27.10
		1	99	26.54	26.83	26.59
		50	0	26.57	26.77	26.89
		50	25	26.60	26.75	26.87
		50	50	26.15	26.32	26.85
		100	0	26.65	26.77	26.94
	16QAM	1	0	25.81	25.81	26.46
		1	50	26.36	26.07	26.79
		1	99	25.94	26.26	26.29
		27	0	24.97	24.92	24.86

APPENDIX B - OCCUPIED BANDWIDTH

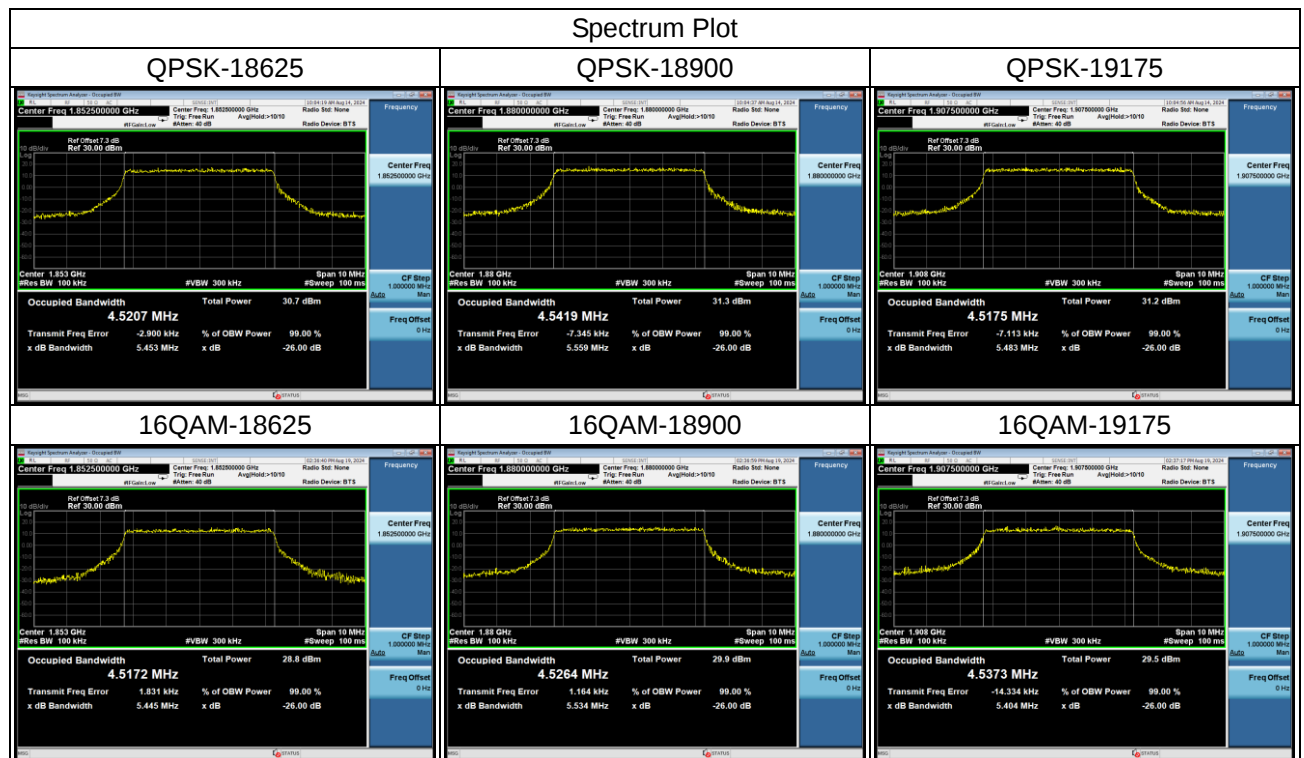
LTE Band 2_1.4MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
18607	1850.7	1.0943	1.0898	1.327	1.320
18900	1880	1.0894	1.0952	1.326	1.335
19193	1909.3	1.0924	1.0927	1.305	1.298



