



# FCC Radio Test Report

## FCC ID: RI7ATD551

**This report concerns: Class II permissive Change**

**Project No.** : 2412C414  
**Equipment** : LTE Cat-M1 Tracker  
**Brand Name** : 1. Telit Cinterion  
                  2. DeWALT  
**Test Model** : ATD551  
**Series Model** : N/A  
**Applicant** : Telit Communications S.p.A.  
**Address** : Via Stazione di Prosecco 5/b, 34010 Sgonico, Trieste, Italy  
**Manufacturer** : Telit Communications S.p.A.  
**Address** : Via Stazione di Prosecco 5/b, 34010 Sgonico, Trieste, Italy  
**Factory** : Fushan Technology (Vietnam)Limited Liability Company  
**Address** : No. 8, Road 6, VSIP Bac Ninh, Phu Chan, Tu Son, Bac Ninh, Vietnam  
**Date of Receipt** : Jan. 02, 2025  
**Date of Test** : Jan. 06, 2025 ~ Feb. 18, 2025  
**Issued Date** : Mar. 13, 2025  
**Report Version** : R00  
**Test Sample** : Engineering Sample No.: DG20250102159, DG20250102160  
**Standard(s)** : 47 CFR FCC Part 90 Subpart S  
                  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 manufacturer'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**.

The report must not be used by the client to claim product certification, approval, or endorsement by A2LA or any agency of the U.S. Government.

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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-4-2412C414	R00	This is a supplementary report to the original test report (BTL-FCCP-4-2404C168). The changes are shown in below table so the radiated emissions are retested and recorded in the report, the original test results please refer to original report.	Mar. 13, 2025	Valid

No.	Workstream	Change Description	Updates / Notes
1	Hardware-LTE Antenna	KAVX Solution#3 implementing	Matching change + cutting tuning trace + adding tuning trace
2	Hardware-GNSS Filter	GNSS Filter	Add SAW filter to GNSS, between module pin and passive tuning components
3	Hardware-Modem Supply Filter	ME310G1WW05R060400 supply filtering	Add EMI filter 120 R to modem supply pins
4	Hardware-GND Copper	Thermal relief for SMD pads on copper GND	Modified copper GND for thermal relief when connecting to SMD pads
5	Hardware Version	V0.6 to V0.7	V0.6 to V0.7

## 1. APPLICABLE STANDARDS

The following reference test guidance is not within the scope of accreditation of A2LA:  
ANSI C63.26-2015  
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 90 Subpart S & Part 2			
Standard(s) Section	Test Item	Judgment	Remark
2.1046 & 90.635 (b)	Effective Radiated Power	PASS	Note(1)
2.1049 & 90.209	Occupied Bandwidth	PASS	Note(1)
2.1053 & 90.669	Conducted Spurious Emissions	PASS	Note(1)
2.1053 & 90.669	Radiated Spurious Emissions	PASS	-----
2.1053 & 90.691	Mask Measurements	PASS	Note(1)
-	Peak To Average Ratio	PASS	Note(1)
2.1055 & 90.213	Frequency Stability	PASS	Note(1)

Note:

1. The RF module of this LTE Cat-M1 Tracker has been tested and certified. Please refer to the module report as listed in the below table for the test results of the RF module.

RF Module	Module Function	Report Number	Standard	
Model: ME310G1-WW  FCC ID: RI7ME310G1WW	GSM	60356613 003	47 CFR FCC Part 22	RSS-132 Issue 3
			47 CFR FCC Part 24	RSS-133 Issue 6
			47 CFR FCC Part 2	RSS-Gen Issue 5
	LTE	60356613 002	47 CFR FCC Part 22	RSS-132 Issue 3
			47 CFR FCC Part 24	RSS-133 Issue 6
			47 CFR FCC Part 27	RSS-130 Issue 2
	LTE	60356613 001	47 CFR FCC Part 90	RSS-139 Issue 3
			47 CFR FCC Part 2	RSS-Gen Issue 5
			47 CFR FCC Part 22	RSS-132 Issue 3
			47 CFR FCC Part 24	RSS-133 Issue 6
			47 CFR FCC Part 27	RSS-130 Issue 2
			47 CFR FCC Part 90	RSS-139 Issue 3
			47 CFR FCC Part 2	RSS-Gen Issue 5

- 1) The band 26 antenna gain of LTE Cat-M1 Tracker was smaller than that of module, so output power and ERP refer to module test report. Thus, only the radiated spurious emissions was evaluated and recorded in this report. For the test results of all other test items please refer to above module test report.

## 2. Table for Filed Antenna:

Brand	P/N	Antenna Type	Connector	Gain (dBi)	Note
 <b>ethertronics</b> AN AVX GROUP COMPANY	1004795/1004796	PCB	N/A	1.6	LTE Band 26

- 1) The antenna gain is provided by the manufacturer.

## 2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of:  
1# Room 108-116, 309-310, Building 2, No.1, Yile Road, Songshan Lake Zone, Dongguan City, Guangdong, People's Republic of China.

2# 1-2/F, 4/F, Building A, 1-2/F, Building B, 3/F, Building C, No.3, Jinshagang 1st Road, Dalang Town, 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	$U_{\text{,dB}}$
DG-CB01	CISPR	9kHz ~ 30MHz	2.36

Test Site	Method	Measurement Frequency Range	Ant. H / V	$U_{\text{,dB}}$
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	$U_{\text{,dB}}$
DG-CB03 (3m)	CISPR	1GHz ~ 6GHz	4.08
		6GHz ~ 18GHz	4.62

Test Site	Method	Measurement Frequency Range	Ant. H / V	$U_{\text{,dB}}$
SSL-CB01 (3m)	CISPR	30MHz ~ 200MHz	V	4.70
		30MHz ~ 200MHz	H	3.56
		200MHz ~ 1,000MHz	V	4.92
		200MHz ~ 1,000MHz	H	4.54

Test Site	Method	Measurement Frequency Range	$U_{\text{,dB}}$
SSL-CB01 (3m)	CISPR	1GHz ~ 6GHz	4.56
		6GHz ~ 18GHz	5.14

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
Radiated Spurious Emissions (9 kHz to 30 MHz)	26°C	47%	AC 120V/60Hz	Hayden Chen	Jan. 08, 2025
Radiated Spurious Emissions (30 MHz to 1000 MHz)	23°C	42-47%	AC 120V/60Hz	Drew Tan Young Zou	Jan. 24, 2025- Feb. 11, 2025
Radiated Spurious Emissions (Above 1000 MHz)	23°C	42-47%	AC 120V/60Hz	Drew Tan Calvin Wen Allen Tong Young Zou	Jan. 26, 2025- Feb. 11, 2025

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	LTE Cat-M1 Tracker		
Brand Name	1. Telit Cinterion 2. DeWALT		
Test Model	ATD551		
PMN	LTE Cat-M1 Tracker(C1) will use Brand:DeWALT LTE Cat-M1 Tracker(S0) will use Brand:Telit Cinterion LTE Cat-M1 Tracker(S1) will use Brand:Telit Cinterion LTE Cat-M1 Tracker(C2)		
Model Difference(s)	Logo, some mechanical parts color, label, accessories are different.		
Hardware Version	V0.7		
Software Version	V03.05		
Power Source	1# DC Voltage supplied from AC adapter. Model: ADS-10LA-06 05010EPCU 2# Supplied from battery.		
Power Rating	1# I/P: 100-240V ~ 50/60Hz MAX 0.3A O/P: 5V  2.0A 2# DC 3.7V / 3000mAh		
IMEI No.	Radiated	350903789416261, 350903789452092	
Modulation Type	LTE(eMTC)	UL: QPSK,16QAM	
	LTE(NB-IoT)	UL: BPSK, QPSK	

Note:

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

2. Channel List:

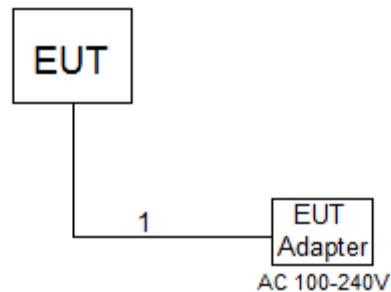
LTE Band 26(eMTC)					
Test Frequency ID	Bandwidth (MHz)	N <sub>UL</sub>	Frequency of Uplink (MHz)	N <sub>DL</sub>	Frequency of Downlink (MHz)
Low Range	1.4	26697	814.7	8697	859.7
	3	26705	815.5	8705	860.5
	5	26715	816.5	8715	861.5
Mid Range	1.4/3/5/10	26740	819	8740	864
High Range	1.4	26783	823.3	8783	868.3
	3	26775	822.5	8775	867.5
	5	26765	821.5	8765	866.5

LTE Band 26(NB-IoT)					
Test Frequency ID	Bandwidth (kHz)	N <sub>UL</sub>	Frequency of Uplink (MHz)	N <sub>DL</sub>	Frequency of Downlink (MHz)
Low Range	200	26691	814.1	8691	859.1
Mid Range	200	26740	819.0	8740	864.0
High Range	200	26789	823.9	8789	868.9

### 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 26 MODE					
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions	26697 to 26783	26740	1.4MHz	QPSK	1RB
	26715 to 26765	26740	5MHz	QPSK	1RB
	26740	26740	10MHz	QPSK	1RB
Test Item	Available Channel	Tested Channel	Sub-carrier Spacing(kHz)	Modulation	Mode
Radiated Spurious Emissions	26691 to 26789	26740	3.75	QPSK	1RB
	26691 to 26789	26740	15	QPSK	1RB

**3.3 BLOCK DIGRAM SHOWING THE CONFIGURATIONOF SYSTEMTESTED****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.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.
-	-	-	-	-

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	USB Cable	YES	NO	1m

## 4. TEST RESULT

### 4.1 RADIATED SPURIOUS EMISSIONS MEASUREMENT

#### 4.1.1 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.

$E (\text{dB}\mu\text{V}/\text{m}) = \text{EIRP} (\text{dBm}) - 20 \log D + 104.8$ ; where D is the measurement distance in meters. The emission limit equal to 82.26dB $\mu$ V/m.

