

Report No.: SUCR2401000005AT01  
 Rev.: 01  
 Page: 1 of 170

# TEST REPORT

**Application No.:** SUCR2401000005AT  
**Applicant:** Quectel Wireless Solutions Co., Ltd.  
**Address of Applicant:** Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233  
**Manufacturer:** Quectel Wireless Solutions Co., Ltd.  
**Address of Manufacturer:** Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233  
**EUT Description:** 5G Sub-6 GHz M.2 Module  
**Model No.:** RM520N-GL  
**Trade Mark:** Quectel  
**FCC ID:** XMR2023RM520NGL  
**Standards:** 47 CFR Part 2  
 47 CFR Part 22  
 47 CFR Part 24  
 47 CFR Part 27  
 47 CFR Part 90  
 47 CFR Part 96  
**Date of Receipt:** 2024/01/08  
**Date of Test:** 2024/01/15 to 2024/02/02  
**Date of Issue:** 2024/02/05

<b>Test Result :</b>	<b>PASS *</b>
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\* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Well Wei  
 Wireless Laboratory Manager



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# 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024/02/05		Original

Prepared By	
	(Tizzy Song) / Test Engineer
Checked By	
	(Stone Gu) / Reviewer



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Wireless Laboratory

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## Contents

1	Version .....	2
2	Test Summary .....	5
2.1	UMTS Band 5/LTE Band 5/26(824~849 MHz)/CA_5B .....	5
2.2	UMTS Band 2 /LTE Band 2 /25/ CA_2C .....	6
2.3	UMTS Band 4 /LTE Band 4 /66 /CA_66B /CA_66C .....	7
2.4	LTE Band 7/38/41/CA_7C/ CA_38C/ CA_41C .....	8
2.5	LTE Band 12/17 .....	9
2.6	LTE Band 13 .....	10
2.7	LTE Band 14 .....	11
2.8	LTE Band 26(814~824 MHz) .....	13
2.9	LTE Band 30 .....	14
2.10	LTE Band 42/ CA_42C .....	16
2.11	LTE Band 43/ CA_43C .....	17
2.12	LTE Band 71 .....	18
2.13	LTE Band 48/ CA_48C .....	19
3	General Information .....	23
3.1	Details of Client .....	23
3.2	Test Location .....	23
3.3	Test Facility .....	23
3.4	General Description of EUT .....	24
3.5	Test Mode .....	25
3.6	Test Environment .....	25
3.7	Description of Support Units .....	25
3.8	Technical Specification .....	26
3.9	Test Frequencies .....	29
4	Description of Tests .....	49
4.1	Conducted Output Power .....	49
4.2	Effective (Isotropic) Radiated Power of Transmitter .....	50
4.3	EIRP Power Density .....	51
4.4	Occupied Bandwidth .....	52



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4.5 Band Edge at Antenna Terminals .....53

4.6 Spurious And Harmonic Emissions at Antenna Terminal .....54

4.7 Peak-Average Ratio .....55

4.8 Field Strength of Spurious Radiation .....56

4.9 Frequency Stability / Temperature Variation.....57

4.10 Test Setups .....58

    4.10.1 Test Setup 1 .....58

    4.10.2 Test Setup 2 .....58

    4.10.3 Test Setup 3 .....59

4.11 Test Conditions .....60

5 Main Test Instruments .....61

6 Measurement Uncertainty .....62

7 Photographs - Setup Photos .....63



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## 2 Test Summary

### 2.1 UMTS Band 5/LTE Band 5/26(824~849 MHz)/CA\_5B

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913(a)(5)	ERP ≤ 7 W	Reference report SEWA2309000114RG01	
Peak-Average Ratio	§22.913(d)	Limit ≤ 13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §22.917(a)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.		
Spurious Emission at Antenna Terminals	§2.1051, §22.917(a)	FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges.		
Field Strength of Spurious Radiation	§2.1053, §22.917(a)	FCC: ≤ -13 dBm/100 kHz.	Appendix	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §22.355	±2.5ppm.	Reference report SEWA2309000114RG01	



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**2.2 UMTS Band 2 /LTE Band 2 /25/ CA\_2C**

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §24.232(c)	EIRP ≤ 2 W	Reference report SEWA2309000114RG01	
Peak-Average Ratio	§24.232(d)	Limit≤13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §24.238(a)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.		
Spurious Emission at Antenna Terminals	§2.1051, §24.238(a)	≤ -13 dBm/1 MHz, from 9 kHz to 10 <sup>th</sup> harmonics but outside authorized operating frequency ranges.		
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	≤ -13 dBm/1 MHz.	Appendix	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §24.235	Within authorized bands of operation/frequency block.	Reference report SEWA2309000114RG01	



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**2.3 UMTS Band 4 /LTE Band 4 /66 /CA\_66B /CA\_66C**

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(d)(4)	EIRP ≤ 1 W	Reference report SEWA2309000114RG01	
Peak-Average Ratio	§27.50(d)(5)	Limit≤13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §27.53(h)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.		
Spurious Emission at Antenna Terminals	§2.1051, §27.53(h)	≤ -13 dBm/1 MHz, from 9 kHz to 10 <sup>th</sup> harmonics but outside authorized operating frequency ranges.		
Field Strength of Spurious Radiation	§2.1053, §27.53(h)	≤ -13 dBm/1 MHz.	Appendix	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Reference report SEWA2309000114RG01	



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**2.4 LTE Band 7/38/41/CA\_7C/ CA\_38C/ CA\_41C**

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(h)(2)	EIRP ≤ 2W	Reference report SEWA2309000114RG01	
Peak-Average Ratio	---	≤13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §27.53(m4)	For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz.		
Spurious Emission at Antenna Terminals	§2.1051, §27.53(m)			
Field Strength of Spurious Radiation	§2.1053, §27.53(m)		Appendix	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Reference report SEWA2309000114RG01	



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**2.5 LTE Band 12/17**

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)(10)	ERP ≤ 3 W.	Reference report SEWA2309000114RG01	
Peak-Average Ratio	---	Limits ≤ 13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §27.53(g)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.		
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10 <sup>th</sup> harmonics but outside authorized operating frequency ranges.		
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	FCC: ≤ -13 dBm/100 kHz.	Appendix	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Reference report SEWA2309000114RG01	



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### 2.6 LTE Band 13

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(b)(10)	ERP ≤ 3 W.	Reference report SEWA2309000114RG01	
Peak-Average Ratio	---	Limit≤13 dB		
Bandwidth	§2.1049,	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §27.53(c)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.		
Spurious Emission at Antenna Terminals	§2.1051, §27.53(c) §27.53(f)	≤ -13 dBm/100 kHz, from 9 kHz to 10 <sup>th</sup> harmonics but outside authorized operating frequency ranges. On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations. For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.		
Field Strength of Spurious Radiation	§2.1053, §27.53(c) §27.53(f)	FCC: ≤ -13 dBm/100 kHz. For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.	Appendix	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Reference report SEWA2309000114RG01	



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2.7 LTE Band 14

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §90.542(a)	ERP ≤ 3 W.		
Peak-Average Ratio	---	Limit≤13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Emission Mask	§2.1051 §90.210(b)	Transmitters designed for operation under this part on frequencies other than listed in this section must meet the emission mask requirements of Emission Mask B. Equipment operating under this part on frequencies allocated to but shared with the Federal Government, must meet the applicable Federal Government technical standards (b) Emission Mask B. For transmitters that are equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows: (1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB.(2) On any frequency removed from the assigned frequency by more than 100 percent, but not more than 250 percent of the authorized bandwidth: At least 35 dB..(3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least 43 + 10 log (P) dB.	Reference report SEWA2309000114RG01	
Band Edges Compliance	§2.1051 §90.543(e)(2)(3)	(1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations.(2) On all frequencies between 769-775 MHz and 799-		



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		805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.(3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB.		
Spurious Emission at Antenna Terminals	§2.1051, §90.543(c) §90.543(f)	FCC: $\leq -13$ dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges. For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/ MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.		
Field Strength of Spurious Radiation	§2.1053, §90.543(c) §90.543(f)	FCC: $\leq -13$ dBm/100 kHz. For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/ MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.	Appendix	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §90.213	Within authorized bands of operation/frequency block.	Reference report SEWA2309000114RG01	



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**2.8 LTE Band 26(814~824 MHz)**

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Transmitter Conducted Power Output	§2.1046, §90.635(b)	< 100 W.	Reference report SEWA2309000114RG01	
Peak-Average Ratio	---	Limit≤13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Emission Mask	§2.1051 § 90.691(a)	For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50+10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.		
Spurious Emission at Antenna Terminals	§2.1051, §90.691	< 43 + 10Log10(P[Watts]) for all out-of-band emissions	Appendix	Pass
Field Strength of Spurious Radiation	§2.1053, §90.691	< 43 + 10Log10(P[Watts]) for all out-of-band emissions		
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §90.213	Within authorized bands of operation/frequency block.	Reference report SEWA2309000114RG01	



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### 2.9 LTE Band 30

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(a)(3)	EIRP ≤ 50mW/1MHz EIRP ≤ 250mW/5MHz		
Peak-Average Ratio	---	FCC: Limits ≤ 13 dB		
Bandwidth	§2.1049,	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §27.53(a)(4)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.		
Spurious Emission at Antenna Terminals	§2.1051, §27.53(a)(4)	<p>Figure 1: Unwanted Emissions for Mobile, Portable, and Low Power Fixed Subscriber Equipment</p> <p>For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:</p> <p>(i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz;</p> <p>(ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies</p>	Reference report SEWA2309000114RG01	



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		between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz;(iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.		
Field Strength of Spurious Radiation	§2.1053, §27.53(a)(4)	≤ -40dBm/MHz.	Appendix	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	within the range of the operating frequency blocks	Reference report SEWA2309000114RG01	



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**2.10 LTE Band 42/ CA\_42C**