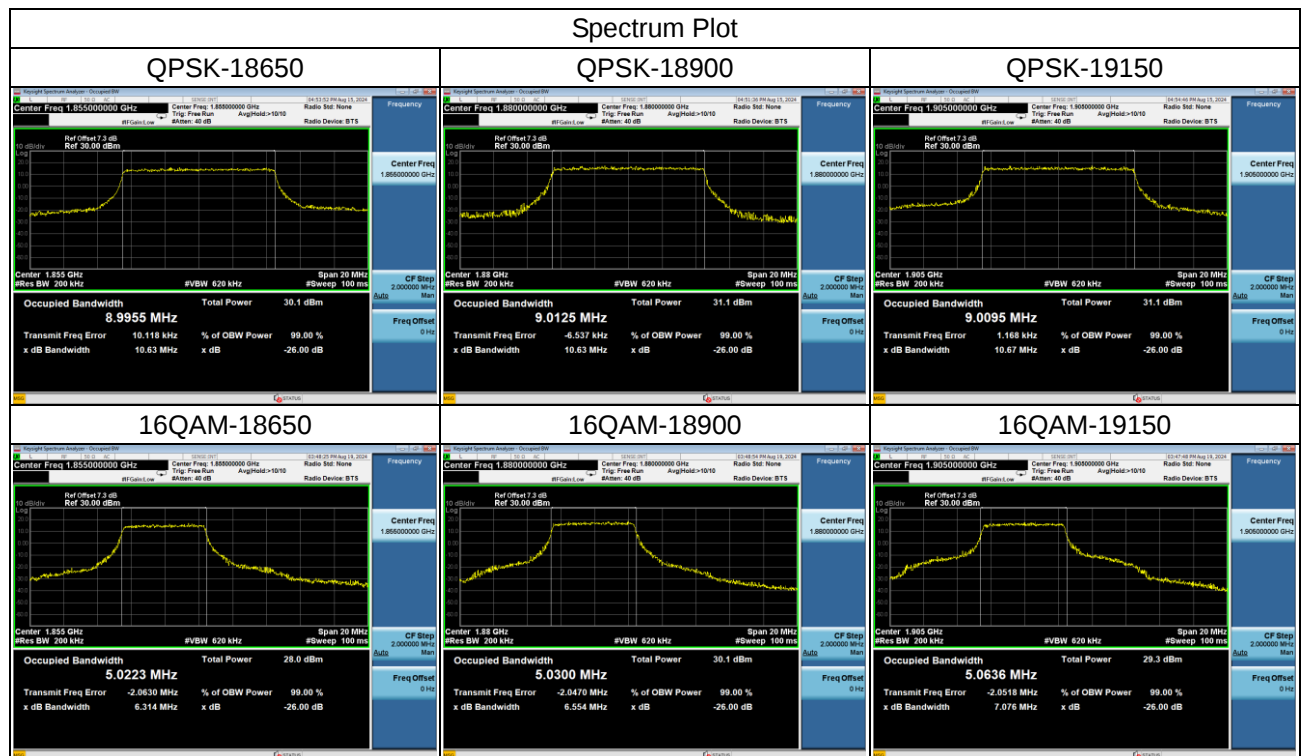
LTE Band 2_3MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
18615	1851.5	2.6990	2.7076	3.116	3.096
18900	1880	2.7099	2.7218	3.187	3.219
19185	1908.5	2.7245	2.7084	3.214	3.221



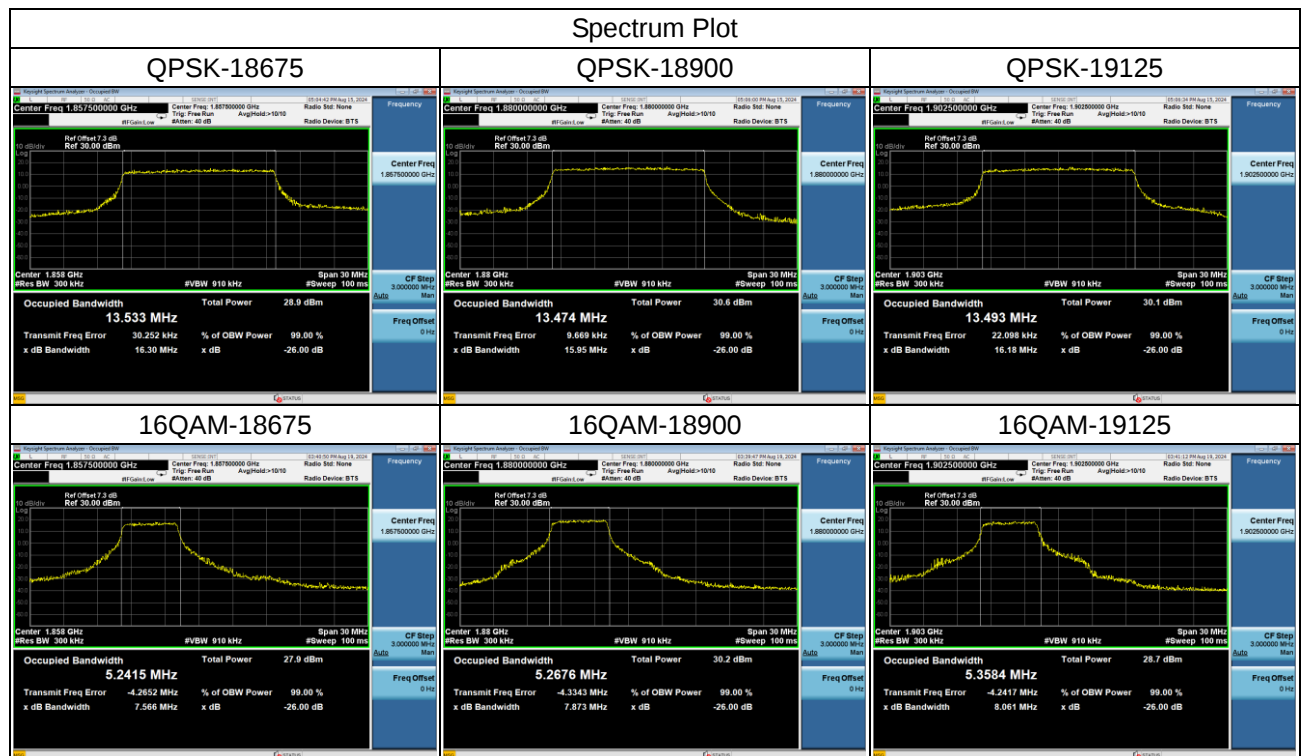
LTE Band 2_5MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
18625	1852.5	4.5207	4.5172	5.453	5.445
18900	1880	4.5419	4.5264	5.559	5.534
19175	1907.5	4.5175	4.5373	5.483	5.404