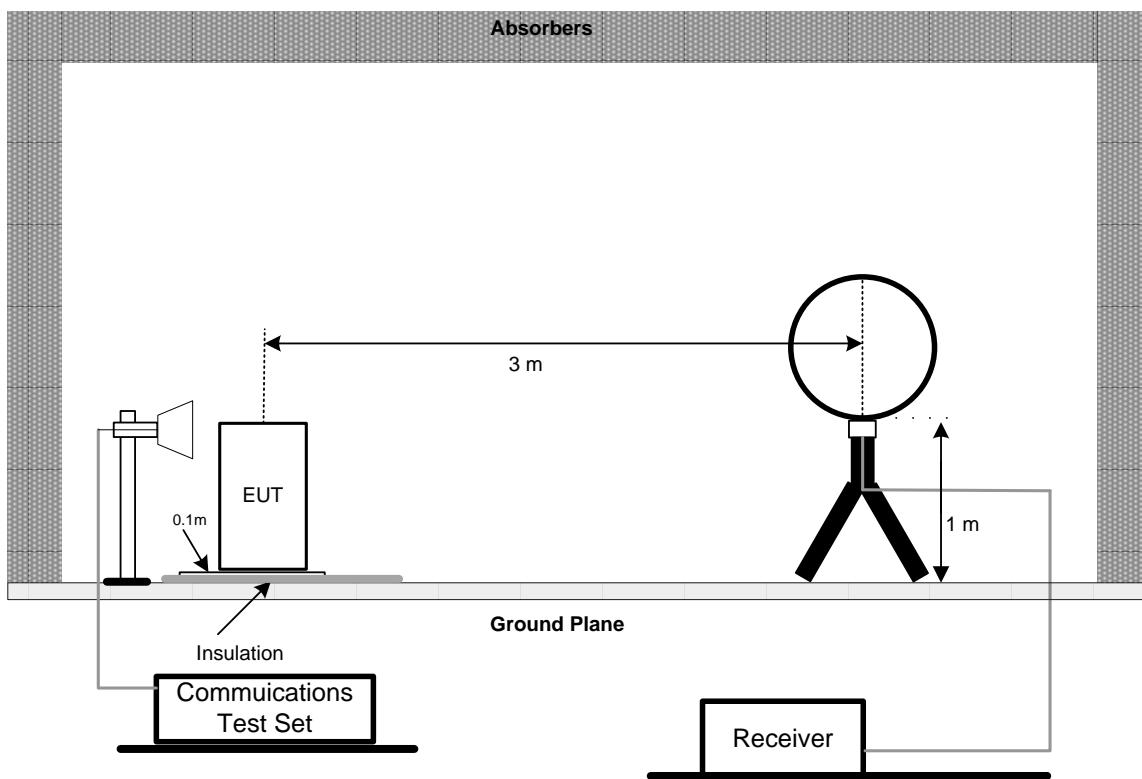
#### 4.1.2 TEST PROCEDURES

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

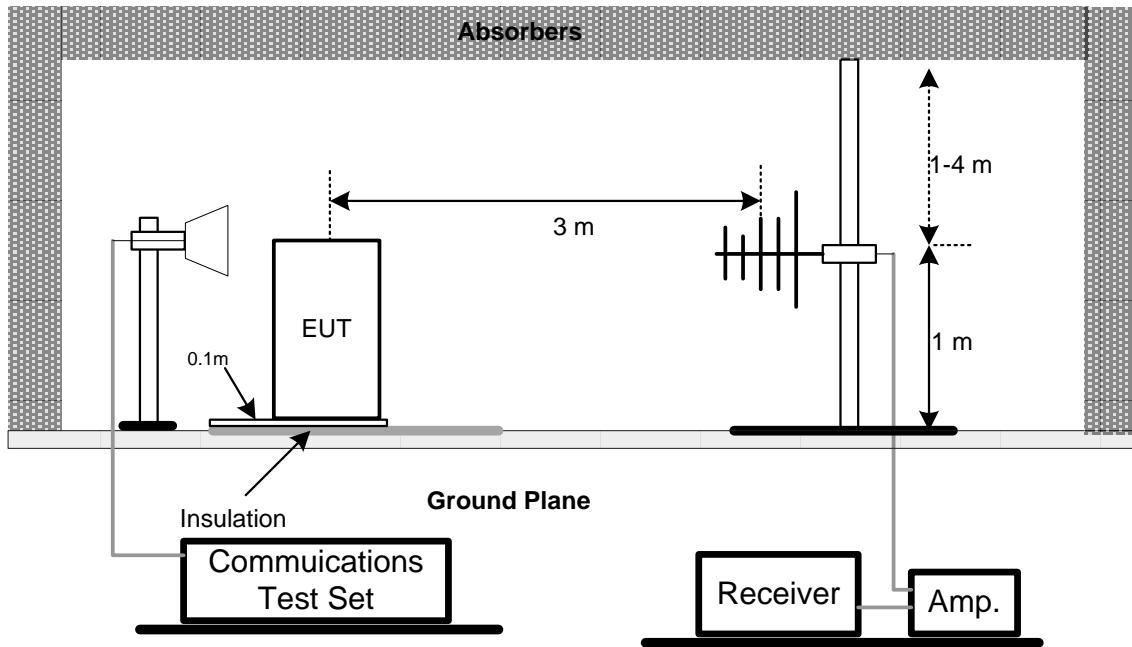
1. The EUT was placed on the top of a thickness 0.1 meter above the ground at a 3 meter semi-anechoic chamber.
2. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
3. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum 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.  $E (\text{dB}\mu\text{V}/\text{m}) = \text{EIRP} (\text{dBm}) - 20\log(D) + 104.8$ ; where D is the measurement distance (in the far field region) in m. The emission limit equal to 82.26dB $\mu$ V/m or 70.26dB $\mu$ V/m or 55.26dB $\mu$ V/m.

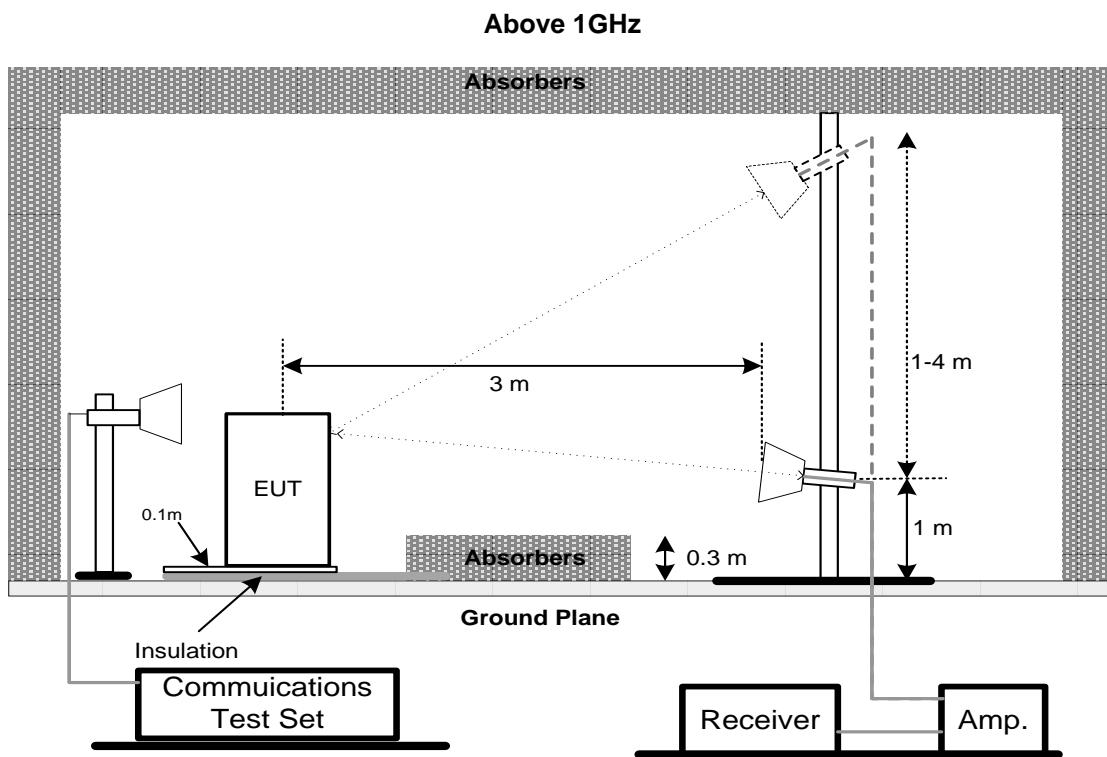
#### 4.1.3 TEST SETUP LAYOUT

##### Below 30MHz



##### 30MHz to 1000MHz





#### 4.1.4 TESTDEVIATION

No deviation.

