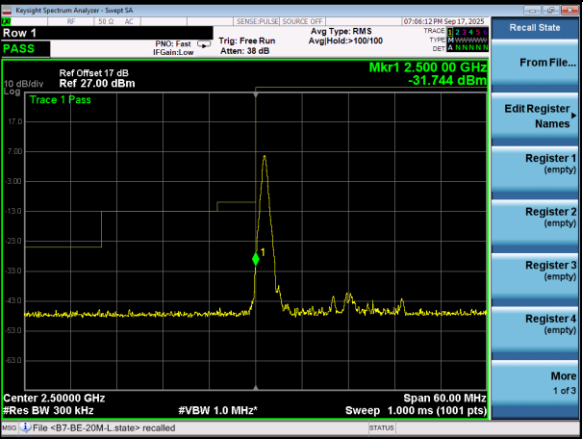
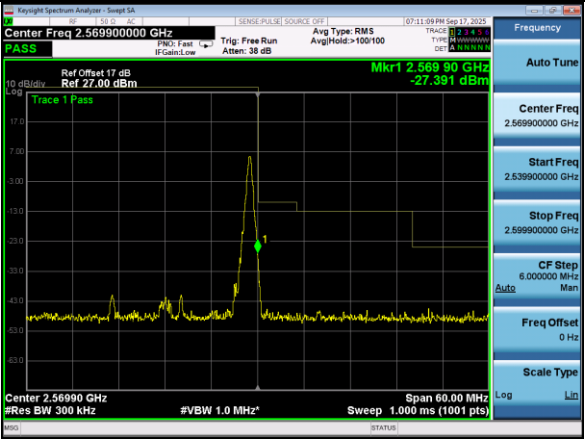