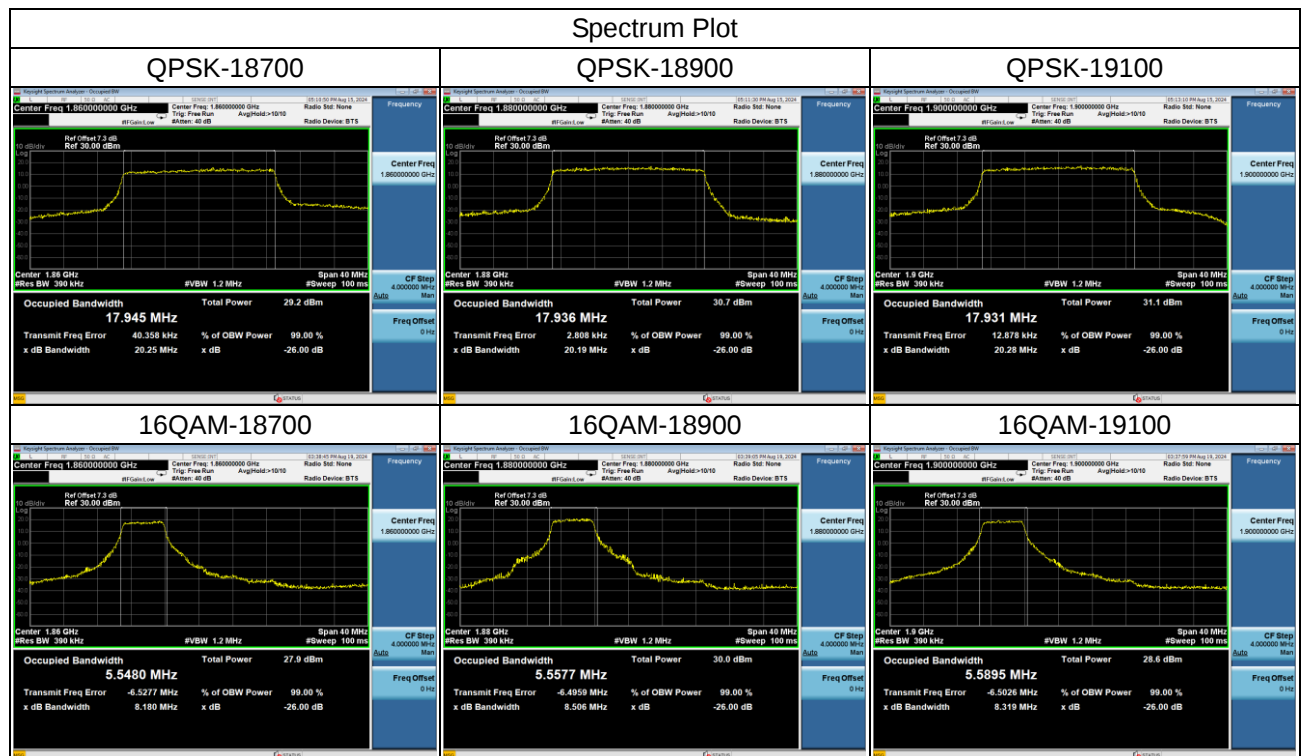
LTE Band 2_10MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
18650	1855	8.9955	5.0223	10.63	6.314
18900	1880	9.0125	5.0300	10.63	6.554
19150	1905	9.0095	5.0636	10.67	7.076



LTE Band 2_15MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
18675	1857.5	13.533	5.2415	16.30	7.566
18900	1880	13.474	5.2676	15.95	7.873
19125	1902.5	13.493	5.3584	16.18	8.061

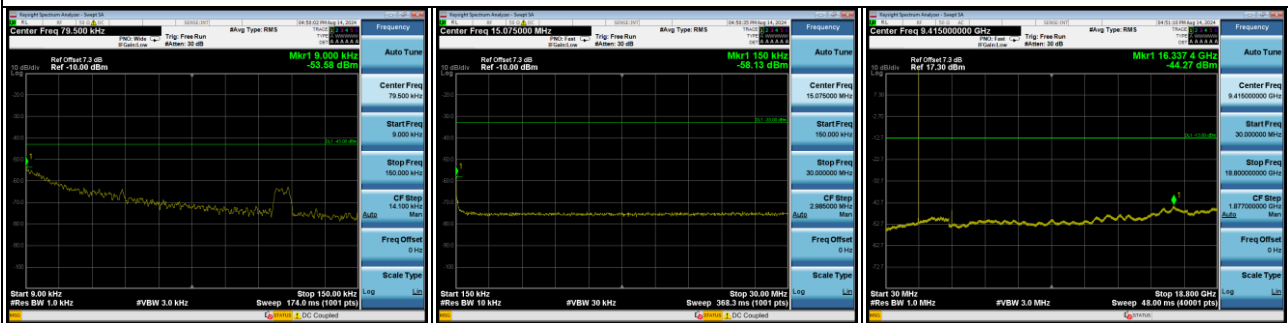


LTE Band 2_20MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
18700	1860	17.945	5.5480	20.25	8.180
18900	1880	17.936	5.5577	20.19	8.506
19100	1900	17.931	5.5895	20.28	8.319

