

RF TEST REPORT

Report No.: DDT-B22030103-1E01

Applicant	:	TCL Communication Ltd.
Applicant Address	:	7/F, Block F4, TCL Communication Technology Building, TCL International E City, Zhong Shan Yuan Road, Nanshan District, Shenzhen, Guangdong, P.R. China 518052
Equipment Under Test	:	LTE/WCDMA/GSM mobile phone
Model No.	:	5053A
Trade Mark	:	alcatel
FCC ID	:	2ACCJH105
Manufacturer	:	TCL Communication Ltd.
Manufacturer Address	:	7/F, Block F4, TCL Communication Technology Building, TCL International E City, Zhong Shan Yuan Road, Nanshan District, Shenzhen, Guangdong, P.R. China 518052

Issued By: Tianjin Dongdian Testing Service Co., Ltd.

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REPORT

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Test Report Declare

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Test Standard Used:

FCC Rules and Regulations: 47 CFR Part2, Part22, Part24, Part27

Test Procedure Used:

ANSI C63.26:2015, KDB 971168 D01 v03r01

We Declare:

The equipment described above is tested by Tianjin Dongdian Testing Service Co., Ltd and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Tianjin Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC standards.

Report No:	DDT-B22030103-1E01		
Date of Receipt:	Mar. 1, 2022	Date of Test:	Mar. 1, 2022 ~ Mar. 9, 2022

Prepared By:

Leon Li

Leon Li/Engineer

Approved By:

Aaron Zhang

Aaron Zhang/EMC Manager



Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Tianjin Dongdian Testing Service Co., Ltd.

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

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Mar. 9, 2022	

1. Summary of Test Results

1.1. GSM1900 / UMTS Band2 / LTE Band2

Summary of Test Results			
Test Item	Standard	Requirements	Result
Effective (Isotropic) Radiated Power	FCC §2.1046, §24.232	EIRP: ≤2W	Pass ¹
Peak-to-Average Ratio	FCC §2.1046, §24.232	Limit: ≤13dB	Pass ¹
Modulation Characteristics	FCC §2.1047	Digital modulation	Pass ¹
Occupied Bandwidth	§2.1049	No limit	Pass ¹
Band Edges Compliance	FCC §2.1051, §24.238	Limit: ≤ P(dBm)- [43 + 10 log(P(w))] dBm/1Mhz	Pass ¹
Spurious Emission at Antenna Terminals	FCC §2.1051, §24.238	Limit: ≤ P(dBm)- [43 + 10 log(P(w))] dBm/1Mhz	Pass ¹
Field Strength of Spurious Radiation	FCC §2.1053, §24.238	Limit: ≤ P(dBm)- [43 + 10 log(P(w))] dBm/1Mhz	Pass ²
Frequency Stability	FCC §2.1055, §24.235	Emission must remain in band	Pass ¹
Note 1: The above "pass ¹ " items data are refer from the original report issued by SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch. (Date of Test: 2019/2/22 ~2019/3/7). The detailed data can refer to Appendix B.1-GSM850 & GSM1900 and Appendix B.2-WCDMA BAND II & IV & V and Appendix B.3-LTE Band 2. Note2: The above "pass ² " item is tested by Tianjin Dongdian Testing Service Co., Ltd.			

1.2. LTE Band4 / Band66

Summary of Test Results			
Test Item	Standard	Requirements	Result
Effective (Isotropic) Radiated Power	FCC §2.1046, §27.50	EIRP: ≤1W	Pass ¹
Peak-to-Average Ratio	FCC §2.1046, §27.50	Limit: ≤13dB	Pass ¹
Modulation Characteristics	FCC §2.1047	Digital modulation	Pass ¹
Occupied Bandwidth	FCC §2.1049	No limit	Pass ¹
Band Edges Compliance	FCC §2.1051, §27.53	Limit: ≤ P(dBm)- [43 + 10 log(P(w))] dBm/1MHz	Pass ¹
Spurious Emission at Antenna Terminals	FCC §2.1051, §27.53	Limit: ≤ P(dBm)- [43 + 10 log(P(w))] dBm/1MHz	Pass ¹
Field Strength of Spurious Radiation	FCC §2.1053, §27.53	Limit: ≤ P(dBm)- [43 + 10 log(P(w))] dBm/1MHz	Pass ²
Frequency Stability	FCC §2.1055, §27.54	Emission must remain in band	Pass ¹

Note 1:

The above "pass¹" items data are refer from the original report issued by SGS-CSTC Standards Technical Services, Co., Ltd. Shenzhen Branch. (Date of Test: 2019/2/22 ~2019/3/7). The detailed data can refer to Appendix B.4-LTE Band 4 and Appendix B.10-LTE Band 66.

Note2:

The above "pass²" item is tested by Tianjin Dongdian Testing Service Co., Ltd.

1.3. GSM850 / UMTS Band5 / LTE Band5

Summary of Test Results			
Test Item	Standard	Requirements	Result
Effective (Isotropic) Radiated Power	FCC §2.1046, §22.913	ERP: ≤ 7W	Pass ¹
Peak-to-Average Ratio	FCC §2.1046	Limit: ≤13dB	Pass ¹
Modulation Characteristics	FCC §2.1047	Digital modulation	Pass ¹
Occupied Bandwidth	FCC §2.1049	No limit	Pass ¹
Band Edges Compliance	FCC §2.1051, §22.917	Limit: 1) ≤ P(dBm)- [43 + 10 log(P (w))] dBm/100kHz(Below 1GHz) 2) ≤ P(dBm)- [43 + 10 log(P (w))] dBm/1MHz(Above 1GHz)	Pass ¹
Spurious Emission at Antenna Terminals	FCC §2.1051, §22.917	Limit: 1) ≤ P(dBm)- [43 + 10 log(P (w))] dBm/100kHz(Below 1GHz) 2) ≤ P(dBm)- [43 + 10 log(P (w))] dBm/1MHz(Above 1GHz)	Pass ¹
Field Strength of Spurious Radiation	FCC §2.1053, §22.917	Limit: 1) ≤ P(dBm)- [43 + 10 log(P (w))] dBm/100kHz(Below 1GHz) 2) ≤ P(dBm)- [43 + 10 log(P (w))] dBm/1MHz(Above 1GHz)	Pass ²
Frequency Stability	FCC §2.1055, §22.355	Δ: <±2.5ppm	Pass ¹

Note 1:
The above "pass¹" items data are refer from the original report issued by SGS-CSTC Standards Technical Services, Co., Ltd. Shenzhen Branch. (Date of Test: 2019/2/22 ~2019/3/7). The detailed data can refer to Appendix B.1-GSM850 & GSM1900 and Appendix B.2-WCDMA BAND II & IV & V and Appendix B.5-LTE Band 5.

Note2:
The above "pass²" item is tested by Tianjin Dongdian Testing Service Co., Ltd.

1.4. LTE Band7

Summary of Test Results			
Test Item	Standard	Requirements	Result
Effective (Isotropic) Radiated Power	FCC §2.1046, §27.50	EIRP: ≤2W	Pass ¹
Peak-to-Average Ratio	FCC §2.1046, §27.50	Limit: ≤13dB	Pass ¹
Modulation Characteristics	FCC §2.1047	Digital modulation	Pass ¹
Occupied Bandwidth	FCC §2.1049	FCC: No limit	Pass ¹
Band Edges Compliance	FCC §2.1051, §27.53	Limit: 1) ≤ P(dBm)- [40 + 10 log(P (w))] dBm/1MHz between the channel edge and 5 megahertz from the channel edge,	Pass ¹

		$2) \leq P(\text{dBm}) - [43 + 10 \log(P(\text{W}))]$ dBm/1MHz between 5 megahertz and X megahertz from the channel edge and between 2490.5 MHz and 2496 MHz, $X = \text{Max}\{6\text{MHz}, \text{EBW}\}$ $3) \leq P(\text{dBm}) - [55 + 10 \log(P(\text{W}))]$ dBm/1MHz on all frequencies more than X megahertz from the channel edge and or below 2490.5 MHz.	
Spurious Emission at Antenna Terminals	FCC §2.1051, §27.53	Limit: $1) \leq P(\text{dBm}) - [40 + 10 \log(P(\text{W}))]$ dBm/1MHz between the channel edge and 5 megahertz from the channel edge, $2) \leq P(\text{dBm}) - [43 + 10 \log(P(\text{W}))]$ dBm/1MHz between 5 megahertz and X megahertz from the channel edge and between 2490.5 MHz and 2496 MHz, $X = \text{Max}\{6\text{MHz}, \text{EBW}\}$ $3) \leq P(\text{dBm}) - [55 + 10 \log(P(\text{W}))]$ dBm/1MHz on all frequencies more than X megahertz from the channel edge and or below 2490.5 MHz.	Pass ¹
Field Strength of Spurious Radiation	FCC §2.1053, §27.53	Limit: $1) \leq P(\text{dBm}) - [40 + 10 \log(P(\text{W}))]$ dBm/1MHz between the channel edge and 5 megahertz from the channel edge, $2) \leq P(\text{dBm}) - [43 + 10 \log(P(\text{W}))]$ dBm/1MHz between 5 megahertz and X megahertz from the channel edge and between 2490.5 MHz and 2496 MHz, $X = \text{Max}\{6\text{MHz}, \text{EBW}\}$ $3) \leq P(\text{dBm}) - [55 + 10 \log(P(\text{W}))]$ dBm/1MHz on all frequencies more than X megahertz from the channel edge and or below 2490.5 MHz.	Pass ²
Frequency Stability	FCC §2.1055, §27.54	Emission must remain in band	Pass ¹
Note 1: The above "pass ¹ " items data are refer from the original report issued by SGS-CSTC Standards Technical Services, Co., Ltd. Shenzhen Branch. (Date of Test: 2019/2/22 ~2019/3/7). The detailed data can refer to Appendix B.6-LTE Band 7. Note2: The above "pass ² " item is tested by Tianjin Dongdian Testing Service Co., Ltd.			

1.5. LTE Band12 / Band17

Summary of Test Results			
Test Item	Standard	Requirements	Result
Effective (Isotropic) Radiated Power	FCC §2.1046, §27.50	ERP: ≤3W	Pass ¹
Peak-to-Average Ratio	FCC §2.1046, §27.50	Limit: ≤13dB	Pass ¹
Modulation Characteristics	FCC §2.1047	Digital modulation	Pass ¹

Occupied Bandwidth	FCC §2.1049	No limit	Pass ¹
Band Edges Compliance	FCC §2.1051, §27.53	Limit: $\leq P(\text{dBm}) - [43 + 10 \log(P(w))]$ dBm/100KHz	Pass ¹
Spurious Emission at Antenna Terminals	FCC §2.1051, §27.53	Limit: $\leq P(\text{dBm}) - [43 + 10 \log(P(w))]$ dBm/100KHz	Pass ¹
Field Strength of Spurious Radiation	FCC §2.1053, §27.53	Limit: $\leq P(\text{dBm}) - [43 + 10 \log(P(w))]$ dBm/100KHz	Pass ²
Frequency Stability	FCC §2.1055, §27.54	Emission must remain in band	Pass ¹

Note 1:

The above "pass¹" items data are refer from the original report issued by SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch. (Date of Test: 2019/2/22 ~2019/3/7). The detailed data can refer to Appendix B.7-LTE Band 12 and Appendix B.9-LTE Band 17.

Note2:

The above "pass²" item is tested by Tianjin Dongdian Testing Service Co., Ltd.

1.6. LTE Band13

Summary of Test Results			
Test Item	Standard	Requirements	Result
Effective (Isotropic) Radiated Power	FCC §2.1046, §27.50	ERP: $\leq 3W$	Pass ¹
Peak-to-Average Ratio	FCC §2.1046, §27.50	Limit: $\leq 13\text{dB}$	Pass ¹
Modulation Characteristics	FCC §2.1047	Digital modulation	Pass ¹
Occupied Bandwidth	FCC §2.1049	No limit	Pass ¹
Band Edges Compliance	FCC §2.1051, §27.53	Limit: 1) $\leq P(\text{dBm}) - [43 + 10 \log(P(w))]$ dBm/100kHz on any frequency outside the 776-788 MHz band. 2) $\leq P(\text{dBm}) - [65 + 10 \log(P(w))]$ dBm/6.25kHz on all frequencies between 763-775 MHz and 793-805 MHz 3) EIRP: $\leq -70\text{dBW/MHz}$ (wideband) on 1559-1610MHz. 4) EIRP: $\leq -80\text{dBW}$ (narrowband <700Hz) on 1559-1610MHz.	Pass ¹
Spurious Emission at Antenna Terminals	FCC §2.1051, §27.53	Limit: 1) $\leq P(\text{dBm}) - [43 + 10 \log(P(w))]$ dBm/100kHz on any frequency outside the 776-788 MHz band. 2) $\leq P(\text{dBm}) - [65 + 10 \log(P(w))]$ dBm/6.25kHz on all frequencies between 763-775 MHz and 793-805 MHz 3) EIRP: $\leq -70\text{dBW/MHz}$ (wideband) on 1559-1610MHz. 4) EIRP: $\leq -80\text{dBW}$ (narrowband <700Hz) on 1559-1610MHz.	Pass ¹
Field Strength of Spurious Radiation	FCC §2.1053, §27.53	Limit: 1) $\leq P(\text{dBm}) - [43 + 10 \log(P(w))]$ dBm/100kHz on any frequency outside the 776-788 MHz band. 2) $\leq P(\text{dBm}) - [65 + 10 \log(P(w))]$ dBm/6.25kHz on all frequencies between	Pass ²

		763-775 MHz and 793-805 MHz 3)EIRP: ≤-70dBW/MHz (wideband) on1559-1610MHz. 4)EIRP: ≤-80dBW(narrowband <700Hz) on1559-1610MHz.	
Frequency Stability	FCC §2.1055, §27.54	Emission must remain in band	Pass ¹
Note 1: The above “pass¹” items data are refer from the original report issued by SGS-CSTC Standards Technical Services, Co., Ltd. Shenzhen Branch. (Date of Test: 2019/2/22 ~2019/3/7). The detailed data can refer to Appendix B.8-LTE Band 13. Note2: The above “pass²” item is tested by Tianjin Dongdian Testing Service Co., Ltd.			

2. General Test Information

2.1. Description of EUT

EUT Description	LTE/WCDMA/GSM mobile phone									
Model Number	5053A									
Trade Mark	LG									
IMEI	355249100343098									
Serial Number	N/A									
Hardware Version	PIO									
Software Version	v3FT8									
Sample Type	Portable Device									
Frequency band	GSM	Tx (MHz)		Rx (MHz)	Supported Channel Bandwidth					
	GSM850	824-849		869-894	0.2MHz					
	GSM1900	1850-1910		1930-1990	0.2MHz					
	UMTS	Tx (MHz)		Rx (MHz)	Supported Channel Bandwidth					
	Band II	1850-1910		1930-1990	5MHz					
	Band IV	1710-1755		2110-2155	5MHz					
	Band V	824-849		869-894	5MHz					
	E-UTRA LTE	Duplex Mode	Tx (MHz)	Rx (MHz)	Supported Channel Bandwidth					
					1.4	3	5	10	15	20
	Band 2	FDD	1850-1910	1930-1990	☑	☑	☑	☑	☑	☑
	Band 4	FDD	1710-1755	2110-2155	☑	☑	☑	☑	☑	☑
	Band 5	FDD	824-849	869-894	☑	☑	☑	☑	---	---
	Band 7	FDD	2500-2570	2620-2690	---	---	☑	☑	☑	☑
	Band 12	TDD	699-716	729-746	☑	☑	☑	☑	---	---
	Band 13	FDD	777-787	746-756	---	---	☑	☑	---	---
	Band 17	FDD	704-716	734-746	---	---	☑	☑	---	---
	Band 66	TDD	1710-1780	2110-2200	☑	☑	☑	☑	☑	☑
Target Power & Power Class	GSM850(PC5): 33.5dBm GSM1900(PC0): 30.5dBm UMTS Band II(PC3): 23.5dBm UMTS Band IV(PC3): 22.5dBm UMTS Band V(PC3): 23.5dBm LTE Band 2(PC3): 24.5dBm LTE Band 4(PC3): 22.5dBm									

	LTE Band 5(PC3): 24.0dBm LTE Band 7(PC3): 23.5dBm LTE Band 12(PC3): 24.5dBm LTE Band 13(PC3): 24.0dBm LTE Band 17(PC3): 24.5dBm LTE Band 66(PC3): 22.5dBm	
Type of modulation	GSM	GSM: GMSK GPRS: GMSK EGPRS: GMSK, 8-PSK
	UMTS	WCDMA: UL: BPSK, DL: QPSK HSPA: QPSK, 16QAM
	E-UTRA	LTE: QPSK, 16QAM
Antenna Type	Fixed Internal Antenna	
Antenna Gain	GSM850: -2.32dBi; GSM1900: 0.56dBi UMTS Band II: 0.56dBi UMTS Band IV: 0.37dBi UMTS Band V: -2.32dBi LTE Band 2: 0.56dBi; LTE Band 4: 0.27dBi; LTE Band 5: -2.32dBi; LTE Band 7: -1.45dBi LTE Band 12: -3.32dBi; LTE Band 13: -1.62dBi; LTE Band 17: -3.32dBi; LTE Band 66: 0.27dBi;	
Power Supply	DC by Internal battery DC by 5VAC/DC Adapter	

Note: EUT is the abbreviation of equipment under test.

2.2. RF Channel Information

GSM Band	Transmitter/ Receiver	Channel Bandwidth	Lowest range(L)	Middle range(M)	Highest range(H)
GSM 850	Transmitter	0.2MHz	Channel 128 (824.2 MHz)	Channel 190 (836.6 MHz)	Channel 251 (848.8 MHz)
	Receiver		869.2 MHz	881.6MHz	893.8 MHz
GSM 1900	Transmitter	0.2MHz	Channel 512 (1850.2 MHz)	Channel 661 (1880.0 MHz)	Channel 810 (1909.8 MHz)
	Receiver		1930.2 MHz	1960.0 MHz	1989.8 MHz

UMTS Band	Transmitter / Receiver	Channel Bandwidth	Lowest range(L)	Middle range(M)	Highest range(H)
Band II	Transmitter	5MHz	Channel 9262 (1852.4MHz)	Channel 9400 (1880.0MHz)	Channel 9538 (1907.6MHz)
	Receiver		Channel 9662 (1932.4MHz)	Channel 9800 (1960.0MHz)	Channel 9938 (1987.6MHz)
Band IV	Transmitter	5MHz	Channel 1312 (1712.4MHz)	Channel 1413 (1732.6MHz)	Channel 1513 (1752.6MHz)
	Receiver		Channel 1537 (2112.4MHz)	Channel 1638 (2132.6MHz)	Channel 1738 (2152.6MHz)
Band V	Transmitter	5MHz	Channel 4132 (826.4MHz)	Channel 4182 (836.4MHz)	Channel 4233 (846.6MHz)
	Receiver		Channel 4357 (871.4MHz)	Channel 4407 (881.4MHz)	Channel 4458 (891.6MHz)

E-UTRA Band	Transmitter/ Receiver	Channel Bandwidth	Frequencies Under Test		
			Lowest range(L)	Middle range(M)	Highest range(H)
Band 2	Transmitter	1.4MHz	Channel 18607 (1850.7MHz)	Channel 18900 (1880MHz)	Channel 19193 (1909.3MHz)
		3MHz	Channel 18615 (1851.5MHz)	Channel 18900 (1880MHz)	Channel 19185 (1908.5MHz)
		5MHz	Channel 18625 (1852.5MHz)	Channel 18900 (1880MHz)	Channel 19175 (1907.5MHz)
		10MHz	Channel 18650 (1855MHz)	Channel 18900 (1880MHz)	Channel 19150 (1905MHz)
		15MHz	Channel 18675 (1857.5MHz)	Channel 18900 (1880MHz)	Channel 19125 (1902.5MHz)
		20MHz	Channel 18700 (1860MHz)	Channel 18900 (1880MHz)	Channel 19100 (1900MHz)
	Receiver	1.4MHz	Channel 607 (1930.7MHz)	Channel 900 (1960MHz)	Channel 1193 (1989.3MHz)
		3MHz	Channel 615 (1931.5MHz)	Channel 900 (1960MHz)	Channel 1185 (1988.5MHz)
		5MHz	Channel 625 (1932.5MHz)	Channel 900 (1960MHz)	Channel 1175 (1987.5MHz)
		10MHz	Channel 650 (1935MHz)	Channel 900 (1960MHz)	Channel 1150 (1985MHz)
		15MHz	Channel 675	Channel 900	Channel 1125

Band 4	Transmitter		(1937.5MHz)	(1960MHz)	(1982.5MHz)
		20MHz	Channel 700 (1940MHz)	Channel 900 (1960MHz)	Channel 1100 (1980MHz)
		1.4MHz	Channel 19957 (1710.7MHz)	Channel 20175 (1732.5MHz)	Channel 20393 (1754.3MHz)
		3MHz	Channel 19965 (1711.5MHz)	Channel 20175 (1732.5MHz)	Channel 20385 (1753.5MHz)
		5MHz	Channel 19975 (1712.5MHz)	Channel 20175 (1732.5MHz)	Channel 20375 (1752.5MHz)
		10MHz	Channel 20000 (1715MHz)	Channel 20175 (1732.5MHz)	Channel 20350 (1750MHz)
	Receiver	15MHz	Channel 20025 (1717.5 MHz)	Channel 20175 (1732.5MHz)	Channel 20325 (1747.5MHz)
		20MHz	Channel 20050 (1720 MHz)	Channel 20175 (1732.5MHz)	Channel 20300 (1745MHz)
		1.4MHz	Channel 1957 (2110.7MHz)	Channel 2175 (2132.5MHz)	Channel 2393 (2154.3MHz)
		3MHz	Channel 1965 (2111.5MHz)	Channel 2175 (2132.5MHz)	Channel 2385 (2153.5MHz)
		5MHz	Channel 1975 (2112.5MHz)	Channel 2175 (2132.5MHz)	Channel 2375 (2152.5MHz)
		10MHz	Channel 2000 (2115MHz)	Channel 2175 (2132.5MHz)	Channel 2350 (2150MHz)
		15MHz	Channel 2025 (2117.5MHz)	Channel 2175 (2132.5MHz)	Channel 2325 (2147.5MHz)
Band5	Transmitter	20MHz	Channel 2050 (2120MHz)	Channel 2175 (2132.5MHz)	Channel 2300 (2145MHz)
		1.4MHz	Channel 20407 (824.7MHz)	Channel 20525 (836.5MHz)	Channel 20643 (848.3MHz)
		3MHz	Channel 20415 (825.5MHz)	Channel 20525 (836.5MHz)	Channel 20635 (847.5MHz)
		5MHz	Channel 20425 (826.5MHz)	Channel 20525 (836.5MHz)	Channel 20625 (846.5MHz)
	Receiver	10MHz	Channel 20450 (829 MHz)	Channel 20525 (836.5MHz)	Channel 20600 (844MHz)
		1.4MHz	Channel 2407 (869.7MHz)	Channel 2525 (881.5MHz)	Channel 2643 (893.3MHz)
		3MHz	Channel 2415 (870.5MHz)	Channel 2525 (881.5MHz)	Channel 2635 (892.5MHz)
		5MHz	Channel 2425 (871.5MHz)	Channel 2525 (881.5MHz)	Channel 2625 (891.5MHz)
Band 7	Transmitter	10MHz	Channel 2450 (874MHz)	Channel 2525 (881.5MHz)	Channel 2600 (889MHz)
		5MHz	Channel 20775 (2502.5MHz)	Channel 21100 (2535MHz)	Channel 21425 (2567.5MHz)
		10MHz	Channel 20800 (2505MHz)	Channel 21100 (2535MHz)	Channel 21400 (2565MHz)
		15MHz	Channel 20825 (2507.5MHz)	Channel 21100 (2535MHz)	Channel 21375 (2562.5MHz)
	Receiver	20MHz	Channel 20850 (2510MHz)	Channel 21100 (2535MHz)	Channel 21350 (2560MHz)
		5MHz	Channel 2775	Channel 3100	Channel 3425