Test Mode: LTE Band 7 / 20MHz / 1RB / QPSK



Lowest channel

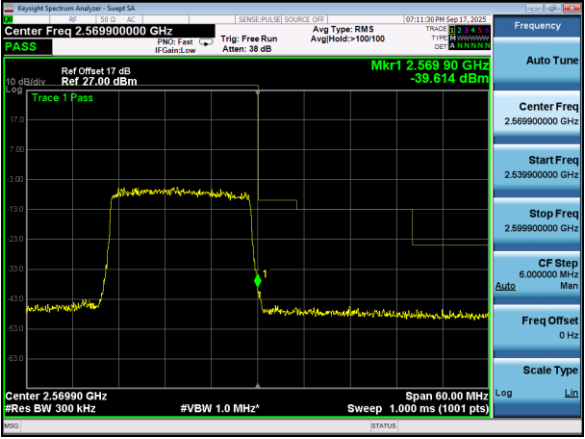


Highest channel

Test Mode: LTE Band 7 / 20MHz / 100RB / QPSK

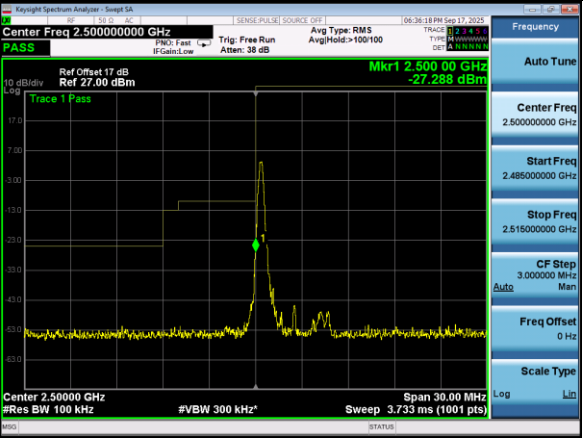


Lowest channel

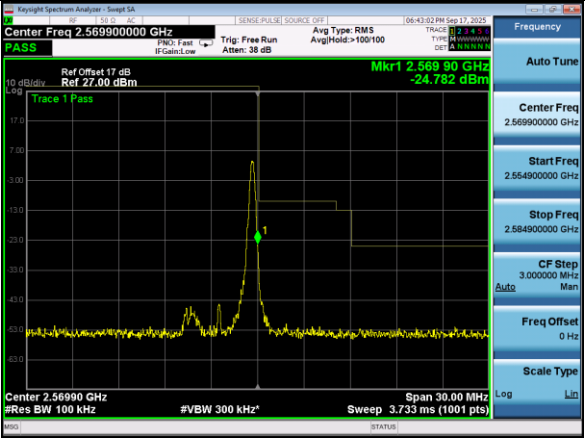


Highest channel

Test Mode: LTE Band 7 / 5MHz / 1RB / 16-QAM

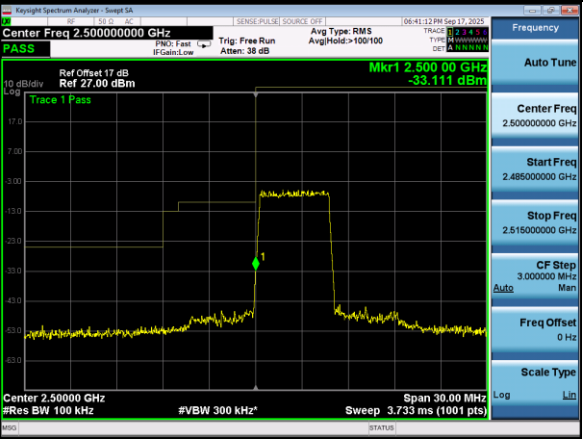


Lowest channel

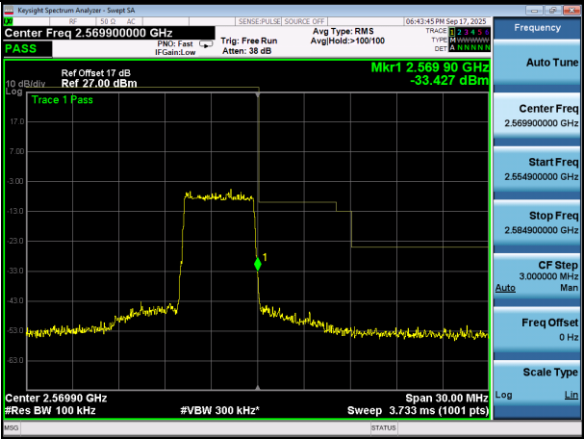


Highest channel

Test Mode: LTE Band 7 / 5MHz / 25RB / 16-QAM

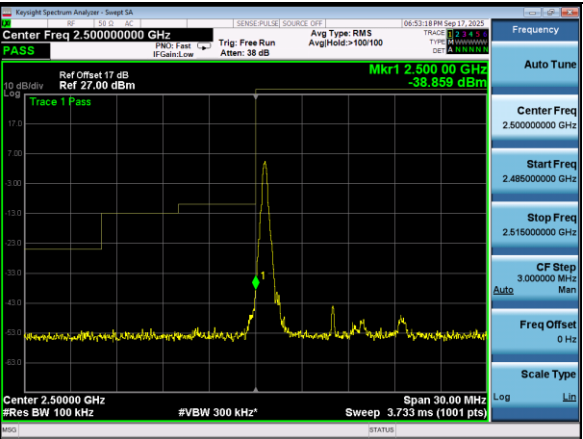


Lowest channel

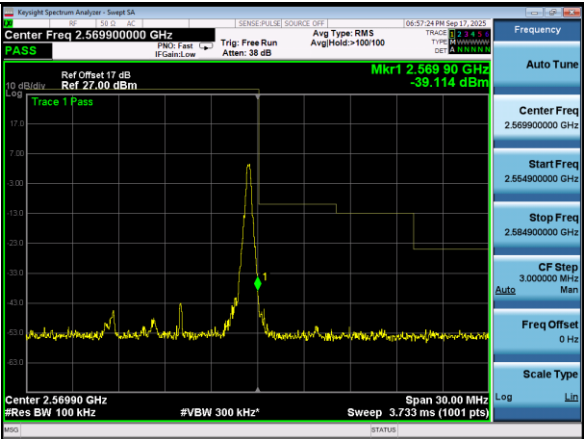


Highest channel

Test Mode: LTE Band 7 / 10MHz / 1RB / 16-QAM

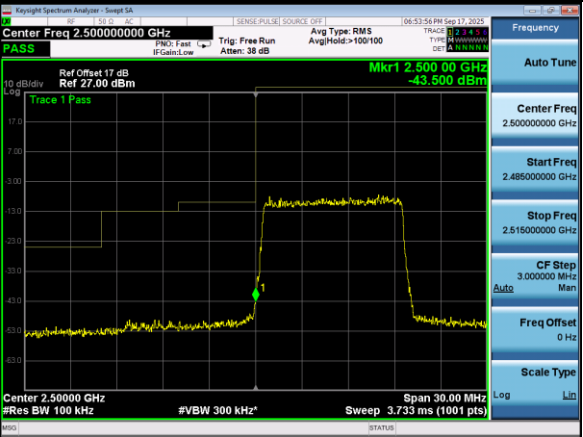


Lowest channel

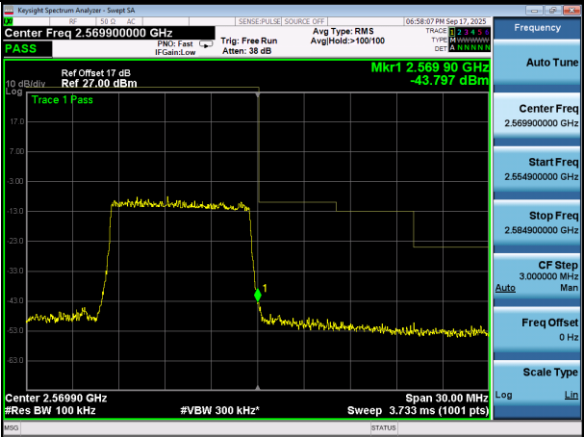


Highest channel

Test Mode: LTE Band 7 / 10MHz / 50RB / 16-QAM

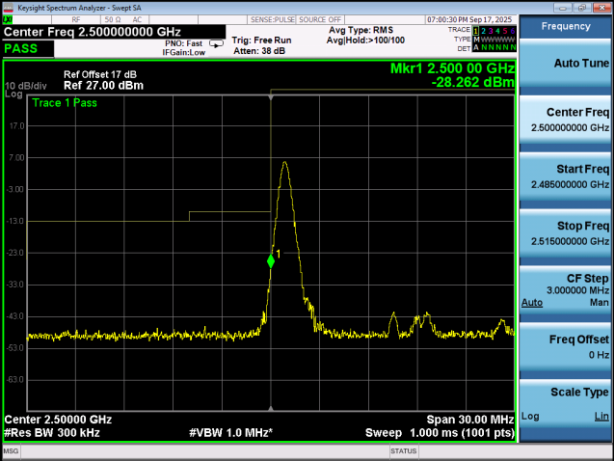


Lowest channel

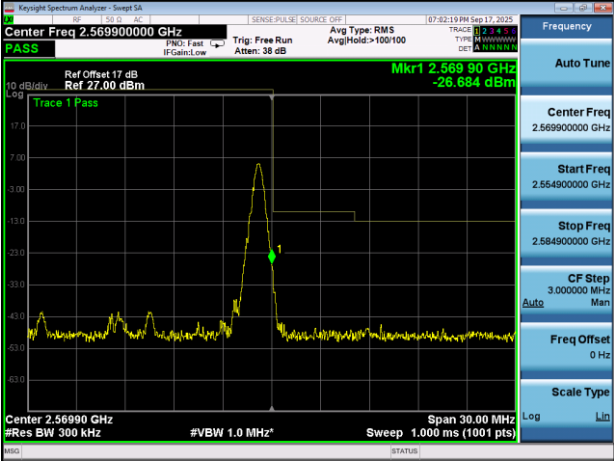


Highest channel

Test Mode: LTE Band 7 / 15MHz / 1RB / 16-QAM



Lowest channel



Highest channel

Test Mode: LTE Band 7 / 15MHz / 75RB / 16-QAM

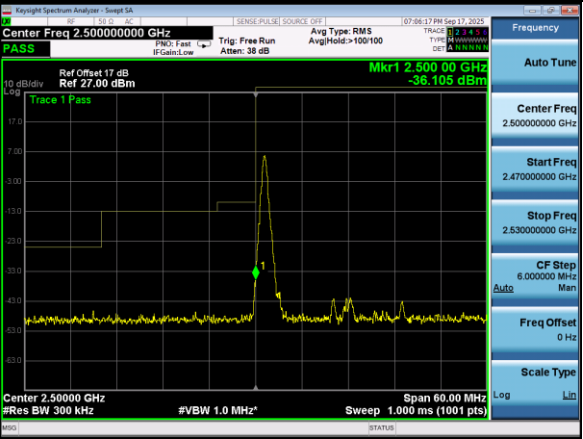


Lowest channel

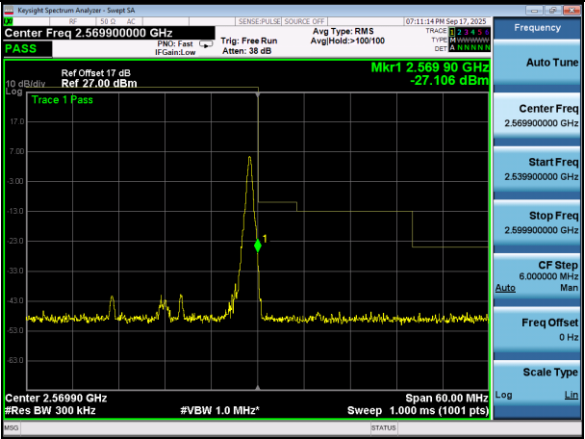


Highest channel

Test Mode: LTE Band 7 / 20MHz / 1RB / 16-QAM

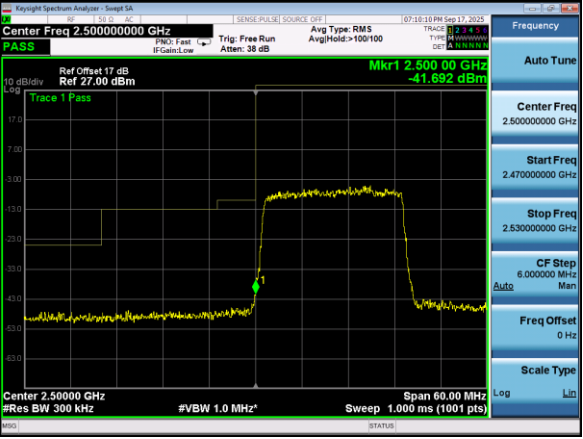


Lowest channel

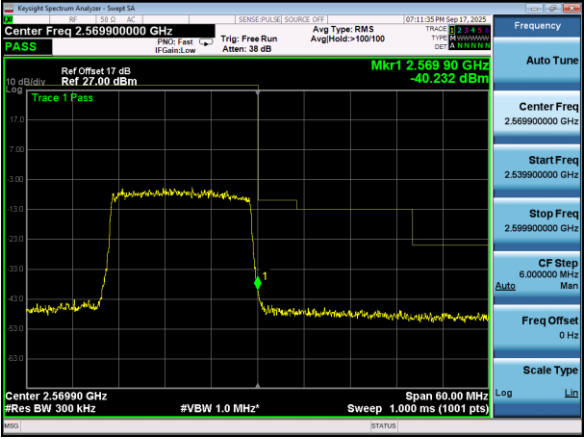


Highest channel

Test Mode: LTE Band 7 / 20MHz / 100RB / 16-QAM



Lowest channel



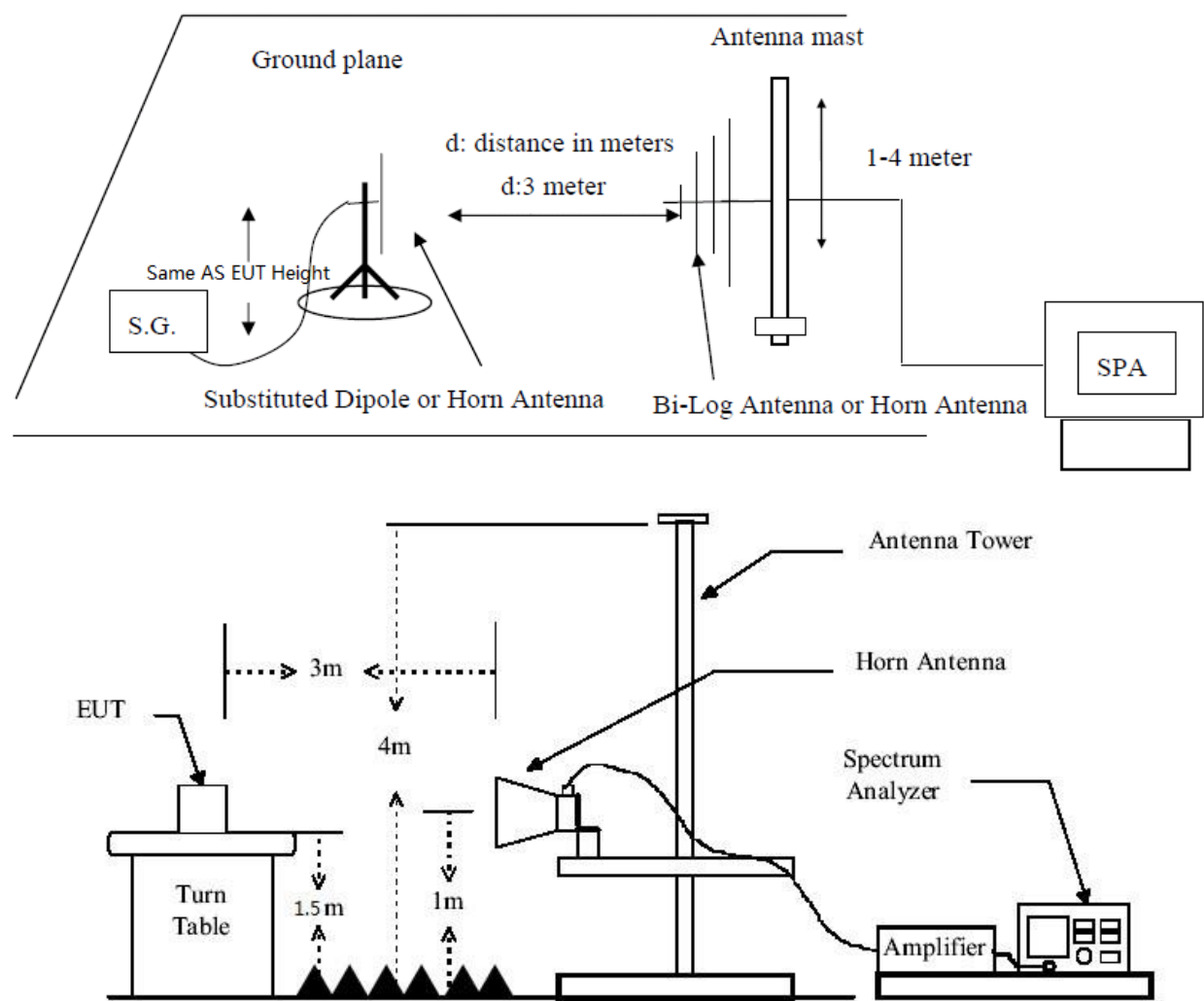
Highest channel

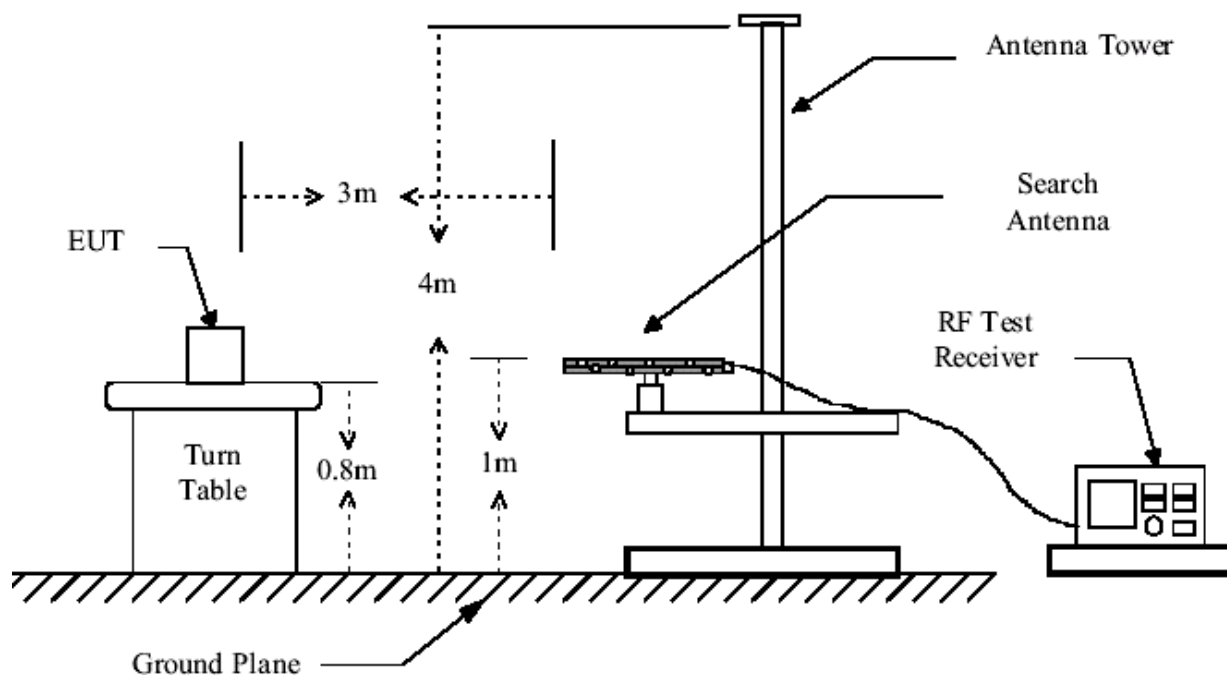
8. ERP, EIRP Measurement

8.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal Due To
CMW500	ROHDE&SCHWARZ	CMW500	Ab-EE010	2025/08/04	2026/08/03
Spectrum analyzer	Keysight	N9020A	Aa-EE104	2025/08/04	2026/08/03

8.2. Block diagram of test setup





8.3. Limits

LTE Band 5(Upper Band): [7W (ERP) for FCC], [3W(ERP) for IC]

LTE Band 7: 2W (EIRP)

8.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
/	/	/	/	/

8.5. Test procedure

The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.