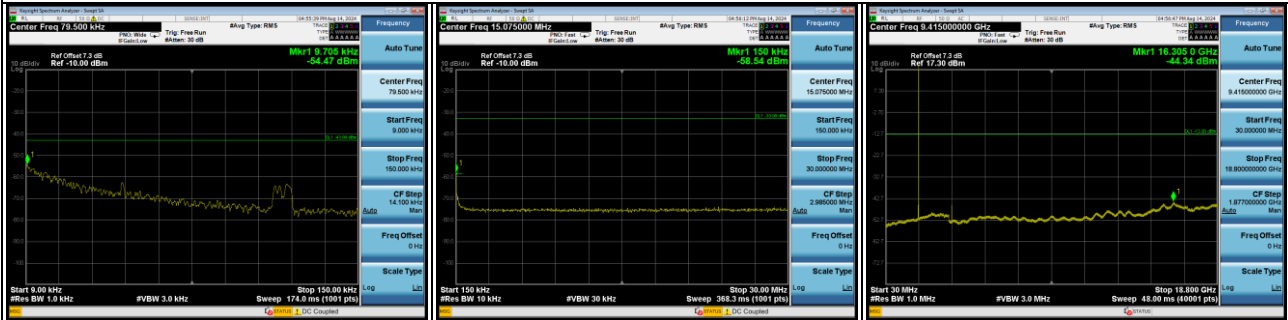


APPENDIX C - CONDUCTED SPURIOUS EMISSIONS

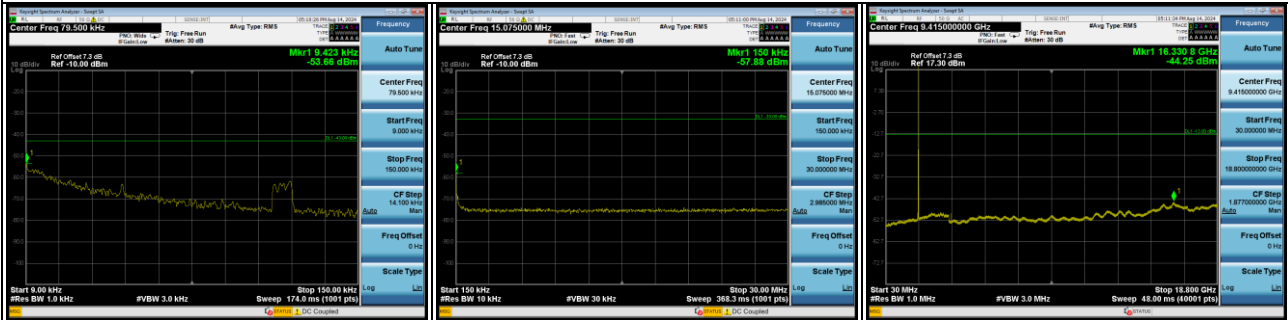
LTE Band 2_1.4MHz_CH18900 Spectrum Plot



LTE Band 2_5MHz_CH18900 Spectrum Plot



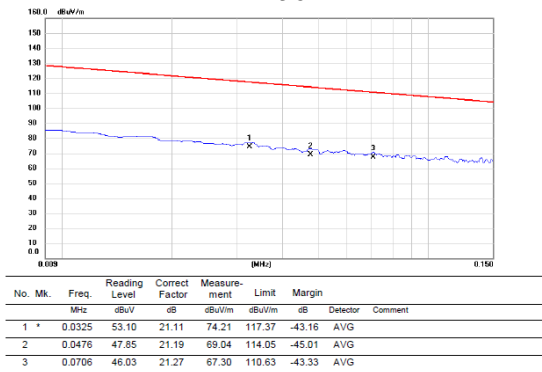
LTE Band 2_20MHz_CH18900 Spectrum Plot



APPENDIX D - RADIATED SPURIOUS EMISSIONS (9KHZ TO 30MHZ)