#### 4.1.5 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the APPENDIX A.

#### 4.1.6 TEST RESULTS (30MHZ TO 1000MHZ)

Please refer to the APPENDIX B.

#### 4.1.7 TEST RESULTS (ABOVE 1000MHZ)

Please refer to the APPENDIX C.

## 5. 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 Dec. 06, 2025
3	Cable	N/A	RW4950-3.8A-N MSM-1.5	N/A	Nov. 12, 2025
4	Cable	N/A	LMR400-NMNM -8M	N/A	Nov. 12, 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. 06, 2025

Radiated Emissions - 30 MHz to 1 GHz_CB03					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB9168	587	May 12, 2025
2	Attenuator	SHX	TS2-6-6-A	240124196	May 12, 2025
3	Preamplifier	EMC INSTRUMENT	EMC001330	980998	May 31, 2025
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	MXE EMI Receiver	KEYSIGHT	N9038B	MY62210123	Oct. 29, 2025
8	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A
9	Positioning Controller	MF	MF-7802	N/A	N/A
10	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
11	966 Chamber room	CM	9*6*6	N/A	May 16, 2025
12	Broadband double ridged horn antenna	Regalway	RW10180-N	1911004	N/A
13	wideband radio communication tester	R&S	CMW500	152372	Dec. 06, 2025

Radiated Emissions - 30 MHz to 1 GHz_SSL-CB01					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB9168	01269	May 18, 2025
2	Attenuator	EMCI	EMCI-N-6-06	AN-N0697	May 18, 2025
3	MXE EMI Receiver	Keysight	N9038A	MY59050118	Jun. 28, 2025
4	Preamplifier	EMC INSTRUMENT	EMC001330	980825	Jan. 10, 2026
5	Cable	EMC INSTRUMENT	EMCCFD400-N M-NM-2500	N/A	Jun. 06, 2025
6	Cable	EMC INSTRUMENT	EMCCFD400-N M-NM-7000	N/A	Jun. 06, 2025
7	Cable	EMC INSTRUMENT	EMCCFD400-N M-NM-3000	N/A	Jun. 06, 2025
8	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
9	Attenuator	Talent Microwave	ATT-18G2W-10	N/A	N/A
10	966 Chamber room	Tai He	9*6*6 ( NSA&VSWR )	N/A	Jun. 06, 2025
11	Wideband Radio Communication Tester	R&S	CWM 500	165578	Jan. 19, 2025 Jan. 10, 2026

Radiated Emissions - Above 1 GHz_CB03					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Receiver	Agilent	N9038A	MY52130039	Jan. 10, 2026
2	Preamplifier	EMC INSTRUMENT	EMC118A45SE	980878	Nov. 25, 2025
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	Dec. 28, 2025
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	Filter	STI	STI15-9912	N/A	May 31, 2025
11	Filter	Wairwright Instruments GmbH	WHK 1.5/15G-10ST	N/A	Dec. 06, 2025
12	Broadband double ridged horn antenna	Regalway	RW10180-N	1911004	N/A
13	MXA Signal Analyzer	KEYSIGHT	N9020B	MY63380204	Oct. 29, 2025
14	Preamplifier	EMC INSTRUMENT	EMC184045SE	980905	Oct. 29, 2025
15	Cable	RegalWay	RWLP50-2.6A-2.92 M2.92M-1.1M	N/A	Jul. 25, 2025
16	Cable	Tonscend	HF160-KMKM-3M	N/A	Jul. 25, 2025
17	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170(3m)	9170-319	Jun. 16, 2025
18	wideband radio communication tester	R&S	CMW500	152372	Dec. 06, 2025

Radiated Emissions - Above 1 GHz_SSL-CB01					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	MXE EMI Receiver	Keysight	N9038A	MY59050118	Jun. 28, 2025
2	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
3	Preamplifier	EMC INSTRUMENT	EMC118A45SE	980739	Jan. 11, 2026
4	Cable	EMC INSTRUMENT	EMC104-SM-SM-1 0000	N/A	Dec. 09, 2025
5	Cable	EMC INSTRUMENT	EMC104-SM-SM-3 000	N/A	Dec. 09, 2025
6	Cable	EMC INSTRUMENT	EMC104-SM-SM-1 000	N/A	Dec. 09, 2025
7	Double Ridged Broadband Horn Antenna	RF SPIN	DRH18-E	210106A18E	Jul. 17, 2025
8	Preamplifier	EMC INSTRUMENT	EMC184045SE	980793	Jan. 10, 2026
9	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	01046	Jul. 22, 2025
10	Cable	RegalWay	RWLP50-3.6A-2.92 M2.92M-6M	20241119-001	Nov. 26, 2025
11	Cable	RegalWay	RWLP50-3.6A-2.92 M2.92M-0.8M	20241119-001	Nov. 26, 2025
12	Band Reject Filter	COM-MW	ZHPF6-C3000-180 00-174	7213126	Jun. 28, 2025
13	Band Reject Filter	COM-MW	ZHPF6-M1000-150 00-533	7213127	Jun. 28, 2025
14	966 Chamber room	Tai He	9*6*6 ( NSA&VSWR )	N/A	Jun. 06, 2025
15	Wideband Radio Communication Tester	R&S	CWM 500	165578	Jan. 19, 2025 Jan. 10, 2026