During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.

ERP were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:

$$\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$$

EIRP were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:

$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$$

Refer to ANSI C63.26:2015 for details

8.6. Test result

Test Site: RF Laboratory	Test Date: 2025/09/17--2025/10/23
Condition: 24.3°C,56%RH,101kPa	Test Engineer: Yannis Wen
Memo: /	

EUT Name: Remote Controller	EUT Model: R100
Sample No.: A2507399-S0001	Test Mode: All modes
Power supply: DC 3.7V from battery	Memo: /

/

8.7. Test data

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	FCC Limit (dBm)	IC Limit (dBm)	Result
LTE Band 5 (1.4MHz) QPSK	Lowest	6	0	H	V	22.51	38.45	34.77	Pass
					H	22.22			
				E1	V	23.32			
					H	22.76			
				E2	V	23.04			
					H	23.10			
	Middle	6	0	H	V	22.73	38.45	34.77	Pass
					H	21.69			
				E1	V	22.78			
					H	21.54			
				E2	V	22.22			
					H	22.87			
	Highest	6	0	H	V	23.36	38.45	34.77	Pass
					H	23.97			
				E1	V	23.63			
					H	23.79			
				E2	V	23.54			
					H	21.74			

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	FCC Limit (dBm)	IC Limit (dBm)	Result
LTE Band 5 (3MHz) QPSK	Lowest	15	0	H	V	23.06	38.45	34.77	Pass
					H	22.85			
				E1	V	23.45			
					H	22.69			
				E2	V	23.07			
					H	23.71			
	Middle	15	0	H	V	22.48	38.45	34.77	Pass
					H	22.89			
				E1	V	22.52			
					H	23.34			
				E2	V	22.40			
					H	22.99			
	Highest	15	0	H	V	22.07	38.45	34.77	Pass
					H	22.22			
				E1	V	23.19			
					H	23.29			
				E2	V	22.88			
					H	23.37			

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	FCC Limit (dBm)	IC Limit (dBm)	Result
LTE Band 5 (5MHz) QPSK	Lowest	25	0	H	V	23.72	38.45	34.77	Pass
					H	23.03			
				E1	V	23.21			
					H	23.45			
				E2	V	23.76			
					H	23.27			
	Middle	25	0	H	V	22.77	38.45	34.77	Pass
					H	22.90			
				E1	V	22.71			
					H	22.91			
				E2	V	22.44			
					H	23.51			
	Highest	25	0	H	V	23.33	38.45	34.77	Pass
					H	22.03			