**3450-3550MHz:**

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(k)(3)	EIRP ≤ 30dBm	Reference report SEWA2309000114RG01	
Peak-Average Ratio	§27.50(k)(4)	Limit≤13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §27.53(n)(2)	For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.		
Spurious Emission at Antenna Terminals	§2.1051, §27.53(n)(2)	For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.		
Field Strength of Spurious Radiation	§2.1053, §27.53(n)(2)	For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.	Appendix	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/ frequency block.	Reference report SEWA2309000114RG01	



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## 2.11 LTE Band 43/ CA\_43C

### 3700-3800:

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(j)(3)	EIRP ≤ 1W	Reference report SEWA2309000114RG01	
Peak-Average Ratio	§27.50(j)(4)	≤13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §27.53(l)(2)	(2) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (l)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.		
Spurious Emission at Antenna Terminals	§2.1051, §27.53(l)(2)	not exceed -13 dBm/MHz.		
Field Strength of Spurious Radiation	§2.1053, §27.53(l)(2)	not exceed -13 dBm/MHz		
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Reference report SEWA2309000114RG01	



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**2.12 LTE Band 71**

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)(10)	ERP ≤ 3 W	Reference report SEWA2309000114RG01	
Peak-Average Ratio	---	Limit≤13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §27.53(g)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.		
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	≤ -13 dBm/1 MHz, from 9 kHz to 10 <sup>th</sup> harmonics but outside authorized operating frequency ranges.		
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	≤ -13 dBm/1 MHz.	Appendix	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	within the authorized bands of operation.	Reference report SEWA2309000114RG01	



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**2.13 LTE Band 48/ CA\_48C**

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §96.41	EIRP ≤ 23dBm/10MHz	Reference report ZEWA2310000147RG01	
Peak-Average Ratio	§96.41	FCC: Limit≤13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Adjacent Channel Leakage Ratio	§96.41	the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.		
Band Edges Compliance	§2.1051, §96.41	for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge.		
Spurious Emission at Antenna Terminals	§2.1051, §96.41	for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. (2) Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530		



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		MHz or above 3720 MHz shall not exceed -40dBm/MHz.		
Field Strength of Spurious Radiation	§2.1053, §96.41	<p>for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz.</p> <p>(2) Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.</p>	Appendix	Pass
Frequency Stability	§2.1055, §96.41	Within authorized bands of operation/ frequency block.	Reference report ZEWA2310000147RG01	



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Remark for report SEWA2304000052RG01 issue on 2023/04/29:

According to the customer's stated letter, based on the original project report SEWA2204000008RG01, retest WCDMA Band II, LTE Band 2/4/66, LTE CA 2C/66B/66C RSE and EIRP, and refer to the original report for all other data(\* Represents Refer to the original report).

Remark for report SEWM2304000122RG01 issue on 2023/06/21:

This test report (Report No.: SEWM2304000122RG01 issue on 2023/06/21) is based on the original test report (Report No.: SEWA2204000008RG01 issue on 2022/07/19 and SEWA2304000052RG01 issue on 2023/04/29).

Review this report and original report, this report just changing the parts according to the declaration letter from client.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report the item of Power were tested and Field Strength of Spurious Radiation were performed based on the worst case of the original report with report number SEWA2204000008RG01 issue on 2022/07/19 and SEWA2304000052RG01 issue on 2023/04/29 and other test data in this report are based on the previous report with report number SEWA2204000008RG01 issue on 2022/07/19 and SEWA2304000052RG01 issue on 2023/04/29.

Remark for report SEWA2309000114RG01 issue on 2023/10/31:

This test report (Report No.: SEWA2309000114RG01 issue on 2023/10/31) is based on the original test report (Report No.: SEWM2304000122RG01 issue on 2023/06/21).

Review this report and original report, this report just changing the parts according to the declaration letter from client.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report the Field Strength of Spurious Radiation of LTE Band 30/38/41/42/43/UL CA\_2A-30A, Power of LTE Band 30/38/41/42/43 and all items of LTE UL CA\_41C 20MHz+10MHz were tested, and other test data in this report are based on the previous report with report number SEWM2304000122RG01 issue on 2023/06/21.



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Remark for report ZEWM2306000841RG01 issue on 2023/06/21:

This test report (Report No.: ZEWM2306000841RG01 issue on 2023/06/21) is based on the original test report (Report No.: FYCR220600021101 issue on 2022/07/24).

Review this report and original report, this report just changing the parts according to the declaration letter from client.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

The Effective (Isotropic) Radiated Power Output Data were fully tested in this report, and other items data please refer to the test report FYCR220600021101. The FCC ID is XMR2022RM520NGL has been certified, and the test report issued by Compliance Certification Services (Kunshan) Inc. Shenzhen branch. on 2022/07/24.

Remark for report ZEWA2310000147RG01 issue on 2023/10/31:

This test report (Report No.: ZEWA2310000147RG01 issue on 2023/10/31) is based on the original test report (Report No.: ZEWM2306000841RG01 issue on 2023/06/21).

Review this report and original report, this report just changing the parts according to the declaration letter from client.

Therefore in this report the Field Strength of Spurious Radiation of LTE Band 48 and Power of LTE Band 48/48C were tested, and other test data in this report are based on the previous report with report number ZEWM2306000841RG01 issue on 2023/06/21.

Remark for report SUCR240100005AT01 issue on 2024/02/05:

This test report (Report No.: SUCR240100005AT01 issue on 2024/02/05) is based on the original test report (Report No.: SEWA2309000114RG01 issue on 2023/10/31 and ZEWA2310000147RG01 issue on 2023/10/31).

Review this report and original report, this report just changing the parts according to the declaration letter from client.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report the Field Strength of Spurious Radiation were tested and other test data refer to the previous report with report number SEWA2309000114RG01 issue on 2023/10/31 and ZEWA2310000147RG01 issue on 2023/10/31.



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### 3 General Information

#### 3.1 Details of Client

Applicant:	Quectel Wireless Solutions Co., Ltd.
Address of Applicant:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
Manufacturer:	Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233

#### 3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Tizzy Song

#### 3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

<ul style="list-style-type: none"> <li> <b>• A2LA (Certificate No. 6336.01)</b>            SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.         </li> <li> <b>• Innovation, Science and Economic Development Canada</b>            SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.            CAB identifier: CN0120.            IC#: 27594.         </li> <li> <b>• FCC –Designation Number: CN1312</b>            SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.            Designation Number: CN1312.            Test Firm Registration Number: 717327         </li> </ul>
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### 3.4 General Description of EUT

EUT Description:	5G Sub-6 GHz M.2 Module	
Model No.:	RM520N-GL	
Trade Mark:	Quectel	
Hardware Version:	R1.0	
Software Version:	RM520NGLAAR03A03M4G	
Power Supply:	5V	
IMEI:	868371050412473	
Antenna Type:	PIFA Antenna	
Antenna Gain:	WCDMA Band II: 3.87dBi(Y0QUE00ABAA)	WCDMA Band IV: 3.91dBi(Y0QUE00ABAA)
	WCDMA Band V: 3.32dBi(Y0QUE00ABBA)	
	LTE Band 2: 3.87dBi(Y0QUE00ABAA)	LTE Band 4: 3.91dBi(Y0QUE00ABAA)
	LTE Band 5: 3.32dBi(Y0QUE00ABBA)	LTE Band 7: 3.16dBi(Y0QUE00ABBA)
	LTE Band 12: 3.19dBi(Y0QUE00ABDA)	LTE Band 13: 3.28dBi(Y0QUE00ABBA)
	LTE Band 14: 3.25dBi(Y0QUE00ABBA)	LTE Band 17: 3.19dBi(Y0QUE00ABDA)
	LTE Band 25: 3.87dBi(Y0QUE00ABAA)	LTE Band 26: 3.32dBi(Y0QUE00ABBA)
	LTE Band 30: 0.98dBi(Y0QUE00ABCA)	LTE Band 38: 3.07dBi(Y0QUE00ABBA)
	LTE Band 41: 3.16dBi(Y0QUE00ABBA)	LTE Band 42: 2.35dBi(Y0QUE00ABDA)
	LTE Band 43: 1.94dBi(Y0QUE00ABDA)	LTE Band 48: 1dBi(Y0QUE00ABCA)
	LTE Band 66: 3.91dBi(Y0QUE00ABAA)	LTE Band 71: 3.07dBi(Y0QUE00ABAA)
	LTE CA_2C: 3.87dBi(Y0QUE00ABAA)	LTE CA_5B: 3.32dBi(Y0QUE00ABBA)
	LTE CA_7C: 3.16dBi(Y0QUE00ABBA)	LTE CA_38C: 3.07dBi(Y0QUE00ABBA)
	LTE CA_41C: 3.16dBi(Y0QUE00ABBA)	LTE CA_42C: 2.35dBi(Y0QUE00ABDA)
	LTE CA_43C: 1.94dBi(Y0QUE00ABDA)	LTE CA_48C: 1dBi(Y0QUE00ABCA)
	LTE CA_66B: 3.91dBi(Y0QUE00ABAA)	LTE CA_66C: 3.91dBi(Y0QUE00ABAA)
	Note:	The antenna gain are derived from the gain information report provided by the manufacturer.
Remark:As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.		



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### 3.5 Test Mode

Test Mode	Test Modes Description
UMTS/TM1	UMTS system, WCDMA, QPSK modulation
LTE/TM1	LTE system, QPSK modulation
LTE/TM2	LTE system, 16QAM modulation
LTE/TM3	LTE system, 64QAM modulation
LTE/TM4	LTE system, 256QAM modulation

Remark: The test mode(s) are selected according to relevant radio technology specifications.

### 3.6 Test Environment

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22-23	3.7
LTLV	-30	3.135
LTHV	-30	4.4
HTLV	50	3.135
HTHV	50	4.4

Remark:  
 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

### 3.7 Description of Support Units

Description	Manufacturer	Model No.
Mother board	Quectel	N/A

Remark: all above the information of table are provided by client.