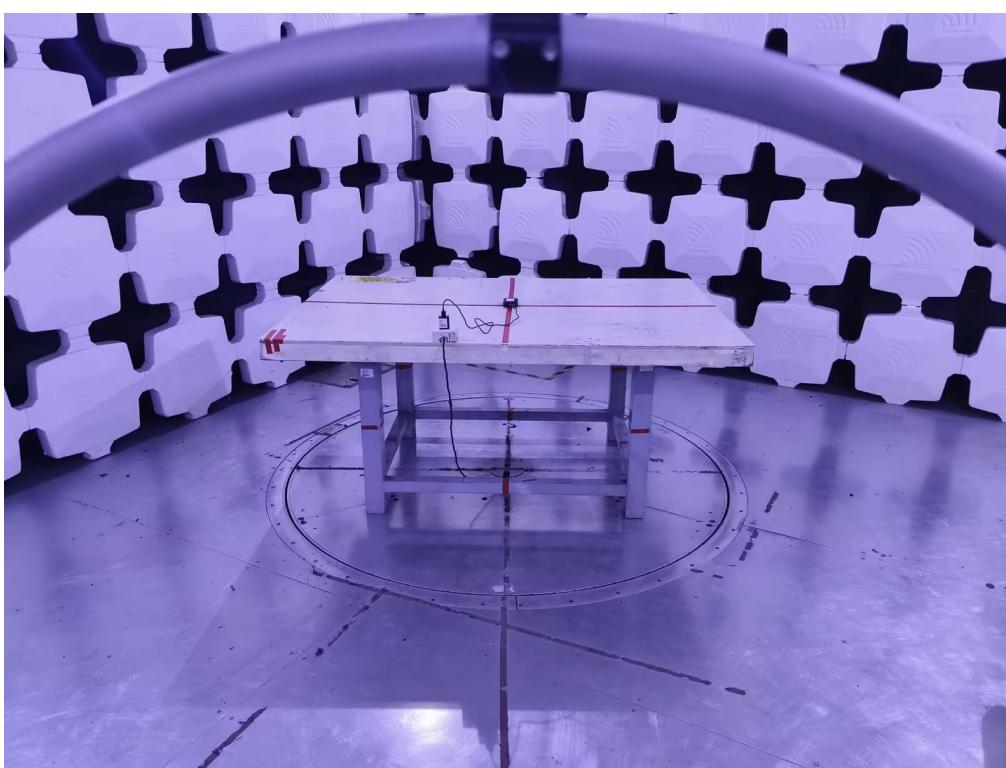
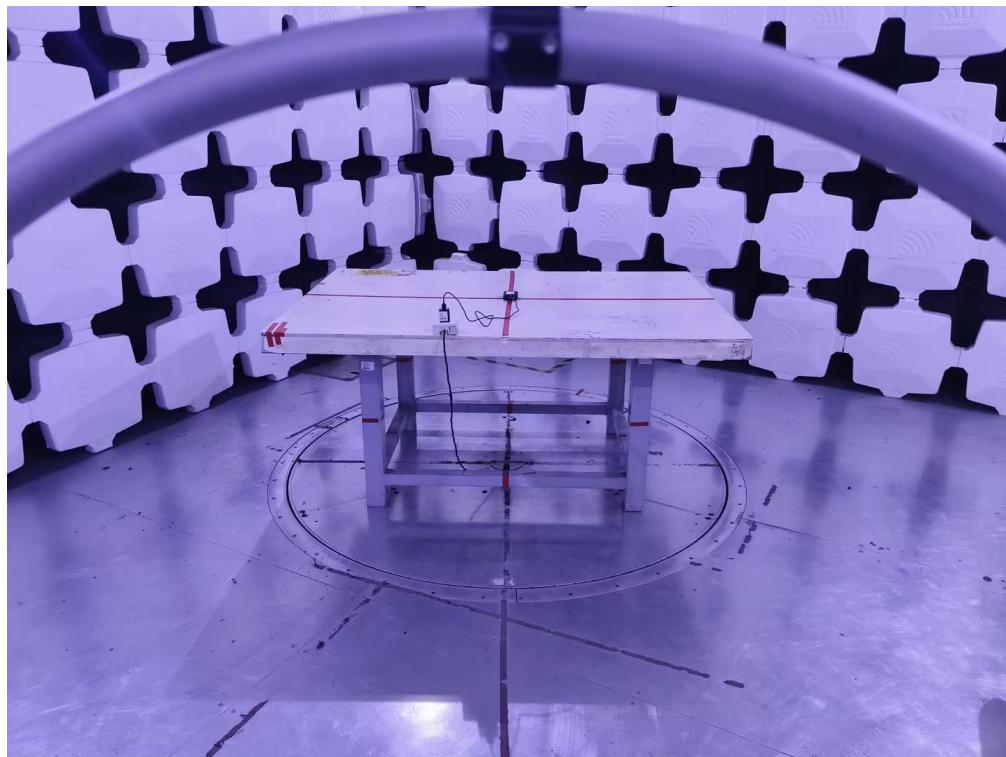
Remark: "N/A" denotes no model name, serial no. or calibration specified.

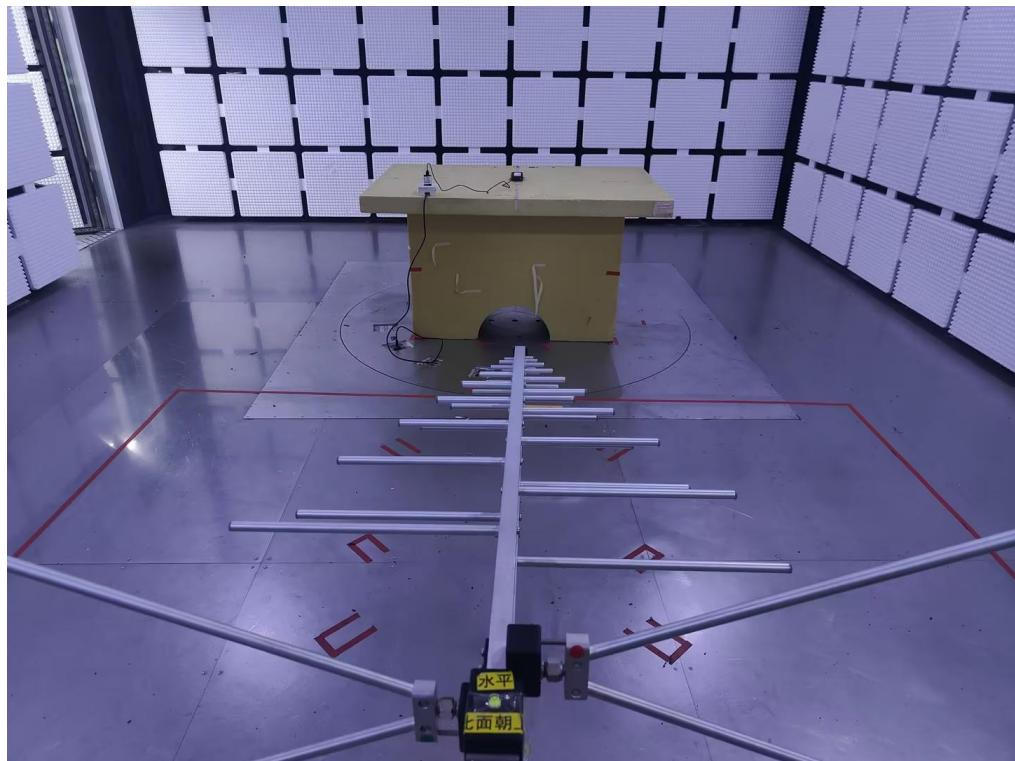
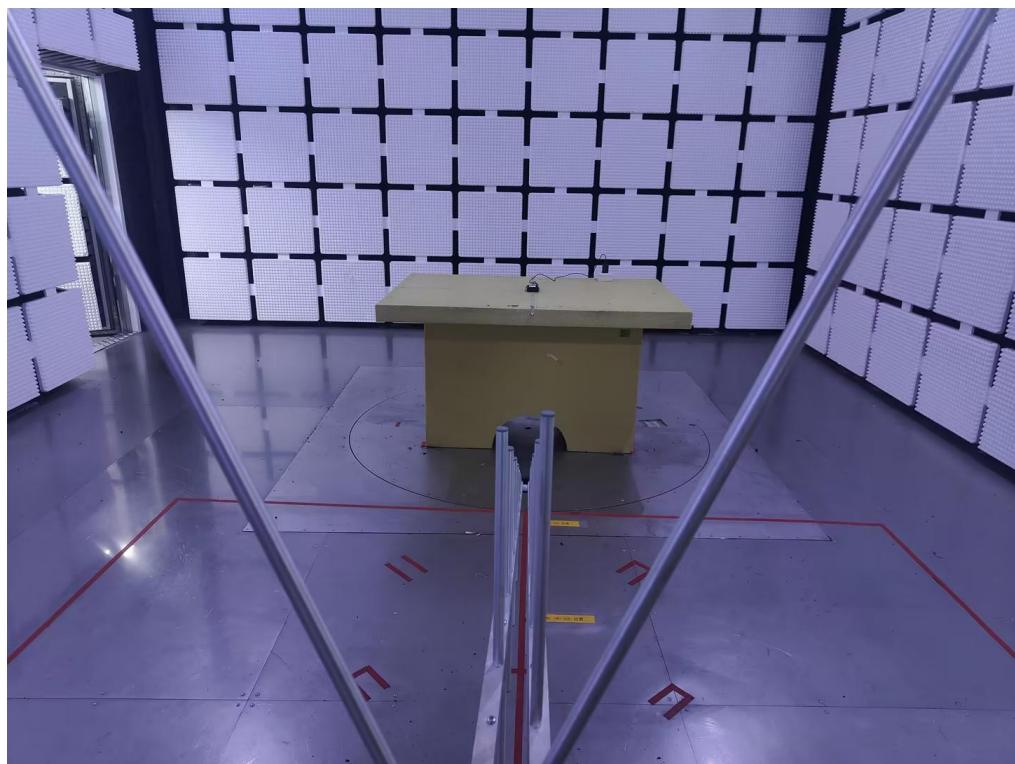
All calibration period of equipment list is one year.