			(2622.5MHz)	(2655MHz)	(2687.5MHz)
		10MHz	Channel 2800 (2625MHz)	Channel 3100 (2655MHz)	Channel 3400 (2685MHz)
		15MHz	Channel 2825 (2627.5MHz)	Channel 3100 (2655MHz)	Channel 3375 (2682.5MHz)
		20MHz	Channel 2850 (2630MHz)	Channel 3100 (2655MHz)	Channel 3350 (2680MHz)
Band 12	Transmitter	1.4MHz	Channel 23017 (699.7MHz)	Channel 23095 (707.5MHz)	Channel 23173 (715.3MHz)
		3MHz	Channel 23025 (700.5MHz)	Channel 23095 (707.5MHz)	Channel 23165 (714.5MHz)
		5MHz	Channel 23035 (701.5MHz)	Channel 23095 (707.5MHz)	Channel 23155 (713.5MHz)
		10MHz	Channel 23060 (704MHz)	Channel 23095 (707.5MHz)	Channel 23130 (711MHz)
	Receiver	1.4MHz	Channel 5017 (729.7MHz)	Channel 5095 (737.5MHz)	Channel 5173 (745.3MHz)
		3MHz	Channel 5025 (730.5MHz)	Channel 5095 (737.5MHz)	Channel 5165 (744.5MHz)
		5MHz	Channel 5035 (731.5MHz)	Channel 5095 (737.5MHz)	Channel 5155 (743.5MHz)
		10MHz	Channel 5060 (734MHz)	Channel 5095 (737.5MHz)	Channel 5130 (741MHz)
Band 13	Transmitter	5MHz	Channel 23205 (779.5MHz)	Channel 23230 (782MHz)	Channel 23255 (784.5MHz)
		10MHz	Channel 23230 (782MHz)	Channel 23230 (782MHz)	Channel 23230 (782MHz)
	Receiver	5MHz	Channel 5205 (748.5MHz)	Channel 5230 (751MHz)	Channel 5255 (753.5MHz)
		10MHz	Channel 5230 (751MHz)	Channel 5230 (751MHz)	Channel 5230 (751MHz)
Band 17	Transmitter	5MHz	Channel 23755 (706.5MHz)	Channel 23790 (710MHz)	Channel 23825 (713.5MHz)
		10MHz	Channel 23780 (709MHz)	Channel 23790 (710MHz)	Channel 23800 (711MHz)
	Receiver	5MHz	Channel 5755 (736.5MHz)	Channel 5790 (740MHz)	Channel 5825 (743.5MHz)
		10MHz	Channel 5780 (739MHz)	Channel 5790 (740MHz)	Channel 5800 (741MHz)
Band 66	Transmitter	1.4MHz	Channel 131979 (1710.7MHz)	Channel 132322 (1745MHz)	Channel 132665 (1779.3MHz)
		3MHz	Channel 131987 (1711.5MHz)	Channel 132322 (1745MHz)	Channel 132657 (1778.5MHz)
		5MHz	Channel 131997 (1712.5MHz)	Channel 132322 (1745MHz)	Channel 132647 (1777.5MHz)
		10MHz	Channel 132022 (1715MHz)	Channel 132322 (1745MHz)	Channel 132622 (1775MHz)
		15MHz	Channel 132047 (1717.5MHz)	Channel 132322 (1745MHz)	Channel 132597 (1772.5MHz)
		20MHz	Channel 132072 (1720MHz)	Channel 132322 (1745MHz)	Channel 132572 (1770MHz)
	Receiver	1.4MHz	Channel 66443	Channel 66786	Channel 67129

		(2110.7MHz)	(2145 MHz)	(2179.3MHz)
	3MHz	Channel 66451 (2111.5MHz)	Channel 66786 (2145 MHz)	Channel 67121 (2178.5MHz)
	5MHz	Channel 66461 (2112.5MHz)	Channel 66786 (2145 MHz)	Channel 67111 (2177.5MHz)
	10MHz	Channel 66486 (2115MHz)	Channel 66786 (2145 MHz)	Channel 67086 (2175MHz)
	15MHz	Channel 66511 (2117.5MHz)	Channel 66786 (2145 MHz)	Channel 67061 (2172.5MHz)
	20MHz	Channel 66536 (2120MHz)	Channel 66786 (2145 MHz)	Channel 67036 (2170MHz)

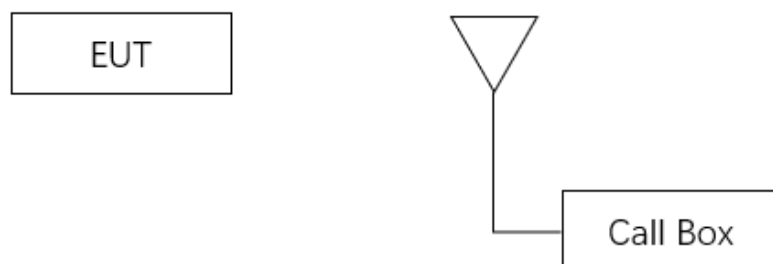
2.3. Accessories of EUT

Description of Accessories	Manufacturer	Model number	Description	Remark
N/A	N/A	N/A	N/A	N/A

2.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	EMC Compliance	SN
N/A	N/A	N/A	N/A	N/A

2.5. Block diagram of EUT configuration for test



2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Condition	Normal Condition	Extreme Condition
Pressure range	86-106KPa	N/A
Relative Humidity	30-75%	N/A
Temperature(°C)	NT: 25°C	N/A
Voltage(V)	NV: 3.8V	LV: 3.5V HV: 4.4V
Note: N/A: Not Applicable NV: Normal Voltage LV: Low Extreme Test Voltage HV: High Extreme Test Voltage NT: Normal Temperature LT: Low Extreme Test Temperature HT: High Extreme Test Temperature		

2.7. Worst-case Configuration and Test Mode

2.7.1. Worst-case Radiated test

-The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.

-All modes of operation were investigated and the worst-case configuration results are reports. In the case of radiated spurious emissions, only result that confirmed the maximum radiated power was reported

-The worst case is reported with the EUT positioning, modulations, and paging service configurations shown in the test data.

-All modes of operation were tested and the worst case results are reported.

-Below table show the worst case details:

Test Item	Test Mode	Band	Channel	Modulation	Bandwidth	Communication
Field Strength of Spurious Radiation	Mode1	GSM850	L	GMSK	0.2MHz	Circuit
			M	GMSK	0.2MHz	Circuit
			H	GMSK	0.2MHz	Circuit
	Mode2	GSM1900	L	GMSK	0.2MHz	Circuit
			M	GMSK	0.2MHz	Circuit
			H	GMSK	0.2MHz	Circuit
	Mode3	WCDMA Band II	L	QPSK	5MHz	Circuit
			M	QPSK	5MHz	Circuit
			H	QPSK	5MHz	Circuit
	Mode4	WCDMA Band IV	L	QPSK	5MHz	Circuit
			M	QPSK	5MHz	Circuit
			H	QPSK	5MHz	Circuit
	Mode5	WCDMA Band V	L	QPSK	5MHz	Circuit
			M	QPSK	5MHz	Circuit
			H	QPSK	5MHz	Circuit
	Mode6	LTE Band 2	L	QPSK	20MHz	1@0
			M	QPSK	20MHz	1@0
			H	QPSK	20MHz	1@0

	Mode7	LTE Band 4	L	QPSK	20MHz	1@0
			M	QPSK	20MHz	1@0
			H	QPSK	20MHz	1@0
	Mode8	LTE Band 5	L	QPSK	10MHz	1@0
			M	QPSK	10MHz	1@0
			H	QPSK	10MHz	1@0
	Mode9	LTE Band 7	L	QPSK	20MHz	1@0
			M	QPSK	20MHz	1@0
			H	QPSK	20MHz	1@0
	Mode10	LTE Band 12	L	QPSK	10MHz	1@0
			M	QPSK	10MHz	1@0
			H	QPSK	10MHz	1@0
	Mode11	LTE Band 13	M	QPSK	10MHz	1@0
	Mode12	LTE Band 17	L	QPSK	10MHz	1@0
			M	QPSK	10MHz	1@0
			H	QPSK	10MHz	1@0
	Mode13	LTE Band 66	L	QPSK	10MHz	1@0
			M	QPSK	10MHz	1@0
			H	QPSK	10MHz	1@0

2.8. Test laboratory

Tianjin Dongdian Testing Service Co., Ltd.

Address: Building D-1, No. 19, Weisi Road, Microelectronics Industrial Park Development Area,
Tianjin, China., 300385

Tel: +86-22-58038033, <http://www.ddttest.com>, Email: ddt@dgddt.com

NVLAP (National Voluntary Laboratory Accreditation Program) CODE: 500036-0

CNAS (China National Accreditation Service for Conformity Assessment) CODE: L13402

FCC Designation Number: CN5004; FCC Test Firm Registration Number: 368676

ISED (Innovation, Science and Economic Development Canada) Company Number: 27768

Conformity Assessment Body Identifier: CN0125

VCCI Facility Registration Number: C-20089, T-20093, R-20125, G-20122

3. Description of Tests

3.1. Radiated Power (ERP/EIRP)

Test Procedure: FCC KDB 971168 D01 V03r01.

Note: Refer test setup 1.

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are calculated by adding highest antenna gain to maximum measured conducted output power.

All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

a) The transmitter antenna port was connected to a Base Station Simulator through the calibrated coaxial cable.

b) Setup the Base Station Simulator to force the transmitter to the maximum power setting.

3) The tests were performed at three channels (low channel, middle channel and high channel) and on the highest power levels, which can be setup on the transmitters.

Calculate power in dBm by the following formula:

ERP (dBm) = Conducted Power (dBm) + antenna gain (dBd)

EIRP (dBm) = Conducted Power (dBm) + antenna gain (dBi)

EIRP=ERP+2.15dB

3.2. Field Strength of Spurious Radiation

Test Procedure: FCC KDB 971168 D01 V03r01.

Note: Refer test setup 2.

a) Place the EUT in the center of the turntable. The EUT shall be configured to transmit into the standard non-radiating load (for measuring radiated spurious emissions), connected with cables of minimal length unless specified otherwise. If the EUT uses an adjustable antenna, the antenna shall be positioned to the length that produces the worst case emission at the fundamental operating frequency.

b) Each emission under consideration shall be evaluated:

1) Raise and lower the measurement antenna, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.

2) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.

3) Return the turntable to the azimuth where the highest emission amplitude level was observed.

4) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.

c) Repeat step b) for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum

emissions amplitude.

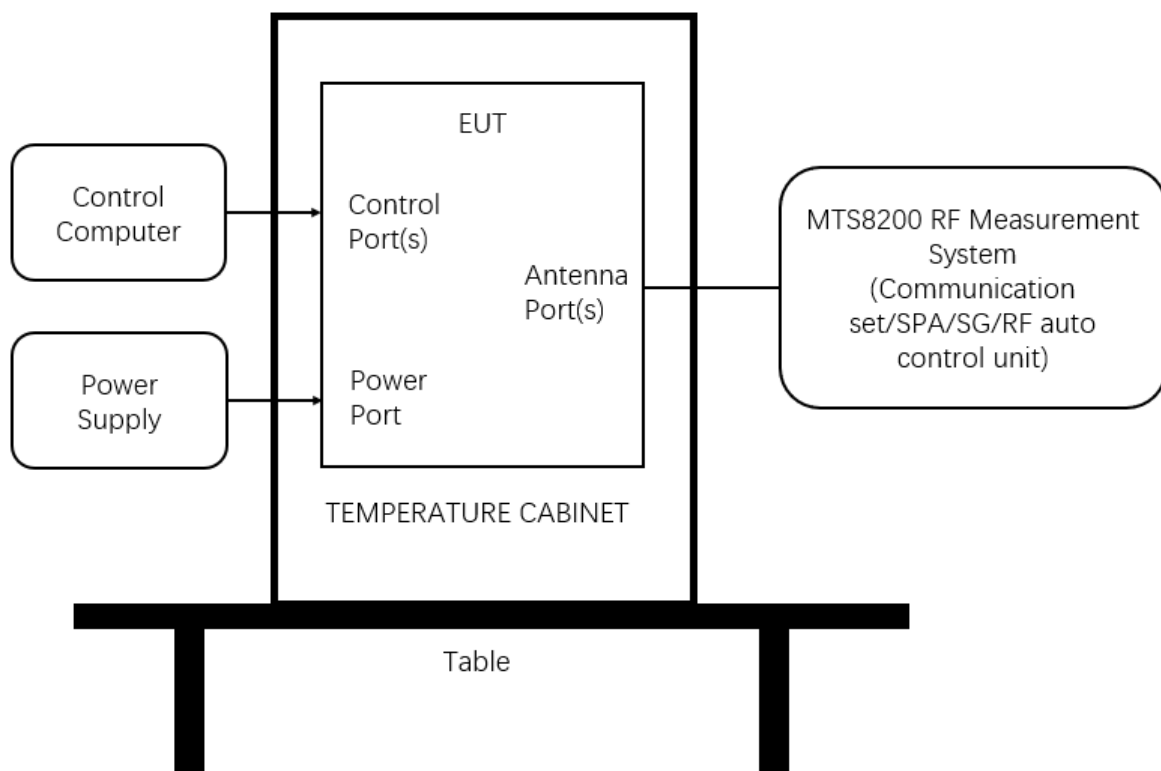
d) EIRP (dBm) = E (dBμV/m) + 20 log D – 104.8; where D is the measurement distance in meters.

e) Test the EUT in the lowest channel, the middle channel the Highest channel

f) The radiation measurements are performed in X, Y, Z axis positioning. Only the test worst case mode is recorded in the report.

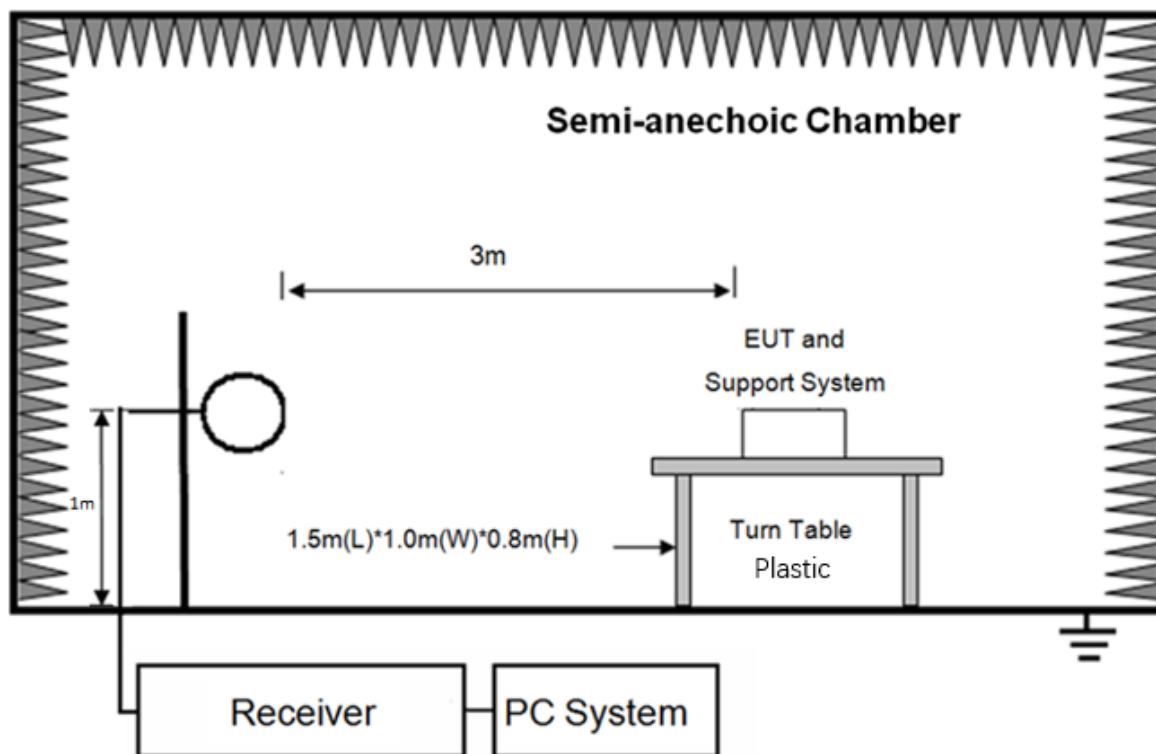
3.3. Test Setups

3.3.1. Test Setup 1

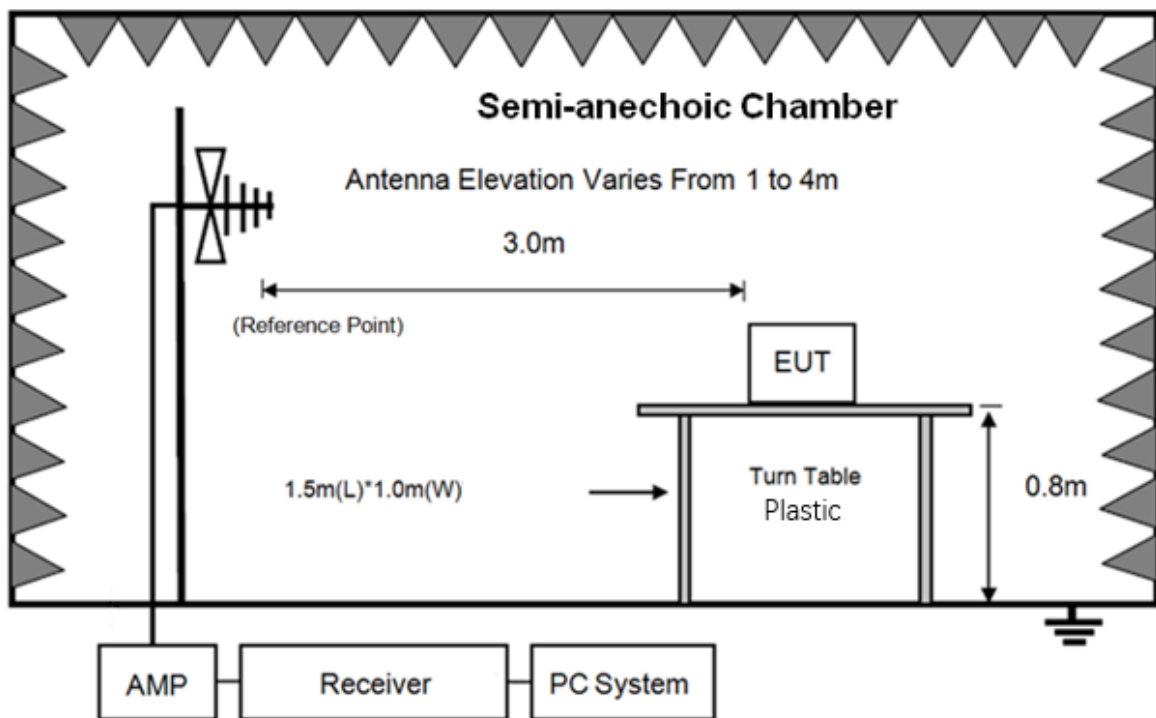


3.3.2. Test Setup 2

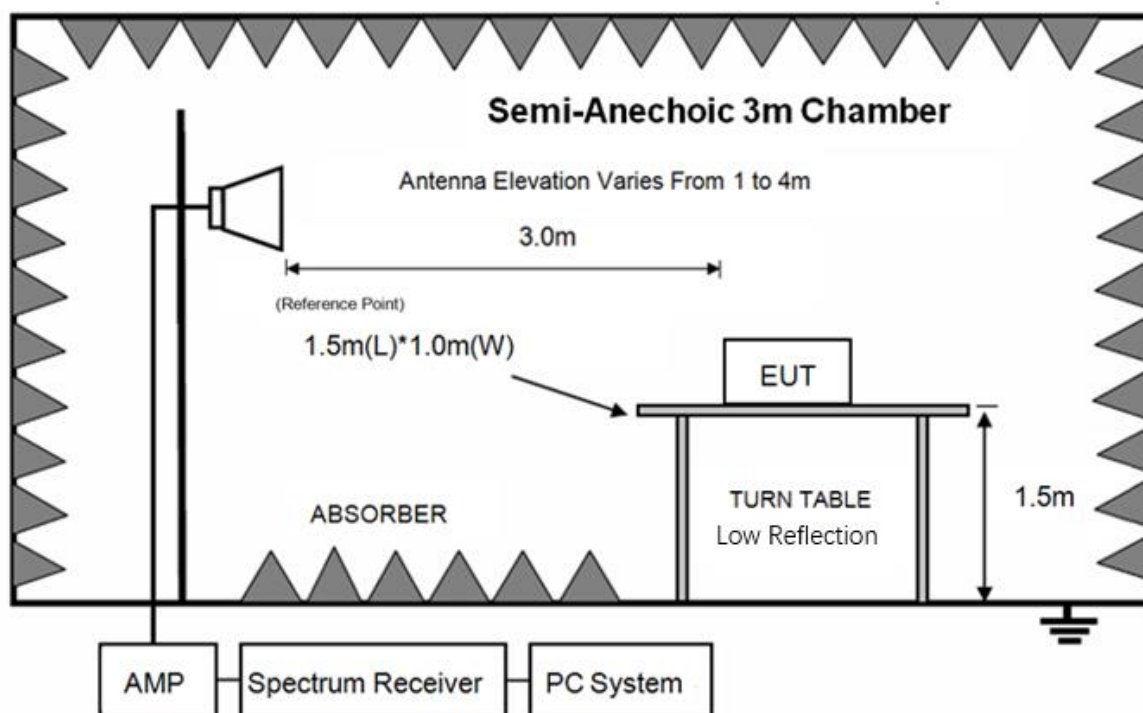
In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



In 3 m Anechoic Chamber, test setup diagram for 30 MHz – 1 GHz:



In 3 m Anechoic Chamber, test setup diagram for frequency above 1 GHz:



4. Measurement uncertainty

No.	Test Item	Uncertainty
1	Transmitter maximum output power	$\pm 0.7\text{dB}$
2	Radiated spurious emissions / Radiated emissions	$\pm 2.72\text{ dB}$ (30MHz-1GHz) $\pm 2.74\text{ dB}$ (1 - 6 GHz) $\pm 2.72\text{ dB}$ (6 GHz - 18 GHz) $\pm 3.54\text{ dB}$ (18 GHz - 26 GHz) $\pm 4.30\text{ dB}$ (26 GHz - 40 GHz)

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

5. Equipment Used During Test

Test System					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
EXA Signal Analyzer	Keysight	N9010A	MY53281492	2021/03/31	1 Year
RF SELECTOR	TOYO	NS4900	N/A	N/A	N/A
Band SELECTOR	TOYO	NS5800	N/A	N/A	N/A
BiLog Antenna	TESEQ	CBL 6143A	26683	2021/03/18	1 Year
Broadband Amplifier	SONOMA	317	292953	2021/03/03	1 Year
Low noise amplifier	MITEQ	TPA0118-36	0914	2022/02/16	1 Year
Double-Ridged Guide Horn Antenna	ETS-LINDGREN	3115	00102808	2021/03/16	1 Year
Test software	TOYO	EP5/RSE	Ver 1.9.1	N/A	N/A
Test software	Audix	E3	V 6.11111b	N/A	N/A
Active Loop Antenna	R&S	HFH2-Z2	100269	2021/05/08	1 Year
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	790	2021/05/28	1 Year
Broadband Horn Antenna	TESEQ	BHA 9118	31754	2021/10/12	1 Year
Low noise amplifier	MITEQ	TPA0118-36	0914	2022/02/16	1 Year
EMI Test Receiver	R&S	ESCI	101024	2021/03/03	1 Year
EMI Test Receiver	R&S	ESCI	101024	2022/03/03	1 Year
EMI Test Receiver	R&S	ESCI	101030	2021/05/15	1 Year
Bilog Antenna	TESEQ	CBL6112D	29068	2020/10/12	2 Year
Bilog Antenna	TESEQ	CBL6112D	29069	2020/10/12	2 Year
Amplifier	Sonoma	310N	300913	2021/03/03	1 Year
Amplifier	Sonoma	310N	300914	2021/03/03	1 Year
Amplifier	Sonoma	310N	300913	2022/03/03	1 Year
Amplifier	Sonoma	310N	300914	2022/03/03	1 Year
Ant Mast	Innco	MA4000	N/A	N/A	N/A
Ant Mast	Innco	MA4000	N/A	N/A	N/A
Mast Controller	Innco	CO2000	N/A	N/A	N/A
Mast Controller	Innco	CO2000	N/A	N/A	N/A
RF Selector 4CH	TOYO	NS4904N	Selector1	N/A	N/A
RF Selector 4CH	TOYO	NS4904N	Selector2	N/A	N/A
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	158800	2021/05/14	1 Year
8960 Series 10	Agilent(Keysight)	E5515C	MY48280272	2021/05/25	1 Year

Wireless Communications Test Set					
Radio Communication Test Station	Anritsu	MT8000A	6262302490	2021/03/26	1 Year
Radio Communication Analyzer	Anritsu	MT8821C	6262257930	2021/03/22	1 Year
Coupler-Antenna	European Antenna	PSA-7501R/170	406310-0001	N/A	N/A
tunable notch-filter 820/860Mhz	Wainwright	WRCT 820/860-0.4/40-5SSK	SN8	N/A	N/A
tunable notch-filter 840/920Mhz	Wainwright	WRCT 840/920-0.4/40-5SSK	SN9	N/A	N/A
tunable notch-filter 1700/1800Mhz	Wainwright	WRCD 1700/1800-0.2/40-5SSK	SN41	N/A	N/A
tunable notch-filter 1800/2000Mhz	Wainwright	WRCD 1800/2000-0.2/40-5SSK	SN31	N/A	N/A
band reject filter 1870/1890Mhz	Wainwright	WRCG 1877/1883-1870/1890-40/6EE	SN20	N/A	N/A
band reject filter 1940/1960Mhz	Wainwright	WRCG 1947/1953-1940/1960-40/6SS	SN28	N/A	N/A
band reject filter 2400/2483.5Mhz	Wainwright	WRCTF 2402/2480-2400/2483.5-35/12+9SS	SN42	N/A	N/A
Low pass filter 1.5Ghz	Wainwright	WLK1.5/18G-10SS	SN5	N/A	N/A
High pass filter 1.5G	Wainwright	WHKX1.5/15G-10SS	SN50	N/A	N/A
High pass filter 2.5G	Wainwright	WHKX 2.5/18G-12SS	SN5	N/A	N/A
High pass filter 3G	Kangmaiwei	ZHPF6-M3000-18000-996	03210746	N/A	N/A
High pass filter 6.5G	Kangmaiwei	ZHPF6-M6500-18000-547	03210747	N/A	N/A
High pass filter 1.0G	Kangmaiwei	ZHPF6-C1000-3000-548	11210354	N/A	N/A

6. Details Test Result

6.1. Re-Test statement

The EUT is operating at the same power level with the original testing of SGS-CSTC Standards Technical Services, Co., Ltd. Shenzhen Branch.