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### 3.8 Technical Specification

Characteristics	Description		
Radio System Type	<input checked="" type="checkbox"/> UMTS	<input checked="" type="checkbox"/> LTE	
Supported Frequency Range	Band	TX	RX
	UMTS Band II	1850 to 1910 MHz	1930 to 1990 MHz
	UMTS Band IV	1710 to 1755 MHz	2110 to 2155 MHz
	UMTS Band V	824 to 849 MHz	869 to 894 MHz
	LTE Band 2	1850 to 1910 MHz	1930 to 1990 MHz
	LTE Band 4	1710 to 1755 MHz	2110 to 2155 MHz
	LTE Band 5	824 to 849 MHz	869 to 894 MHz
	LTE Band 7	2500 to 2570 MHz	2620 to 2690 MHz
	LTE Band 12	699 to 716 MHz	729 to 746 MHz
	LTE Band 13	777 to 787 MHz	746 to 756 MHz
	LTE Band 14	788 to 798 MHz	758 to 768 MHz
	LTE Band 17	704 to 716 MHz	734 to 746 MHz
	LTE Band 25	1850 to 1915 MHz	1930 to 1995 MHz
	LTE Band 26 (814 to 824 MHz )	814 to 824 MHz	859 to 869 MHz
	LTE Band 26 (824 to 849 MHz )	824 to 849 MHz	869 to 894 MHz
	LTE Band 30	2305 to 2315 MHz	2350 to 2360 MHz
	LTE Band 38	2570 to 2620 MHz	2570 to 2620 MHz
	LTE Band 41	2496 to 2690 MHz	2496 to 2690 MHz
	LTE Band 42	3450 to 3550 MHz	3450 to 3550 MHz
	LTE Band 43	3700 to 3800 MHz	3700 to 3800 MHz
	LTE Band 48	3550 to 3700 MHz	3550 to 3700 MHz
LTE Band 66	1710 to 1780 MHz	2110 to 2200 MHz	
LTE Band 71	663 to 698 MHz	617 to 652 MHz	
LTE UL CA: CA_2C, CA_5B, CA_7C, CA_38C, CA_41C, CA_42C, CA_43C, CA_66B, CA_66C, CA_48C; UL CA_2A-4A; UL CA_2A-5A; UL CA_2A-7A; UL CA_2A-12A; UL CA_2A-13A; UL CA_2A-30A; ULCA_2A-66A; UL CA_4A-5A; UL CA_4A-7A; UL CA_4A-12A; UL CA_4A-13A; UL CA_4A-30A; ULCA_5A-7A; UL CA_5A-30A; UL CA_5A-66A; UL CA_12A-30A;			



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UL CA_12A-66A; UL CA_13A-66A; UL CA_14A-30A; LTE UL CA inter-band Only test RSE, report only show worst mode.	
UMTS system:	<input checked="" type="checkbox"/> 5 MHz
LTE Band 2	<input checked="" type="checkbox"/> 1.4 MHz <input checked="" type="checkbox"/> 3 MHz <input checked="" type="checkbox"/> 5 MHz <input checked="" type="checkbox"/> 10 MHz
	<input checked="" type="checkbox"/> 15 MHz <input checked="" type="checkbox"/> 20 MHz
LTE Band 4	<input checked="" type="checkbox"/> 1.4 MHz <input checked="" type="checkbox"/> 3 MHz <input checked="" type="checkbox"/> 5 MHz <input checked="" type="checkbox"/> 10 MHz
	<input checked="" type="checkbox"/> 15 MHz <input checked="" type="checkbox"/> 20 MHz
LTE Band 5	<input checked="" type="checkbox"/> 1.4 MHz <input checked="" type="checkbox"/> 3 MHz <input checked="" type="checkbox"/> 5 MHz <input checked="" type="checkbox"/> 10 MHz
LTE Band 7	<input checked="" type="checkbox"/> 5 MHz <input checked="" type="checkbox"/> 10 MHz <input checked="" type="checkbox"/> 15 MHz <input checked="" type="checkbox"/> 20 MHz
LTE Band 12	<input checked="" type="checkbox"/> 1.4 MHz <input checked="" type="checkbox"/> 3 MHz <input checked="" type="checkbox"/> 5 MHz <input checked="" type="checkbox"/> 10 MHz
LTE Band 13	<input checked="" type="checkbox"/> 5 MHz <input checked="" type="checkbox"/> 10 MHz
LTE Band 14	<input checked="" type="checkbox"/> 5 MHz <input checked="" type="checkbox"/> 10 MHz
LTE Band 17	<input checked="" type="checkbox"/> 5 MHz <input checked="" type="checkbox"/> 10 MHz
LTE Band 25	<input checked="" type="checkbox"/> 1.4 MHz <input checked="" type="checkbox"/> 3 MHz <input checked="" type="checkbox"/> 5 MHz <input checked="" type="checkbox"/> 10 MHz
	<input checked="" type="checkbox"/> 15 MHz <input checked="" type="checkbox"/> 20 MHz
LTE Band 26(814-824)	<input checked="" type="checkbox"/> 1.4 MHz <input checked="" type="checkbox"/> 3 MHz <input checked="" type="checkbox"/> 5 MHz <input checked="" type="checkbox"/> 10 MHz
LTE Band 26(824-849)	<input checked="" type="checkbox"/> 1.4 MHz <input checked="" type="checkbox"/> 3 MHz <input checked="" type="checkbox"/> 5 MHz <input checked="" type="checkbox"/> 10 MHz
	<input checked="" type="checkbox"/> 15 MHz
LTE Band30	<input checked="" type="checkbox"/> 5 MHz <input checked="" type="checkbox"/> 10 MHz
LTE Band38	<input checked="" type="checkbox"/> 5 MHz <input checked="" type="checkbox"/> 10 MHz <input checked="" type="checkbox"/> 15 MHz <input checked="" type="checkbox"/> 20 MHz
LTE Band41	<input checked="" type="checkbox"/> 5 MHz <input checked="" type="checkbox"/> 10 MHz <input checked="" type="checkbox"/> 15 MHz <input checked="" type="checkbox"/> 20 MHz
LTE Band42	<input checked="" type="checkbox"/> 5 MHz <input checked="" type="checkbox"/> 10 MHz <input checked="" type="checkbox"/> 15 MHz <input checked="" type="checkbox"/> 20 MHz
LTE Band43	<input checked="" type="checkbox"/> 5 MHz <input checked="" type="checkbox"/> 10 MHz <input checked="" type="checkbox"/> 15 MHz <input checked="" type="checkbox"/> 20 MHz
LTE Band48	<input checked="" type="checkbox"/> 5 MHz <input checked="" type="checkbox"/> 10 MHz <input checked="" type="checkbox"/> 15 MHz <input checked="" type="checkbox"/> 20 MHz
LTE Band66	<input checked="" type="checkbox"/> 1.4 MHz <input checked="" type="checkbox"/> 3 MHz <input checked="" type="checkbox"/> 5 MHz <input checked="" type="checkbox"/> 10 MHz
	<input checked="" type="checkbox"/> 15MHz <input checked="" type="checkbox"/> 20MHz
LTE Band71	<input checked="" type="checkbox"/> 5MHz <input checked="" type="checkbox"/> 10MHz <input checked="" type="checkbox"/> 15MHz <input checked="" type="checkbox"/> 20MHz
LTE CA_2C	<input checked="" type="checkbox"/> 10MHz+15MHz <input checked="" type="checkbox"/> 10MHz+20MHz
	<input checked="" type="checkbox"/> 15MHz+10MHz <input checked="" type="checkbox"/> 15MHz+15MHz
	<input checked="" type="checkbox"/> 15MHz+20MHz <input checked="" type="checkbox"/> 20MHz+10MHz
	<input checked="" type="checkbox"/> 20MHz+15MHz <input checked="" type="checkbox"/> 20MHz+20MHz
	<input checked="" type="checkbox"/> 20MHz+5MHz <input checked="" type="checkbox"/> 5MHz+20MHz
LTE CA_5B	<input checked="" type="checkbox"/> 10MHz+10MHz <input checked="" type="checkbox"/> 10MHz+5MHz
	<input checked="" type="checkbox"/> 3MHz+5MHz <input checked="" type="checkbox"/> 5MHz+10MHz