				E1	V	22.66			
					H	23.46			
				E2	V	23.30			
					H	21.64			

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	FCC Limit (dBm)	IC Limit (dBm)	Result
LTE Band 5 (10MHz) QPSK	Lowest	50	0	H	V	22.23	38.45	34.77	Pass
					H	22.37			
				E1	V	23.78			
					H	23.40			
				E2	V	23.28			
					H	23.64			
	Middle	50	0	H	V	22.43	38.45	34.77	Pass
					H	21.74			
				E1	V	22.20			
					H	22.35			
				E2	V	22.55			
					H	22.30			
	Highest	50	0	H	V	22.99	38.45	34.77	Pass
					H	22.88			
				E1	V	23.62			
					H	22.80			
				E2	V	22.42			
					H	22.47			

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	FCC Limit (dBm)	IC Limit (dBm)	Result
LTE Band 5 (1.4MHz) 16 QAM	Lowest	6	0	H	V	22.50	38.45	34.77	Pass
					H	21.81			
				E1	V	23.33			
					H	22.43			
				E2	V	23.57			
					H	22.78			
	Middle	6	0	H	V	23.15	38.45	34.77	Pass
					H	22.46			
				E1	V	23.24			
					H	22.66			
				E2	V	22.56			
					H	21.72			
	Highest	6	0	H	V	23.75	38.45	34.77	Pass
					H	22.10			
				E1	V	23.14			
					H	23.68			
				E2	V	23.03			
					H	21.63			

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	FCC Limit (dBm)	IC Limit (dBm)	Result
LTE Band 5 (3MHz) 16 QAM	Lowest	15	0	H	V	23.21	38.45	34.77	Pass
					H	22.78			
				E1	V	23.44			
					H	23.74			
				E2	V	22.68			
					H	22.71			
	Middle	15	0	H	V	22.04	38.45	34.77	Pass
					H	21.69			
				E1	V	22.37			
					H	22.30			
				E2	V	23.08			
					H	22.53			
	Highest	15	0	H	V	23.73	38.45	34.77	Pass
					H	22.53			
				E1	V	23.63			
					H	22.31			
				E2	V	23.50			
					H	22.40			

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	FCC Limit (dBm)	IC Limit (dBm)	Result
LTE Band 5 (5MHz) 16 QAM	Lowest	25	0	H	V	23.04	38.45	34.77	Pass
					H	22.42			
				E1	V	22.35			
					H	23.24			
				E2	V	22.05			
					H	23.42			
	Middle	25	0	H	V	22.83	38.45	34.77	Pass
					H	22.03			
				E1	V	21.99			
					H	22.59			
				E2	V	22.70			
					H	22.17			
	Highest	25	0	H	V	23.77	38.45	34.77	Pass
					H	22.69			
				E1	V	23.36			
					H	23.87			
				E2	V	21.86			
					H	21.24			