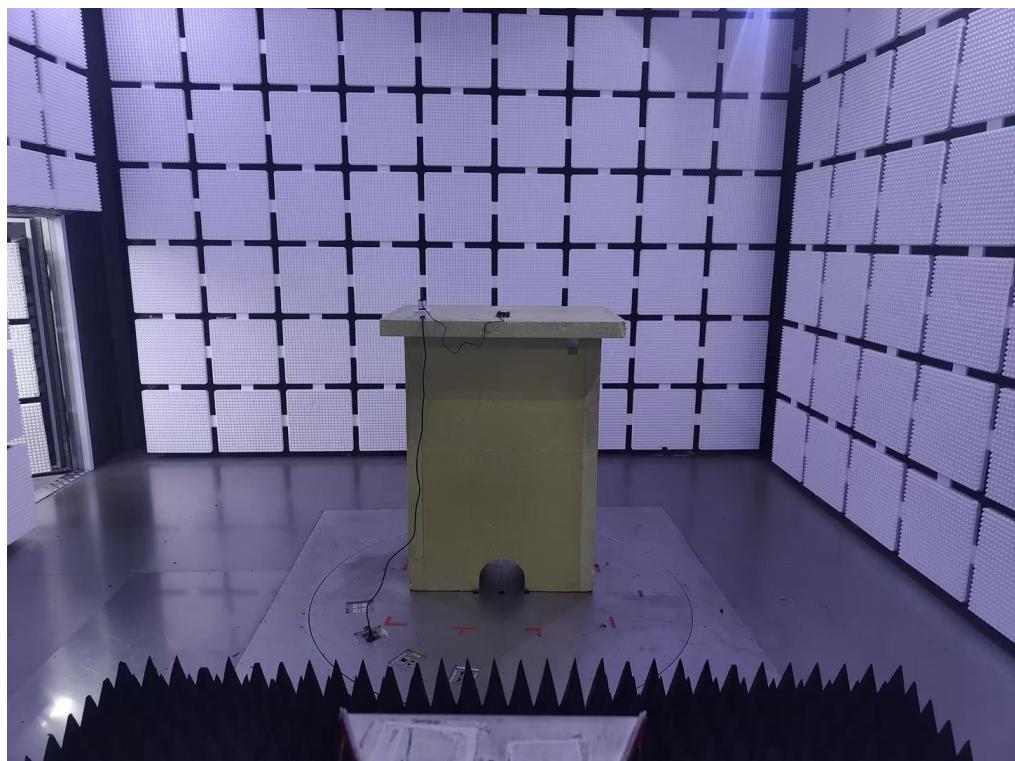
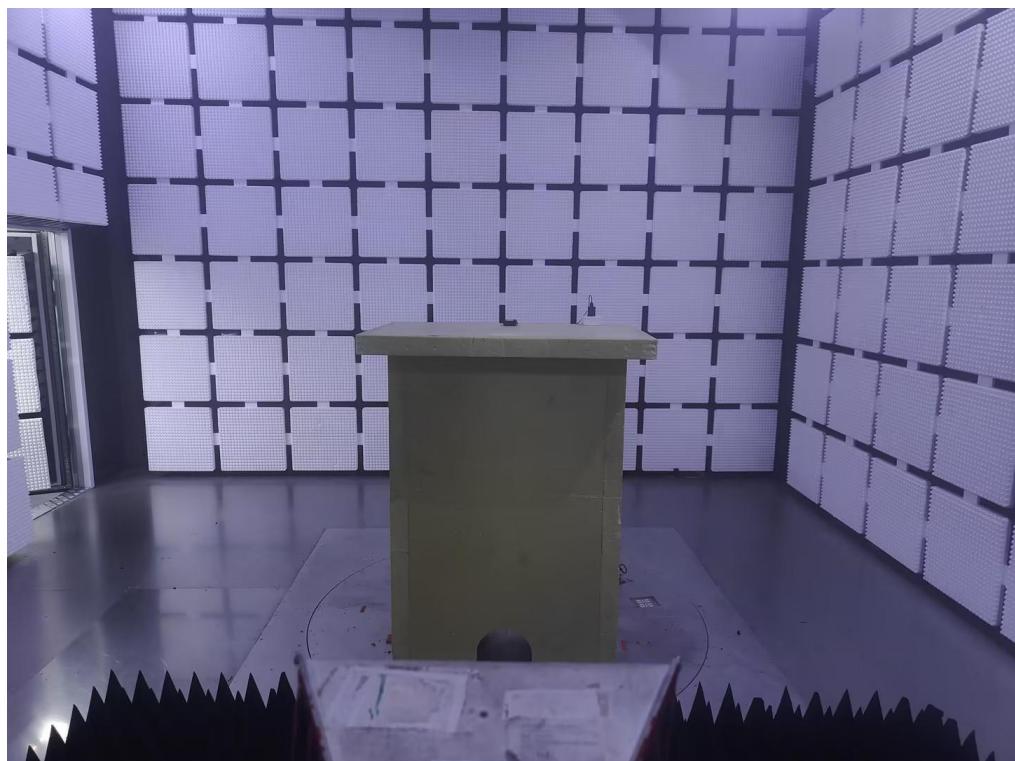
## 6. EUT TEST PHOTO

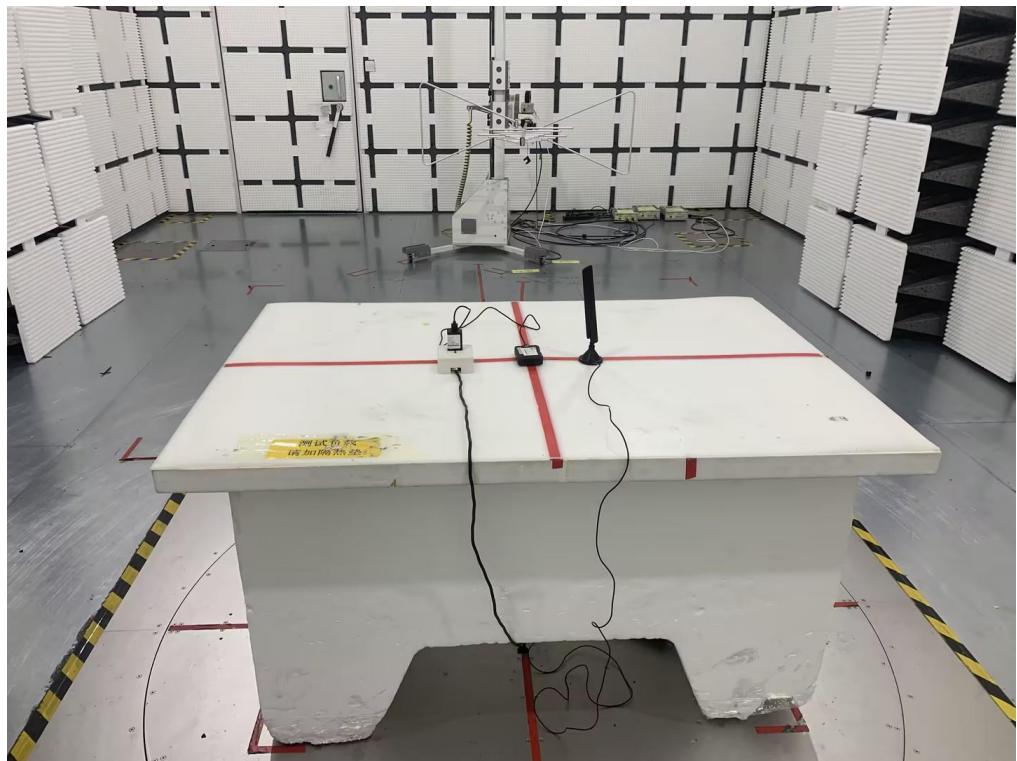
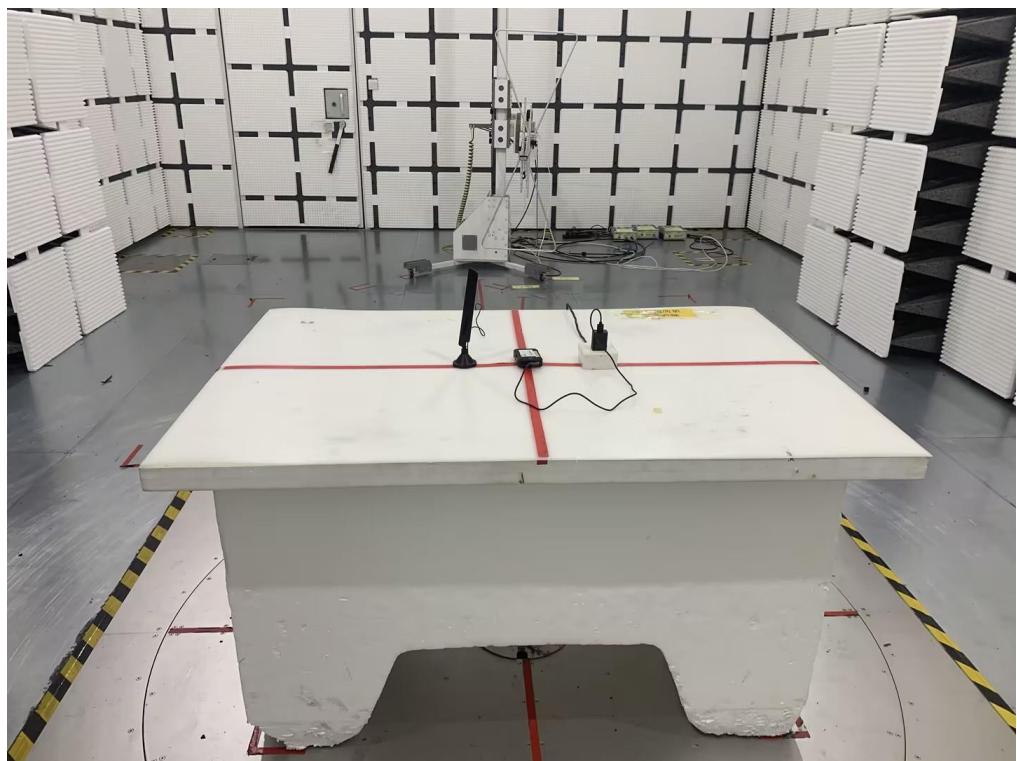
### Radiated Emissions Test Photos