Item	The Original Reports	Re-Test Reports
File name:	test report RF	RF test report
Test location:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch	Tianjin Dongdian Testing Service Co., Ltd.

BAND	Channel	Test Original Reports Level(dBm)	Re-Test Reports Level(dBm)
GSM850	128	32.96	33.07
GSM850	190	32.75	32.74
GSM850	251	32.77	32.89
GSM1900	512	30.24	30.62
GSM1900	661	30.12	30.42
GSM1900	810	30.22	30.29

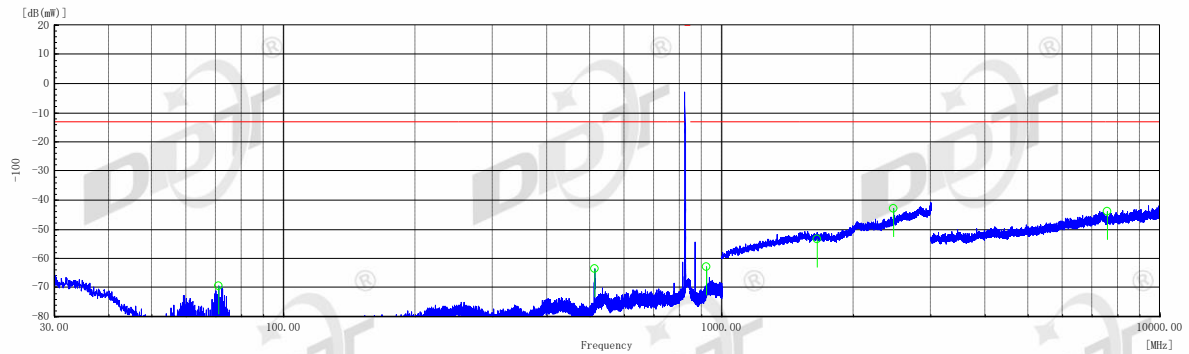
BAND	Modulation	Channel	Test Original Reports Level(dBm)	Re-Test Reports Level(dBm)
WCDMA Band II	QPSK	9262	23.30	23.43
WCDMA Band II	QPSK	9400	23.28	23.29
WCDMA Band II	QPSK	9538	23.27	23.36
WCDMA Band IV	QPSK	1312	23.31	23.31
WCDMA Band IV	QPSK	1413	23.35	23.32
WCDMA Band IV	QPSK	1513	23.38	23.36
WCDMA Band V	QPSK	4132	23.86	23.98
WCDMA Band V	QPSK	4182	23.92	23.81
WCDMA Band V	QPSK	4233	23.92	23.88

BAND	Bandwidth	Modulation	Channel	RB Configuration	Test Original Reports Level(dBm)	Re-Test Reports Level(dBm)
Band2	20MHz	QPSK	18700	1RB#0	23.53	23.62
Band2	20MHz	QPSK	18900	1RB#0	23.44	23.58
Band2	20MHz	QPSK	19100	1RB#0	23.34	23.36
Band4	20MHz	QPSK	20050	1RB#0	23.03	23.24
Band4	20MHz	QPSK	20175	1RB#0	22.97	23.07
Band4	20MHz	QPSK	20300	1RB#0	22.94	23.11
Band5	10MHz	QPSK	20450	1RB#0	23.94	23.86
Band5	10MHz	QPSK	20525	1RB#0	23.91	23.87
Band5	10MHz	QPSK	20600	1RB#0	23.97	23.87
Band7	20MHz	QPSK	20850	1RB#0	22.87	22.83
Band7	20MHz	QPSK	21100	1RB#0	22.86	22.90
Band7	20MHz	QPSK	21350	1RB#0	22.91	23.03
Band12	10MHz	QPSK	23060	1RB#0	23.75	23.65
Band12	10MHz	QPSK	23095	1RB#0	23.74	23.71
Band12	10MHz	QPSK	23130	1RB#0	23.71	23.69
Band13	10MHz	QPSK	23230	1RB#0	23.85	23.95
Band17	10MHz	QPSK	23780	1RB#0	23.71	23.86
Band17	10MHz	QPSK	23790	1RB#0	23.73	23.88

Band17	10MHz	QPSK	23800	1RB#0	23.74	23.62
Band66	20MHz	QPSK	132072	1RB#0	23.69	23.64
Band66	20MHz	QPSK	132322	1RB#0	23.76	23.75
Band66	20MHz	QPSK	132572	1RB#0	23.61	23.58

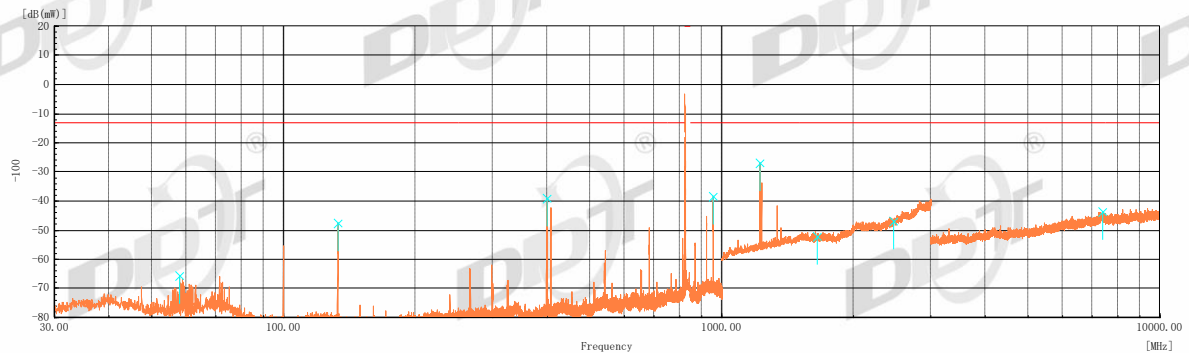
6.2. Radiated Spurious Emissions

Test Mode1: GSM850 L channel (horizontal)



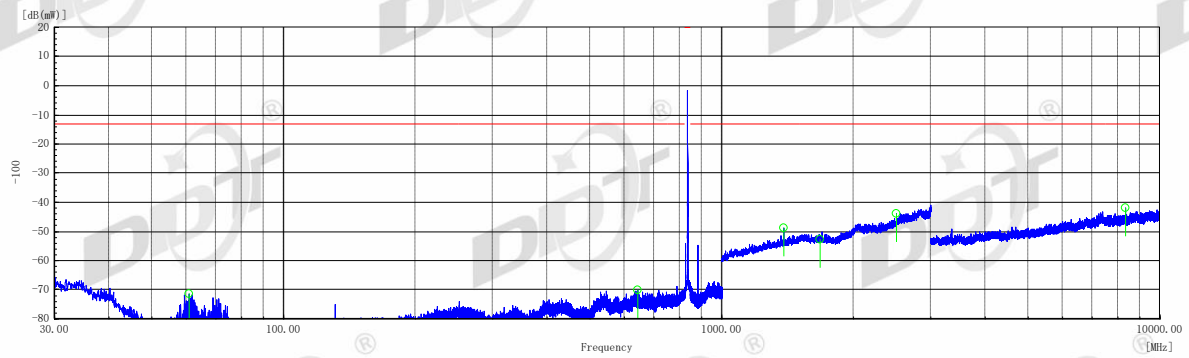
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
71	H	25.9	-69.4	-13	56.4	121	90.2
512.1	H	31.8	-63.5	-13	50.5	171	0
924.25	H	32.3	-63	-13	50	135	0
1648	H	42.0	-53.3	-13	40.3	151	315.2
2472	H	52.2	-43.1	-13	30.1	179	0
7594.501	H	51.4	-43.9	-13	30.9	169	90.2

Test Mode1: GSM850 L channel (vertical)



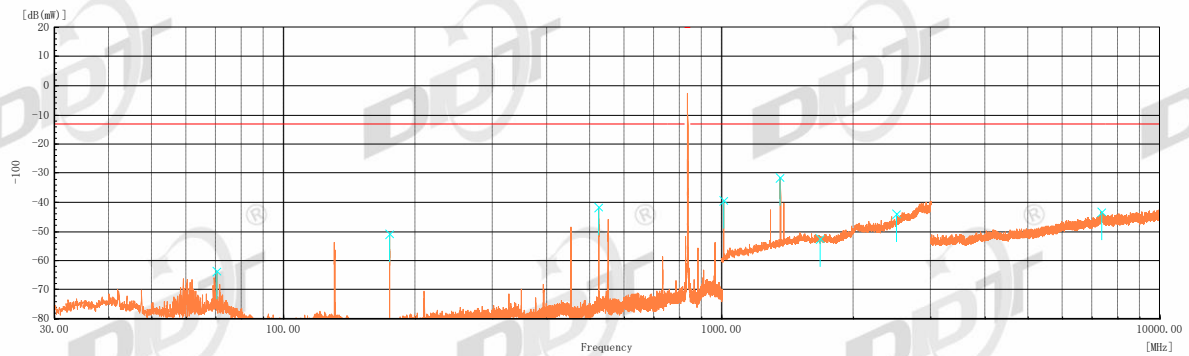
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
57.9	V	29.6	-65.7	-13	52.7	129	224.7
133.3	V	47.7	-47.6	-13	34.6	146	134.8
399.85	V	56.3	-39	-13	26	169	180.1
957.55	V	56.8	-38.5	-13	25.5	149	134.8
1223	V	68.5	-26.8	-13	13.8	131	0.1
1648.5	V	43.2	-52.1	-13	39.1	131	0.1
2472.5	V	48.4	-46.9	-13	33.9	143	315.2
7385.501	V	51.5	-43.8	-13	30.8	118	315.2

Test Mode1: GSM850 M channel (horizontal)



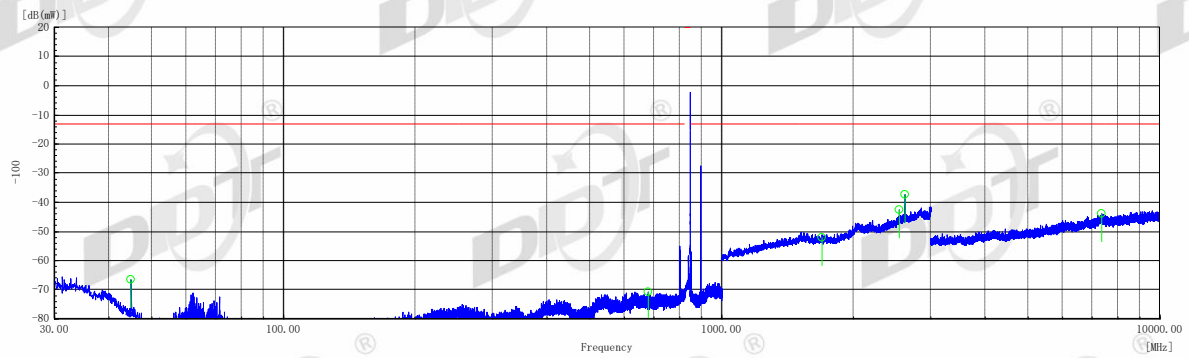
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
60.8	H	23.9	-71.4	-13	58.4	103	225.4
643.6	H	25.0	-70.3	-13	57.3	143	269.9
1386	H	46.3	-49	-13	36	161	0.1
1673	H	42.4	-52.9	-13	39.9	173	269.9
2509.5	H	51.2	-44.1	-13	31.1	174	45.4
8365.001	H	53.5	-41.8	-13	28.8	106	45.4

Test Mode1: GSM850 M channel (vertical)



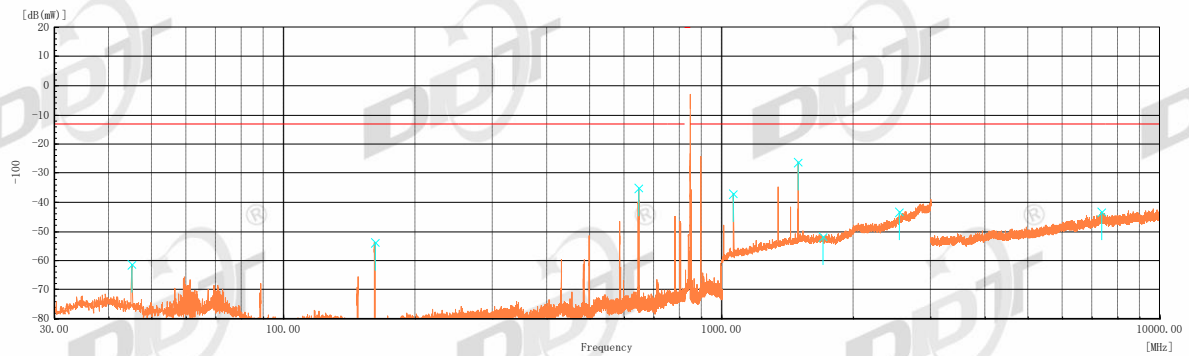
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
70.35	V	31.5	-63.8	-13	50.8	108	89.9
174.65	V	44.4	-50.9	-13	37.9	119	134.6
523.9	V	53.7	-41.6	-13	28.6	127	0.1
1011.5	V	55.9	-39.4	-13	26.4	116	269.6
1360	V	63.8	-31.5	-13	18.5	156	0.1
1673.5	V	42.9	-52.4	-13	39.4	132	179.2
2510	V	51.2	-44.1	-13	31.1	153	179.2
7349.501	V	52.1	-43.2	-13	30.2	153	134.6

Test Mode1: GSM850 H channel (horizontal)



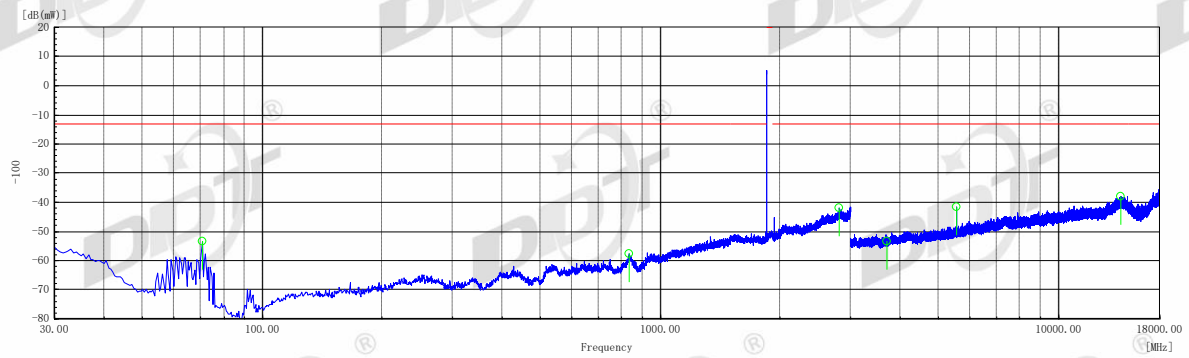
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
44.9	H	28.9	-66.4	-13	53.4	106	0.1
680.35	H	24.6	-70.7	-13	57.7	147	180.3
1697.5	H	43.0	-52.3	-13	39.3	126	225.7
2546.5	H	52.5	-42.8	-13	29.8	126	315.3
2625.5	H	57.8	-37.5	-13	24.5	172	270.3
7363.501	H	51.2	-44.1	-13	31.1	102	270.3

Test Mode1: GSM850 H channel (vertical)



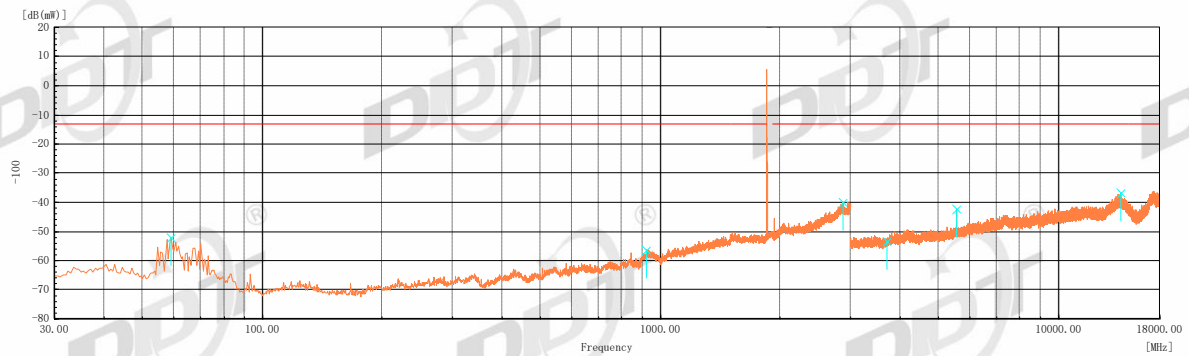
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
45	V	33.9	-61.4	-13	48.4	148	89.5
161.5	V	41.7	-53.6	-13	40.6	139	315.3
645.9	V	60.2	-35.1	-13	22.1	167	0.4
1064	V	58.4	-36.9	-13	23.9	136	0.4
1493.5	V	69.2	-26.1	-13	13.1	170	0.4
1698	V	43.5	-51.8	-13	38.8	106	0.4
2546.5	V	52.1	-43.2	-13	30.2	103	179.7
7350.001	V	52.0	-43.3	-13	30.3	103	225

Test Mode2: GSM1900 L channel (horizontal)



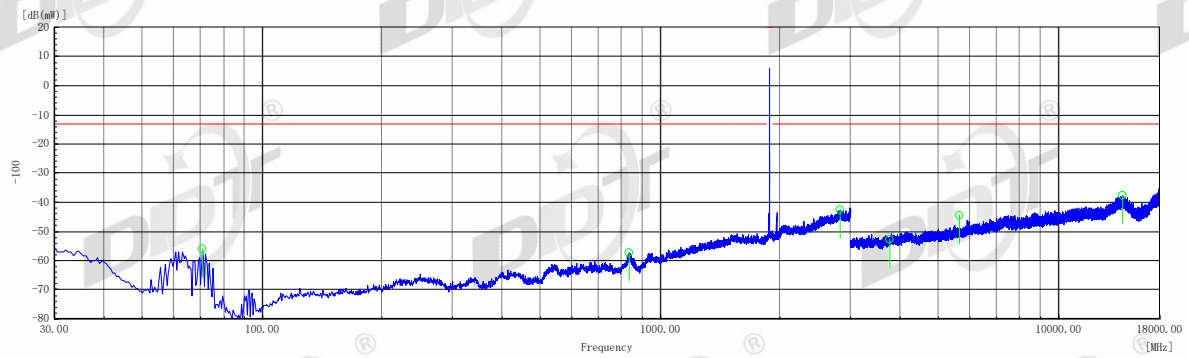
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
70.5	H	41.9	-53.4	-13	40.4	109	90.2
833	H	37.7	-57.6	-13	44.6	137	270
2820.5	H	53.5	-41.8	-13	28.8	128	44.5
3700	H	42.0	-53.3	-13	40.3	143	90.2
5550.5	H	53.7	-41.6	-13	28.6	115	44.5
14387.5	H	57.2	-38.1	-13	25.1	127	359.7

Test Mode2: GSM1900 L channel (vertical)



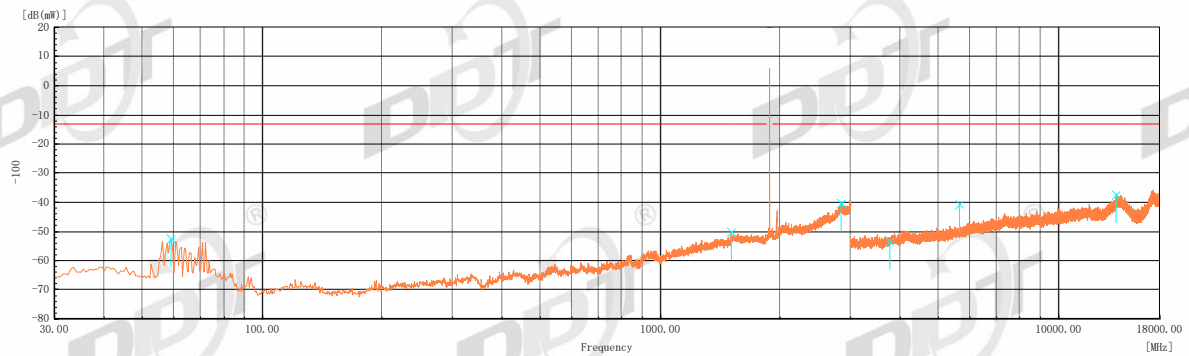
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
59	V	43.0	-52.3	-13	39.3	168	224.7
922.5	V	38.9	-56.4	-13	43.4	121	315.3
2875	V	55.3	-40	-13	27	106	359.9
3700.5	V	41.9	-53.4	-13	40.4	161	135.1
5551	V	53.1	-42.2	-13	29.2	116	269.6
14379.5	V	58.6	-36.7	-13	23.7	175	135.1

Test Mode2: GSM1900 M channel (horizontal)