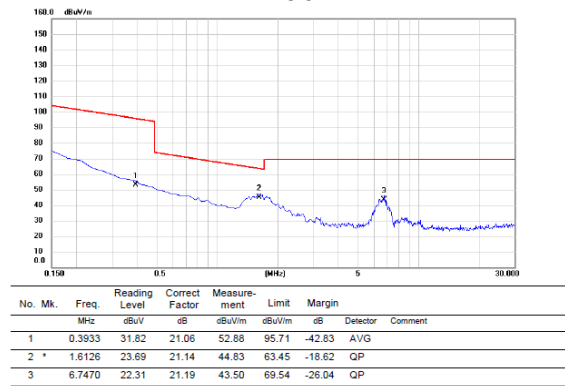
Test Mode : TX Mode

Ant 0°



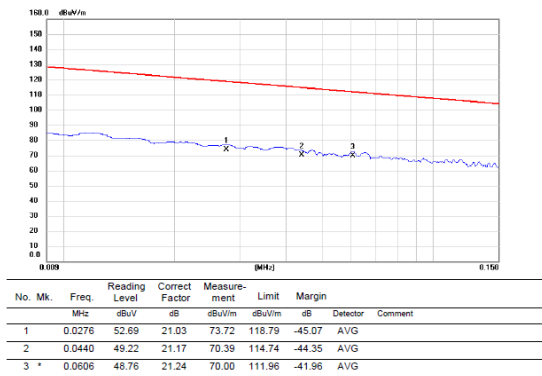
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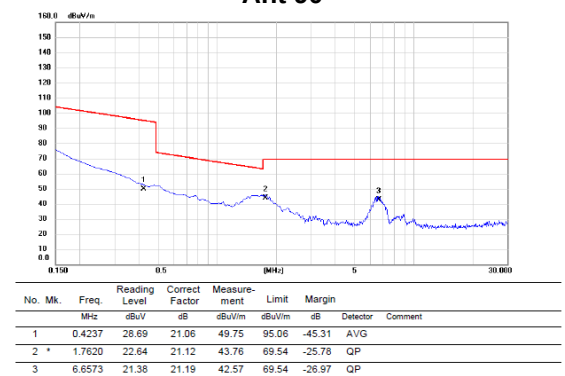
Test Mode : TX Mode

Ant 90°



Test Mode : TX Mode

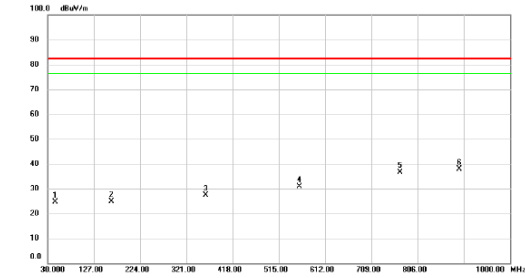
Ant 90°



APPENDIX E - RADIATED SPURIOUS EMISSIONS (30MHZ TO 1000MHZ)

Test Mode : LTE Band 2_TX CH18900_1.4MHz

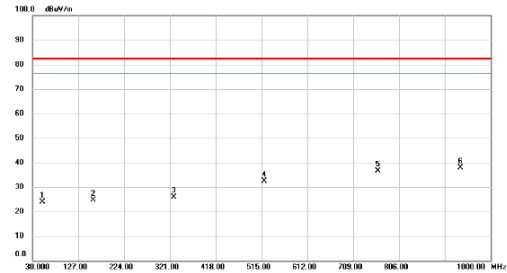
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		45.5200	35.90	-11.34	24.56	82.30	-57.74	peak	
2		163.3750	35.86	-10.88	24.88	82.30	-57.42	peak	
3		362.2250	36.74	-9.29	27.45	82.30	-54.85	peak	
4		558.1650	35.65	-4.77	30.88	82.30	-51.42	peak	
5		768.6550	37.67	-1.13	36.54	82.30	-45.76	peak	
6	*	893.3000	37.66	0.21	37.87	82.30	-44.43	peak	

Test Mode : LTE Band 2_TX CH18900_1.4MHz

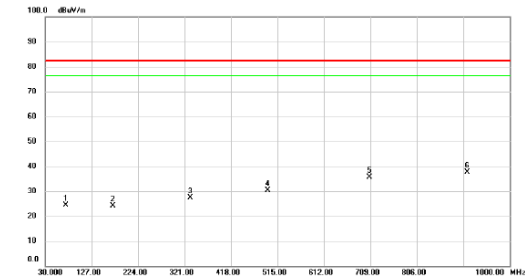
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		51.8250	35.24	-11.31	23.93	82.30	-58.37	peak	
2		159.0100	35.47	-10.87	24.60	82.30	-57.70	peak	
3		329.2450	35.59	-9.68	25.91	82.30	-56.39	peak	
4		520.8200	37.90	-5.60	32.30	82.30	-50.00	peak	
5		761.3800	37.74	-1.10	36.64	82.30	-45.66	peak	
6	*	893.4950	37.50	0.47	37.97	82.30	-44.33	peak	

Test Mode : LTE Band 2_TX CH18900_5MHz

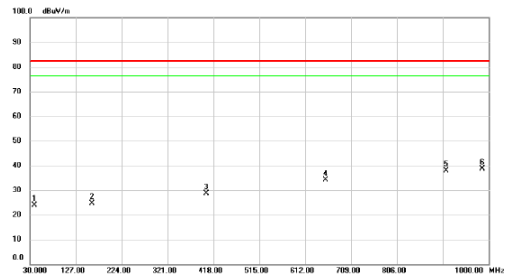
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		73.1650	38.45	-14.05	24.40	82.30	-57.90	peak	
2		171.6200	35.52	-11.42	24.10	82.30	-58.20	peak	
3		332.6400	37.09	-9.63	27.46	82.30	-54.84	peak	
4		495.1150	36.55	-6.10	30.45	82.30	-51.85	peak	
5		706.5750	37.65	-2.14	35.51	82.30	-46.79	peak	
6	*	911.7300	37.28	0.36	37.64	82.30	-44.66	peak	

Test Mode : LTE Band 2_TX CH18900_5MHz

Horizontal

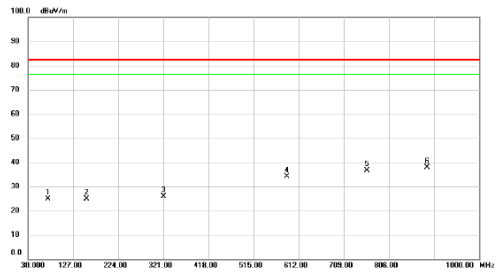


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		39.7000	35.57	-11.78	23.79	82.30	-58.51	peak	
2		160.9500	35.47	-10.88	24.59	82.30	-57.71	peak	
3		402.4800	36.63	-7.98	28.65	82.30	-53.65	peak	
4		655.6500	36.63	-2.77	34.06	82.30	-48.24	peak	
5		909.7900	37.60	0.34	37.94	82.30	-44.36	peak	
6	*	985.9350	37.74	0.86	38.60	82.30	-43.70	peak	