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	FCC Limit (dBm)	IC Limit (dBm)	Result
LTE Band 5 (10MHz) 16 QAM	Lowest	50	0	H	V	22.73	38.45	34.77	Pass
					H	21.74			
				E1	V	22.30			
					H	23.16			
				E2	V	22.16			
					H	23.34			
	Middle	50	0	H	V	21.85	38.45	34.77	Pass
					H	23.32			
				E1	V	23.34			
					H	22.57			
				E2	V	23.02			
					H	23.41			
	Highest	50	0	H	V	22.29	38.45	34.77	Pass
					H	23.75			
				E1	V	22.96			
					H	23.41			
				E2	V	22.43			
					H	22.69			

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 7 (5MHz) QPSK	Lowest	25	0	H	V	23.26	33.00	Pass
					H	23.07		
				E1	V	22.47		
					H	23.29		
				E2	V	23.09		
					H	22.06		
	Middle	25	0	H	V	23.40	33.00	Pass
					H	23.21		
				E1	V	22.82		
					H	22.67		
				E2	V	23.25		
					H	22.65		
	Highest	25	0	H	V	22.27	33.00	Pass
					H	23.76		
				E1	V	23.67		
					H	23.49		
				E2	V	21.92		
					H	22.33		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 7 (10MHz) QPSK	Lowest	50	0	H	V	23.30	33.00	Pass
					H	21.72		
				E1	V	23.68		
					H	23.74		
				E2	V	22.99		
					H	23.18		
	Middle	50	0	H	V	23.57	33.00	Pass
					H	22.41		
				E1	V	22.88		
					H	22.24		
				E2	V	23.24		
					H	22.44		
	Highest	50	0	H	V	23.97	33.00	Pass
					H	23.52		
				E1	V	22.94		
					H	23.73		
				E2	V	22.66		
					H	23.28		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 7 (15MHz) QPSK	Lowest	75	0	H	V	22.56	33.00	Pass
					H	22.29		
				E1	V	23.00		
					H	22.18		
				E2	V	23.75		
					H	23.71		
	Middle	75	0	H	V	21.90	33.00	Pass
					H	21.81		
				E1	V	22.30		
					H	23.07		
				E2	V	22.34		
					H	23.53		
	Highest	75	0	H	V	23.28	33.00	Pass
					H	22.72		
				E1	V	22.38		
					H	22.02		
				E2	V	21.86		
					H	22.62		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 7 (20MHz) QPSK	Lowest	100	0	H	V	22.69	33.00	Pass
					H	23.26		
				E1	V	23.83		
					H	23.65		
				E2	V	23.36		
					H	23.79		
	Middle	100	0	H	V	23.02	33.00	Pass
					H	22.38		
				E1	V	21.76		
					H	22.24		
				E2	V	23.69		
					H	22.87		
	Highest	100	0	H	V	23.14	33.00	Pass
					H	22.52		
				E1	V	22.02		
					H	23.10		
				E2	V	23.34		
					H	22.59		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 7 (5MHz) 16 QAM	Lowest	25	0	H	V	22.23	33.00	Pass
					H	22.49		
				E1	V	23.74		
					H	23.24		
				E2	V	22.22		
					H	23.84		
	Middle	25	0	H	V	23.39	33.00	Pass
					H	23.26		
				E1	V	23.29		
					H	22.84		
				E2	V	22.82		
					H	23.10		
	Highest	25	0	H	V	23.85	33.00	Pass
					H	23.22		
				E1	V	22.49		
					H	22.87		
				E2	V	22.50		
					H	23.44		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 7 (10MHz) 16 QAM	Lowest	50	0	H	V	23.35	33.00	Pass
					H	23.24		
				E1	V	22.18		
					H	22.71		
				E2	V	23.01		
					H	23.88		
	Middle	50	0	H	V	23.00	33.00	Pass
					H	21.51		
				E1	V	21.86		
					H	21.79		
				E2	V	22.15		
					H	22.24		
	Highest	50	0	H	V	23.09	33.00	Pass
					H	22.40		
				E1	V	21.91		
					H	22.08		
				E2	V	21.81		
					H	22.23		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 7 (15MHz) 16 QAM	Lowest	75	0	H	V	22.92	33.00	Pass
					H	23.08		
				E1	V	22.86		
					H	22.70		
				E2	V	22.75		
					H	22.58		
	Middle	75	0	H	V	22.33	33.00	Pass
					H	23.13		
				E1	V	22.87		
					H	22.32		
				E2	V	23.09		
					H	22.47		
	Highest	75	0	H	V	22.10	33.00	Pass
					H	22.69		
				E1	V	23.51		
					H	23.26		
				E2	V	23.59		
					H	21.45		

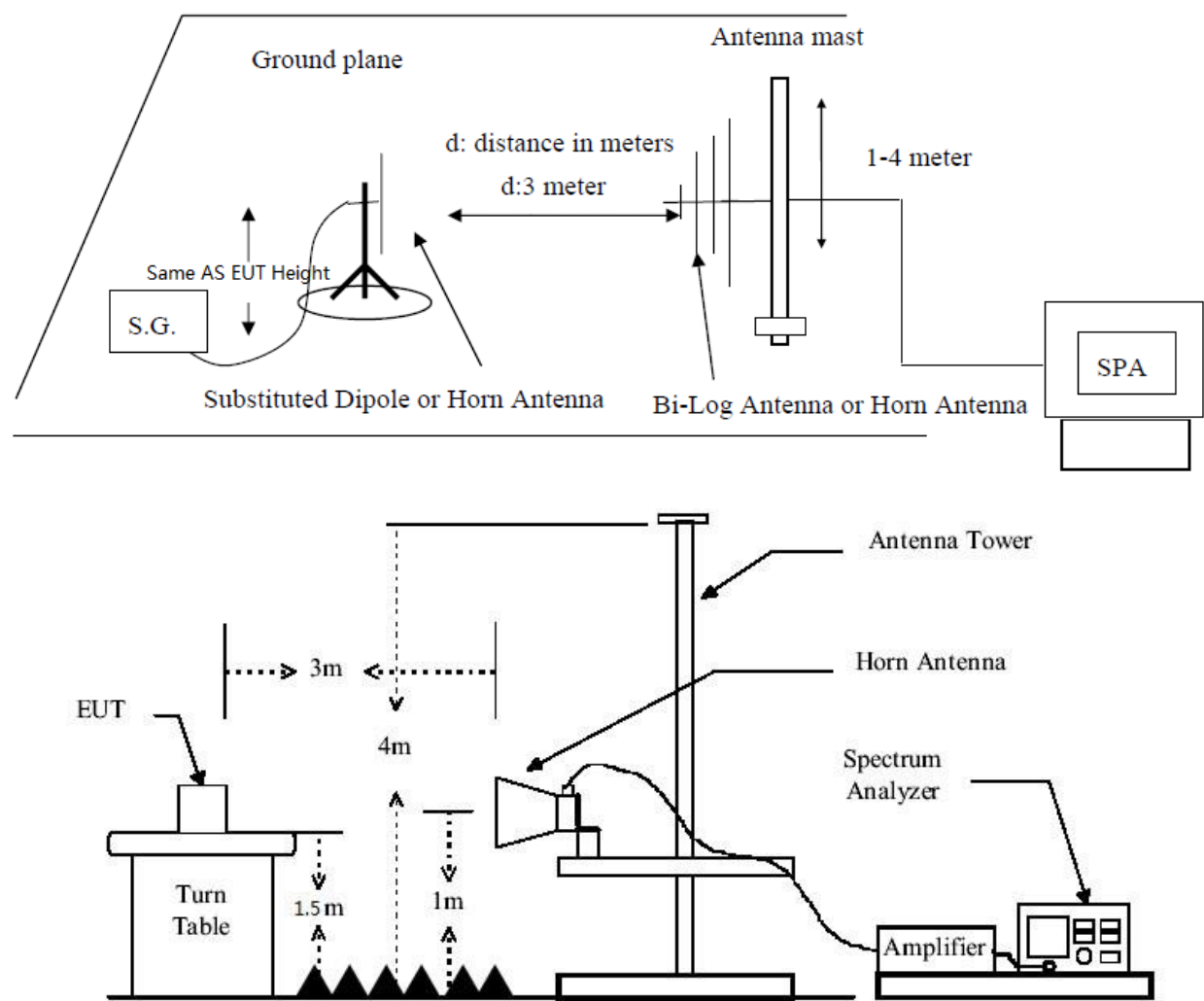
EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 7 (20MHz) 16 QAM	Lowest	100	0	H	V	23.00	33.00	Pass
					H	21.75		
				E1	V	23.18		
					H	23.73		
				E2	V	23.54		
					H	22.14		
	Middle	100	0	H	V	23.25	33.00	Pass
					H	23.01		
				E1	V	23.43		
					H	23.01		
				E2	V	23.09		
					H	23.45		
	Highest	100	0	H	V	23.28	33.00	Pass
					H	23.79		
				E1	V	23.67		
					H	22.70		
				E2	V	22.58		
					H	22.84		