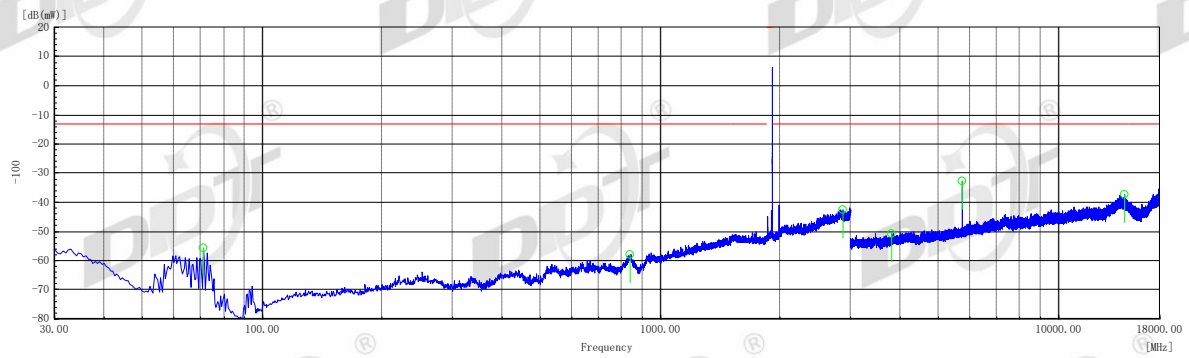
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
70.5	H	39.4	-55.9	-13	42.9	145	90.1
836.5	H	38.0	-57.3	-13	44.3	158	225.2
2823.5	H	52.6	-42.7	-13	29.7	170	315.1
3760	H	42.6	-52.7	-13	39.7	117	45.6
5640	H	50.6	-44.7	-13	31.7	131	90.1
14516.5	H	57.5	-37.8	-13	24.8	116	180.7

Test Mode2: GSM1900 M channel (vertical)



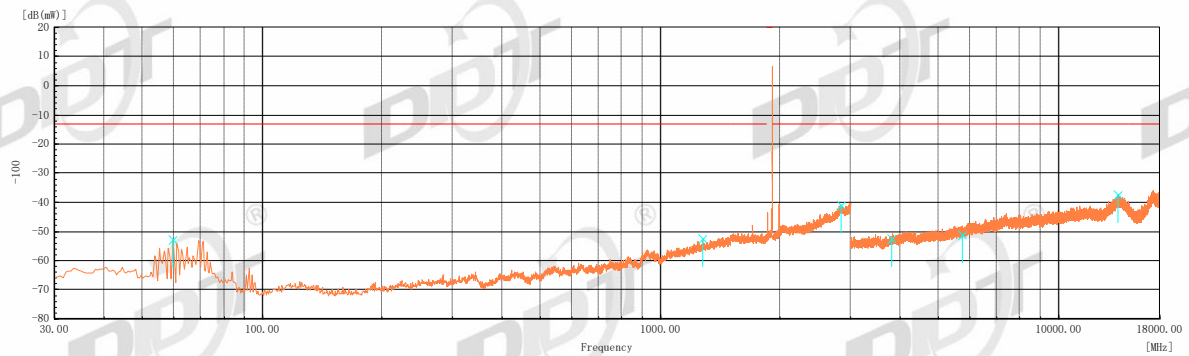
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
59	V	42.7	-52.6	-13	39.6	125	224.9
1507.5	V	45.0	-50.3	-13	37.3	155	315.1
2850.5	V	54.9	-40.4	-13	27.4	142	90.1
3760	V	41.9	-53.4	-13	40.4	126	359.8
5639.5	V	54.7	-40.6	-13	27.6	160	45.2
13948.5	V	57.8	-37.5	-13	24.5	113	269.4

Test Mode2: GSM1900 H channel (horizontal)



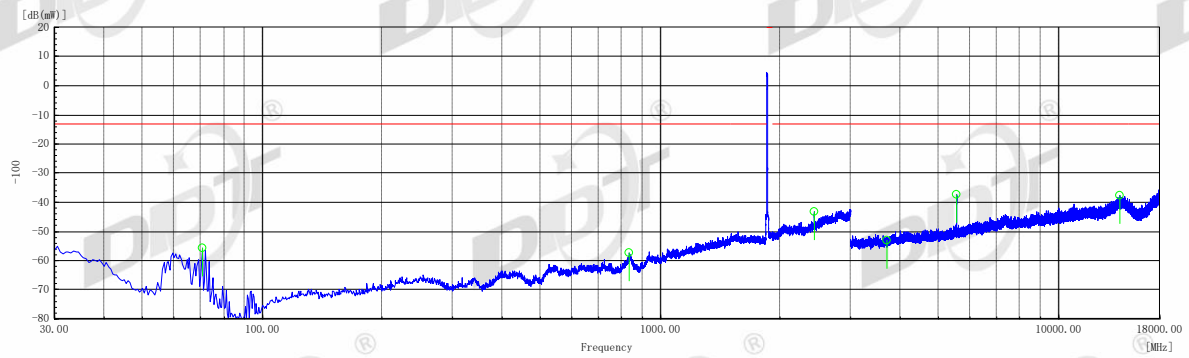
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
71	H	39.5	-55.8	-13	42.8	168	90.3
840	H	37.4	-57.9	-13	44.9	166	135.7
2881	H	52.6	-42.7	-13	29.7	177	180.2
3819.5	H	44.5	-50.8	-13	37.8	163	180.2
5729.5	H	62.4	-32.9	-13	19.9	131	359.8
14685.5	H	57.9	-37.4	-13	24.4	162	90.3

Test Mode2: GSM1900 H channel (vertical)



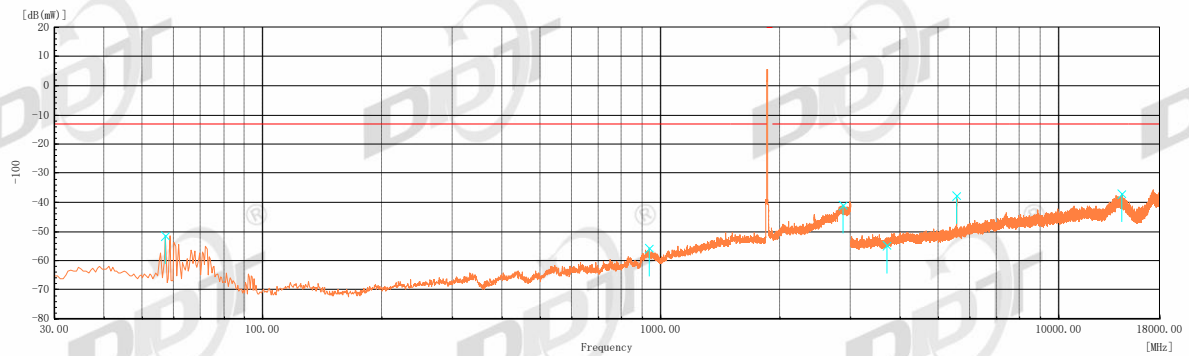
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
59.5	V	42.4	-52.9	-13	39.9	133	224.4
1278.5	V	43.0	-52.3	-13	39.3	116	134.4
2843.5	V	54.3	-41	-13	28	115	315.9
3819.5	V	42.9	-52.4	-13	39.4	151	315.9
5729.5	V	44.2	-51.1	-13	38.1	134	269.3
14152.5	V	57.8	-37.5	-13	24.5	116	89.6

Test Mode3: WCDMA Band II L channel (horizontal)



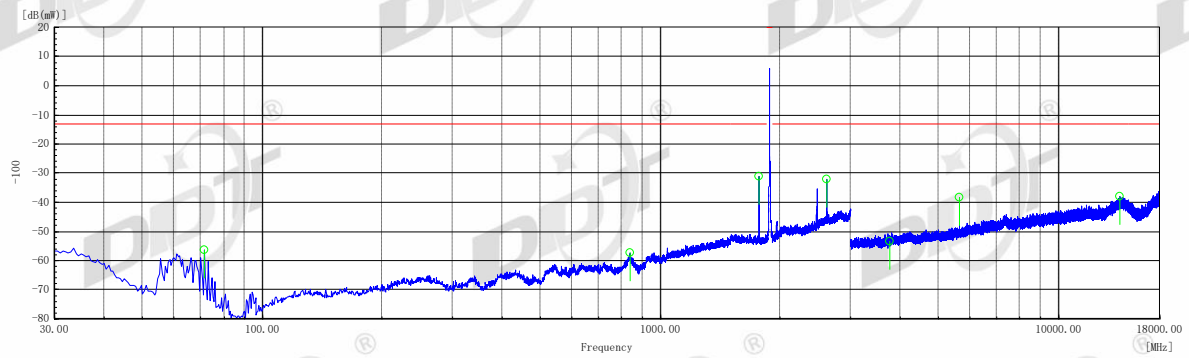
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
70.5	H	39.5	-55.8	-13	42.8	124	90
836.5	H	38.0	-57.3	-13	44.3	163	45
2439.5	H	51.9	-43.4	-13	30.4	107	0.1
3705	H	42.0	-53.3	-13	40.3	166	135.1
5555	H	57.9	-37.4	-13	24.4	179	180.5
14310	H	57.7	-37.6	-13	24.6	110	225.4

Test Mode3: WCDMA Band II L channel (vertical)



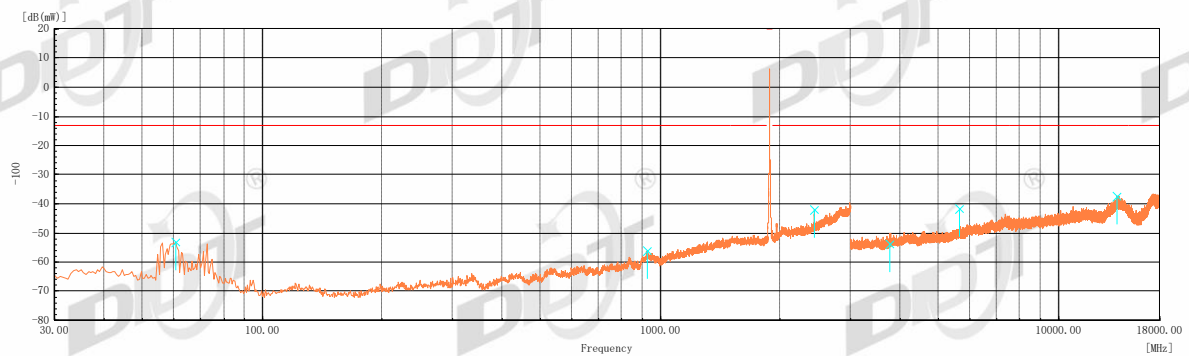
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
57	V	43.7	-51.6	-13	38.6	157	225
937.5	V	39.5	-55.8	-13	42.8	149	225
2879.5	V	54.4	-40.9	-13	27.9	113	269.6
3705	V	40.4	-54.9	-13	41.9	116	225
5554	V	57.5	-37.8	-13	24.8	116	269.6
14398	V	58.2	-37.1	-13	24.1	165	0.1

Test Mode3: WCDMA Band II M channel (horizontal)



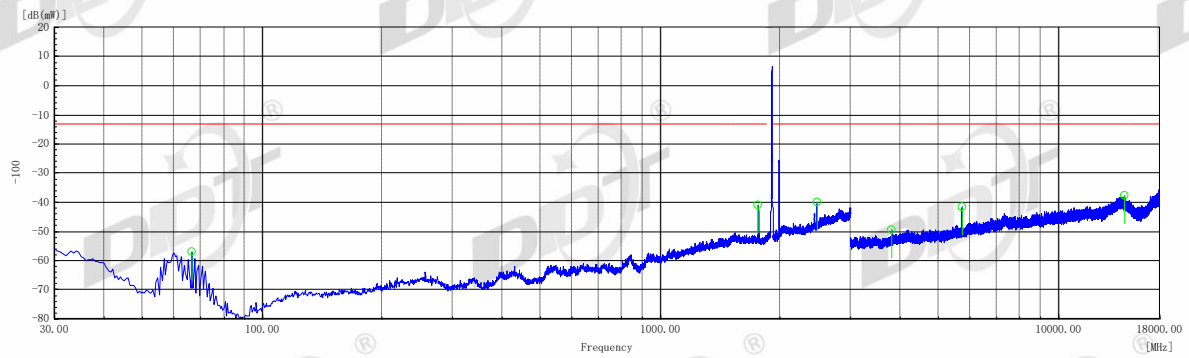
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
71.5	H	38.8	-56.5	-13	43.5	160	90.2
837	H	37.8	-57.5	-13	44.5	116	181
1765	H	64.3	-31	-13	18	104	0.1
2619.5	H	63.3	-32	-13	19	137	270.5
3760	H	41.8	-53.5	-13	40.5	154	225.2
5643.5	H	56.9	-38.4	-13	25.4	170	181
14299	H	57.1	-38.2	-13	25.2	127	181

Test Mode3: WCDMA Band II M channel (vertical)



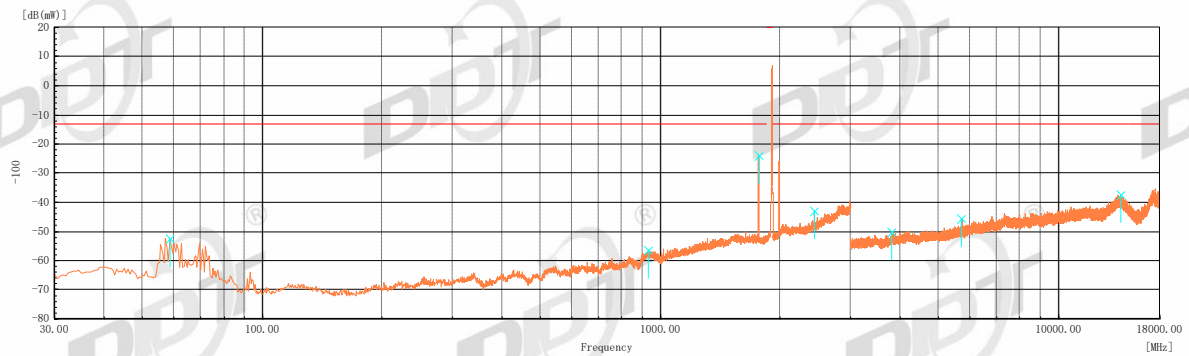
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
60.5	V	42.2	-53.1	-13	40.1	159	179.4
929	V	39.3	-56	-13	43	135	44.2
2435	V	53.2	-42.1	-13	29.1	154	134.4
3760	V	41.5	-53.8	-13	40.8	162	134.4
5642.5	V	53.5	-41.8	-13	28.8	166	315.9
14015	V	57.8	-37.5	-13	24.5	127	89.5

Test Mode3: WCDMA Band II H channel (horizontal)



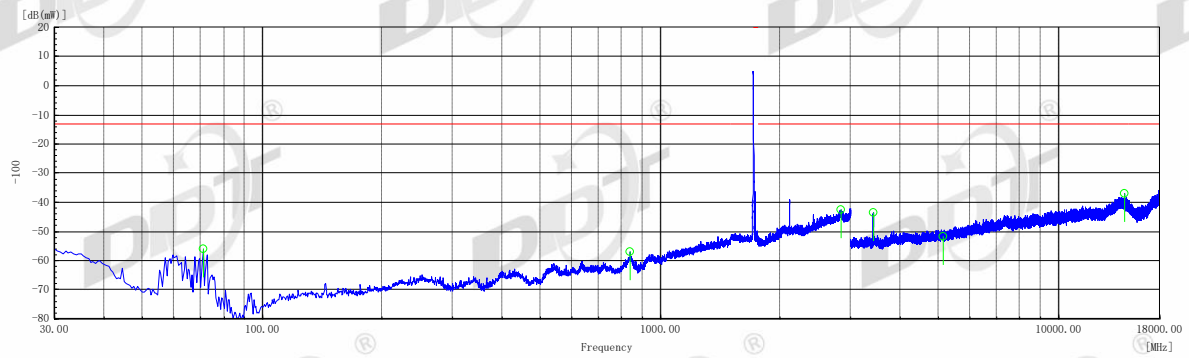
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
66.5	H	38.4	-56.9	-13	43.9	173	135.3
1763.5	H	54.4	-40.9	-13	27.9	166	45.8
2472	H	55.4	-39.9	-13	26.9	120	225.6
3816.5	H	45.8	-49.5	-13	36.5	129	315.1
5724	H	53.8	-41.5	-13	28.5	109	180.3
14653.5	H	57.5	-37.8	-13	24.8	172	45.8

Test Mode3: WCDMA Band II H channel (vertical)



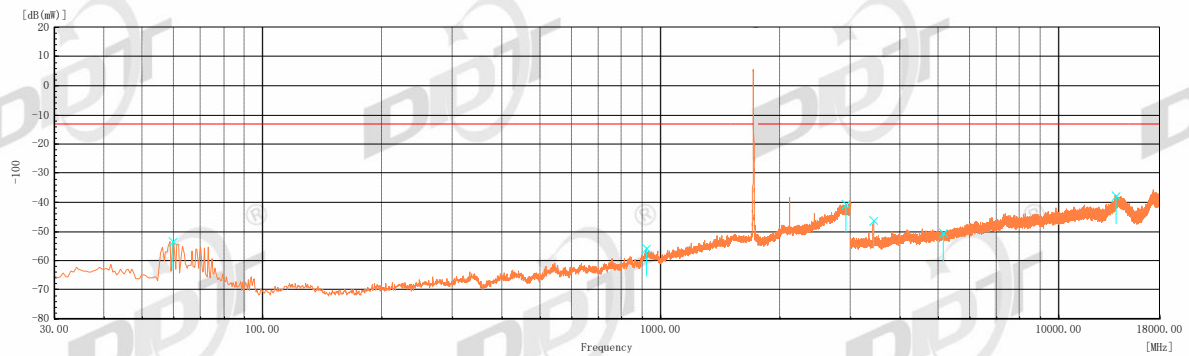
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
58.5	V	42.9	-52.4	-13	39.4	175	224.4
931	V	38.8	-56.5	-13	43.5	127	269.9
1764	V	71.3	-24	-13	11	126	315.1
2435	V	52.3	-43	-13	30	121	0.3
3813	V	45.3	-50	-13	37	105	269.9
5720.5	V	49.7	-45.6	-13	32.6	175	315.1
14336.5	V	58.1	-37.2	-13	24.2	164	89.7

Test Mode4: WCDMA Band IV L channel (horizontal)



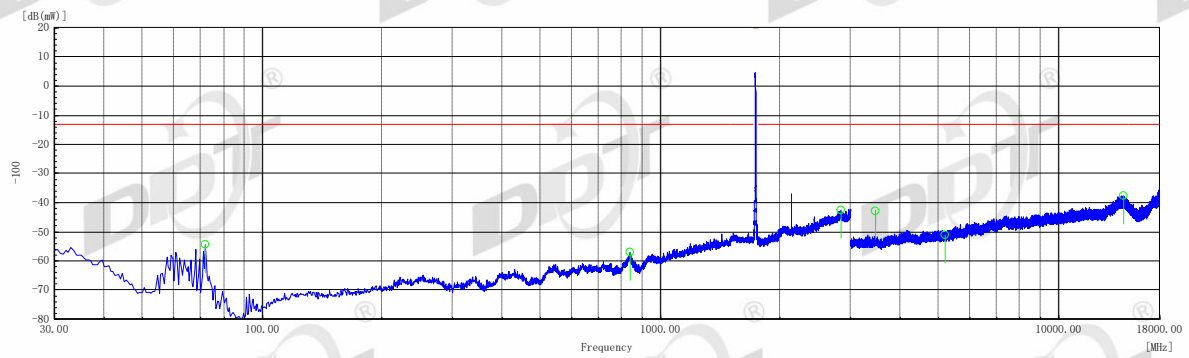
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
71	H	39.3	-56	-13	43	177	90
839	H	38.2	-57.1	-13	44.1	153	180.3
2843	H	52.7	-42.6	-13	29.6	103	90
3427.5	H	51.8	-43.5	-13	30.5	165	135.4
5137	H	43.4	-51.9	-13	38.9	136	90
14635	H	58.4	-36.9	-13	23.9	152	315.2

Test Mode4: WCDMA Band IV L channel (vertical)



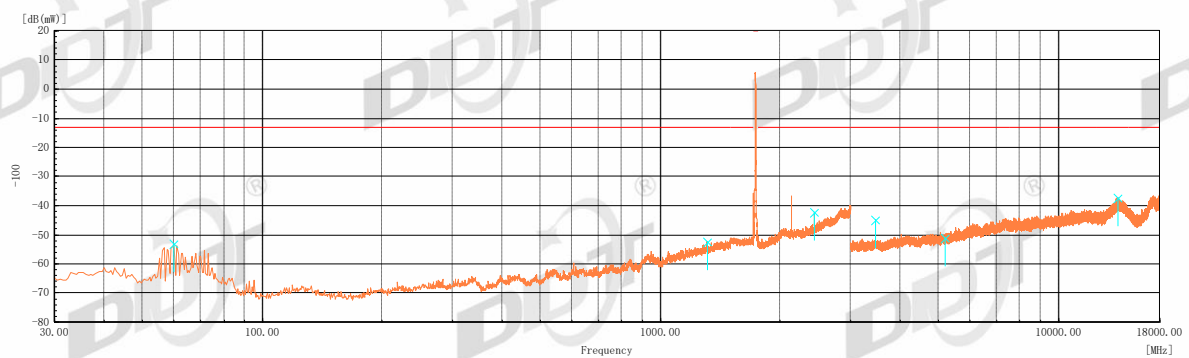
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
59.5	V	42.0	-53.3	-13	40.3	118	224.5
923.5	V	39.6	-55.7	-13	42.7	132	0.1
2932	V	54.5	-40.8	-13	27.8	163	134.9
3427	V	49.2	-46.1	-13	33.1	154	45.1
5137	V	44.7	-50.6	-13	37.6	133	179.9
13983	V	57.6	-37.7	-13	24.7	161	0.1

Test Mode4: WCDMA Band IV M channel (horizontal)



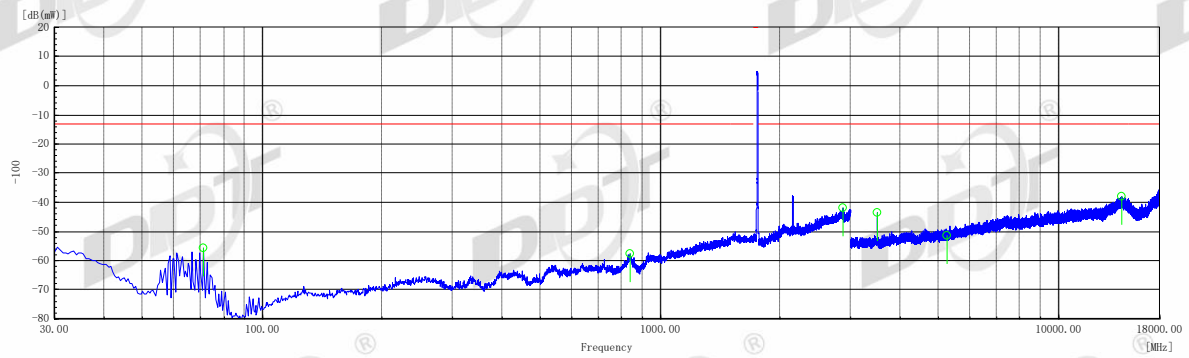
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
72	H	40.8	-54.5	-13	41.5	135	90.7
837	H	38.4	-56.9	-13	43.9	160	90.7
2843	H	52.7	-42.6	-13	29.6	152	315.4
3463	H	52.4	-42.9	-13	29.9	125	135.2
5198	H	44.1	-51.2	-13	38.2	167	315.4
14590	H	57.5	-37.8	-13	24.8	111	225.5

Test Mode4: WCDMA Band IV M channel (vertical)