Supported Channel Bandwidth



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	LTE Band CA_7C	<input checked="" type="checkbox"/> 5MHz+3MHz	<input checked="" type="checkbox"/> 20MHz+10MHz
		<input checked="" type="checkbox"/> 10MHz+20MHz	<input checked="" type="checkbox"/> 15MHz+10MHz
		<input checked="" type="checkbox"/> 15MHz+15MHz	<input checked="" type="checkbox"/> 15MHz+20MHz
		<input checked="" type="checkbox"/> 20MHz+10MHz	<input checked="" type="checkbox"/> 20MHz+15MHz
	LTE Band CA_38C	<input checked="" type="checkbox"/> 20MHz+20MHz	
	LTE Band CA_41C	<input checked="" type="checkbox"/> 15MHz+15MHz	<input checked="" type="checkbox"/> 20MHz+20MHz
		<input checked="" type="checkbox"/> 10MHz+15MHz	<input checked="" type="checkbox"/> 10MHz+20MHz
		<input checked="" type="checkbox"/> 15MHz+10MHz	<input checked="" type="checkbox"/> 15MHz+15MHz
		<input checked="" type="checkbox"/> 15MHz+20MHz	<input checked="" type="checkbox"/> 20MHz+15MHz
		<input checked="" type="checkbox"/> 20MHz+20MHz	<input checked="" type="checkbox"/> 20MHz+5MHz
	LTE Band CA_42C	<input checked="" type="checkbox"/> 5MHz+20MHz	
		<input checked="" type="checkbox"/> 10MHz+20MHz	<input checked="" type="checkbox"/> 15MHz+20MHz
		<input checked="" type="checkbox"/> 20MHz+10MHz	<input checked="" type="checkbox"/> 20MHz+15MHz
		<input checked="" type="checkbox"/> 20MHz+20MHz	<input checked="" type="checkbox"/> 20MHz+5MHz
	LTE Band CA_43C	<input checked="" type="checkbox"/> 5MHz+20MHz	
		<input checked="" type="checkbox"/> 10MHz+20MHz	<input checked="" type="checkbox"/> 15MHz+20MHz
		<input checked="" type="checkbox"/> 20MHz+10MHz	<input checked="" type="checkbox"/> 20MHz+15MHz
		<input checked="" type="checkbox"/> 20MHz+20MHz	<input checked="" type="checkbox"/> 20MHz+5MHz
	LTE Band CA_48C	<input checked="" type="checkbox"/> 5MHz+20MHz	
		<input checked="" type="checkbox"/> 10MHz+20MHz	<input checked="" type="checkbox"/> 15MHz+20MHz
		<input checked="" type="checkbox"/> 15MHz+20MHz	<input checked="" type="checkbox"/> 20MHz+10MHz
		<input checked="" type="checkbox"/> 20MHz+20MHz	<input checked="" type="checkbox"/> 20MHz+15MHz
	LTE Band CA_66B	<input checked="" type="checkbox"/> 20MHz+20MHz	
		<input checked="" type="checkbox"/> 10MHz+10MHz	<input checked="" type="checkbox"/> 10MHz+5MHz
		<input checked="" type="checkbox"/> 15MHz+5MHz	<input checked="" type="checkbox"/> 5MHz+15MHz
	LTE Band CA_66C	<input checked="" type="checkbox"/> 5MHz+5MHz	<input checked="" type="checkbox"/> 5MHz+10MHz
		<input checked="" type="checkbox"/> 10MHz+15MHz	<input checked="" type="checkbox"/> 10MHz+20MHz
		<input checked="" type="checkbox"/> 15MHz+10MHz	<input checked="" type="checkbox"/> 15MHz+15MHz
<input checked="" type="checkbox"/> 15MHz+20MHz		<input checked="" type="checkbox"/> 20MHz+10MHz	
<input checked="" type="checkbox"/> 20MHz+15MHz		<input checked="" type="checkbox"/> 20MHz+20MHz	
		<input checked="" type="checkbox"/> 20MHz+5MHz	
<p>Note: WCDMA supports HSUPA, HSDPA, DC-HSDPA, HSPA+, but only the worst case was tested and the data displayed in this report.</p>			



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### 3.9 Test Frequencies

Test Mode	TX / RX	RF Channel		
		Low (L)	Middle (M)	High (H)
WCDMA Band II	TX	Channel 9262	Channel 9400	Channel 9538
		1852.4 MHz	1880.0 MHz	1907.6 MHz
	RX	Channel 9662	Channel 9800	Channel 9938
		1932.4 MHz	1960.0 MHz	1987.6 MHz

Test Mode	TX / RX	RF Channel		
		Low (L)	Middle (M)	High (H)
WCDMA Band IV	TX	Channel 1312	Channel 1413	Channel 1513
		1712.4MHz	1732.6 MHz	1752.6 MHz
	RX	Channel 1537	Channel 1638	Channel 1738
		2112.4 MHz	2132.6 MHz	2152.6 MHz

Test Mode	TX / RX	RF Channel		
		Low (L)	Middle (M)	High (H)
WCDMA Band V	TX	Channel 4132	Channel 4182	Channel 4233
		826.4MHz	836.4 MHz	846.6 MHz
	RX	Channel 4357	Channel 4407	Channel 4458
		871.4 MHz	881.4 MHz	891.6 MHz



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Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 2	1.4MHz	TX	Channel 18607	Channel 18900	Channel 19193
			1850.7 MHz	1880 MHz	1909.3 MHz
		RX	Channel 607	Channel 900	Channel 1193
			1930.7 MHz	1960 MHz	1989.3 MHz
	3MHz	TX	Channel 18615	Channel 18900	Channel 19185
			1851.5 MHz	1880 MHz	1908.5 MHz
		RX	Channel 615	Channel 900	Channel 1185
			1931.5 MHz	1960 MHz	1988.5 MHz
	5MHz	TX	Channel 18625	Channel 18900	Channel 19175
			1852.5 MHz	1880 MHz	1907.5 MHz
		RX	Channel 625	Channel 900	Channel 1175
			1932.5 MHz	1960 MHz	1987.5 MHz
	10MHz	TX	Channel 18650	Channel 18900	Channel 19150
			1855 MHz	1880 MHz	1905 MHz
		RX	Channel 650	Channel 900	Channel 1150
			1935 MHz	1960 MHz	1985 MHz
	15MHz	TX	Channel 18675	Channel 18900	Channel 19125
			1857.5 MHz	1880 MHz	1902.5 MHz
		RX	Channel 675	Channel 900	Channel 1125
			1937.5 MHz	1960 MHz	1982.5 MHz
	20MHz	TX	Channel 18700	Channel 18900	Channel 19100
			1860 MHz	1880 MHz	1900 MHz
		RX	Channel 700	Channel 900	Channel 1100
			1940 MHz	1960 MHz	1980 MHz



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Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 4	1.4MHz	TX	Channel 19957	Channel 20175	Channel 20393
			1710.7 MHz	1732.5 MHz	1754.3 MHz
		RX	Channel 1975	Channel 2175	Channel 2375
			2112.5 MHz	2132.5MHz	2152.5 MHz
	3MHz	TX	Channel 19965	Channel 20175	Channel 20385
			1711.5 MHz	1732.5 MHz	1753.5 MHz
		RX	Channel 2000	Channel 2175	Channel 2350
			2115 MHz	2132.5MHz	2150 MHz
	5MHz	TX	Channel 19975	Channel 20175	Channel 20375
			1712.5 MHz	1732.5 MHz	1752.5 MHz
		RX	Channel 1975	Channel 2175	Channel 2375
			2112.5 MHz	2132.5MHz	2152.5 MHz
	10MHz	TX	Channel 20000	Channel 20175	Channel 20350
			1715 MHz	1732.5 MHz	1750 MHz
		RX	Channel 2000	Channel 2175	Channel 2350
			2115 MHz	2132.5MHz	2150 MHz
	15MHz	TX	Channel 20025	Channel 20175	Channel 20325
			1717.5 MHz	1732.5 MHz	1747.5 MHz
		RX	Channel 2025	Channel 2175	Channel 2325
			2117.5 MHz	2132.5MHz	2147.5 MHz
	20MHz	TX	Channel 20050	Channel 20175	Channel 20300
			1720 MHz	1732.5 MHz	1745 MHz
		RX	Channel 2050	Channel 2175	Channel 2300
			2120 MHz	2132.5MHz	2145 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 5	1.4MHz	TX	Channel 20407	Channel 20525	Channel 20643
			824.7 MHz	836.5 MHz	848.3 MHz
		RX	Channel 2407	Channel 2525	Channel 2643
			869.7 MHz	881.5 MHz	893.3 MHz
	3MHz	TX	Channel 20415	Channel 20525	Channel 20635
			825.5 MHz	836.5 MHz	847.5 MHz
		RX	Channel 2415	Channel 2525	Channel 2635
			870.5 MHz	881.5 MHz	892.5 MHz
	5MHz	TX	Channel 20425	Channel 20525	Channel 20625
			826.5 MHz	836.5 MHz	846.5 MHz
		RX	Channel 2425	Channel 2525	Channel 2625
			871.5 MHz	881.5 MHz	891.5 MHz
	10MHz	TX	Channel 20450	Channel 20525	Channel 20600
			829 MHz	836.5 MHz	844 MHz
		RX	Channel 2450	Channel 2525	Channel 2600
			874 MHz	881.5 MHz	889 MHz



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Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 7	5MHz	TX	Channel 20775	Channel 21100	Channel 21425
			2502.5 MHz	2535 MHz	2567.5 MHz
		RX	Channel 2775	Channel 3100	Channel 5825
			2622.5 MHz	2655 MHz	2687.5 MHz
	10MHz	TX	Channel 20800	Channel 21100	Channel 21400
			2505 MHz	2535 MHz	2565 MHz
		RX	Channel 2800	Channel 3100	Channel 3400
			2625 MHz	2655 MHz	2685 MHz
	15MHz	TX	Channel 20825	Channel 21100	Channel 21375
			2507.5 MHz	2535 MHz	2562.5 MHz
		RX	Channel 2825	Channel 3100	Channel 3375
			2627.5 MHz	2655 MHz	2682.5 MHz
20MHz	TX	Channel 20850	Channel 21100	Channel 21350	
		2510 MHz	2535 MHz	2560 MHz	
	RX	Channel 2850	Channel 3100	Channel 3350	
		2630 MHz	2655 MHz	2680 MHz	

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 12	1.4MHz	TX	Channel 23017	Channel 23095	Channel 23173
			699.7 MHz	707.5 MHz	715.3 MHz
		RX	Channel 5017	Channel 5095	Channel 5173
			729.7 MHz	737.5 MHz	745.3 MHz
	3MHz	TX	Channel 23025	Channel 23095	Channel 23165
			700.5 MHz	707.5 MHz	714.5 MHz
		RX	Channel 5025	Channel 5095	Channel 5165
			730.5 MHz	737.5 MHz	744.5 MHz
	5MHz	TX	Channel 23035	Channel 23095	Channel 23155
			701.5 MHz	707.5 MHz	713.5 MHz
		RX	Channel 5035	Channel 5095	Channel 5155
			731.5 MHz	737.5 MHz	743.5 MHz
10MHz	TX	Channel 23060	Channel 23095	Channel 23130	
		704 MHz	707.5 MHz	711 MHz	
	RX	Channel 5060	Channel 5095	Channel 5130	
		734 MHz	737.5 MHz	741 MHz	