Test Mode : LTE Band 2_TX CH18900_20MHz

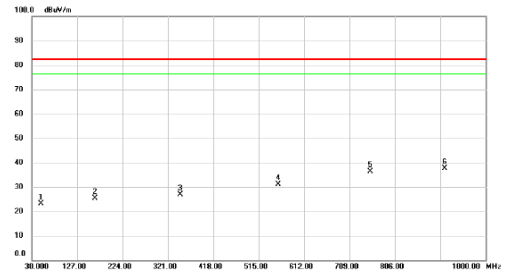
Test Mode : LTE Band 2_TX CH18900_20MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		72.6800	38.92	-13.96	24.96	82.30	-57.34	peak	
2		155.6150	35.97	-10.98	24.99	82.30	-57.31	peak	
3		321.0000	35.73	-9.95	25.78	82.30	-56.52	peak	
4		586.7800	37.99	-3.96	34.03	82.30	-48.27	peak	
5		758.4700	37.62	-1.09	36.53	82.30	-45.77	peak	
6	*	888.4500	37.71	0.14	37.85	82.30	-44.45	peak	

Horizontal

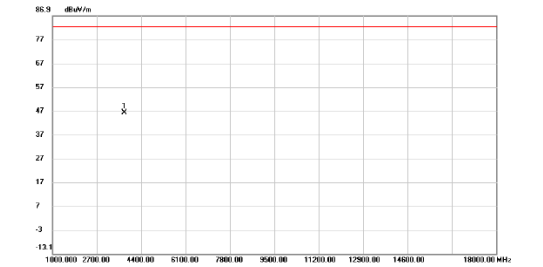


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		49.8850	34.44	-11.27	23.17	82.30	-59.13	peak	
2		164.8300	36.33	-11.04	25.29	82.30	-57.01	peak	
3		347.6750	36.25	-9.47	26.78	82.30	-55.52	peak	
4		557.6800	35.83	-4.78	31.05	82.30	-51.25	peak	
5		754.1050	37.38	-1.07	36.31	82.30	-45.99	peak	
6	*	912.2150	37.28	0.36	37.64	82.30	-44.66	peak	

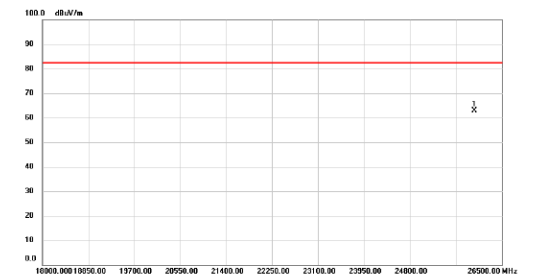
APPENDIX F - RADIATED SPURIOUS EMISSIONS (ABOVE 1000MHZ)

Test Mode : LTE Band 2_TX CH18900_1.4MHz

Vertical



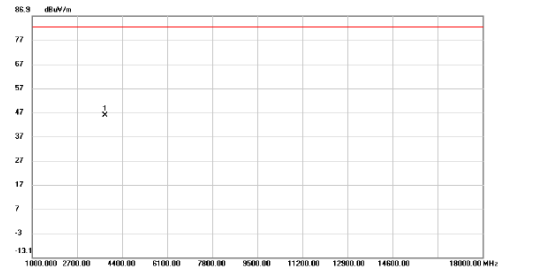
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	3762.500	42.83	3.50	46.33	82.30	-35.97	peak	



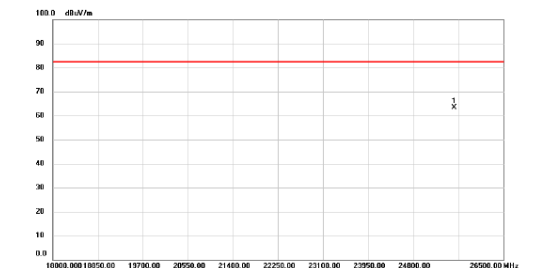
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	25998.50	50.56	12.28	62.84	82.30	-19.46	peak	

Test Mode : LTE Band 2_TX CH18900_1.4MHz

Horizontal



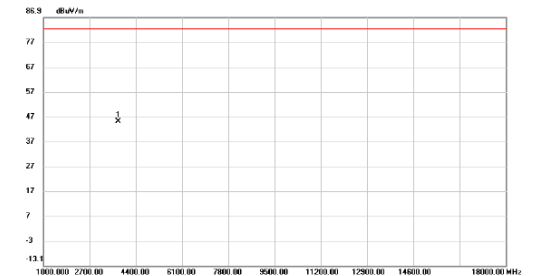
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	3762.500	42.24	3.50	45.74	82.30	-36.56	peak	