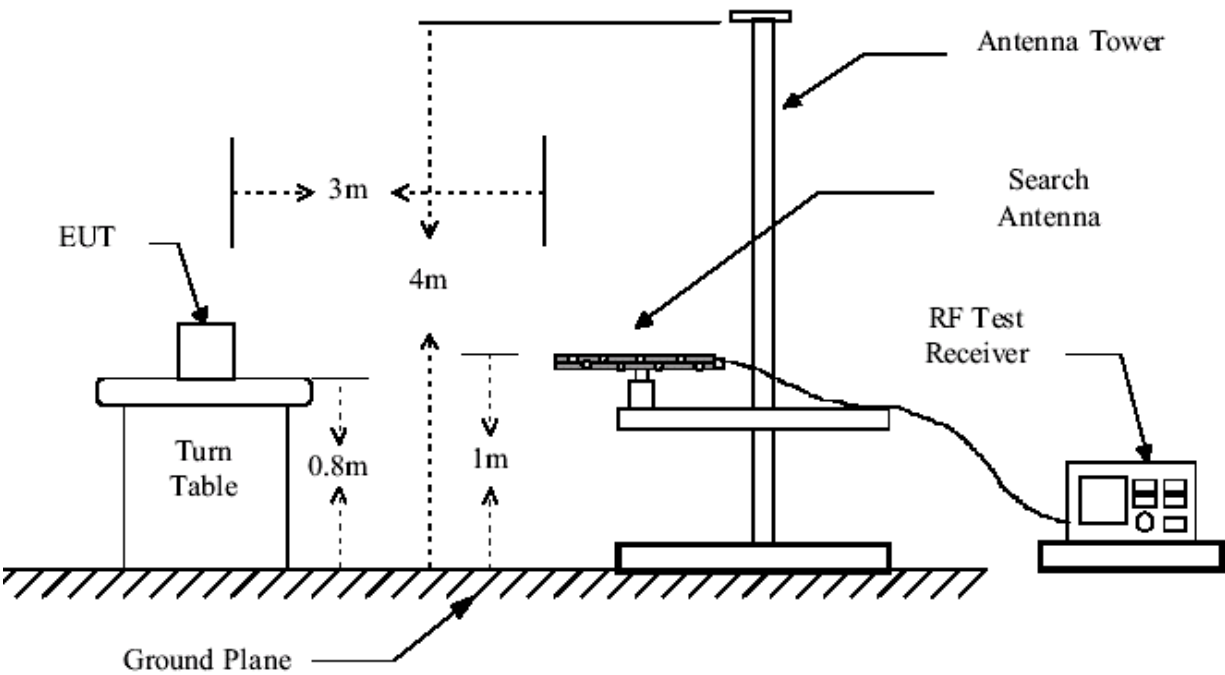
9. Field Strength of Spurious Radiation

9.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal Due To
CMW500	ROHDE&SCH WARZ	CMW500	Ab-EE010	2025/08/04	2026/08/03
Spectrum analyzer	Keysight	N9020A	Aa-EE104	2025/08/04	2026/08/03

9.2. Block diagram of test setup





9.3. Limits

Band 2/4/5/12/17/26/66:-13dBm
Band 7/41:-25dBm

9.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
/	/	/	/	/

9.5. Test procedure

The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.

During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

ERP / EIRP = S.G. output (dBm) + Antenna Gain(dB/dBi) – Cable Loss (dB)

Compliance with the provisions of part 27 [paragraphs \(c\)\(3\)](#) and [\(c\)\(4\)](#) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

Refer to ANSI C63.26:2015 for details

9.6. Test result

Test Site: Chamber 1#(RSE)	Test Date: 2025/09/26--2025/10/14
Condition: 24.2°C,56%RH,101kPa	Test Engineer: Yannis Wen
Memo: /	

EUT Name: Remote Controller	EUT Model: R100
Sample No.: A2507399-S0001	Test Mode: All modes
Power supply: DC 3.7V from battery	Memo: /

/

9.7. Test data

Measurement Data:

QPSK Mode:

Test mode:	LTE Band 5(1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1647.97	V	-38.49	-13.00	Pass
2471.67	V	-34.89		
3296.01	V	-32.78		
4120.06	V	-32.39		
4943.72	V	-30.46		
1647.90	H	-37.86	-13.00	Pass
2472.15	H	-33.66		
3295.70	H	-32.36		
4120.18	H	-31.93		
4944.04	H	-29.50		
Test mode:	LTE Band 5(1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1672.60	V	-38.25	-13.00	Pass
2509.18	V	-34.67		
3345.75	V	-32.87		
4182.54	V	-32.31		
5019.16	V	-30.22		
1672.82	H	-37.84	-13.00	Pass
2509.33	H	-33.87		
3345.96	H	-32.17		
4182.24	H	-32.31		
5019.11	H	-29.92		
Test mode:	LTE Band 5(1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1697.64	V	-38.17	-13.00	Pass
2546.88	V	-35.89		
3395.44	V	-35.33		
4244.52	V	-32.24		
5093.08	V	-29.56		
1697.64	H	-38.89	-13.00	Pass
2546.49	H	-37.32		