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Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 13	5MHz	TX	Channel 23025	Channel 23230	Channel 23255
			779.5 MHz	782 MHz	784.5 MHz
		RX	Channel 5205	Channel 5230	Channel 5255
	10MHz	TX	Channel 23230	Channel 23230	Channel 23230
			782 MHz	782 MHz	782 MHz
		RX	Channel 5230	Channel 5230	Channel 5230
			751 MHz	751 MHz	751 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 14	5MHz	TX	Channel 23305	Channel 23330	Channel 23355
			790.5 MHz	793 MHz	795.5 MHz
		RX	Channel 5305	Channel 5330	Channel 5355
	10MHz	TX	Channel 23330	Channel 23330	Channel 23330
			793MHz	793 MHz	793 MHz
		RX	Channel 5330	Channel 5330	Channel 5330
			763MHz	763 MHz	763 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 17	5MHz	TX	Channel 23755	Channel 23790	Channel 23825
			706.5 MHz	710 MHz	713.5 MHz
		RX	Channel 5755	Channel 5790	Channel 5825
	10MHz	TX	Channel 23780	Channel 23790	Channel 23800
			709 MHz	710 MHz	711 MHz
		RX	Channel 5780	Channel 5790	Channel 5800
			739 MHz	740 MHz	741 MHz



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Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 25	1.4MHz	TX	Channel 26047	Channel 26365	Channel 26683
			1850.7 MHz	1882.5 MHz	1914.3 MHz
		RX	Channel 8047	Channel 8365	Channel 8683
			1930.7 MHz	1962.5 MHz	1994.3 MHz
	3MHz	TX	Channel 26055	Channel 26365	Channel 26675
			1851.5 MHz	1882.5 MHz	1913.5 MHz
		RX	Channel 8055	Channel 8365	Channel 8675
			1931.5 MHz	1962.5 MHz	1993.5 MHz
	5MHz	TX	Channel 26065	Channel 26365	Channel 26665
			1852.5 MHz	1882.5 MHz	1912.5 MHz
		RX	Channel 8065	Channel 8365	Channel 8665
			1932.5 MHz	1962.5 MHz	1992.5 MHz
	10MHz	TX	Channel 26090	Channel 26365	Channel 26640
			1855 MHz	1882.5 MHz	1910 MHz
		RX	Channel 8090	Channel 8365	Channel 8640
			1935 MHz	1962.5 MHz	1990 MHz
	15MHz	TX	Channel 26115	Channel 26365	Channel 26615
			1857.5 MHz	1882.5 MHz	1907.5 MHz
		RX	Channel 8115	Channel 8365	Channel 8615
			1937.5 MHz	1962.5 MHz	1987.5 MHz
	20MHz	TX	Channel 26140	Channel 26365	Channel 26590
			1860 MHz	1882.5 MHz	1905 MHz
		RX	Channel 8140	Channel 8365	Channel 8590
			1940 MHz	1962.5 MHz	1985 MHz



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Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 26 (814-824)	1.4MHz	TX	Channel 26697	Channel 26740	Channel 26783
			814.7 MHz	819 MHz	823.3 MHz
		RX	Channel 8697	Channel 8740	Channel 8783
			859.7 MHz	864MHz	868.3 MHz
	3MHz	TX	Channel 26705	Channel 26740	Channel 26775
			815.5 MHz	819 MHz	822.5 MHz
		RX	Channel 8705	Channel 8740	Channel 8775
			860.5 MHz	864MHz	867.5 MHz
	5MHz	TX	Channel 26715	Channel 26740	Channel 26765
			816.5 MHz	819 MHz	821.5 MHz
		RX	Channel 8715	Channel 8740	Channel 8755
			861.5 MHz	864MHz	866.5 MHz
10MHz	TX	Channel 26740	Channel 26740	Channel 26740	
		819 MHz	819 MHz	819 MHz	
	RX	Channel 8740	Channel 8740	Channel 8740	
		864MHz	864MHz	864MHz	

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band26 (824-849)	1.4MHz	TX	Channel 26797	Channel 26915	Channel 27033
			824.7 MHz	836.5 MHz	848.3 MHz
		RX	Channel 8697	Channel 8915	Channel 9033
			859.7 MHz	881.5 MHz	893.3 MHz
	3MHz	TX	Channel 26805	Channel 26915	Channel 27025
			825.5 MHz	836.5 MHz	847.5 MHz
		RX	Channel 8805	Channel 8915	Channel 9025
			860.5 MHz	881.5 MHz	892.5 MHz
	5MHz	TX	Channel 26815	Channel 26915	Channel 27015
			826.5 MHz	836.5 MHz	846.5 MHz
		RX	Channel 8815	Channel 8915	Channel 9015
			871.5 MHz	881.5 MHz	891.5 MHz
	10MHz	TX	Channel 26840	Channel 26915	Channel 26990
			829 MHz	836.5 MHz	844 MHz
		RX	Channel 8840	Channel 8915	Channel 8990
			874 MHz	881.5 MHz	889 MHz
	15MHz	TX	Channel 26865	Channel 26915	Channel 26965
			831.5 MHz	836.5 MHz	841.5 MHz
RX		Channel 8865	Channel 8915	Channel 8965	
		876.5 MHz	881.5 MHz	886.5 MHz	



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Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 30	5MHz	TX	Channel 27685	Channel27710	Channel 27735
			2307.5 MHz	2310MHz	2312.5 MHz
		RX	Channel 9795	Channel 9820	Channel 9845
	10MHz	TX	2352.5MHz	2355 MHz	2357.5MHz
			Channel 27710	Channel27710	Channel27710
		RX	2310 MHz	2310MHz	2310MHz
			Channel 9820	Channel 9820	Channel 9820
			2355 MHz	2355 MHz	2355 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 38	5MHz	TX/RX	Channel 37775	Channel38000	Channel 38225
			2572.5 MHz	2595 MHz	2617.5 MHz
	10MHz	TX/RX	Channel 37800	Channel38000	Channel 38200
			2575 MHz	2595 MHz	2615 MHz
	15MHz	TX/RX	Channel 37825	Channel38000	Channel 38175
			2577.5 MHz	2595 MHz	2612.5 MHz
	20MHz	TX/RX	Channel 37850	Channel38000	Channel 38150
			2580 MHz	2595 MHz	2610 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 41 (2496-2690)	5MHz	TX / RX	Channel 39675	Channel40620	Channel 41565
			2498.5 MHz	2593 MHz	2687.5 MHz
	10MHz	TX / RX	Channel 39700	Channel40620	Channel 41540
			2501 MHz	2593 MHz	2685 MHz
	15MHz	TX / RX	Channel 39725	Channel40620	Channel 41515
			2503.5 MHz	2593 MHz	2682.5 MHz
	20MHz	TX / RX	Channel 39750	Channel40620	Channel 41490
			2506 MHz	2593 MHz	2680 MHz



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Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 42 (3450-3550)	5MHz	TX	Channel 42115	Channel 42590	Channel 43065
			3452.5 MHz	3500 MHz	3547.5 MHz
		RX	Channel 42115	Channel 42590	Channel 43065
			3452.5 MHz	3500 MHz	3547.5 MHz
	10MHz	TX	Channel 42140	Channel 42590	Channel 43040
			3455 MHz	3500 MHz	3545 MHz
		RX	Channel 42140	Channel 42590	Channel 43040
			3455 MHz	3500 MHz	3545 MHz
	15MHz	TX	Channel 42165	Channel 42590	Channel 43015
			3457.5 MHz	3500 MHz	3542.5 MHz
		RX	Channel 42165	Channel 42590	Channel 43015
			3457.5 MHz	3500 MHz	3542.5 MHz
20MHz	TX	Channel 42190	Channel 42590	Channel 42990	
		3460 MHz	3500 MHz	3540 MHz	
	RX	Channel 42190	Channel 42590	Channel 42990	
		3460 MHz	3500 MHz	3540 MHz	

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 43 (3700-3800)	5MHz	TX/RX	Channel 44615	Channel 45090	Channel 45565
			3702.5 MHz	3750.0 MHz	3797.5 MHz
	10MHz	TX/RX	Channel 44640	Channel 45090	Channel 45540
			3705.0 MHz	3750.0 MHz	3795.0 MHz
	15MHz	TX/RX	Channel 44665	Channel 45090	Channel 45515
			3707.5 MHz	3750.0 MHz	3792.5 MHz
	20MHz	TX/RX	Channel 44690	Channel 45090	Channel 45490
			3710 MHz	3750.0 MHz	3790.0 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 48	5MHz	TX/RX	Channel 55265	Channel 55990	Channel 56715
			3552.5 MHz	3625.0 MHz	3697.5 MHz
	10MHz	TX/RX	Channel 55290	Channel 55990	Channel 56690
			3555.0 MHz	3625.0 MHz	3695.0 MHz
	15MHz	TX/RX	Channel 55315	Channel 55990	Channel 56665
			3557.5 MHz	3625.0 MHz	3692.5 MHz
	20MHz	TX/RX	Channel 55340	Channel 55990	Channel 56640
			3560.0 MHz	3625.0 MHz	3690.0 MHz