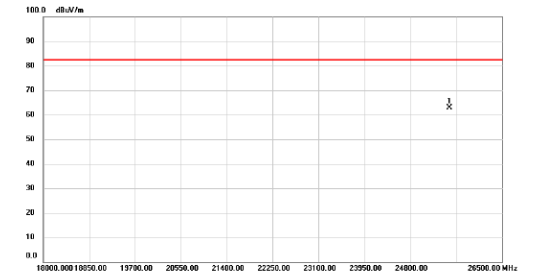
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	25573.50	51.06	12.30	63.36	82.30	-18.94	peak	

Test Mode : LTE Band 2_TX CH18900_5MHz

Vertical



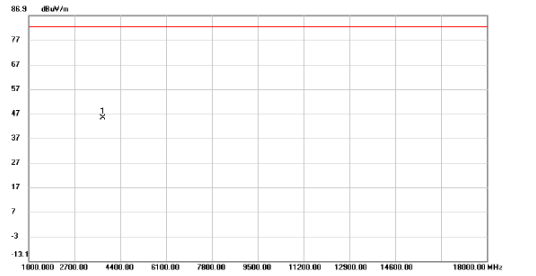
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	3762.500	41.58	3.50	45.08	82.30	-37.22	peak	



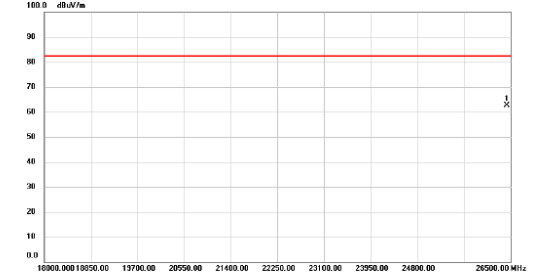
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	25531.00	50.47	12.30	62.77	82.30	-19.53	peak	

Test Mode : LTE Band 2_TX CH18900_5MHz

Horizontal



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	3754.000	41.71	3.49	45.20	82.30	-37.10	peak	

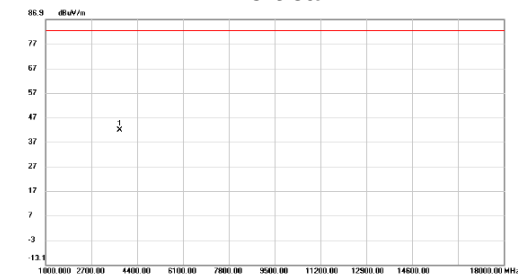


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	26436.25	50.28	12.27	62.55	82.30	-19.75	peak	

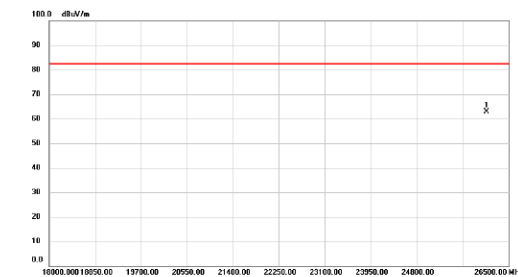
Test Mode : LTE Band 2_TX CH18900_20MHz

Test Mode : LTE Band 2_TX CH18900_20MHz

Vertical



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	3762.500	38.16	3.50	41.66	82.30	-40.64	peak	

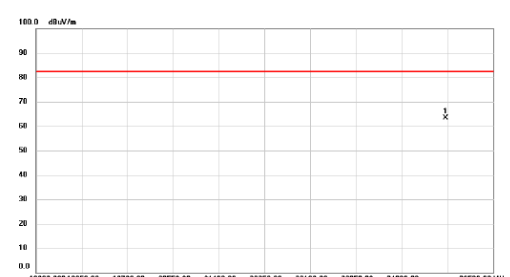


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	26096.25	50.48	12.28	62.76	82.30	-19.54	peak	

Horizontal



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	3754.000	37.43	3.49	40.92	82.30	-41.38	peak	



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	25624.50	51.05	12.30	63.35	82.30	-18.95	peak	

APPENDIX G - BAND EDGE

LTE Band 2_1.4MHz Spectrum Plot

1RB#0

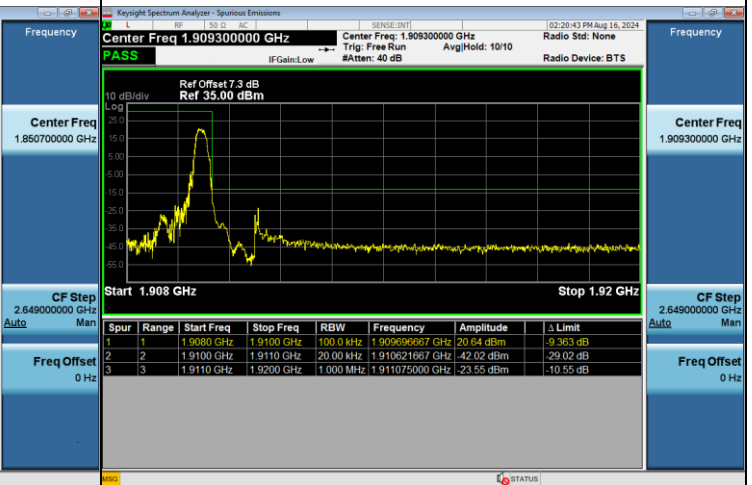
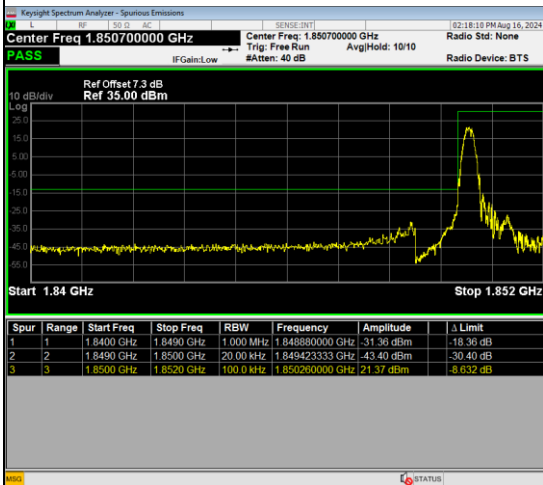
1RB#5