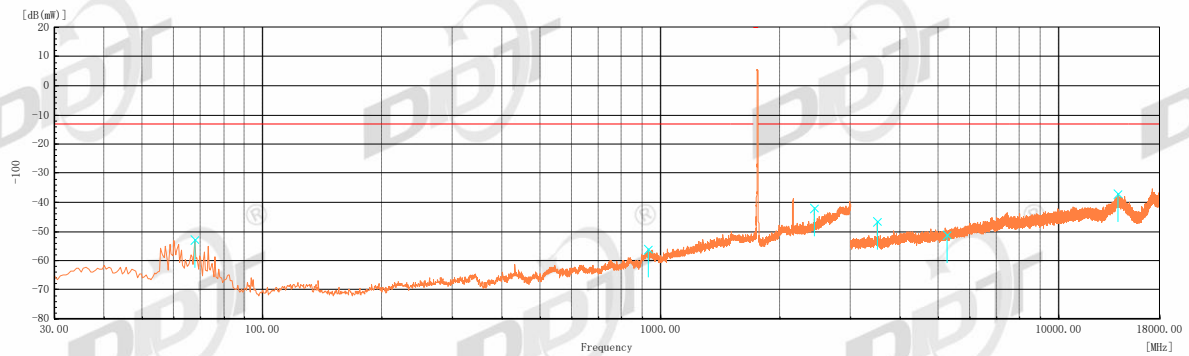
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
60	V	42.3	-53	-13	40	142	224.7
1313	V	42.9	-52.4	-13	39.4	112	270.1
2435.5	V	53.0	-42.3	-13	29.3	111	270.1
3463.5	V	50.3	-45	-13	32	157	45
5198	V	44.2	-51.1	-13	38.1	153	45
14124	V	58.0	-37.3	-13	24.3	174	270.1

Test Mode4: WCDMA Band IV H channel (horizontal)



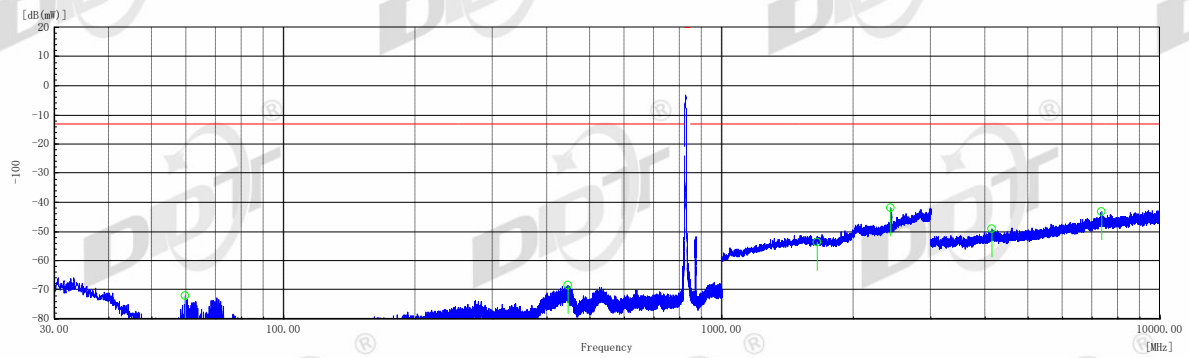
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
71	H	39.5	-55.8	-13	42.8	108	90.5
839	H	37.4	-57.9	-13	44.9	147	135.4
2882	H	53.5	-41.8	-13	28.8	131	225.3
3503.5	H	51.7	-43.6	-13	30.6	144	315.6
5258	H	43.7	-51.6	-13	38.6	153	135.4
14424.5	H	57.3	-38	-13	25	144	225.3

Test Mode4: WCDMA Band IV H channel (vertical)



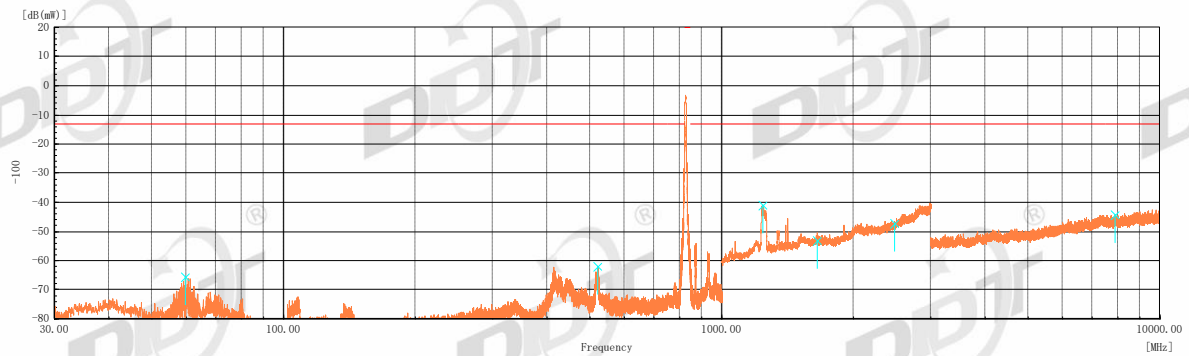
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
67.5	V	42.5	-52.8	-13	39.8	158	44.5
929.5	V	39.3	-56	-13	43	133	315.6
2435	V	53.2	-42.1	-13	29.1	104	89.8
3502.5	V	48.8	-46.5	-13	33.5	163	44.5
5258	V	44.2	-51.1	-13	38.1	161	134.6
14080	V	58.1	-37.2	-13	24.2	167	359.9

Test Mode5: WCDMA Band V L channel (horizontal)



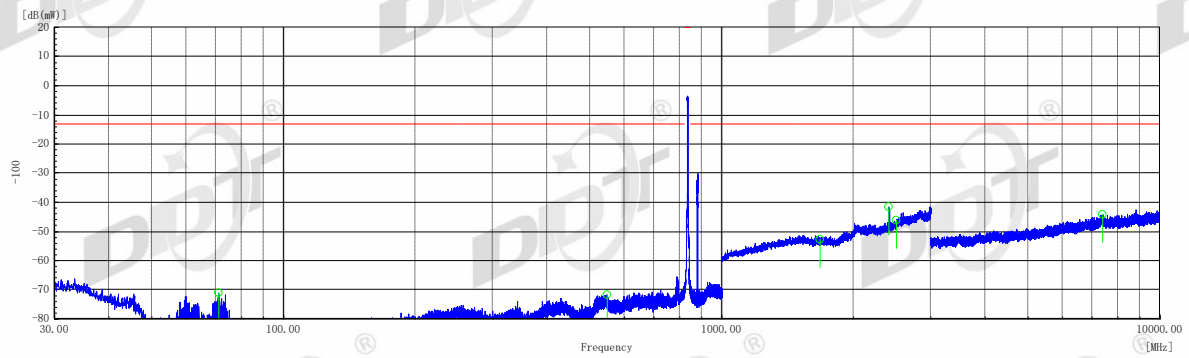
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
59.7	H	23.1	-72.2	-13	59.2	111	270.3
446.4	H	26.8	-68.5	-13	55.5	110	359.9
1652.5	H	41.5	-53.8	-13	40.8	180	270.3
2435.5	H	53.2	-42.1	-13	29.1	109	180.3
4141.5	H	46.2	-49.1	-13	36.1	164	314.8
7351.501	H	52.1	-43.2	-13	30.2	114	314.8

Test Mode5: WCDMA Band V L channel (vertical)



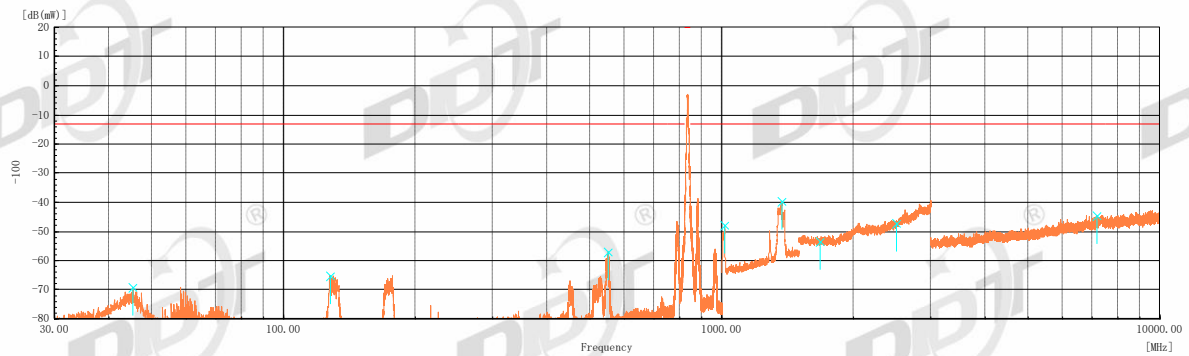
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
59.65	V	29.8	-65.5	-13	52.5	137	314.8
521.35	V	33.4	-61.9	-13	48.9	151	269.5
1239	V	54.2	-41.1	-13	28.1	107	359.9
1653	V	42.3	-53	-13	40	125	269.5
2479	V	48.0	-47.3	-13	34.3	126	225
7899.001	V	50.9	-44.4	-13	31.4	111	44.8

Test Mode5: WCDMA Band V M channel (horizontal)



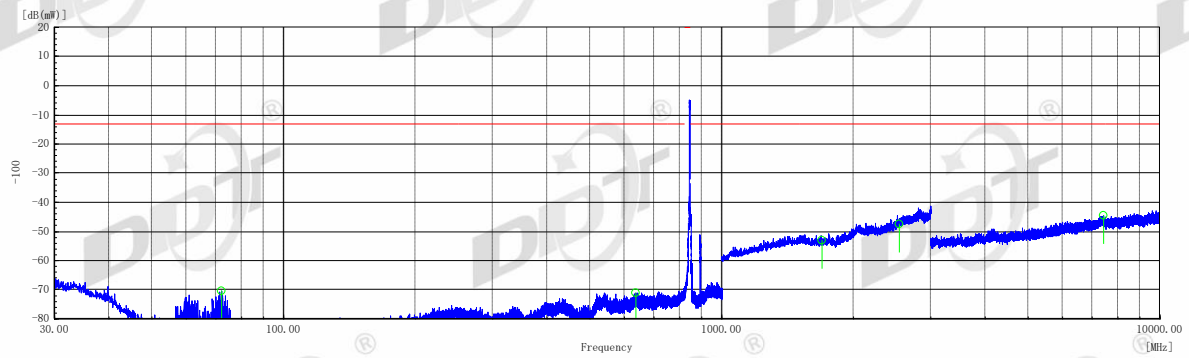
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
70.95	H	24.2	-71.1	-13	58.1	125	90.5
548.85	H	23.4	-71.9	-13	58.9	119	315.5
1673	H	42.5	-52.8	-13	39.8	178	134.9
2410.5	H	53.5	-41.8	-13	28.8	176	359.9
2509.5	H	49.0	-46.3	-13	33.3	178	45.3
7418.501	H	51.2	-44.1	-13	31.1	109	270.2

Test Mode5: WCDMA Band V M channel (vertical)



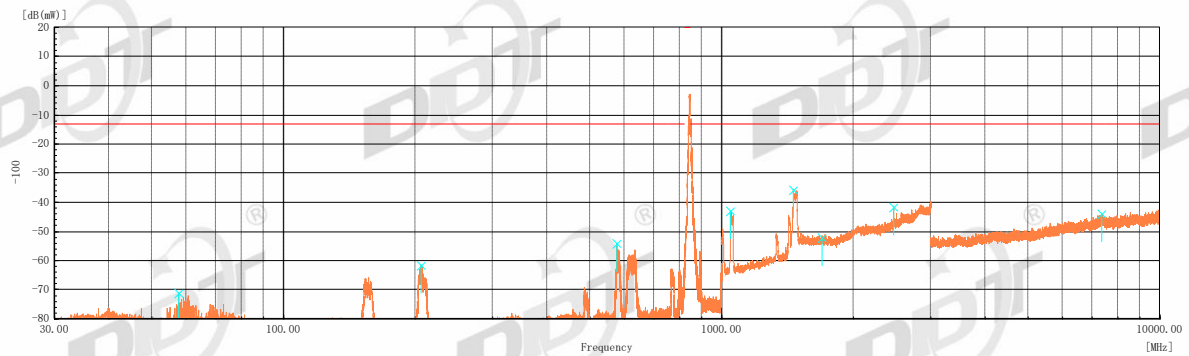
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
45.35	V	26.1	-69.2	-13	56.2	171	315.5
128	V	30.2	-65.1	-13	52.1	123	180
551.65	V	38.1	-57.2	-13	44.2	152	0.1
1016	V	47.3	-48	-13	35	114	0.1
1368.5	V	55.5	-39.8	-13	26.8	103	0.1
1672.5	V	41.7	-53.6	-13	40.6	179	44.5
2509.5	V	47.9	-47.4	-13	34.4	138	315.5
7185.501	V	50.9	-44.4	-13	31.4	155	89.4

Test Mode5: WCDMA Band V H channel (horizontal)



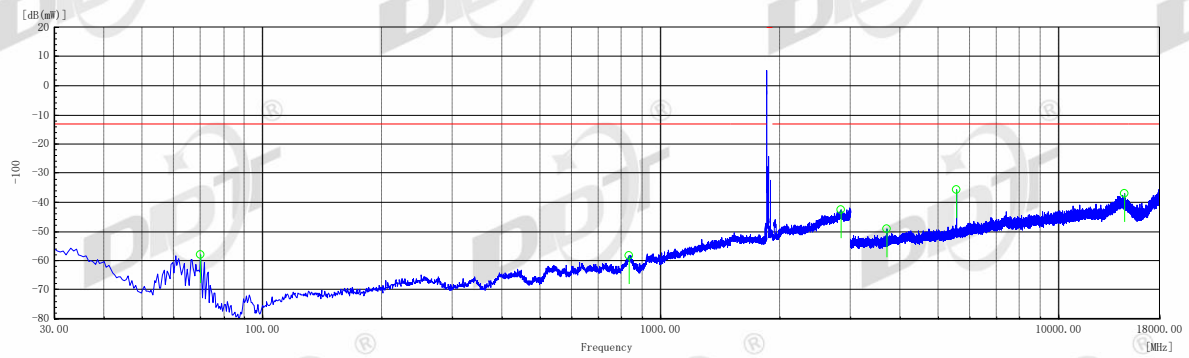
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
57.75	H	12.3	-83	-13	70	155	45.3
72	H	24.9	-70.4	-13	57.4	107	90.5
636.15	H	24.3	-71	-13	58	134	0.1
1693	H	42.2	-53.1	-13	40.1	144	135.8
2540	H	47.7	-47.6	-13	34.6	157	270.2
7430.001	H	50.7	-44.6	-13	31.6	118	45.3

Test Mode5: WCDMA Band V H channel (vertical)



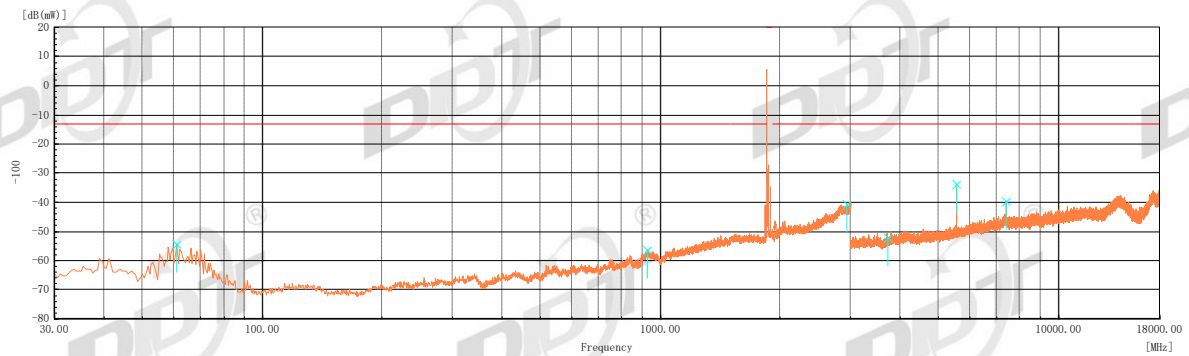
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
57.6	V	24.0	-71.3	-13	58.3	175	225
206	V	33.6	-61.7	-13	48.7	150	0
576.2	V	41.3	-54	-13	41	177	225
1048.5	V	52.4	-42.9	-13	29.9	116	89.4
1455.5	V	59.5	-35.8	-13	22.8	136	0
1693.5	V	43.2	-52.1	-13	39.1	142	315.1
2470.5	V	53.5	-41.8	-13	28.8	169	134.3
7351.501	V	51.4	-43.9	-13	30.9	106	44.5

Test Mode6: LTE Band 2 L channel (horizontal)



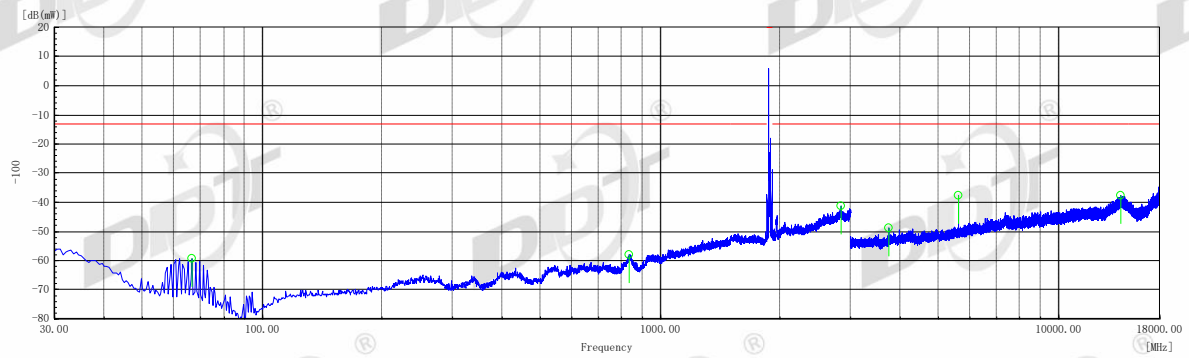
Frequency [MHz]	Pol	Level [dB μ V/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
70	H	37.2	-58.1	-13	45.1	106	270.4
834.5	H	37.1	-58.2	-13	45.2	175	45
2845	H	52.8	-42.5	-13	29.5	140	0.1
3702.5	H	46.2	-49.1	-13	36.1	116	315.6
5553.5	H	59.5	-35.8	-13	22.8	138	135.5
14656.5	H	58.3	-37	-13	24	180	315.6

Test Mode6: LTE Band 2 L channel (vertical)



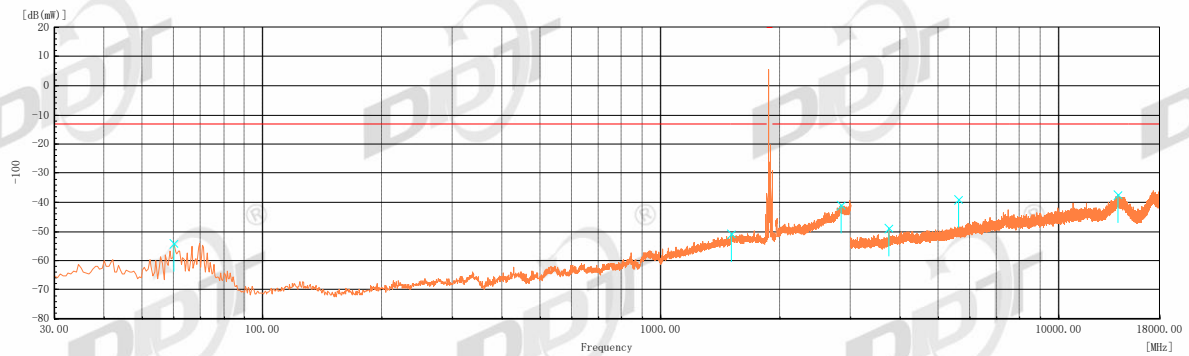
Frequency [MHz]	Pol	Level [dB μ V/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
61	V	40.9	-54.4	-13	41.4	173	0.3
927	V	39.0	-56.3	-13	43.3	112	0.3
2944	V	54.8	-40.5	-13	27.5	127	90
3719	V	43.2	-52.1	-13	39.1	148	45
5553.5	V	61.5	-33.8	-13	20.8	118	90
7404.001	V	55.5	-39.8	-13	26.8	146	179.5

Test Mode6: LTE Band 2 M channel (horizontal)



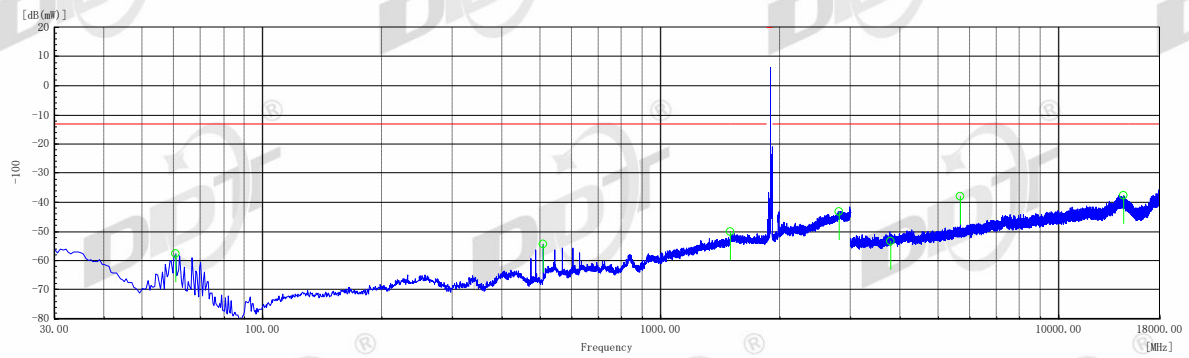
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
66.5	H	36.1	-59.2	-13	46.2	175	225.2
836	H	37.4	-57.9	-13	44.9	169	180.3
2847	H	53.9	-41.4	-13	28.4	139	270.5
3742	H	46.4	-48.9	-13	35.9	158	315.3
5613	H	57.5	-37.8	-13	24.8	168	0.3
14362.5	H	57.7	-37.6	-13	24.6	149	90.3

Test Mode6: LTE Band 2 M channel (vertical)



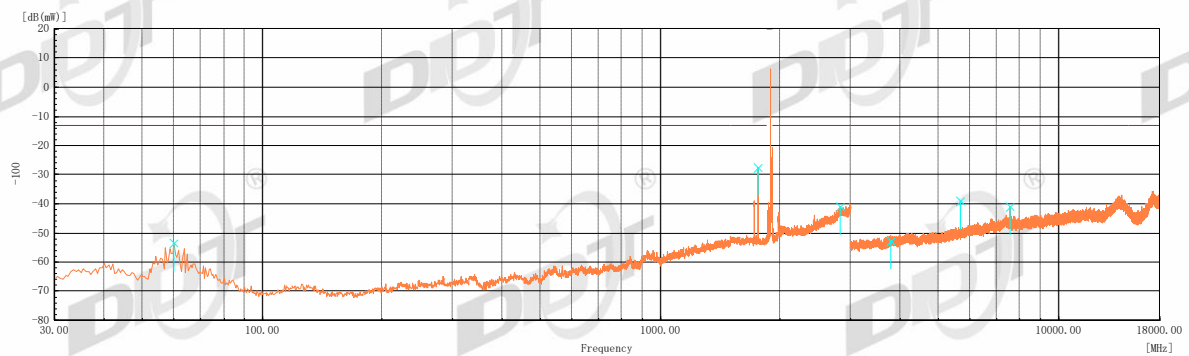
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
60	V	41.3	-54	-13	41	145	359.9
1504	V	44.4	-50.9	-13	37.9	159	134.9
2848.5	V	54.3	-41	-13	28	175	225.1
3742	V	46.4	-48.9	-13	35.9	141	90.1
5613	V	56.3	-39	-13	26	155	90.1
14097	V	57.8	-37.5	-13	24.5	155	90.1

Test Mode6: LTE Band 2 H channel (horizontal)