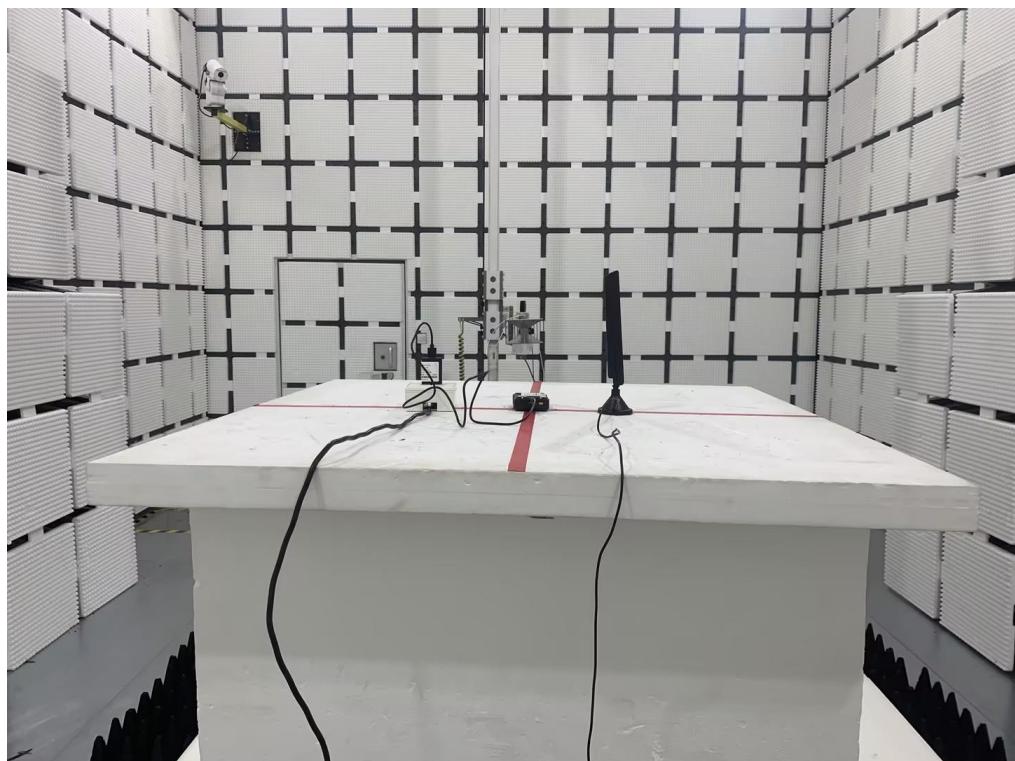
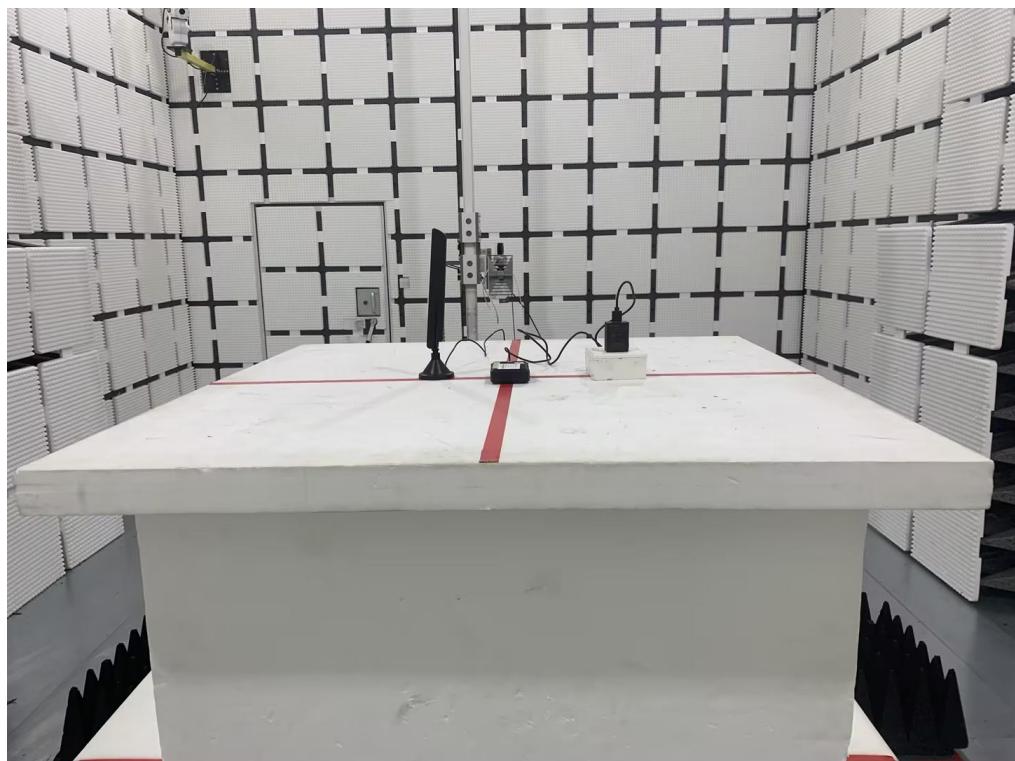
**9 kHz to 30 MHz**



**Radiated Emissions Test Photos****30 MHz to 1 GHz-CB03**

**Radiated Emissions Test Photos****1 GHz – 18 GHz-CB03**

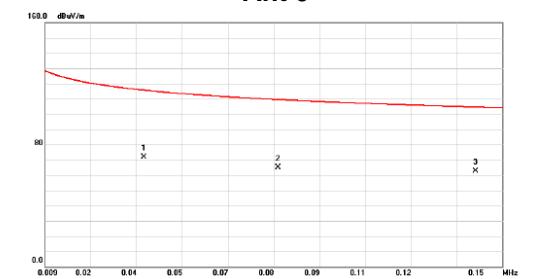
**Radiated Emissions Test Photos****30 MHz to 1 GHz-SSL CB01**

**Radiated Emissions Test Photos****1 GHz – 18 GHz-SSL CB01**

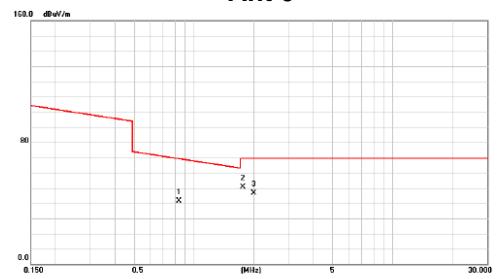
**APPENDIX A - RADIATED SPURIOUS EMISSIONS (9KHZ TO 30MHZ)**

Test Mode : TX Mode

Test Mode : TX Mode

**Ant 0°**


No. Mk.	Freq.	Reading Level	Correct Factor	Measurement		Limit	Margin	Detector	Comment
				MHz	dBuV	dB	dBuV/m	dB	
1	0.040	50.43	21.19	71.62	115.65	-44.03	AVG		
2	0.081	43.64	21.34	64.98	109.44	-44.46	AVG		
3 *	0.142	41.17	21.28	62.45	104.57	-42.12	QP		

**Ant 0°**


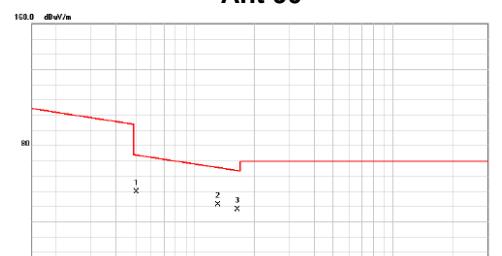
No. Mk.	Freq.	Reading Level	Correct Factor	Measurement		Limit	Margin	Detector	Comment
				MHz	dBuV	dB	dBuV/m	dB	
1	0.837	20.34	21.17	41.51	69.15	-27.64	QP		
2 *	1.762	29.58	21.13	50.71	69.54	-18.83	QP		
3	2.001	25.45	21.11	46.56	69.54	-22.98	QP		

Test Mode : TX Mode

Test Mode : TX Mode

**Ant 90°**


No. Mk.	Freq.	Reading Level	Correct Factor	Measurement		Limit	Margin	Detector	Comment
				MHz	dBuV	dB	dBuV/m	dB	
1 *	0.072	47.29	21.31	68.60	110.45	-41.85	AVG		
2	0.101	43.64	21.34	64.98	107.49	-42.51	QP		
3	0.147	39.18	21.27	60.45	104.24	-43.79	QP		