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Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band66	1.4MHz	TX	Channel 131979	Channel 132322	Channel 132665
			1710.7 MHz	1745 MHz	1779.3 MHz
		RX	Channel 66443	Channel 66786	Channel 67329
			2110.7 MHz	2145MHz	2199.3 MHz
	3MHz	TX	Channel 131987	Channel 132322	Channel 132657
			1711.5 MHz	1745 MHz	1778.5MHz
		RX	Channel 66451	Channel 66786	Channel 67321
			2111.5 MHz	2145MHz	2198.5MHz
	5MHz	TX	Channel 131997	Channel 132322	Channel 132647
			1712.5 MHz	1745 MHz	1777.5 MHz
		RX	Channel 66461	Channel 66786	Channel 67311
			2112.5 MHz	2145MHz	2197.5 MHz
	10MHz	TX	Channel 132022	Channel 132322	Channel 132622
			1715 MHz	1745 MHz	1775 MHz
		RX	Channel 66486	Channel 66786	Channel 67286
			2115 MHz	2145MHz	2195 MHz
	15MHz	TX	Channel 132047	Channel 132322	Channel 132597
			1717.5 MHz	1745 MHz	1772.5 MHz
		RX	Channel 66511	Channel 66786	Channel 67261
			2117.5 MHz	2145MHz	2192.5 MHz
20MHz	TX	Channel 132072	Channel 132322	Channel 132572	
		1720 MHz	1745 MHz	1770 MHz	
	RX	Channel 66536	Channel 66786	Channel 67236	
		2120 MHz	2145MHz	2190 MHz	

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band71	5MHz	TX	Channel 133147	Channel 133297	Channel 133447
			665.5 MHz	680.5 MHz	695.5 MHz
		RX	Channel 68611	Channel 68761	Channel 68911
			619.5 MHz	634.5 MHz	649.5 MHz
	10MHz	TX	Channel 133172	Channel 133297	Channel 133422
			668 MHz	680.5 MHz	693 MHz
		RX	Channel 68636	Channel 68761	Channel 68886
			622 MHz	634.5 MHz	647 MHz
	15MHz	TX	Channel 133197	Channel 133297	Channel 133397
			670.5 MHz	680.5 MHz	690.5 MHz
		RX	Channel 68661	Channel 68761	Channel 68861
			624.5 MHz	634.5 MHz	644.5 MHz
	20MHz	TX	Channel 133222	Channel 133297	Channel 133372
			673 MHz	680.5 MHz	688 MHz
		RX	Channel 68686	Channel 68761	Channel 68836
			627 MHz	634.5 MHz	642 MHz



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Table 4.3.1.1.2A-2: Test frequencies for CA\_2C

Range	CC-Combo / N <sub>RB,agg</sub> [RB]	CC1 Note1					CC2 Note1				
		BW [RB]	N <sub>UL</sub>	f <sub>UL</sub> [MHz]	N <sub>DL</sub>	f <sub>DL</sub> [MHz]	BW [RB]	N <sub>UL</sub>	f <sub>UL</sub> [MHz]	N <sub>DL</sub>	f <sub>DL</sub> [MHz]
Low	25+100	25	18633	1853.3	633	1933.3	100	18750	1865	750	1945
		100	18700	1860	700	1940	25	18817	1871.7	817	1951.7
	50+75	50	18653	1855.3	653	1935.3	75	18773	1867.3	773	1947.3
		75	18675	1857.5	675	1937.5	50	18795	1869.5	795	1949.5
	50+100	50	18655	1855.5	655	1935.5	100	18799	1869.9	799	1949.9
		100	18700	1860	700	1940	50	18844	1874.4	844	1954.4
	75+75	75	18675	1857.5	675	1937.5	75	18825	1872.5	825	1952.5
	75+100	75	18678	1857.8	678	1937.8	100	18849	1874.9	849	1954.9
		100	18700	1860	700	1940	75	18871	1877.1	871	1957.1
	100+100	100	18700	1860	700	1940	100	18898	1879.8	898	1959.8
Mid	25+100	25	18808	1870.8	808	1950.8	100	18925	1882.5	925	1962.5
		100	18875	1877.5	875	1957.5	25	18992	1889.2	992	1969.2
	50+75	50	18829	1872.9	829	1952.9	75	18949	1884.9	949	1964.9
		75	18851	1875.1	851	1955.1	50	18971	1887.1	971	1967.1
	50+100	50	18806	1870.6	806	1950.6	100	18950	1885	950	1965
		100	18851	1875.1	851	1955.1	50	18995	1889.5	995	1969.5
	75+75	75	18825	1872.5	825	1952.5	75	18975	1887.5	975	1967.5
	75+100	75	18803	1870.3	803	1950.3	100	18974	1887.4	974	1967.4
		100	18826	1872.6	826	1952.6	75	18997	1889.7	997	1969.7
	100+100	100	18801	1870.1	801	1950.1	100	18999	1889.9	999	1969.9
High	25+100	25	18983	1888.3	983	1968.3	100	19100	1900	1100	1980
		100	19050	1895	1050	1975	25	19167	1906.7	1167	1986.7
	50+75	50	19005	1890.5	1005	1970.5	75	19125	1902.5	1125	1982.5
		75	19027	1892.7	1027	1972.7	50	19147	1904.7	1147	1984.7
	50+100	50	18956	1885.6	956	1965.6	100	19100	1900	1100	1980
		100	19001	1890.1	1001	1970.1	50	19145	1904.5	1145	1984.5
	75+75	75	18975	1887.5	975	1967.5	75	19125	1902.5	1125	1982.5
	75+100	75	18929	1882.9	929	1962.9	100	19100	1900	1100	1980
		100	18951	1885.1	951	1965.1	75	19122	1902.2	1122	1982.2
	100+100	100	18902	1880.2	902	1960.2	100	19100	1900	1100	1980

Note 1: Carriers in increasing frequency order.



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Table 4.3.1.1.5A-1: Test frequencies for CA\_5B

Range	CC-Combo / N <sub>RB,agg</sub> [RB]	CC1 Note1					CC2 Note1				
		BW [RB]	N <sub>UL</sub>	f <sub>UL</sub> [MHz]	N <sub>DL</sub>	f <sub>DL</sub> [MHz]	BW [RB]	N <sub>UL</sub>	f <sub>UL</sub> [MHz]	N <sub>DL</sub>	f <sub>DL</sub> [MHz]
Low	15+25	15	20416	825.6	2416	870.6	25	20455	829.5	2455	874.5
		25	20425	826.5	2425	871.5	15	20464	830.4	2464	875.4
	25+50	25	20428	826.8	2428	871.8	50	20500	834	2500	879
	50+25	50	20450	829	2450	874	25	20522	836.2	2522	881.2
Mid	15+25	50	20450	829	2450	874	50	20549	838.9	2549	883.9
		15	20501	834.1	2501	879.1	25	20540	838.0	2540	883.0
	25+50	25	20510	835.0	2510	880.0	15	20549	838.9	2549	883.9
		25	20478	831.8	2478	876.8	50	20550	839	2550	884
		50+25	50	20500	834	2500	879	25	20572	841.2	2572
	50+50	50	20476	831.6	2476	876.6	50	20575	841.5	2575	886.5
		15	20586	842.6	2586	887.6	25	20625	846.5	2625	891.5
		25	20595	843.5	2595	888.5	15	20634	847.4	2634	892.4
High	15+25	25	20528	836.8	2528	881.8	50	20600	844	2600	889
		50+25	50	20550	839	2550	884	25	20622	846.2	2622
	50+50	50	20501	834.1	2501	879.1	50	20600	844	2600	889

Note 1: Carriers in increasing frequency order.



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Table 4.3.1.1.7A-1: Test frequencies for CA\_7C

Range	CC-Combo / N <sub>RB_agg</sub> [RB]	CC1 Note1					CC2 Note1				
		BW [RB]	N <sub>UL</sub>	f <sub>UL</sub> [MHz]	N <sub>DL</sub>	f <sub>DL</sub> [MHz]	BW [RB]	N <sub>UL</sub>	f <sub>UL</sub> [MHz]	N <sub>DL</sub>	f <sub>DL</sub> [MHz]
Low	50+100	50	20805	2505.5	2805	2625.5	100	20949	2519.9	2949	2639.9
		100	20850	2510	2850	2630	50	20994	2524.4	2994	2644.4
	75+50	75	20825	2507.5	2825	2627.5	50	20945	2519.5	2945	2639.5
	75+75	75	20825	2507.5	2825	2627.5	75	20975	2522.5	2975	2642.5
	75+100	75	20828	2507.8	2828	2627.8	100	20999	2524.9	2999	2644.9
		100	20850	2510	2850	2630	75	21021	2527.1	3021	2647.1
100+100	100	20850	2510	2850	2630	100	21048	2529.8	3048	2649.8	
Mid	50+100	50	21006	2525.6	3006	2645.6	100	21150	2540	3150	2660
		100	21051	2530.1	3051	2650.1	50	21195	2544.5	3195	2664.5
	75+50	75	21051	2530.1	3051	2650.1	50	21171	2542.1	3171	2662.1
	75+75	75	21025	2527.5	3025	2647.5	75	21175	2542.5	3175	2662.5
	75+100	75	21003	2525.3	3003	2645.3	100	21174	2542.4	3174	2662.4
		100	21026	2527.6	3026	2647.6	75	21197	2544.7	3197	2664.7
100+100	100	21001	2525.1	3001	2645.1	100	21199	2544.9	3199	2664.9	
High	50+100	50	21206	2545.6	3206	2665.6	100	21350	2560	3350	2680
		100	21251	2550.1	3251	2670.1	50	21395	2564.5	3395	2684.5
	75+50	75	21277	2552.7	3277	2672.7	50	21397	2564.7	3397	2684.7
	75+75	75	21225	2547.5	3225	2667.5	75	21375	2562.5	3375	2682.5
	75+100	75	21179	2542.9	3179	2662.9	100	21350	2560	3350	2680
		100	21201	2545.1	3201	2665.1	75	21372	2562.2	3372	2682.2
100+100	100	21152	2540.2	3152	2660.2	100	21350	2560	3350	2680	

Note 1: Carriers in increasing frequency order.