3395.66	H	-34.55		
4244.55	H	-33.13		
5093.27	H	-29.59		

Remark :

1. The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
2. Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
3. The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

Test mode:	LTE Band 7(5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
4999.75	V	-38.23	-25.00	Pass
7500.11	V	-34.99		
9999.67	V	-32.38		
12499.89	V	-32.23		
14999.86	V	-30.20		
4999.78	H	-37.95	-25.00	Pass
7499.78	H	-33.49		
10000.18	H	-32.55		
12499.91	H	-31.73		
15000.08	H	-29.36		
Test mode:	LTE Band 7(5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5070.11	V	-38.31	-25.00	Pass
7604.71	V	-35.03		
10140.08	V	-32.83		
12675.09	V	-32.05		
15209.99	V	-30.35		
5070.08	H	-37.98	-25.00	Pass
7604.88	H	-34.26		
10139.80	H	-32.44		
12675.05	H	-32.35		
15209.69	H	-29.78		
Test mode:	LTE Band 7(5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5139.68	V	-38.57	-25.00	Pass
7709.52	V	-35.83		
10279.54	V	-35.23		
12849.57	V	-32.35		
15419.46	V	-29.58		
5139.73	H	-38.77	-25.00	Pass
7709.77	H	-37.30		
10279.23	H	-34.88		
12849.50	H	-32.75		
15419.24	H	-29.60		

Remark :

1. The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
2. Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
3. The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

16 QAM Mode:

Test mode:	LTE Band 5(1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1648.04	V	-38.38	-13.00	Pass
2471.60	V	-34.88		
3296.19	V	-32.42		
4119.80	V	-32.39		
4943.83	V	-30.20		
1648.11	H	-38.00	-13.00	Pass
2472.06	H	-33.49		
3296.10	H	-32.25		
4119.82	H	-32.13		
4944.12	H	-29.50		
Test mode:	LTE Band 5(1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1672.86	V	-38.02	-13.00	Pass
2509.50	V	-35.03		
3345.87	V	-32.49		
4182.15	V	-32.28		
5019.19	V	-30.13		
1672.81	H	-38.28	-13.00	Pass
2509.33	H	-33.93		
3345.88	H	-32.12		
4182.18	H	-31.91		
5018.96	H	-30.19		
Test mode:	LTE Band 5(1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1697.58	V	-38.15	-13.00	Pass
2546.69	V	-35.77		
3395.22	V	-35.61		
4244.30	V	-32.29		
5093.21	V	-29.60		
1697.71	H	-39.10	-13.00	Pass
2546.66	H	-37.20		
3395.54	H	-34.82		
4244.25	H	-32.94		
5093.49	H	-29.67		

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

Test mode:	LTE Band 7(5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
4999.62	V	-38.36	-25.00	Pass
7499.77	V	-35.06		
9999.92	V	-32.70		
12499.84	V	-32.41		
15000.19	V	-30.57		
4999.65	H	-38.17	-25.00	Pass
7500.09	H	-33.83		
10000.02	H	-32.52		
12499.96	H	-31.90		
15000.10	H	-29.32		
Test mode:	LTE Band 7(5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5069.75	V	-38.08	-25.00	Pass
7604.89	V	-34.86		
10139.76	V	-32.53		
12674.64	V	-32.28		
15209.66	V	-29.93		
5070.01	H	-38.03	-25.00	Pass
7605.18	H	-33.91		
10139.91	H	-32.37		
12675.08	H	-32.24		
15209.61	H	-29.95		
Test mode:	LTE Band 7(5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5139.51	V	-38.33	-25.00	Pass
7709.72	V	-35.71		
10279.26	V	-35.30		
12849.16	V	-32.52		
15419.28	V	-29.93		
5139.81	H	-38.87	-25.00	Pass
7709.71	H	-37.19		
10279.34	H	-34.75		
12849.67	H	-33.15		
15419.21	H	-29.45		

Remark :

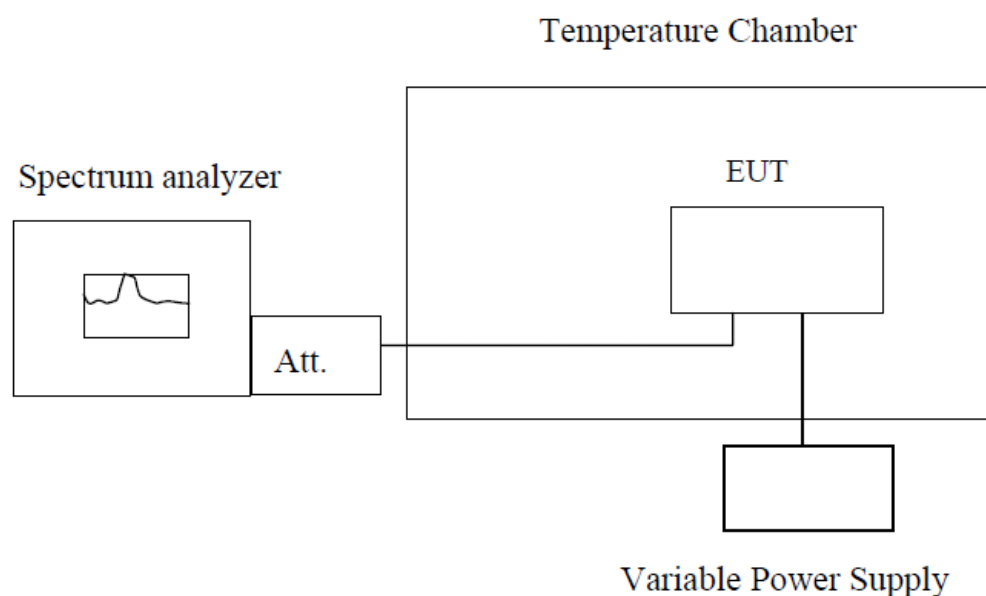
- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

10.Frequency stability vs. temperature

10.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal Due To
CMW500	ROHDE&SCH WARZ	CMW500	Ab-EE010	2025/08/04	2026/08/03
Spectrum analyzer	Keysight	N9020A	Aa-EE104	2025/08/04	2026/08/03
Temp. & Humid. Chamber	Teelong	TL-HW408S	Aa-SE338	2025/07/14	2026/07/13

10.2. Block diagram of test setup



Note : Measurement setup for testing on Antenna connector

10.3. Limits

2.5ppm(Part 22)

Within the authorized bands of operation(Part 24, Part 27)

10.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
/	/	/	/	/

10.5. Test procedure

The equipment under test was connected to an external DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency.