**Ant 90°**


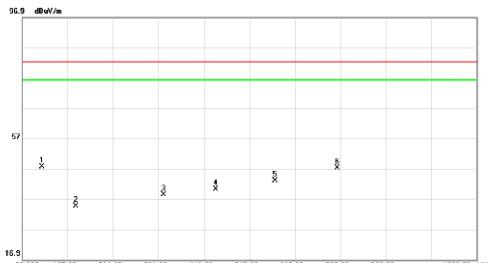
No. Mk.	Freq.	Reading Level	Correct Factor	Measurement		Limit	Margin	Detector	Comment
				MHz	dBuV	dB	dBuV/m	dB	
1 *	0.508	28.48	21.06	49.54	73.48	-23.94	QP		
2	1.314	19.93	21.17	41.10	65.23	-24.13	QP		
3	1.643	16.74	21.15	37.89	63.29	-25.40	QP		

**APPENDIX B - RADIATED SPURIOUS EMISSIONS (30MHZ TO 1000MHZ)**

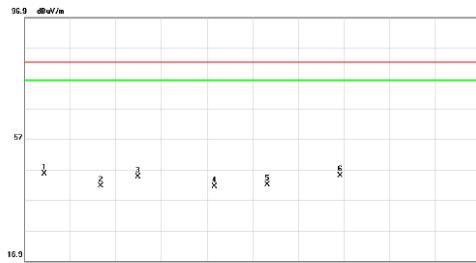
**For eMTC:**

Test Mode : LTE Band 26\_TX CH26740\_1.4MHz

Test Mode : LTE Band 26\_TX CH26740\_1.4MHz

**Vertical**


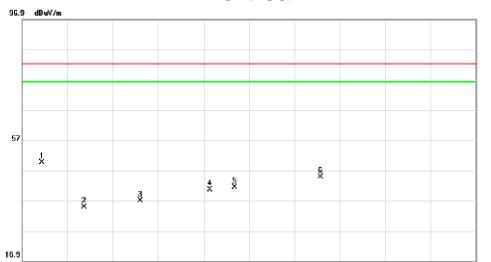
No.	Mk.	Freq. MHz	Reading dbuv	Correct Factor	Measure- ment dbuv/m	Limit dbuv/m	Margin db	Detector	Comment
1	*	71.710	51.19	-3.60	47.59	82.30	-34.71	peak	
2		143.975	36.09	-1.44	34.65	82.30	-47.65	peak	
3		332.155	37.97	0.50	38.47	82.30	-43.83	peak	
4		443.705	36.93	3.23	40.16	82.30	-42.14	peak	
5		569.320	37.40	5.58	42.98	82.30	-39.32	peak	
6		703.180	39.75	7.55	47.30	82.30	-35.00	peak	

**Horizontal**


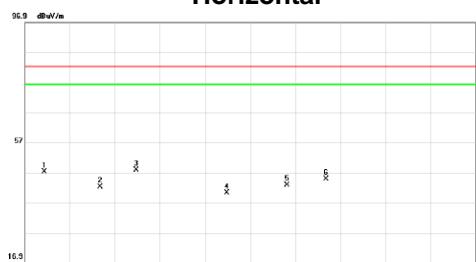
No.	Mk.	Freq. MHz	Reading dbuv	Correct Factor	Measure- ment dbuv/m	Limit dbuv/m	Margin db	Detector	Comment
1	*	71.710	49.22	-3.60	45.62	82.30	-36.68	peak	
2		191.990	45.22	-3.66	41.56	82.30	-40.74	peak	
3		270.560	46.09	-1.44	44.65	82.30	-37.65	peak	
4		434.490	38.52	2.96	41.48	82.30	-40.82	peak	
5		547.010	37.00	5.04	42.04	82.30	-40.26	peak	
6		701.725	37.50	7.51	45.01	82.30	-37.29	peak	

Test Mode : LTE Band 26\_TX CH26740\_5MHz

Test Mode : LTE Band 26\_TX CH26740\_5MHz

**Vertical**


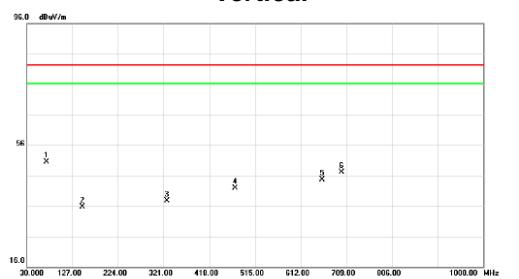
No.	Mk.	Freq. MHz	Reading dbuv	Correct Factor	Measure- ment dbuv/m	Limit dbuv/m	Margin db	Detector	Comment
1	*	72.195	53.33	-3.70	49.63	82.30	-32.67	peak	
2		162.405	35.88	-1.13	34.75	82.30	-47.55	peak	
3		282.200	37.82	-0.81	37.01	82.30	-45.29	peak	
4		431.095	37.68	2.86	40.54	82.30	-41.76	peak	
5		484.930	37.44	3.95	41.39	82.30	-40.91	peak	
6		668.745	37.38	7.45	44.83	82.30	-37.47	peak	

**Horizontal**


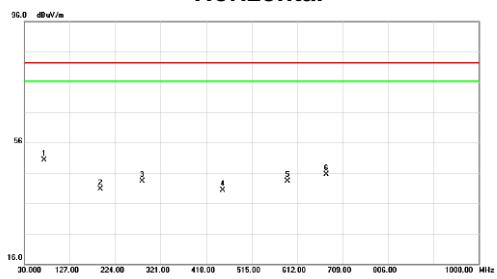
No.	Mk.	Freq. MHz	Reading dbuv	Correct Factor	Measure- ment dbuv/m	Limit dbuv/m	Margin db	Detector	Comment
1		72.195	50.86	-3.70	47.16	82.30	-35.14	peak	
2		191.990	45.79	-3.66	42.13	82.30	-40.17	peak	
3	*	270.075	49.24	-1.47	47.77	82.30	-34.53	peak	
4		465.045	36.60	3.64	40.24	82.30	-42.06	peak	
5		595.025	36.65	6.20	42.85	82.30	-39.45	peak	
6		678.445	37.38	7.44	44.82	82.30	-37.48	peak	

Test Mode : LTE Band 26\_TX CH26740\_10MHz

Test Mode : LTE Band 26\_TX CH26740\_10MHz

**Vertical**


No.	Mk.	Freq.	Reading	Correct	Measure-	Margin				
			MHz	dBuV	Factor	dBuV/m	dBuV/m	dB	Detector	Comment
1 *		71.710	54.18	-3.60		50.58	62.30	-31.72	peak	
2		148.825	36.83	-1.17		35.66	62.30	-46.64	peak	
3		328.275	37.26	0.41		37.67	62.30	-44.63	peak	
4		473.290	38.04	3.77		41.81	62.30	-40.49	peak	
5		658.075	37.35	7.45		44.80	62.30	-37.50	peak	
6		699.785	39.70	7.45		47.15	62.30	-35.15	peak	

**Horizontal**


No.	Mk.	Freq.	Reading	Correct	Measure-	Margin				
			MHz	dBuV	Factor	dBuV/m	dBuV/m	dB	Detector	Comment
1 *		71.710	53.92	-3.60		50.32	82.30	-31.98	peak	
2		191.990	44.39	-3.66		40.73	82.30	-41.57	peak	
3		281.715	44.16	-0.82		43.34	82.30	-38.96	peak	
4		453.890	36.92	3.48		40.40	82.30	-41.90	peak	
5		591.630	37.16	6.13		43.29	82.30	-39.01	peak	
6		674.565	38.10	7.44		45.54	82.30	-36.76	peak	

**For NB-IoT:**

Test Mode : LTE Band 26\_TX CH26740\_3.75kHz

Test Mode : LTE Band 26\_TX CH26740\_3.75kHz

**Vertical**

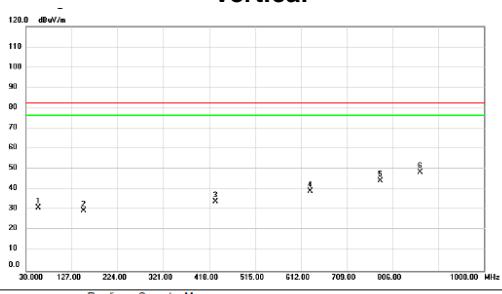

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement		Limit	Margin	Detector	Comment
					MHz	dBuV	dB	dBuV/m	dBuV/m	dB
1	56.6750	37.60	-1.83	35.77	62.30	-46.53	peak			
2	164.3450	31.06	-1.35	29.71	62.30	-52.59	peak			
3	572.7150	31.95	6.22	38.17	62.30	-44.13	peak			
4	692.9950	33.62	8.55	42.17	62.30	-40.13	peak			
5 *	864.2000	36.92	10.85	49.77	62.30	-32.53	peak			
6	963.1400	31.42	12.20	43.62	62.30	-38.68	peak			