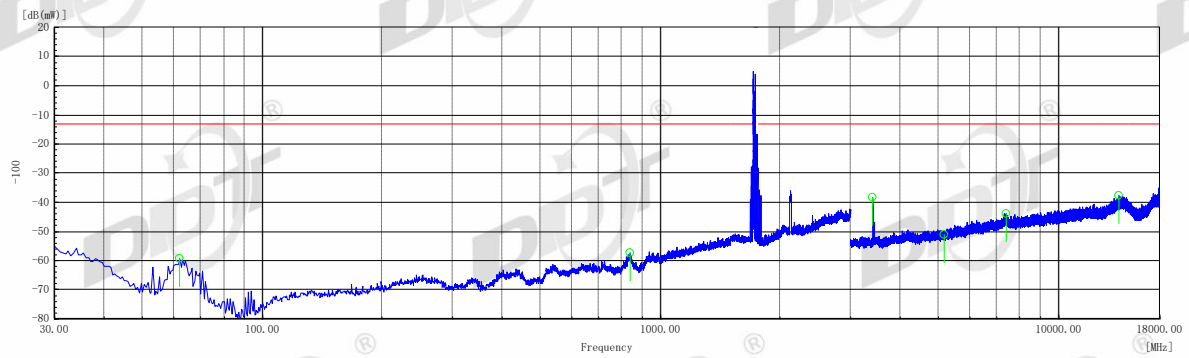
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
60.5	H	37.7	-57.6	-13	44.6	164	359.9
507.5	H	40.9	-54.4	-13	41.4	126	315
1502.5	H	45.1	-50.2	-13	37.2	130	359.9
2818	H	52.1	-43.2	-13	30.2	163	315
3800	H	41.9	-53.4	-13	40.4	115	45.3
5673.5	H	57.4	-37.9	-13	24.9	175	359.9
14580.5	H	57.6	-37.7	-13	24.7	164	225.4

Test Mode6: LTE Band 2 H channel (vertical)



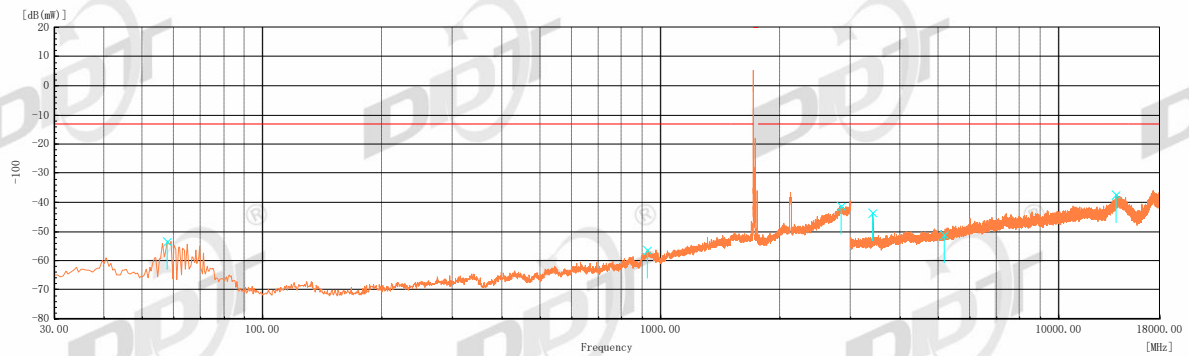
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
60	V	41.9	-53.4	-13	40.4	142	224.4
1755	V	67.7	-27.6	-13	14.6	115	134.5
2832.5	V	54.2	-41.1	-13	28.1	150	224.4
3800	V	42.4	-52.9	-13	39.9	173	89.7
5673.5	V	56.2	-39.1	-13	26.1	145	89.7
7564.501	V	54.2	-41.1	-13	28.1	100	179.8

Test Mode7: LTE Band 4 L channel (horizontal)



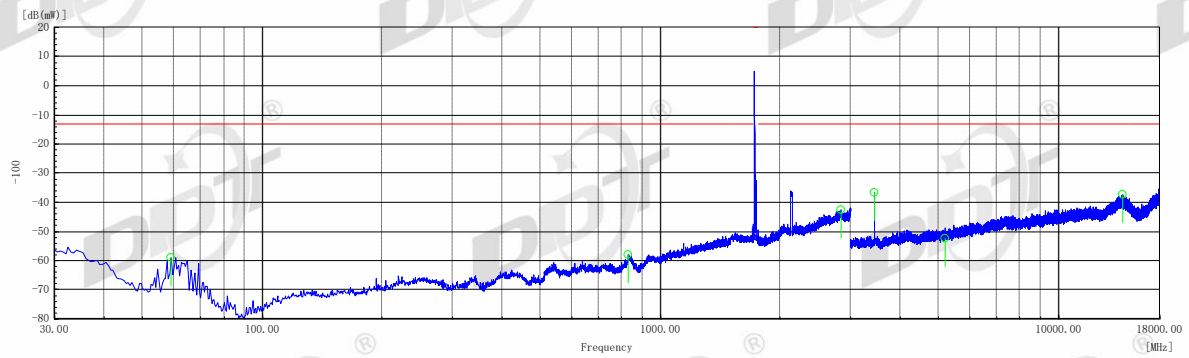
Frequency [MHz]	Pol	Level [dB μ V/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
62	H	35.9	-59.4	-13	46.4	133	90
837.5	H	37.9	-57.4	-13	44.4	129	225.8
3422.5	H	57.1	-38.2	-13	25.2	147	314.7
5160	H	44.2	-51.1	-13	38.1	161	225.8
7391.001	H	51.3	-44	-13	31	139	180.4
14219	H	57.6	-37.7	-13	24.7	154	135.4

Test Mode7: LTE Band 4 L channel (vertical)



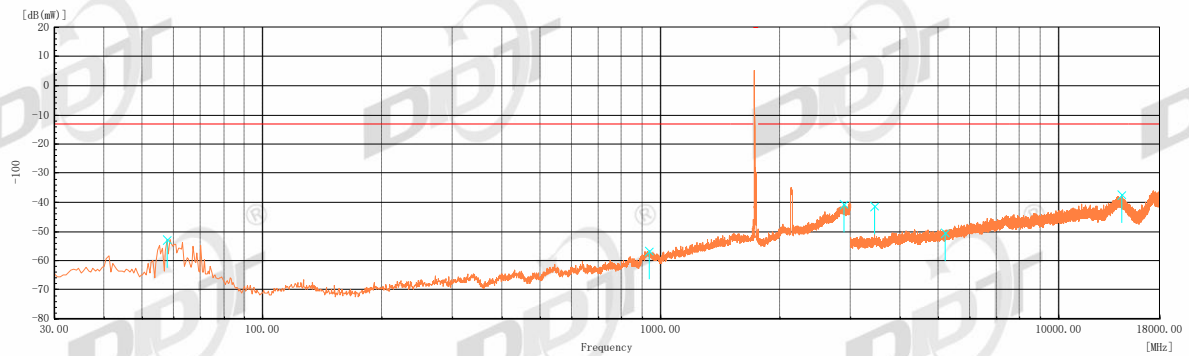
Frequency [MHz]	Pol	Level [dB μ V/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
57.5	V	42.0	-53.3	-13	40.3	120	179.5
924.5	V	39.0	-56.3	-13	43.3	166	314.7
2844	V	54.1	-41.2	-13	28.2	149	44.6
3422	V	51.7	-43.6	-13	30.6	135	269.4
5160	V	44.1	-51.2	-13	38.2	160	0.3
13993.5	V	57.9	-37.4	-13	24.4	101	44.6

Test Mode7: LTE Band 4 M channel (horizontal)



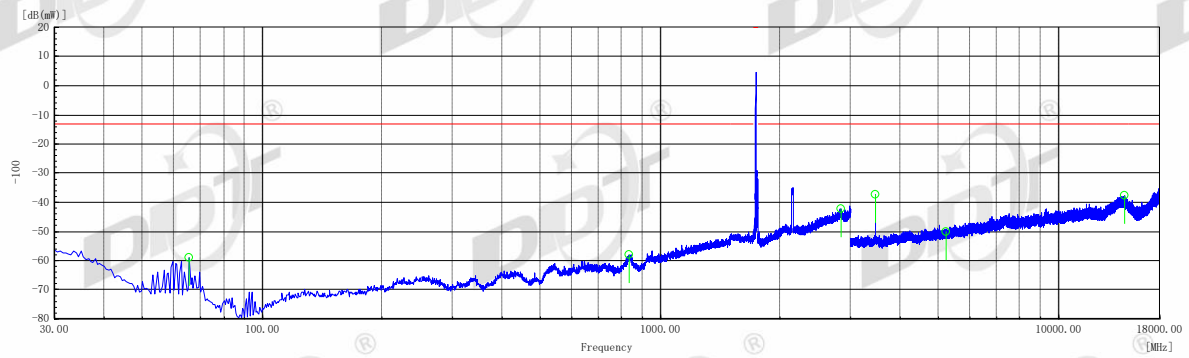
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
59	H	36.4	-58.9	-13	45.9	142	0.3
831	H	37.1	-58.2	-13	45.2	110	45.6
2842	H	52.5	-42.8	-13	29.8	120	135.2
3447.5	H	58.7	-36.6	-13	23.6	151	314.9
5197.5	H	42.7	-52.6	-13	39.6	123	270.4
14532	H	57.9	-37.4	-13	24.4	174	270.4

Test Mode7: LTE Band 4 M channel (vertical)



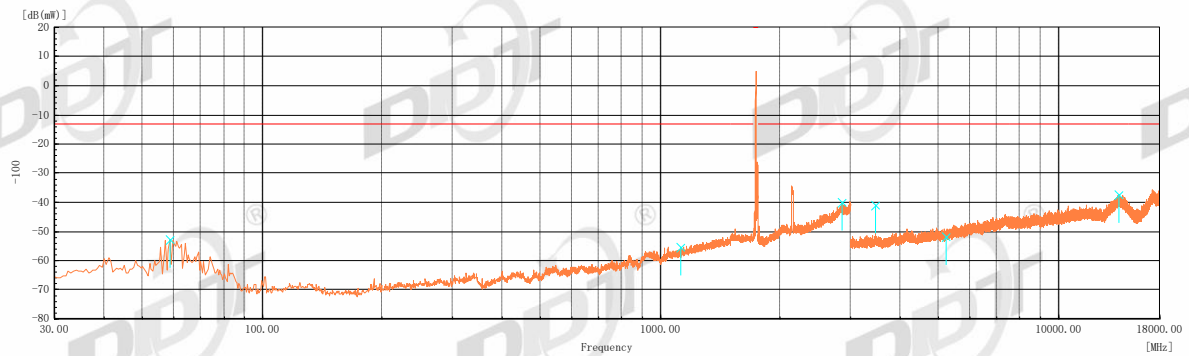
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
57.5	V	42.5	-52.8	-13	39.8	152	180.1
937	V	38.5	-56.8	-13	43.8	166	314.9
2885	V	54.5	-40.8	-13	27.8	118	135.1
3447	V	53.8	-41.5	-13	28.5	142	269.6
5197.5	V	44.7	-50.6	-13	37.6	103	135.1
14419	V	57.9	-37.4	-13	24.4	135	314.9

Test Mode7: LTE Band 4 H channel (horizontal)



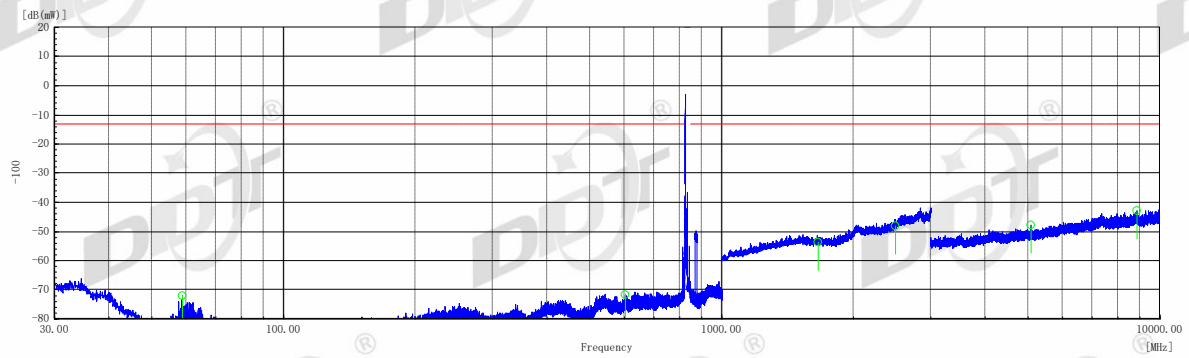
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
65.5	H	36.2	-59.1	-13	46.1	156	45.3
832.5	H	37.3	-58	-13	45	140	90.2
2836.5	H	53.2	-42.1	-13	29.1	159	90.2
3472.5	H	57.9	-37.4	-13	24.4	154	135.1
5235	H	45.2	-50.1	-13	37.1	178	0
14669	H	57.7	-37.6	-13	24.6	159	135.1

Test Mode7: LTE Band 4 H channel (vertical)



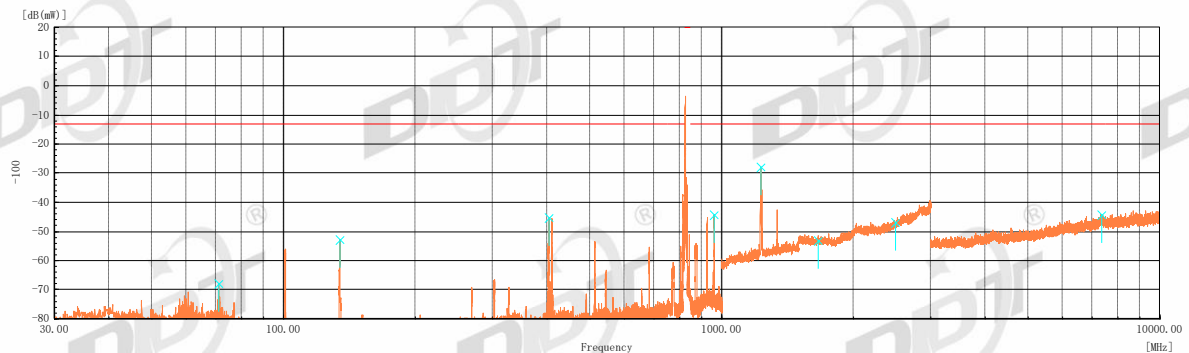
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
58.5	V	42.4	-52.9	-13	39.9	120	0.1
1125	V	40.0	-55.3	-13	42.3	136	44.5
2853.5	V	55.3	-40	-13	27	158	89.1
3472.5	V	54.3	-41	-13	28	165	269.5
5235	V	43.6	-51.7	-13	38.7	174	0.1
14164.5	V	57.8	-37.5	-13	24.5	156	135.1

Test Mode8: LTE Band 5 L channel (horizontal)



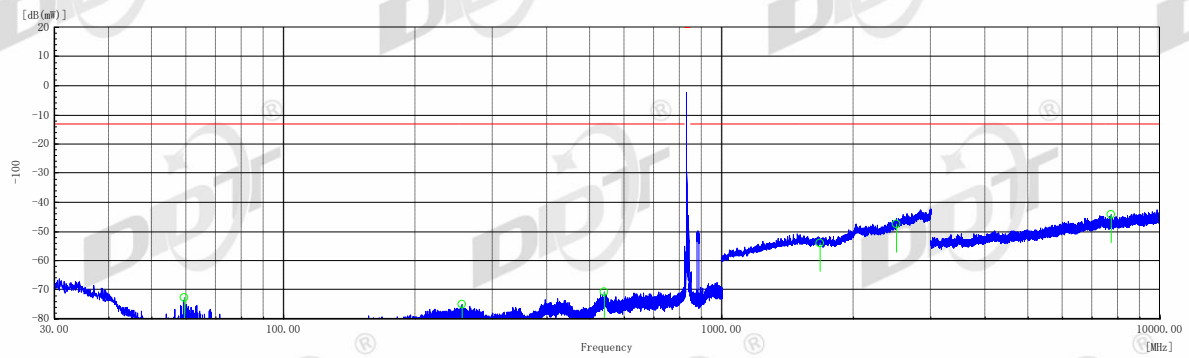
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
58.85	H	23.1	-72.2	-13	59.2	131	0.1
601.65	H	23.6	-71.7	-13	58.7	157	315.3
1658	H	41.7	-53.6	-13	40.6	174	180.7
2487	H	47.3	-48	-13	35	134	315.3
5087	H	47.5	-47.8	-13	34.8	135	135.4
8861.5	H	52.2	-43.1	-13	30.1	162	270.1

Test Mode8: LTE Band 5 L channel (vertical)



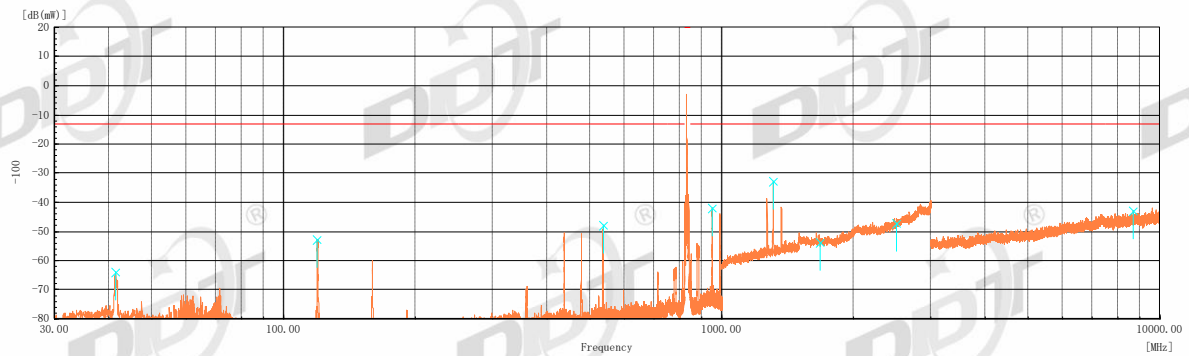
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
71.1	V	27.5	-67.8	-13	54.8	116	315.3
134.4	V	42.7	-52.6	-13	39.6	160	89.7
403.1	V	50.1	-45.2	-13	32.2	121	89.7
958.8	V	50.9	-44.4	-13	31.4	141	89.7
1228	V	67.4	-27.9	-13	14.9	142	89.7
1658	V	42.0	-53.3	-13	40.3	112	0.1
2487	V	48.4	-46.9	-13	33.9	113	225.1
7360.001	V	51.0	-44.3	-13	31.3	135	315.3

Test Mode8: LTE Band 5 M channel (horizontal)



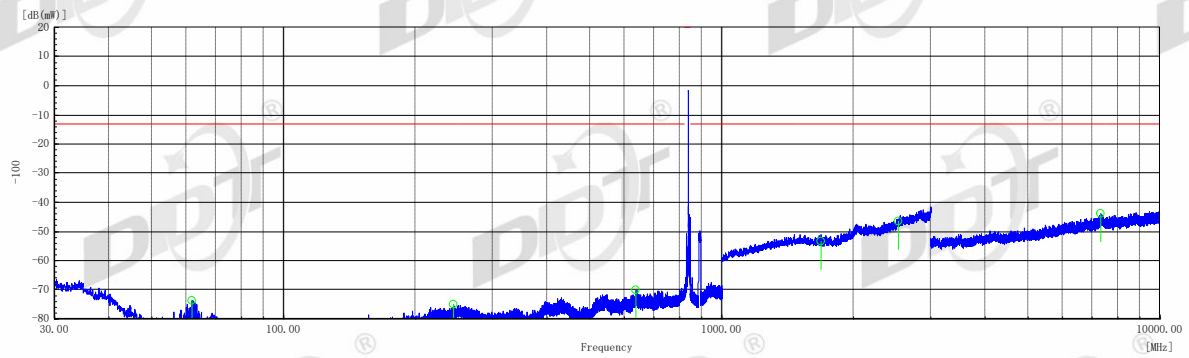
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
59.45	H	22.6	-72.7	-13	59.7	114	0.1
256	H	20.4	-74.9	-13	61.9	115	180.6
539.45	H	24.5	-70.8	-13	57.8	161	0.1
1673	H	41.1	-54.2	-13	41.2	101	269.7
2509.5	H	47.8	-47.5	-13	34.5	144	135.3
7746.001	H	50.9	-44.4	-13	31.4	109	0.1

Test Mode8: LTE Band 5 M channel (vertical)



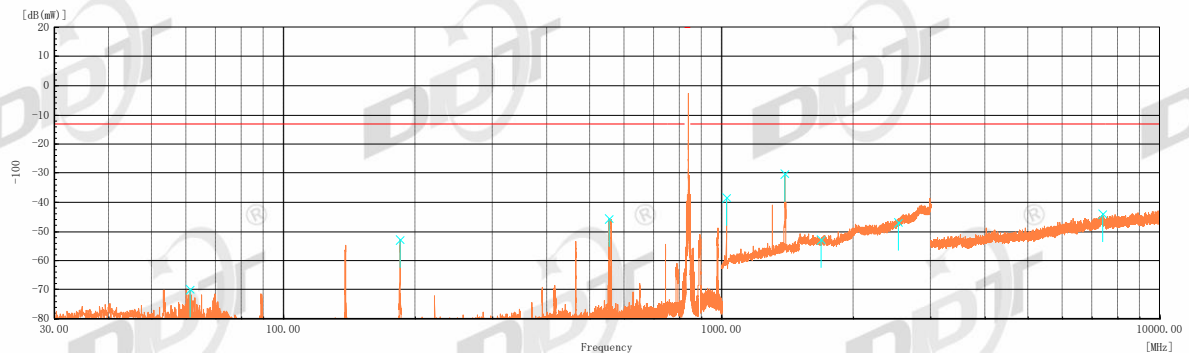
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
41.4	V	31.4	-63.9	-13	50.9	154	89.3
119.4	V	42.5	-52.8	-13	39.8	179	44.8
535.6	V	47.4	-47.9	-13	34.9	163	44.8
951.65	V	53.2	-42.1	-13	29.1	141	179.5
1310.5	V	62.6	-32.7	-13	19.7	172	89.3
1673	V	41.5	-53.8	-13	40.8	142	270.1
2509.5	V	48.2	-47.1	-13	34.1	154	44.8
8707	V	52.3	-43	-13	30	132	179.5

Test Mode8: LTE Band 5 H channel (horizontal)



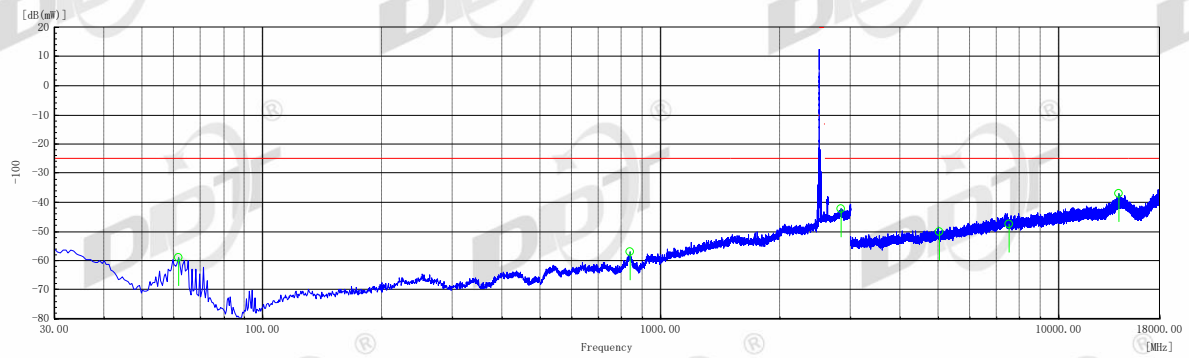
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
61.75	H	21.4	-73.9	-13	60.9	100	89.8
244.2	H	20.1	-75.2	-13	62.2	100	45.6
637.05	H	25.3	-70	-13	57	104	45.6
1688	H	42.0	-53.3	-13	40.3	173	180.3
2532	H	48.8	-46.5	-13	33.5	172	135.7
7316.501	H	51.4	-43.9	-13	30.9	118	89.8

Test Mode8: LTE Band 5 H channel (vertical)