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**Table 4.3.1.2.6A-1: Test frequencies for CA\_38C**

Range	CC-Combo / N <sub>RB_agg</sub> [RB]	CC1 Note1			CC2 Note1		
		BW [RB]	N <sub>UL/DL</sub>	f <sub>UL/DL</sub> [MHz]	BW [RB]	N <sub>UL/DL</sub>	f <sub>UL/DL</sub> [MHz]
Low	75+75	75	37825	2577.5	75	37975	2592.5
	100+100	100	37850	2580	100	38048	2599.8
Mid	75+75	75	37925	2587.5	75	38075	2602.5
	100+100	100	37901	2585.1	100	38099	2604.9
High	75+75	75	38025	2597.5	75	38175	2612.5
	100+100	100	37952	2590.2	100	38150	2610

Note 1: Carriers in increasing frequency order.



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Table 4.3.1.2.9A-1: Test frequencies for CA\_41C

Range	CC-Combo / N <sub>RB,agg</sub> [RB]	CC1 Note1			CC2 Note1		
		BW [RB]	N <sub>UL/DL</sub>	f <sub>UL/DL</sub> [MHz]	BW [RB]	N <sub>UL/DL</sub>	f <sub>UL/DL</sub> [MHz]
Low	25+100	25	39683	2499.3	100	39800	2511
		100	39750	2506	25	39867	2517.7
	50+75	50	39703	2501.3	75	39823	2513.3
		75	39725	2503.5	50	39845	2515.5
	50+100	50	39705	2501.5	100	39849	2515.9
		100	39750	2506	50	39894	2520.4
	75+75	75	39725	2503.5	75	39875	2518.5
		75	39728	2503.8	100	39899	2520.9
	75+100	75	39750	2506	75	39921	2523.1
		100	39750	2506	100	39948	2525.8
Mid	25+100	25	40528	2583.8	100	40645	2595.5
		100	40595	2590.5	25	40712	2602.2
	50+75	50	40549	2585.9	75	40669	2597.9
		75	40571	2588.1	50	40691	2600.1
	50+100	50	40526	2583.6	100	40670	2598.0
		100	40571	2588.1	50	40715	2602.5
	75+75	75	40545	2585.5	75	40695	2600.5
		75	40523	2583.3	100	40694	2600.4
	75+100	75	40546	2585.6	75	40717	2602.7
		100	40521	2583.1	100	40719	2602.9
High	25+100	25	41373	2668.3	100	41490	2680
		100	41440	2675	25	41557	2686.7
	50+75	50	41395	2670.5	75	41515	2682.5
		75	41417	2672.7	50	41537	2684.7
	50+100	50	41346	2665.6	100	41490	2680
		100	41391	2670.1	50	41535	2684.5
	75+75	75	41365	2667.5	75	41515	2682.5
		75	41319	2662.9	100	41490	2680
	75+100	75	41341	2665.1	75	41512	2682.2
		100	41292	2660.2	100	41490	2680

Note 1: Carriers in increasing frequency order.



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**LTE CA\_42C(3450-3550):**

Range	CC-Combo / NRB_agg [RB]	CC1 Note1			CC2 Note1		
		BW [RB]	N <sub>UL/DL</sub>	f <sub>UL/DL</sub> [MHz]	BW [RB]	N <sub>UL/DL</sub>	f <sub>UL/DL</sub> [MHz]
Low	25+100	25	42123	3453.3	100	42240	3465
		100	42190	3460	25	42307	3471.7
	50+100	50	42145	3455.5	100	42289	3469.9
		100	42190	3460	50	42334	3474.4
	75+100	75	42168	3457.8	100	42339	3474.9
		100	42190	3460	75	42361	3477.1
100+100	100	42190	3460	100	42388	3479.8	
Mid	25+100	25	42498	3490.8	100	42615	3502.5
		100	42565	3497.5	25	42682	3509.2
	50+100	50	42496	3490.6	100	42640	3505
		100	42541	3495.1	50	42685	3509.5
	75+100	75	42493	3490.3	100	42664	3507.4
		100	42516	3492.6	75	42687	3509.7
100+100	100	42491	3490.1	100	42689	3509.9	
High	25+100	25	42873	3528.3	100	42990	3540
		100	42940	3535	25	43057	3546.7
	50+100	50	42846	3525.6	100	42990	3540
		100	42891	3530.1	50	43035	3544.5
	75+100	75	42819	3522.9	100	42990	3540
		100	42841	3525.1	75	43012	3542.2
100+100	100	42792	3520.2	100	42990	3540	

Note 1: Carriers in increasing frequency order.



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**LTE CA\_43C(3700-3800):**

Range	CC-Combo /	BW [RB]	CC1	f <sub>UL/DL</sub> [MHz]	BW [RB]	CC2	f <sub>UL/DL</sub> [MHz]
	NRB_agg [RB]		Note1			Note1	
Low	25+100	25	44623	3703.3	100	44740	3715
		100	44690	3710	25	44807	3721.7
	50+100	50	44645	3705.5	100	44789	3719.9
		100	44690	3710	50	44834	3724.4
	75+100	75	44668	3707.8	100	44839	3724.9
		100	44690	3710	75	44861	3727.1
Mid	25+100	25	44998	3740.8	100	45115	3752.5
		100	45065	3747.5	25	45182	3759.2
	50+100	50	44996	3740.6	100	45140	3755
		100	45041	3745.1	50	45185	3759.5
	75+100	75	44993	3740.3	100	45164	3757.4
		100	45016	3742.6	75	45187	3759.7
High	100+100	100	44991	3740.1	100	45189	3759.9
	25+100	25	45373	3778.3	100	45490	3790
		100	45440	3785	25	45557	3796.7
	50+100	50	45346	3775.6	100	45490	3790
		100	45391	3780.1	50	45535	3794.5
	75+100	75	45319	3772.9	100	45490	3790
100		45341	3775.1	75	45512	3792.2	
	100+100	100	45292	3770.2	100	45490	3790

Note 1: Carriers in increasing frequency order.



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**LTE CA\_48C(3550-3700):**

Range	CC-Combo / NRB_agg [RB]	CC1 Note1			CC2 Note1		
		BW [RB]	NUL/DL	fUL/DL [MHz]	BW [RB]	NUL/DL	fUL/DL [MHz]
Low	25+100	25	55273	3553.3	100	55390	3565
		100	55340	3560	25	55457	3571.7
	50+100	50	55295	3555.5	100	55439	3569.9
		100	55340	3560	50	55484	3574.4
	75+100	75	55318	3557.8	100	55489	3574.9
		100	55340	3560	75	55511	3577.1
100+100	100	55340	3560	100	55538	3579.8	
Mid	25+100	25	55898	3615.8	100	56015	3627.5
		100	55965	3622.5	25	56082	3634.2
	50+100	50	55896	3615.6	100	56040	3630
		100	55941	3620.1	50	56085	3634.5
	75+100	75	55893	3615.3	100	56064	3632.4
		100	55916	3617.6	75	56087	3634.7
100+100	100	55891	3615.1	100	56089	3634.9	
High	25+100	25	56523	3678.3	100	56640	3690
		100	56590	3685	25	56707	3696.7
	50+100	50	56496	3675.6	100	56640	3690
		100	56541	3680.1	50	56685	3694.5
	75+100	75	56469	3672.9	100	56640	3690
		100	56491	3675.1	75	56662	3692.2
100+100	100	56442	3670.2	100	56640	3690	

Note 1: Carriers in increasing frequency order.



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Table 4.3.1.1.66A-1: Test frequencies for CA\_66B

Range	CC-Combo / N <sub>RB_agg</sub> [RB]	CC1 Note1					CC2 Note1				
		BW [RB]	N <sub>UL</sub>	f <sub>UL</sub> [MHz]	N <sub>DL</sub>	f <sub>DL</sub> [MHz]	BW [RB]	N <sub>UL</sub>	f <sub>UL</sub> [MHz]	N <sub>DL</sub>	f <sub>DL</sub> [MHz]
Low	25+25	25	131997	1712.5	66461	2112.5	25	132045	1717.3	66509	2117.3
	25+50	25	132000	1712.8	66464	2112.8	50	132072	1720	66536	2120
		50	132022	1715	66486	2115	25	132094	1722.2	66558	2122.2
	25+75	25	132002	1713	66466	2113	75	132095	1722.3	66559	2122.3
		75	132047	1717.5	66511	2117.5	25	132140	1726.8	66604	2126.8
50+50	50	132022	1715	66486	2115	50	132121	1724.9	66585	2124.9	
Mid	25+25	25	132398	1752.6	66862	2152.6	25	132446	1757.4	66910	2157.4
	25+50	25	132375	1750.3	66839	2150.3	50	132447	1757.5	66911	2157.5
		50	132397	1752.5	66861	2152.5	25	132469	1759.7	66933	2159.7
	25+75	25	132353	1748.1	66817	2148.1	75	132446	1757.4	66910	2157.4
		75	132398	1752.6	66862	2152.6	25	132491	1761.9	66955	2161.9
50+50	50	132373	1750.1	66837	2150.1	50	132472	1760	66936	2160	
High <sup>2</sup>	25+25	25	132647	1777.5	67111	2177.5	25	NA	NA	67159	2182.3
	25+50	25	132647	1777.5	67111	2177.5	50	NA	NA	67183	2184.7
		50	132622	1775	67086	2175	25	NA	NA	67158	2182.2
	25+75	25	132647	1777.5	67111	2177.5	75	NA	NA	67204	2186.8
		75	132597	1772.5	67061	2172.5	25	NA	NA	67154	2181.8
50+50	50	132622	1775	67086	2175	50	NA	NA	67185	2184.9	
High <sup>3</sup>	25+25	25	132599	1772.7	67063	2172.7	25	132647	1777.5	67111	2177.5
	25+50	25	132550	1767.8	67014	2167.8	50	132622	1775	67086	2175
		50	132572	1770	67036	2170	25	132644	1777.2	67108	2177.2
	25+75	25	132504	1763.2	66968	2163.2	75	132597	1772.5	67061	2172.5
		75	132549	1767.7	67013	2167.7	25	132642	1777	67106	2177
50+50	50	132523	1765.1	66987	2165.1	50	132622	1775	67086	2175	

Note 1: Carriers in increasing frequency order.  
 Note 2: Applicable for intra-band contiguous CA without UL CA.  
 Note 3: Applicable for intra-band contiguous CA with UL CA.