**Horizontal**


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement		Limit	Margin	Detector	Comment
					MHz	dBuV	dB	dBuV/m	dBuV/m	dB
1	61.0400	31.91	-2.25	29.66	82.30	-52.64	peak			
2	161.9200	31.12	-1.25	29.87	82.30	-52.43	peak			
3	692.9950	36.94	8.55	45.49	82.30	-36.81	peak			
4 *	864.2000	39.99	10.85	50.84	82.30	-31.46	peak			
5	944.7100	34.39	12.06	46.45	82.30	-35.85	peak			
6	983.5100	31.27	12.25	43.52	82.30	-38.78	peak			

Test Mode : LTE Band 26\_TX CH26740\_15kHz

Test Mode : LTE Band 26\_TX CH26740\_15kHz

**Vertical**


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement		Limit	Margin	Detector	Comment
					MHz	dBuV	dB	dBuV/m	dBuV/m	dB
1	56.1900	32.84	-1.79	31.05	82.30	-51.25	peak			
2	152.2200	30.88	-1.26	29.62	82.30	-52.68	peak			
3	431.5800	31.07	2.96	34.03	82.30	-48.27	peak			
4	631.4000	31.61	7.65	39.26	82.30	-43.04	peak			
5	780.2950	34.09	10.22	44.31	82.30	-37.99	peak			
6 *	864.2000	37.59	10.85	48.44	82.30	-33.86	peak			

**Horizontal**

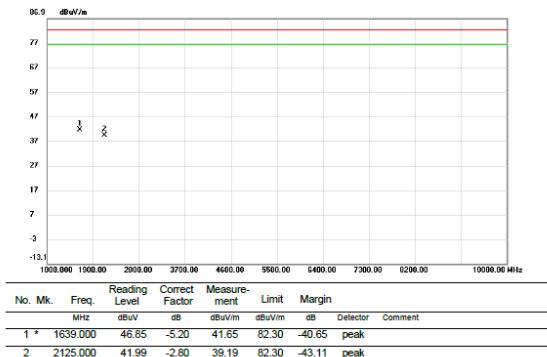

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement		Limit	Margin	Detector	Comment
					MHz	dBuV	dB	dBuV/m	dBuV/m	dB
1	56.6750	32.09	-1.83	30.26	82.30	-52.04	peak			
2	175.0150	31.30	-2.05	29.25	82.30	-53.05	peak			
3	711.9100	31.51	8.90	40.41	82.30	-41.89	peak			
4 *	864.2000	41.98	10.85	52.83	82.30	-29.47	peak			
5	951.5000	31.10	12.17	43.27	82.30	-39.03	peak			
6	997.0900	32.10	12.28	44.38	82.30	-37.92	peak			

**APPENDIX C - RADIATED SPURIOUS EMISSIONS (ABOVE 1000MHZ)**

**For eMTC:**

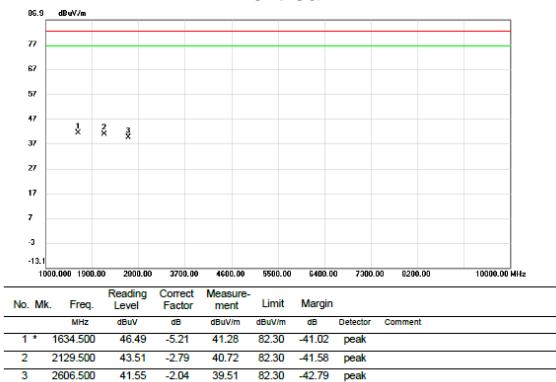
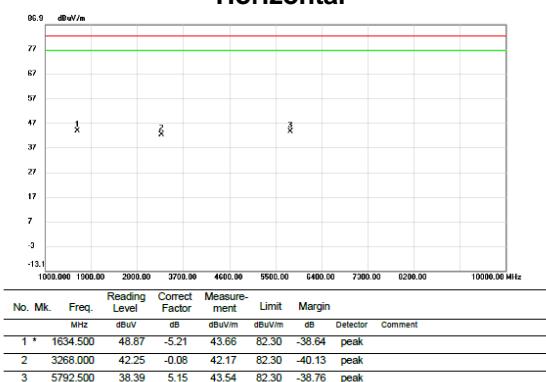
Test Mode : LTE Band 26\_TX CH26740\_1.4MHz

Test Mode : LTE Band 26\_TX CH26740\_1.4MHz

**Vertical**

**Horizontal**


Test Mode : LTE Band 26\_TX CH26740\_5M

Test Mode : LTE Band 26\_TX CH26740\_5M

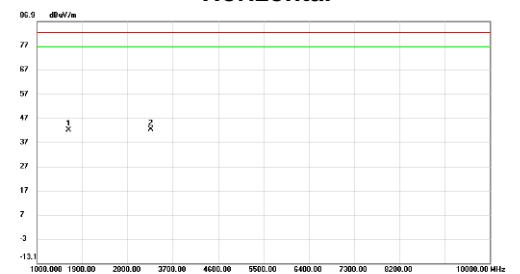
**Vertical**

**Horizontal**


Test Mode : LTE Band 26\_TX CH26740\_10MHz

Test Mode : LTE Band 26\_TX CH26740\_10MHz

**Vertical**


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	1630.000	47.00	-5.25	41.75	82.30	-40.55	peak	
2		2125.000	41.88	-2.80	39.08	82.30	-43.22	peak	

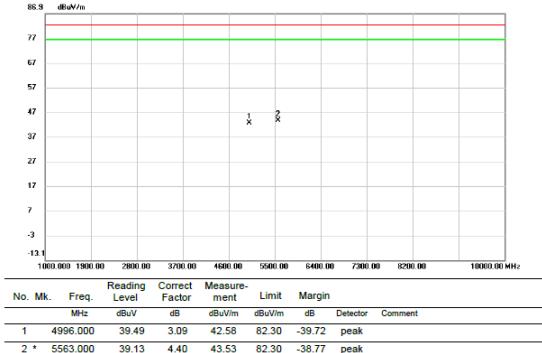
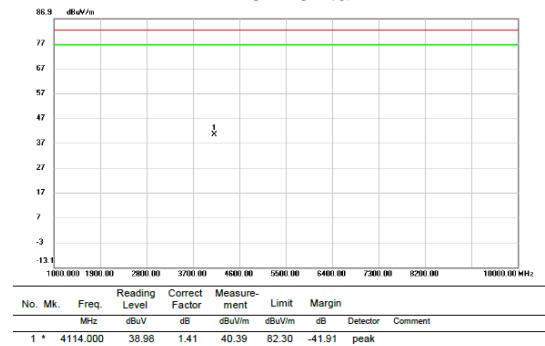
**Horizontal**


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		1630.000	47.39	-5.25	42.14	82.30	-40.16	peak	
2	*	3259.000	42.45	-0.11	42.34	82.30	-39.96	peak	

**For NB-IoT:**

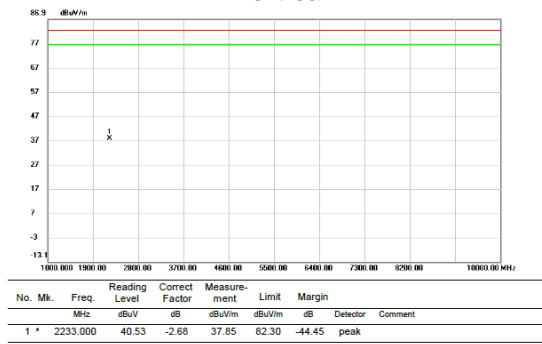
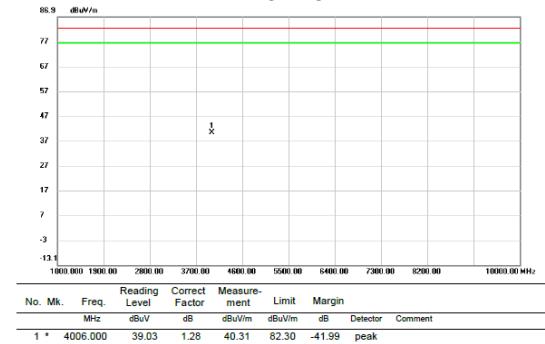
Test Mode : LTE Band 26\_TX CH26740\_3.75kHz

Test Mode : LTE Band 26\_TX CH26740\_3.75kHz

**Vertical**

**Horizontal**


Test Mode : LTE Band 26\_TX CH26740\_15kHz

Test Mode : LTE Band 26\_TX CH26740\_15kHz

**Vertical**

**Horizon**

**End of Test Report**