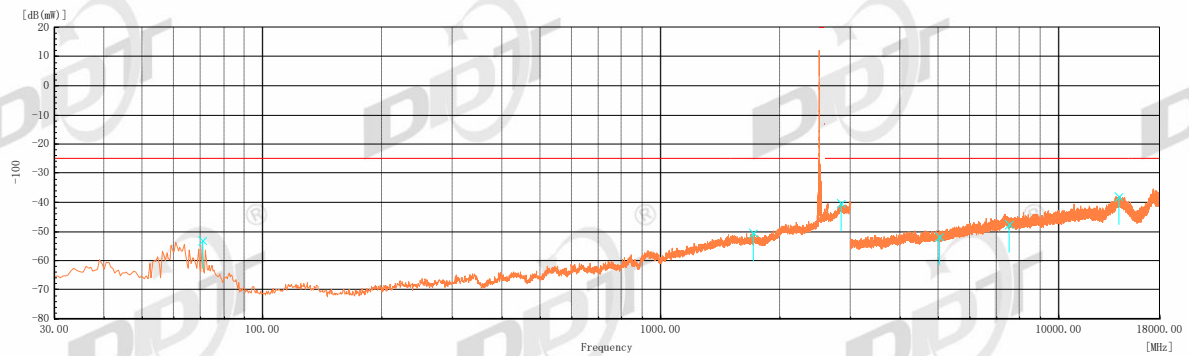
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
61.1	V	25.6	-69.7	-13	56.7	150	0.1
184.4	V	42.7	-52.6	-13	39.6	108	89.8
553.2	V	49.7	-45.6	-13	32.6	137	89.8
1024	V	57.1	-38.2	-13	25.2	177	89.8
1392.5	V	65.2	-30.1	-13	17.1	107	89.8
1688	V	42.6	-52.7	-13	39.7	168	134.4
2532	V	48.6	-46.7	-13	33.7	117	314.9
7385.501	V	51.4	-43.9	-13	30.9	148	0.1

Test Mode9: LTE Band 7 L channel (horizontal)



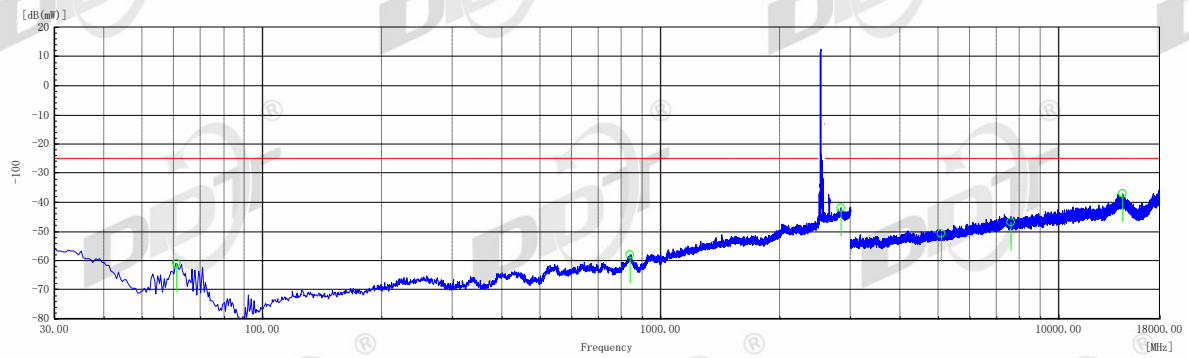
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
61.5	H	36.2	-59.1	-25	34.1	126	135.2
838.5	H	38.2	-57.1	-25	32.1	119	270
2847	H	53.1	-42.2	-25	17.2	173	90.3
5020	H	45.1	-50.2	-25	25.2	156	135.2
7530.001	H	47.9	-47.4	-25	22.4	170	90.3
14157	H	58.2	-37.1	-25	12.1	137	180.6

Test Mode9: LTE Band 7 L channel (vertical)



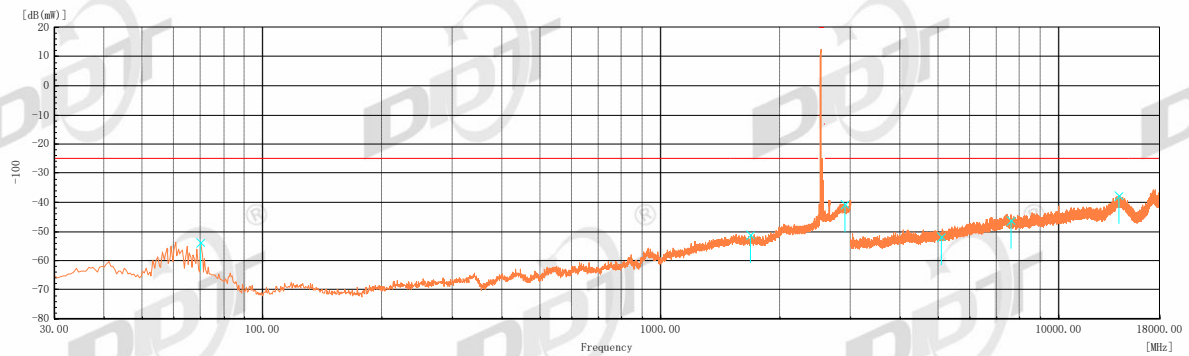
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
70.5	V	42.1	-53.2	-25	28.2	155	315.6
1710.5	V	44.7	-50.6	-25	25.6	124	45
2845.5	V	54.9	-40.4	-25	15.4	167	180
5020	V	43.5	-51.8	-25	26.8	129	90
7530.001	V	47.9	-47.4	-25	22.4	102	45
14168.5	V	57.4	-37.9	-25	12.9	162	315.6

Test Mode9: LTE Band 7 M channel (horizontal)



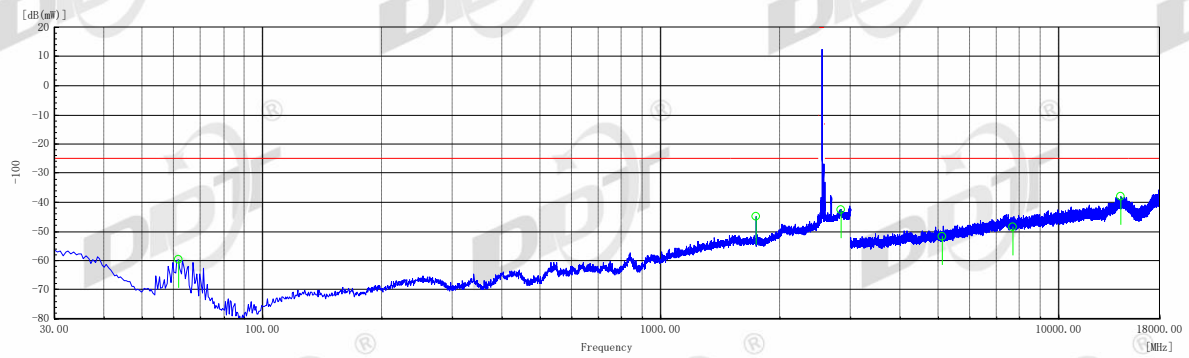
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
61	H	34.3	-61	-25	36	104	135.3
841	H	37.4	-57.9	-25	32.9	107	270.1
2851.5	H	53.4	-41.9	-25	16.9	141	89.8
5070	H	44.3	-51	-25	26	166	225.6
7605.001	H	48.5	-46.8	-25	21.8	161	0.3
14502	H	58.3	-37	-25	12	170	0.3

Test Mode9: LTE Band 7 M channel (vertical)



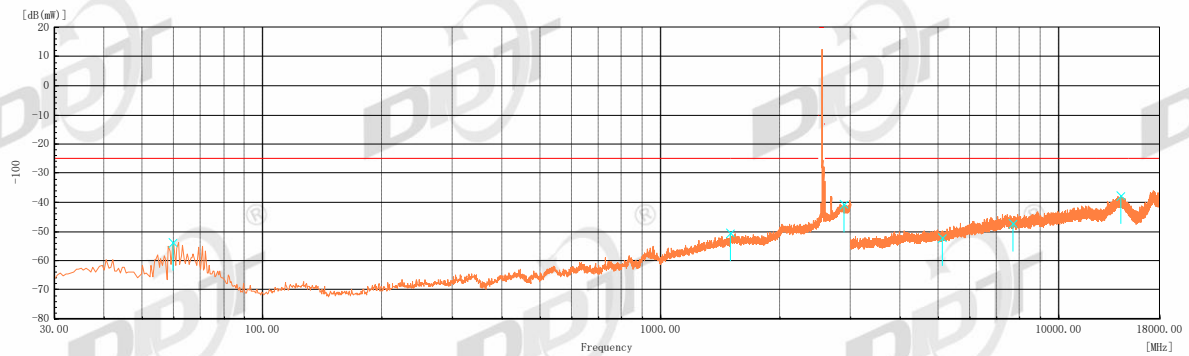
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
70	V	41.6	-53.7	-25	28.7	117	315.4
1685.5	V	44.3	-51	-25	26	163	134.6
2912	V	54.6	-40.7	-25	15.7	113	0.1
5070	V	43.6	-51.7	-25	26.7	164	0.1
7605.001	V	48.9	-46.4	-25	21.4	166	179.1
14198	V	57.5	-37.8	-25	12.8	163	315.4

Test Mode9: LTE Band 7 H channel (horizontal)



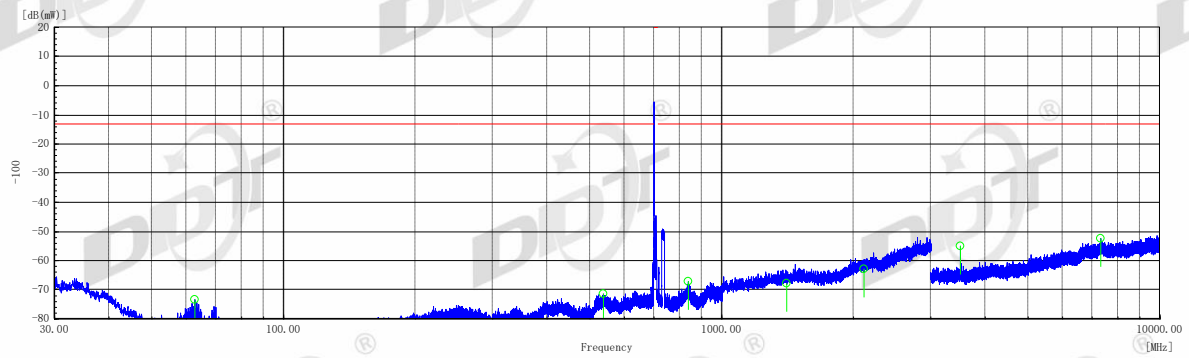
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
61.5	H	35.6	-59.7	-25	34.7	114	90.3
1742.5	H	50.5	-44.8	-25	19.8	157	90.3
2839.5	H	52.8	-42.5	-25	17.5	107	180.2
5120	H	43.6	-51.7	-25	26.7	106	270.5
7680.001	H	46.9	-48.4	-25	23.4	109	225.2
14366	H	57.2	-38.1	-25	13.1	109	180.2

Test Mode9: LTE Band 7 H channel (vertical)



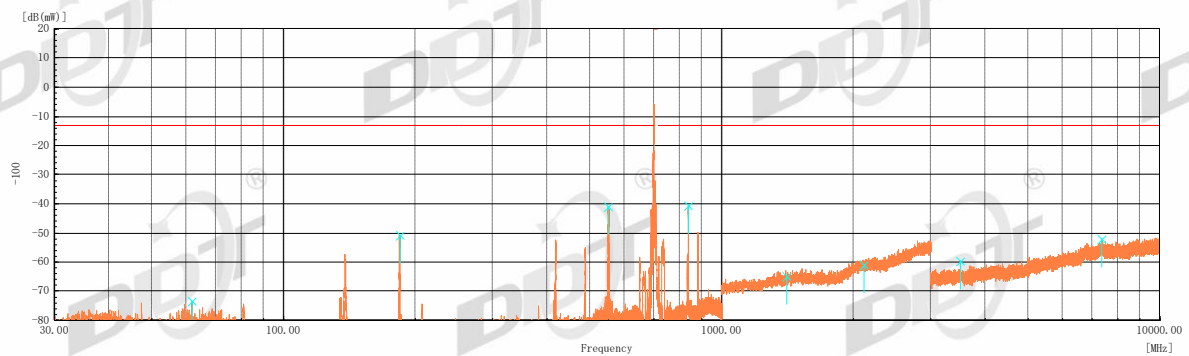
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
59.5	V	41.7	-53.6	-25	28.6	159	180.2
1501	V	44.8	-50.5	-25	25.5	157	315.7
2884	V	54.7	-40.6	-25	15.6	132	269.3
5120	V	43.3	-52	-25	27	150	134.1
7680.001	V	48.2	-47.1	-25	22.1	114	44.8
14325	V	57.6	-37.7	-25	12.7	122	315.7

Test Mode10: LTE Band 12 L channel (horizontal)



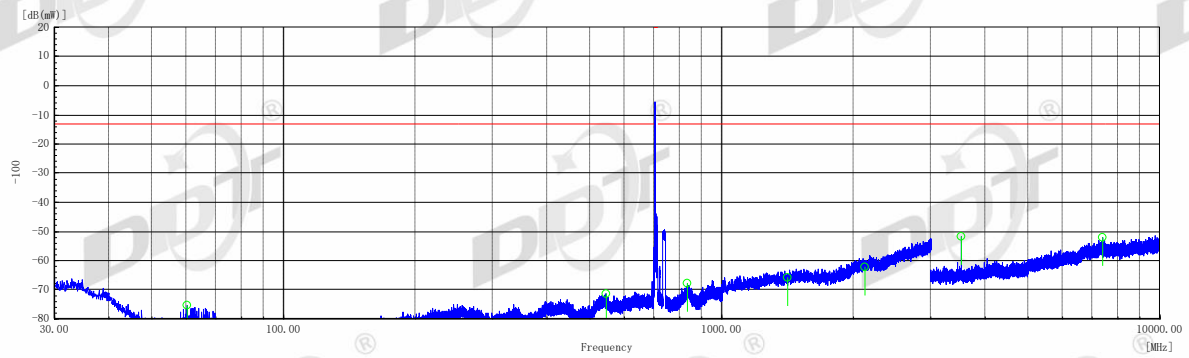
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
62.75	H	21.7	-73.6	-13	60.6	105	90.4
538.15	H	23.8	-71.5	-13	58.5	126	315.4
841.074	H	28.1	-67.2	-13	54.2	174	269.8
1408	H	27.5	-67.8	-13	54.8	155	134.9
2112	H	32.3	-63	-13	50	122	134.9
3498.4	H	40.2	-55.1	-13	42.1	106	180.3
7318.501	H	42.9	-52.4	-13	39.4	131	225.2

Test Mode10: LTE Band 12 L channel (vertical)



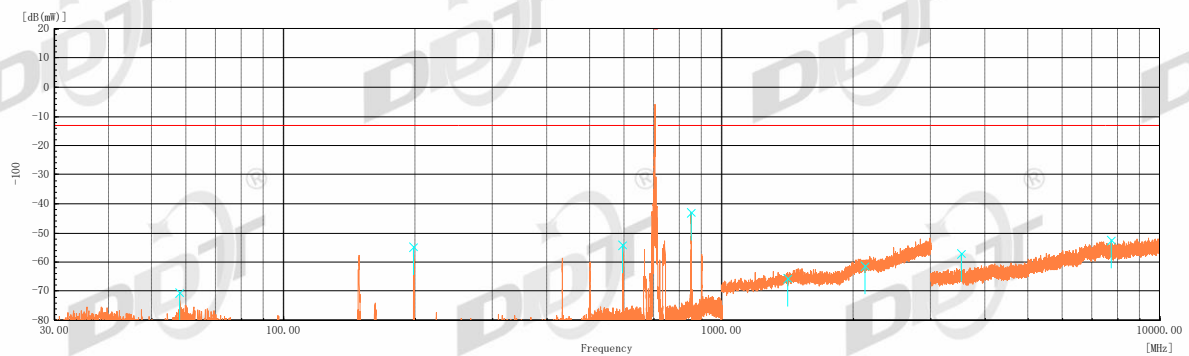
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
61.65	V	22.0	-73.3	-13	60.3	179	134.7
184.1	V	44.5	-50.8	-13	37.8	158	89.9
551.7	V	54.2	-41.1	-13	28.1	160	270.1
837.495	V	54.8	-40.5	-13	27.5	134	315.4
1408	V	30.5	-64.8	-13	51.8	106	225.2
2112	V	34.3	-61	-13	48	124	225.2
3497.6	V	35.8	-59.5	-13	46.5	131	270.1
7351.001	V	43.1	-52.2	-13	39.2	166	134.7

Test Mode10: LTE Band 12 M channel (horizontal)



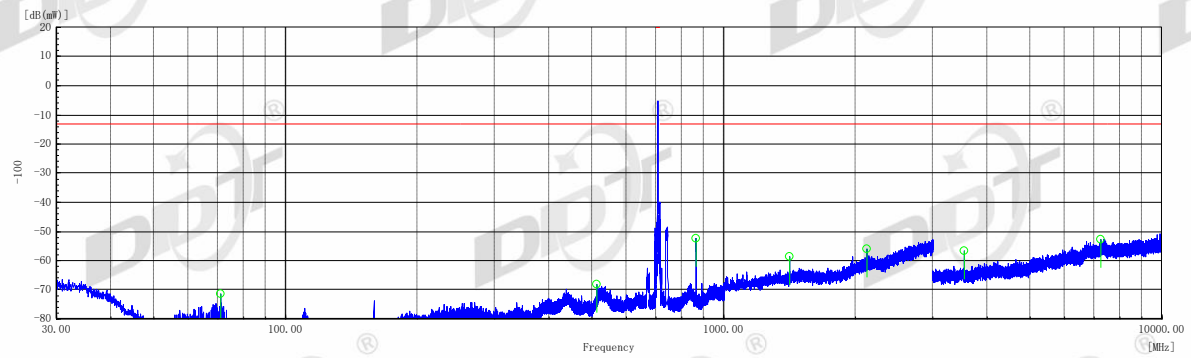
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
60.2	H	20.0	-75.3	-13	62.3	124	180.7
545.1	H	23.8	-71.5	-13	58.5	150	0.2
834.201	H	27.6	-67.7	-13	54.7	121	225.6
1415.2	H	29.5	-65.8	-13	52.8	135	90.3
2122.8	H	32.9	-62.4	-13	49.4	118	45.6
3515.6	H	43.6	-51.7	-13	38.7	121	315
7395.501	H	43.1	-52.2	-13	39.2	136	135.4

Test Mode10: LTE Band 12 M channel (vertical)



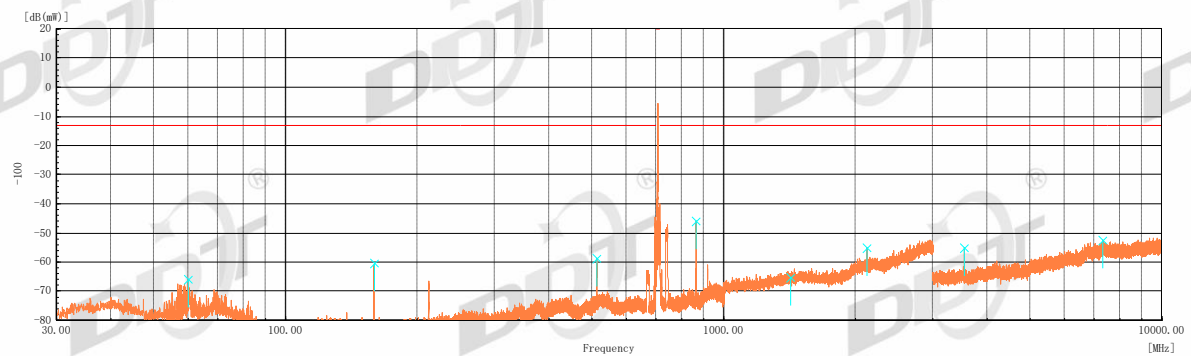
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
57.85	V	24.8	-70.5	-13	57.5	113	359.9
198.1	V	40.4	-54.9	-13	41.9	149	359.9
594.35	V	41.3	-54	-13	41	112	359.9
851.695	V	52.4	-42.9	-13	29.9	122	315
1415.2	V	29.8	-65.5	-13	52.5	165	224.8
2122.4	V	34.0	-61.3	-13	48.3	170	359.9
3515.6	V	38.3	-57	-13	44	118	269.7
7750.501	V	43.0	-52.3	-13	39.3	146	224.8

Test Mode10: LTE Band 12 H channel (horizontal)



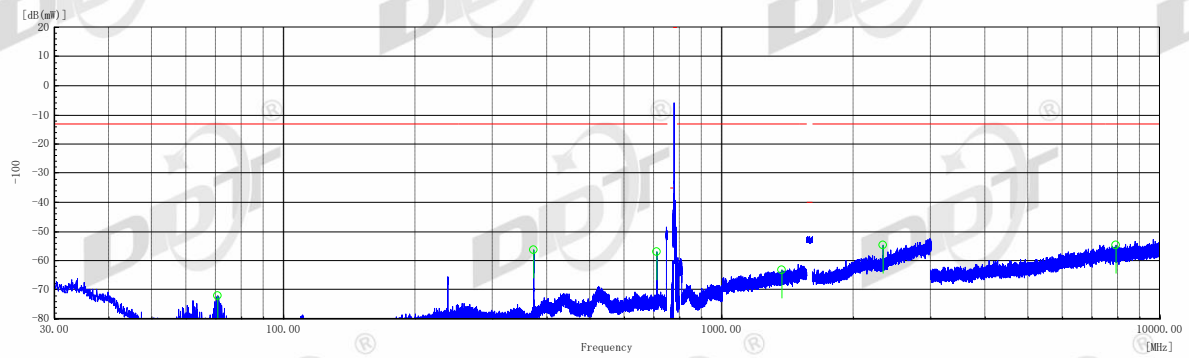
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
71.05	H	23.8	-71.5	-13	58.5	179	45.6
512.3	H	27.0	-68.3	-13	55.3	152	180.3
865.838	H	42.8	-52.5	-13	39.5	156	359.9
1413.2	H	36.6	-58.7	-13	45.7	134	225.2
2120	H	39.2	-56.1	-13	43.1	135	315.1
3532.8	H	38.5	-56.8	-13	43.8	164	270.6
7267.001	H	42.7	-52.6	-13	39.6	129	90.5

Test Mode10: LTE Band 12 H channel (vertical)



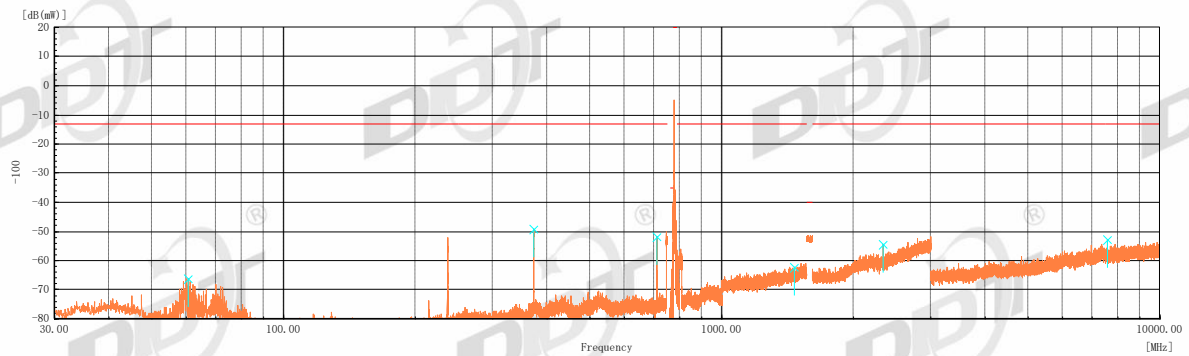
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
59.8	V	29.3	-66	-13	53	145	180
159.1	V	34.9	-60.4	-13	47.4	151	180
512.55	V	36.7	-58.6	-13	45.6	148	180
865.895	V	49.5	-45.8	-13	32.8	167	180
2120	V	40.3	-55	-13	42	118	315.1
3532.8	V	40.2	-55.1	-13	42.1	108	315.1
1422	V	30.1	-65.2	-13	52.2	132	359.9
7316.001	V	43.0	-52.3	-13	39.3	136	44.5

Test Mode11: LTE Band 13 M channel (horizontal)