Turn EUT off and set the chamber temperature to –20°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.
Refer to ANSI C63.26:2015 for details

10.6. Test result

Test Site: RF Laboratory	Test Date: 2025/09/17--2025/10/23
Condition: 24.3°C,56%RH,101kPa	Test Engineer: Yannis Wen
Memo: /	

EUT Name: Remote Controller	EUT Model: R100
Sample No.: A2507399-S0001	Test Mode: All modes
Power supply: DC 3.7V from battery	Memo: /

/

10.7. Test data

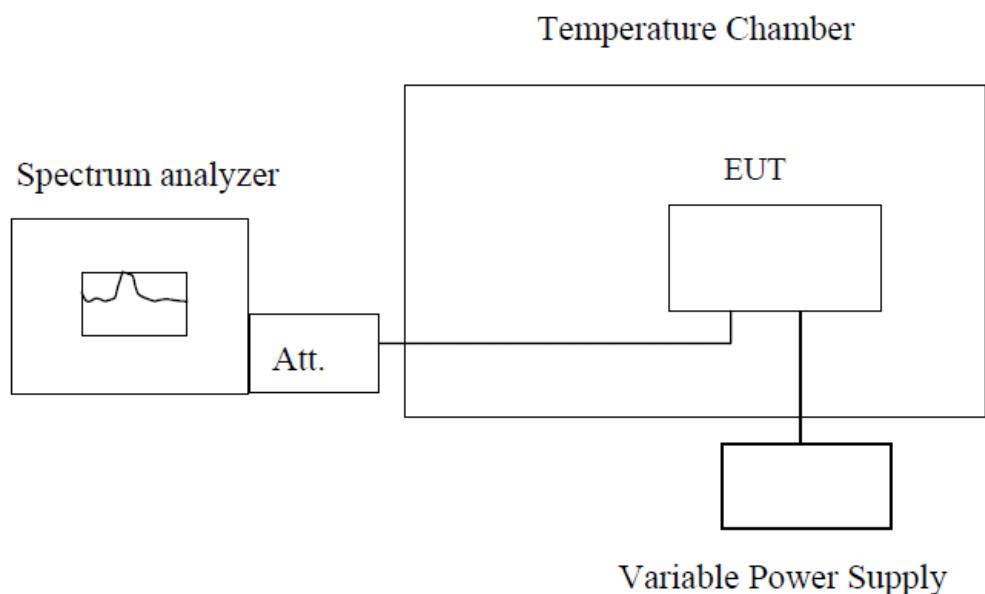
Reference Frequency: LTE Band 5 Middle channel=20175 channel=836.5MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.7	-20	20	0.0239	2.5	Pass
	-10	25	0.0299		
	0	24	0.0287		
	10	2	0.0024		
	20	17	0.0203		
	30	10	0.0120		
	40	3	0.0036		
	50	3	0.0036		
	60	10	0.0120		
Reference Frequency: LTE Band 7 Middle channel=21100 channel=2535MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.7	-20	15	0.0059	Within the authorized bands	Pass
	-10	18	0.0071		
	0	24	0.0095		
	10	-31	-0.0122		
	20	13	0.0051		
	30	14	0.0055		
	40	-8	-0.0032		
	50	1	0.0004		
	60	10	0.0039		

11.Frequency stability vs. voltage

11.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal Due To
CMW500	ROHDE&SCHWARZ	CMW500	Ab-EE010	2025/08/04	2026/08/03
Spectrum analyzer	Keysight	N9020A	Aa-EE104	2025/08/04	2026/08/03
Temp. & Humid. Chamber	Teelong	TL-HW408S	Aa-SE338	2025/07/14	2026/07/13

11.2. Block diagram of test setup



Note : Measurement setup for testing on Antenna connector

11.3. Limits

2.5ppm

Band II & Band VII should be within authorized band.

11.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
/	/	/	/	/

11.5. Test procedure

Set chamber temperature to 20°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage.

Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.

Refer to ANSI C63.26:2015 for details

11.6. Test result

Test Site: RF Laboratory	Test Date: 2025/09/17--2025/10/23
Condition: 24.3°C,56%RH,101kPa	Test Engineer: Yannis Wen
Memo: /	

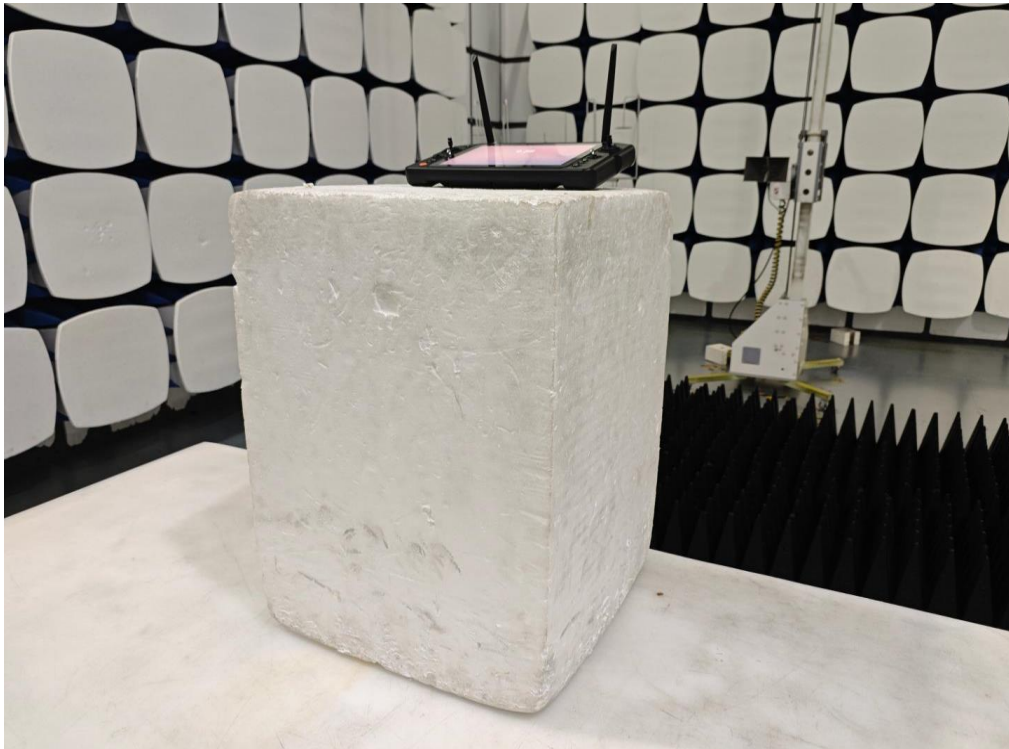
EUT Name: Remote Controller	EUT Model: R100
Sample No.: A2507399-S0001	Test Mode: All modes
Power supply: DC 3.7V from battery	Memo: /

/

11.7. Test data

Reference Frequency: LTE Band 5 Middle channel=20175 channel=836.5MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	22	0.0263	2.5	Pass
	3.7	25	0.0299		
	3.14	23	0.0275		
Reference Frequency: LTE Band 7 Middle channel=21100 channel=2535MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	14	0.0055	within authorized band	Pass
	3.7	21	0.0083		
	3.14	25	0.0099		

12. Test Setup Photograph





13. Photos of the EUT

Please refer to the report A2507399-C03-R01.

-----End Report-----