Channel

18607

Channel

19193



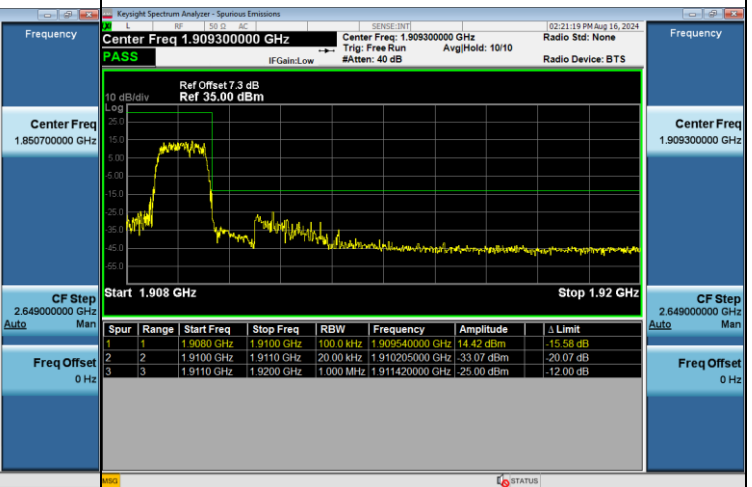
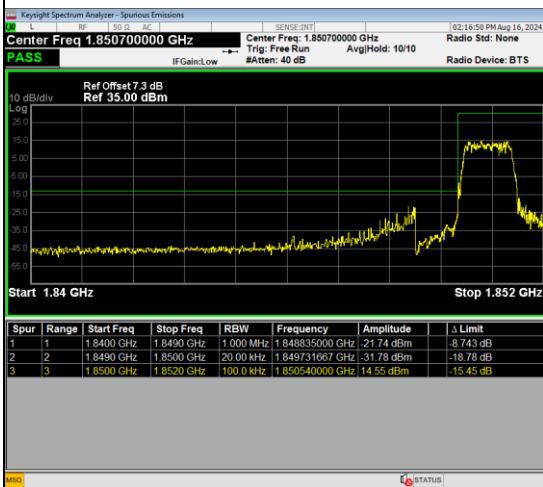
6RB#0

Channel

18607

Channel

19193



LTE Band 2_3MHz Spectrum Plot

1RB#0

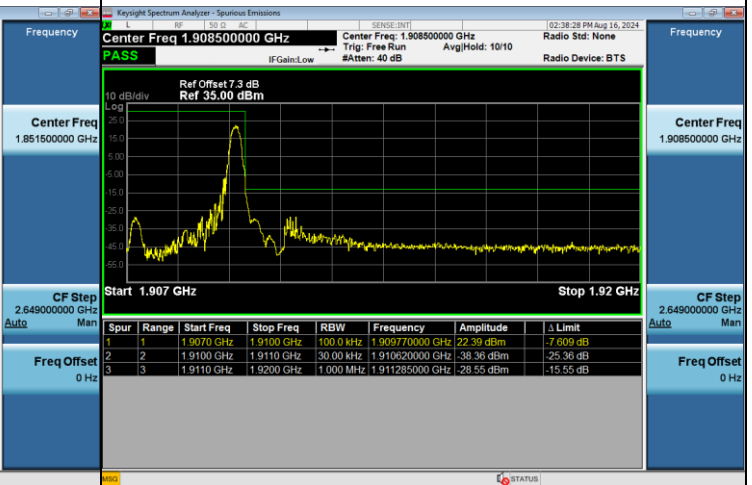
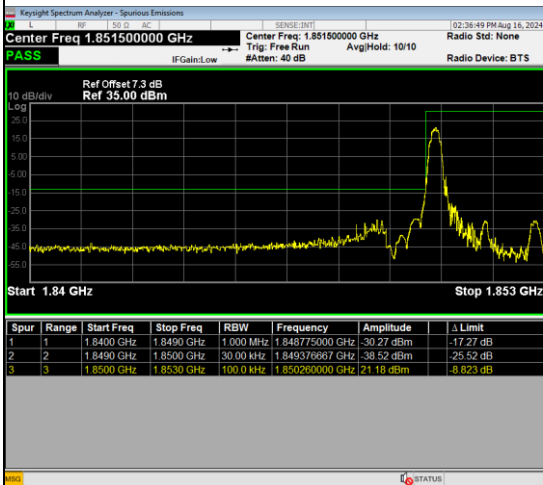
1RB#14

Channel

18615

Channel

19185



15RB#0

Channel

18615

Channel

19185