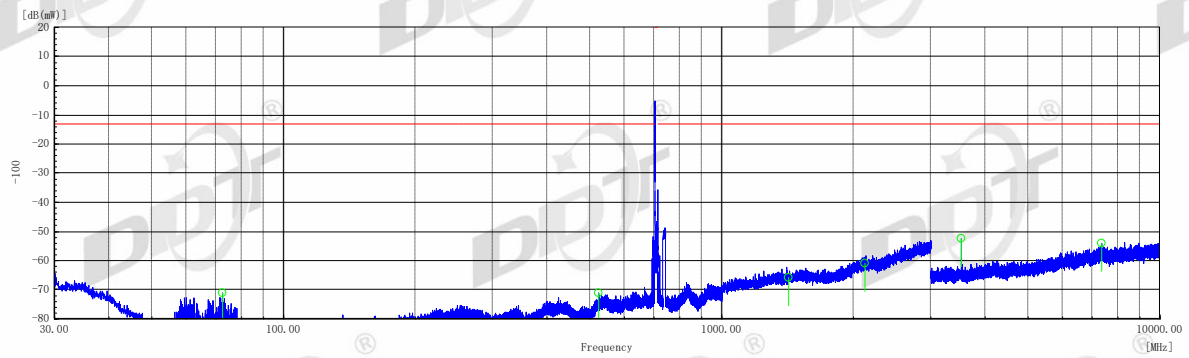
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
70.75	H	23.2	-72.1	-13	59.1	127	45.3
372.1	H	39.0	-56.3	-13	43.3	169	180
710.7	H	38.1	-57.2	-13	44.2	174	135.5
1371.9	H	32.0	-63.3	-13	50.3	126	270.3
2332.8	H	40.7	-54.6	-13	41.6	118	90.2
7955.501	H	40.6	-54.7	-13	41.7	102	45.3

Test Mode11: LTE Band 13 M channel (vertical)



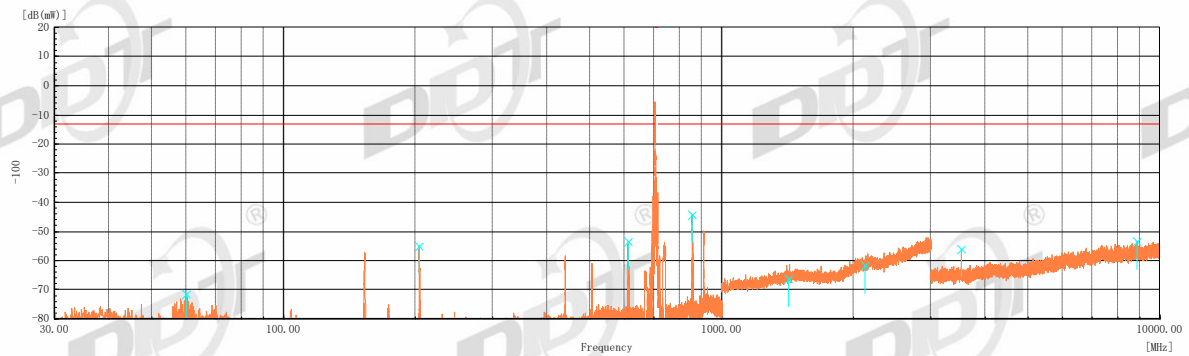
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
60.5	V	29.2	-66.1	-13	53.1	113	269.6
372.2	V	46.0	-49.3	-13	36.3	115	224.1
710.75	V	43.6	-51.7	-13	38.7	131	179.6
1464.5	V	33.1	-62.2	-13	49.2	107	89.4
2332.8	V	40.9	-54.4	-13	41.4	113	315.7
7597.001	V	42.4	-52.9	-13	39.9	139	179.6

Test Mode12: LTE Band 17 L channel (horizontal)



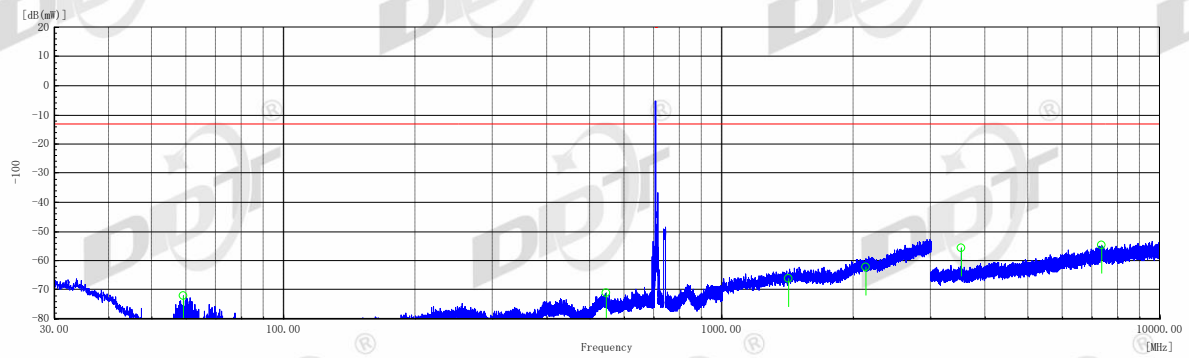
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
72.65	H	24.2	-71.1	-13	58.1	113	90.3
522.5	H	24.0	-71.3	-13	58.3	177	225.2
1418	H	29.4	-65.9	-13	52.9	161	180.2
2127.2	H	34.4	-60.9	-13	47.9	122	225.2
3522.8	H	42.7	-52.6	-13	39.6	100	135.3
7367.501	H	41.1	-54.2	-13	41.2	169	225.2

Test Mode12: LTE Band 17 L channel (vertical)



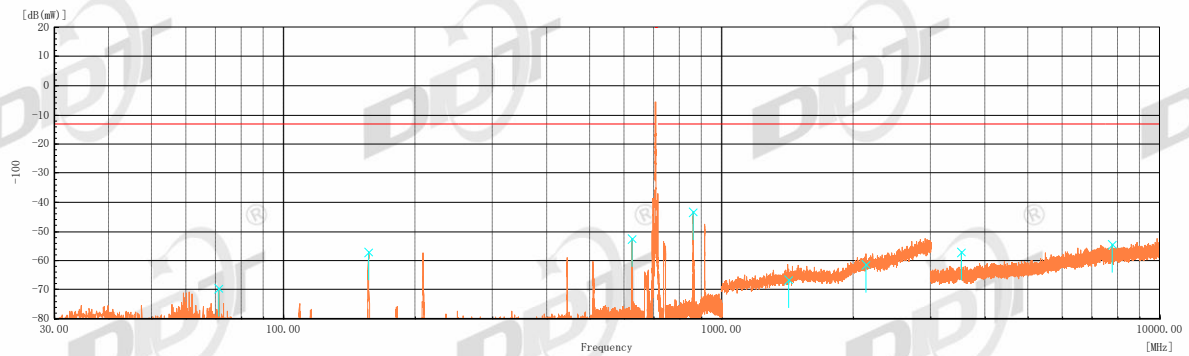
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
59.95	V	23.7	-71.6	-13	58.6	129	180.2
203.9	V	40.2	-55.1	-13	42.1	148	0.2
612.35	V	42.0	-53.3	-13	40.3	162	0.2
857.716	V	51.2	-44.1	-13	31.1	129	269.3
1418	V	29.1	-66.2	-13	53.2	110	0.2
2127.2	V	33.6	-61.7	-13	48.7	141	134.9
3523.2	V	39.2	-56.1	-13	43.1	123	90
8851.5	V	41.8	-53.5	-13	40.5	152	90

Test Mode12: LTE Band 17 M channel (horizontal)



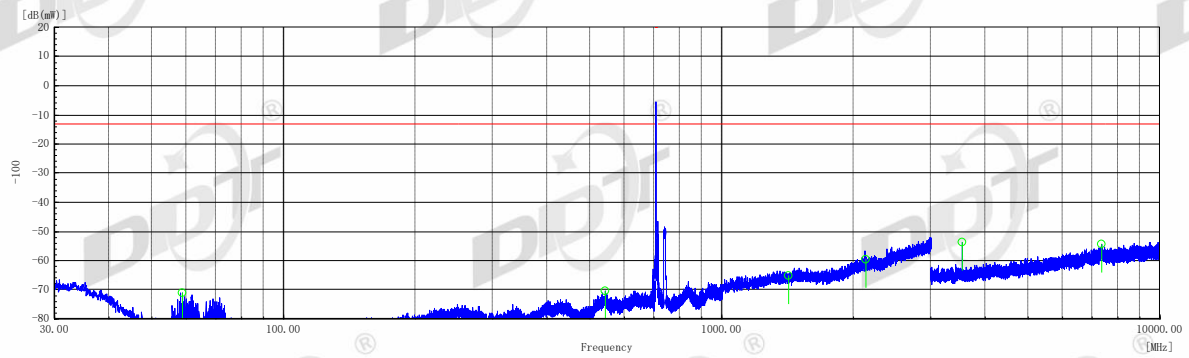
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
59.05	H	23.2	-72.1	-13	59.1	118	225.2
543.85	H	24.1	-71.2	-13	58.2	165	90.1
1420	H	29.0	-66.3	-13	53.3	106	225.2
2130	H	33.1	-62.2	-13	49.2	112	135.7
3527.6	H	39.6	-55.7	-13	42.7	156	90.1
7354.001	H	40.6	-54.7	-13	41.7	146	270.1

Test Mode12: LTE Band 17 M channel (vertical)



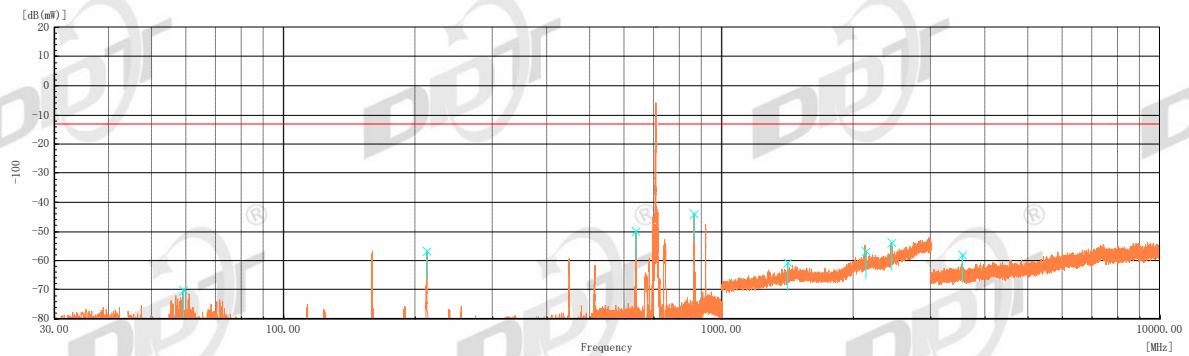
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
71.25	V	25.8	-69.5	-13	56.5	127	89.7
156.1	V	38.4	-56.9	-13	43.9	129	269.8
624.35	V	43.0	-52.3	-13	39.3	164	89.7
861.692	V	52.0	-43.3	-13	30.3	154	134.9
1420	V	28.8	-66.5	-13	53.5	163	45
2130	V	33.9	-61.4	-13	48.4	108	315
3528	V	38.1	-57.2	-13	44.2	158	89.7
7764.001	V	40.8	-54.5	-13	41.5	115	134.9

Test Mode12: LTE Band 17 H channel (horizontal)



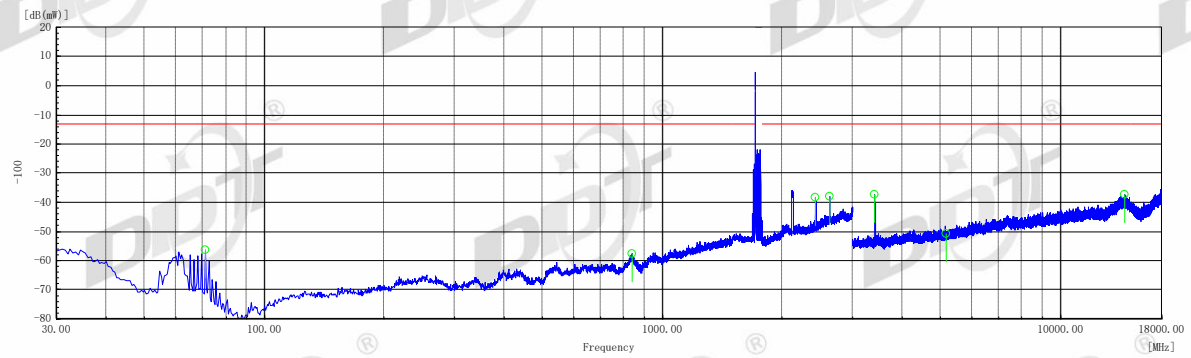
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
58.7	H	24.3	-71	-13	58	137	225.4
543	H	24.8	-70.5	-13	57.5	138	90
1422	H	30.1	-65.2	-13	52.2	164	0.1
2132.8	H	35.5	-59.8	-13	46.8	167	45
3533.2	H	41.4	-53.9	-13	40.9	177	315.6
7378.001	H	40.8	-54.5	-13	41.5	168	180

Test Mode12: LTE Band 17 H channel (vertical)



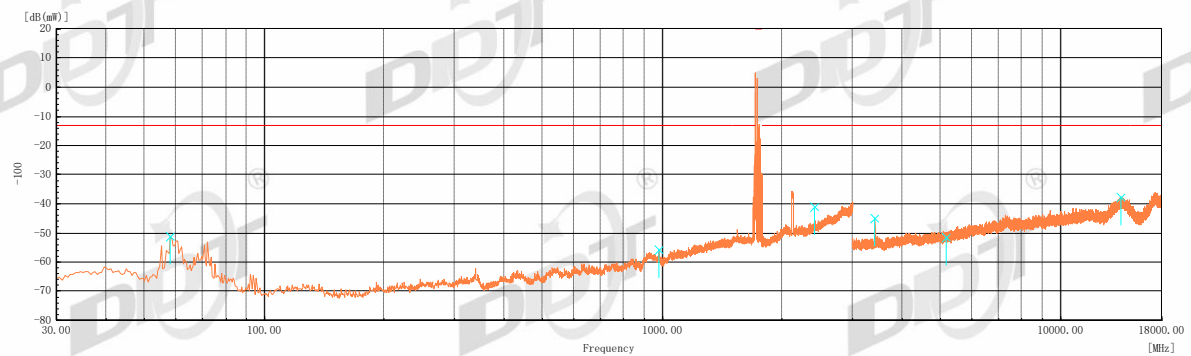
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
58.95	V	25.0	-70.3	-13	57.3	152	225
212.15	V	38.5	-56.8	-13	43.8	170	45
636.35	V	45.4	-49.9	-13	36.9	153	180
865.668	V	51.3	-44	-13	31	141	225
1413.2	V	34.5	-60.8	-13	47.8	179	269.1
2132	V	38.4	-56.9	-13	43.9	172	180
2445.6	V	41.7	-53.6	-13	40.6	113	90
3532.8	V	37.3	-58	-13	45	139	269.1

Test Mode13: LTE Band 66 L channel (horizontal)



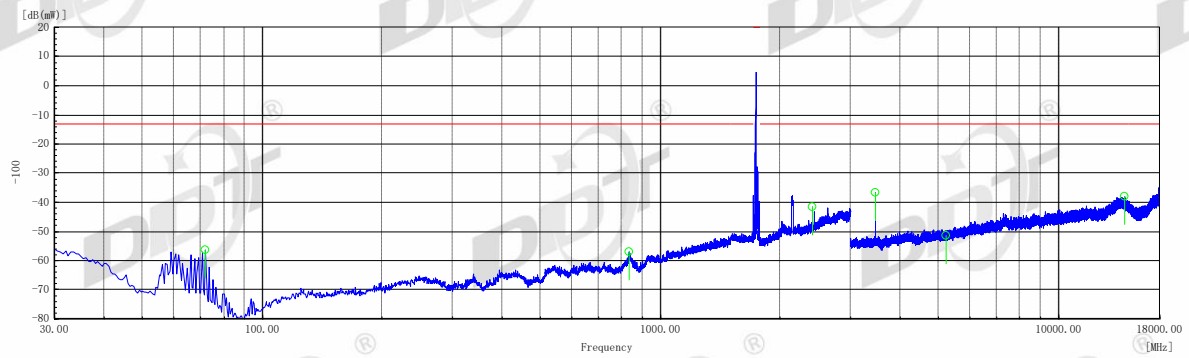
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
71	H	38.8	-56.5	-13	43.5	108	90.2
837	H	37.7	-57.6	-13	44.6	166	270.8
2429.687	H	57.0	-38.3	-13	25.3	113	90.2
2630.08	H	57.3	-38	-13	25	133	45.7
3422	H	57.9	-37.4	-13	24.4	120	314.9
5160	H	44.4	-50.9	-13	37.9	125	134.8
14496	H	58.0	-37.3	-13	24.3	176	270.8

Test Mode13: LTE Band 66 L channel (vertical)



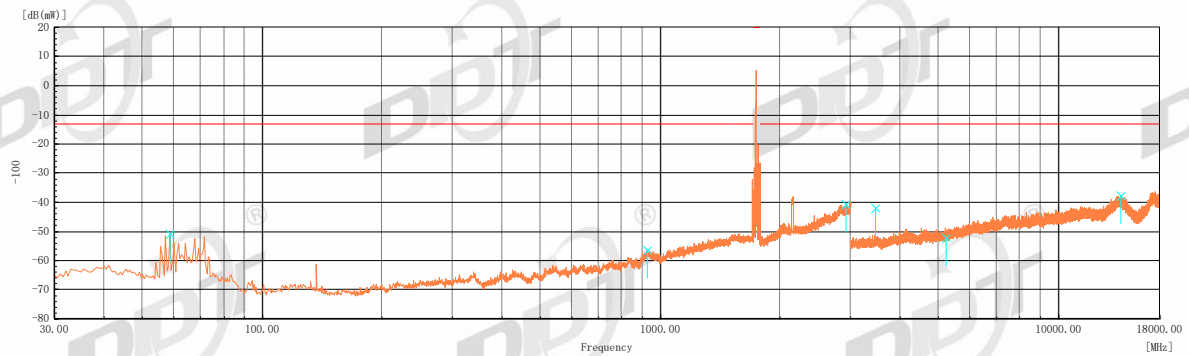
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
58	V	44.0	-51.3	-13	38.3	127	225.1
980	V	39.7	-55.6	-13	42.6	167	359.9
2408.619	V	54.5	-40.8	-13	27.8	156	225.1
3421.5	V	50.5	-44.8	-13	31.8	117	269.6
5160	V	43.7	-51.6	-13	38.6	140	134.8
14189	V	57.5	-37.8	-13	24.8	164	44.5

Test Mode13: LTE Band 66 M channel (horizontal)



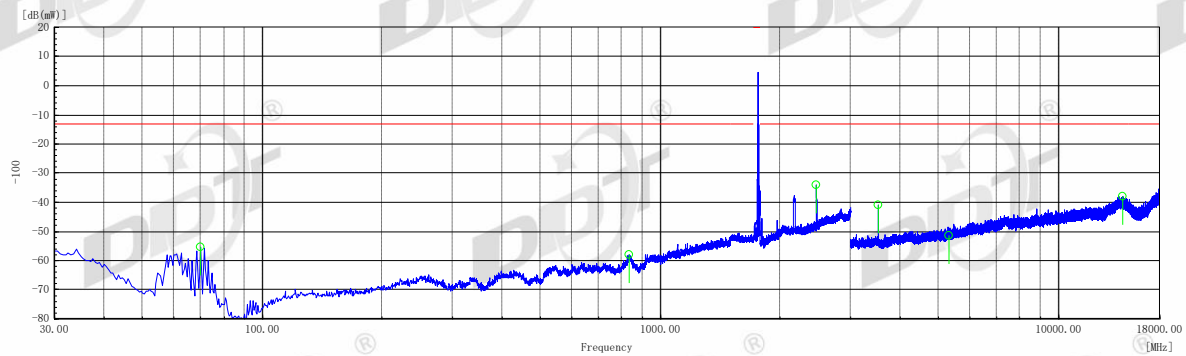
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
72	H	38.9	-56.4	-13	43.4	115	90.1
833	H	38.3	-57	-13	44	109	270.6
2415.968	H	53.5	-41.8	-13	28.8	107	225.7
3472.5	H	58.7	-36.6	-13	23.6	162	315.6
5235	H	43.9	-51.4	-13	38.4	151	90.1
14646.5	H	57.4	-37.9	-13	24.9	110	180.3

Test Mode13: LTE Band 66 M channel (vertical)



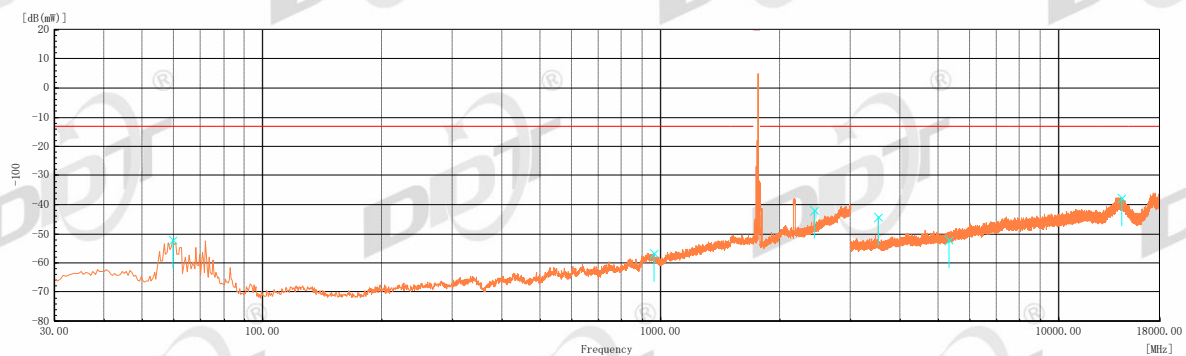
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
58.5	V	44.4	-50.9	-13	37.9	119	269.4
929	V	38.7	-56.6	-13	43.6	169	89.4
2928.956	V	54.5	-40.8	-13	27.8	138	89.4
3472	V	53.5	-41.8	-13	28.8	134	269.4
5235	V	43.3	-52	-13	39	159	89.4
14319	V	57.5	-37.8	-13	24.8	170	179.9

Test Mode13: LTE Band 66 H channel (horizontal)



Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
70	H	40.0	-55.3	-13	42.3	131	90.7
835	H	37.4	-57.9	-13	44.9	152	135.2
2468.394	H	61.2	-34.1	-13	21.1	149	359.9
3522	H	54.5	-40.8	-13	27.8	105	315.4
5310	H	43.7	-51.6	-13	38.6	155	315.4
14531	H	57.3	-38	-13	25	105	225.1

Test Mode13: LTE Band 66 H channel (vertical)



Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
59.5	V	43.1	-52.2	-13	39.2	139	269.3
961	V	38.7	-56.6	-13	43.6	146	44.7
2439.976	V	53.2	-42.1	-13	29.1	129	134.9
3522.5	V	51.0	-44.3	-13	31.3	156	269.3
5310	V	43.1	-52.2	-13	39.2	166	179.4
14392	V	57.8	-37.5	-13	24.5	106	269.3

Note:

- 1) The disturbance above 18GHz and below 30MHz was very low at band GSM1900 and WCDMA Band II/ IV and LTE Band2/4/7/66, and the above harmonics are the highest points could be found when testing, so only the worst case data had been displayed.
- 2) GSM850 and WCDMA Band V and LTE Band5/12/13/17 working frequency lower than 1GHz, only test the tenth harmonic of the highest fundamental frequency. And the disturbance below 30MHz was very low, and the above harmonics are the highest points could be found when testing, so only the worst case data had been displayed.
- 2) We have tested all modulation and Bandwidth, but only the worst case data presented in this report.

7. Appendixes

The below appendixes were details results tested and supported by SGS-CSTC Standards Technical Services, Co., Ltd. Shenzhen Branch (Date of Test: 2019/2/22 ~2019/3/7).

All appendixes were cited in this report.

Appendix	Item
Appendix B.1	GSM850 & GSM1900
Appendix B.2	WCDMA BAND II & IV & V
Appendix B.3	LTE Band 2
Appendix B.4	LTE Band 4
Appendix B.5	LTE Band 5
Appendix B.6	LTE Band 7
Appendix B.7	LTE Band 12
Appendix B.8	LTE Band 13
Appendix B.9	LTE Band 17
Appendix B.10	LTE Band 66