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LTE CA\_66C:

Range	CC-Combo / N <sub>RB_agg</sub> [RB]	CC1 Note1					CC2 Note1				
		BW [RB]	N <sub>UL</sub>	f <sub>UL</sub> [MHz]	N <sub>DL</sub>	f <sub>DL</sub> [MHz]	BW [RB]	N <sub>UL</sub>	f <sub>UL</sub> [MHz]	N <sub>DL</sub>	f <sub>DL</sub> [MHz]
Low	50+75	50	132025	1715.3	66489	2115.3	75	132145	1727.3	66609	2127.3
		75	132047	1717.5	66511	2117.5	50	132167	1729.5	66631	2129.5
	50+100	50	132027	1715.5	66491	2115.5	100	132171	1729.9	66635	2129.9
		100	132072	1720	66536	2120	50	132216	1734.4	66680	2134.4
	75+75	75	132047	1717.5	66511	2117.5	75	132197	1732.5	66661	2132.5
		75	132050	1717.8	66514	2117.8	100	132221	1734.9	66685	2134.9
	75+100	100	132072	1720	66536	2120	75	132243	1737.1	66707	2137.1
		100	132072	1720	66536	2120	25	132189	1731.7	66653	2131.7
	100+25	25	132005	1713.3	66469	2113.3	100	132122	1725.0	66586	2125.0
		100	132072	1720	66536	2120	100	132270	1739.8	66734	2139.8
Mid	50+75	50	132351	1747.9	66815	2147.9	75	132471	1759.9	66935	2159.9
		75	132373	1750.1	66837	2150.1	50	132493	1762.1	66957	2162.1
	50+100	50	132328	1745.6	66792	2145.6	100	132472	1760	66936	2160
		100	132373	1750.1	66837	2150.1	50	132517	1764.5	66981	2164.5
	75+75	75	132347	1747.5	66811	2147.5	75	132497	1762.5	66961	2162.5
		75	132325	1745.3	66789	2145.3	100	132496	1762.4	66960	2162.4
	75+100	100	132348	1747.6	66812	2147.6	75	132519	1764.7	66983	2164.7
		100	132397	1752.5	66861	2152.5	25	132514	1764.2	66978	2164.2
	100+25	25	132330	1745.8	66794	2145.8	100	132447	1757.5	66911	2157.5
		100	132323	1745.1	66787	2145.1	100	132521	1764.9	66985	2164.9
High <sup>2</sup>	50+75	50	132622	1775	67086	2175	75	NA	NA	67206	2187
		75	132597	1772.5	67061	2172.5	50	NA	NA	67181	2184.5
	50+100	50	132622	1775	67086	2175	100	NA	NA	67230	2189.4
		100	132572	1770	67036	2170	50	NA	NA	67180	2184.4
	75+75	75	132597	1772.5	67061	2172.5	75	NA	NA	67211	2187.5
		75	132597	1772.5	67061	2172.5	100	NA	NA	67232	2189.6
	75+100	100	132572	1770	67036	2170	75	NA	NA	67207	2187.1
		100	132572	1770	67036	2170	25	NA	NA	67153	2181.7
	100+25	25	132647	1777.5	67111	2177.5	100	NA	NA	67228	2189.2
		100	132572	1770	67036	2170	100	NA	NA	67234	2189.8
High <sup>3</sup>	50+75	50	132477	1760.5	66941	2160.5	75	132597	1772.5	67061	2172.5
		75	132499	1762.7	66963	2162.7	50	132619	1774.7	67083	2174.7
	50+100	50	132428	1755.6	66892	2155.6	100	132572	1770	67036	2170
		100	132473	1760.1	66937	2160.1	50	132617	1774.5	67081	2174.5
	75+75	75	132447	1757.5	66911	2157.5	75	132597	1772.5	67061	2172.5
		75	132401	1752.9	66885	2152.9	100	132572	1770	67036	2170
	75+100	100	132423	1755.1	66887	2155.1	75	132594	1772.2	67058	2172.2
		100	132522	1765	66986	2165	25	132639	1776.7	67103	2176.7
	100+25	25	132455	1758.3	66919	2158.3	100	132572	1770.0	67036	2170.0
		100	132374	1750.2	66838	2150.2	100	132572	1770	67036	2170

Note 1: Carriers in increasing frequency order.  
 Note 2: Applicable for intra-band contiguous CA without UL CA.  
 Note 3: Applicable for intra-band contiguous CA with UL CA.



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## 4 Description of Tests

### 4.1 Conducted Output Power

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.2.1

The transmitter output was connected to a calibrated coaxial cable, attenuator and power meter, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The power output at the transmitter antenna port was determined by adding the value of the cable insertion loss to the power reading. The tests were performed at three frequencies (low channel, middle channel and high channel) and on the highest power levels, which can be setup on the transmitters.

**Remark: Reference test setup 1**



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## 4.2 Effective (Isotropic) Radiated Power of Transmitter

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.8.4

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



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### 4.3 EIRP Power Density

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.3

#### Test Settings

1. Set instrument center frequency to OBW center frequency.
2. Set span to at least 1.5 times the OBW.
3. Set the RBW to the specified reference bandwidth (often 1 MHz).
4. Set VBW  $\geq 3 \times$  RBW.
5. Detector = RMS (power averaging).
6. Ensure that the number of measurement points in the sweep  $\geq 2 \times$  span/RBW.
7. Sweep time = auto couple.
8. Employ trace averaging (RMS) mode over a minimum of 100 traces.
9. Use the peak marker function to determine the maximum amplitude level within the reference bandwidth (PSD).



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## 4.4 Occupied Bandwidth

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 4.2 & 4.3

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel, middle channel and high channel). The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1 percent of the selected span as is possible without being below 1 percent. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold, may produce a wider bandwidth than actual. The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 percent of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded. The span between the two recorded frequencies is the occupied bandwidth.

**Remark: Reference test setup 1**

### Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW ≥ 3 x RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7



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## 4.5 Band Edge at Antenna Terminals

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 6.0

The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at two frequencies (low channel and high channel).in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of 100kHz or 1% of the emission bandwidth of the fundamental emission of the transmitter may be employed. The EUT emission bandwidth is measured as the width of the signal between two points, outside of which all emission are attenuated at least 26dB below the transmitter power. The video bandwidth of the spectrum analyzer was set at thrice the resolution bandwidth. Detector Mode was set to rms.

### Remark: Reference test setup 1

#### Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW  $\geq$  1% of the emission bandwidth
4. VBW  $\geq$  3 x RBW
5. Detector = RMS
6. Number of sweep points  $\geq$  2 x Span/RBW
7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
8. Sweep time = auto couple
9. The trace was allowed to stabilize





## 4.6 Spurious And Harmonic Emissions at Antenna Terminal

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 6.0

The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyzer, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel and high channel). The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log(P)$  dB. Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

### Remark: Reference test setup 1

#### Test Settings

1. Start frequency was set to 9kHz and stop frequency was set to at least 10\* the fundamental frequency (Separated into at least two plots per channel)
2. Detector = RMS
3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
4. Sweep time = auto couple
5. The trace was allowed to stabilize
6. Please see test notes below for RBW and VBW settings



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## 4.7 Peak-Average Ratio

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.7.2

A peak to average ratio measurement is performed at the conducted port of the EUT. For WCDMA signals, the spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level. For GSM signals, an average and a peak trace are used on a spectrum analyzer to determine the largest deviation between the average and the peak power of the EUT in a bandwidth greater than the emission bandwidth. The traces are generated with the spectrum analyzer set to zero span mode.

### Remark: Reference test setup 1

#### Test Settings

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW > Emission bandwidth of signal
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power



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### 4.8 Field Strength of Spurious Radiation

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.8

**Below 1GHz test procedure as below:**

- 1). The EUT was powered ON and placed on a 80cm high table in the chamber. The antenna of the transmitter was extended to its maximum length.
- 2). The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- 3). Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
- 4). Test the EUT in the lowest channel, the middle channel ,the Highest channel.
- 5). The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
- 6). Repeat above procedures until all frequencies measured was complete.

$$E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dB}\mu\text{V)} + (\text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)} - \text{AMP(dB)})$$

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

**Above 1GHz test procedure as below:**

- 1) Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber
- 2) Calculate power in dBm by the following formula:  

$$E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dB}\mu\text{V)} + (\text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)} - \text{AMP(dB)})$$

$$\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20 \log D - 104.8; \text{ where D is the measurement distance in meters}$$
- 3). Test the EUT in the lowest channel, the middle channel the Highest channel
- 4). The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
- 5). Repeat above procedures until all frequencies measured was complete

Remark1: Reference test setup 2

Remark2: The emission below 18G were measured at a 3m test distance, while emissions above 18GHz were measured at a 1m test distance. At a measurement distance of 1 meter the limit line was increased by  $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$ .

**Remark: Reference test setup 2**

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:  

$$\text{AF} = \text{Antenna Factor(dB/m)}$$

$$\text{Factor} = \text{Cable Factor(dB)} - \text{Preamplifier (dB)}$$

$$\text{Level} = \text{Reading Level} + \text{AF} + \text{Factor} - 95.26$$

$$\text{Margin} = \text{Limit} - \text{Level}$$
- 2) Scan from 9kHz to 40GHz, The disturbance between 9kHz to 30MHz and 18GHz to 40GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) All modes have been tested, but only the worst case data displayed in this report.



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## 4.9 Frequency Stability / Temperature Variation

### Measurement Procedure:

Frequency stability testing is performed in accordance with the guidelines of FCC KDB 971168 D01 V03r01; Section 9

. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

Specification – The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5 ppm ) of the center frequency.

### Time Period and Procedure:

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

### Remark: Reference test setup 3



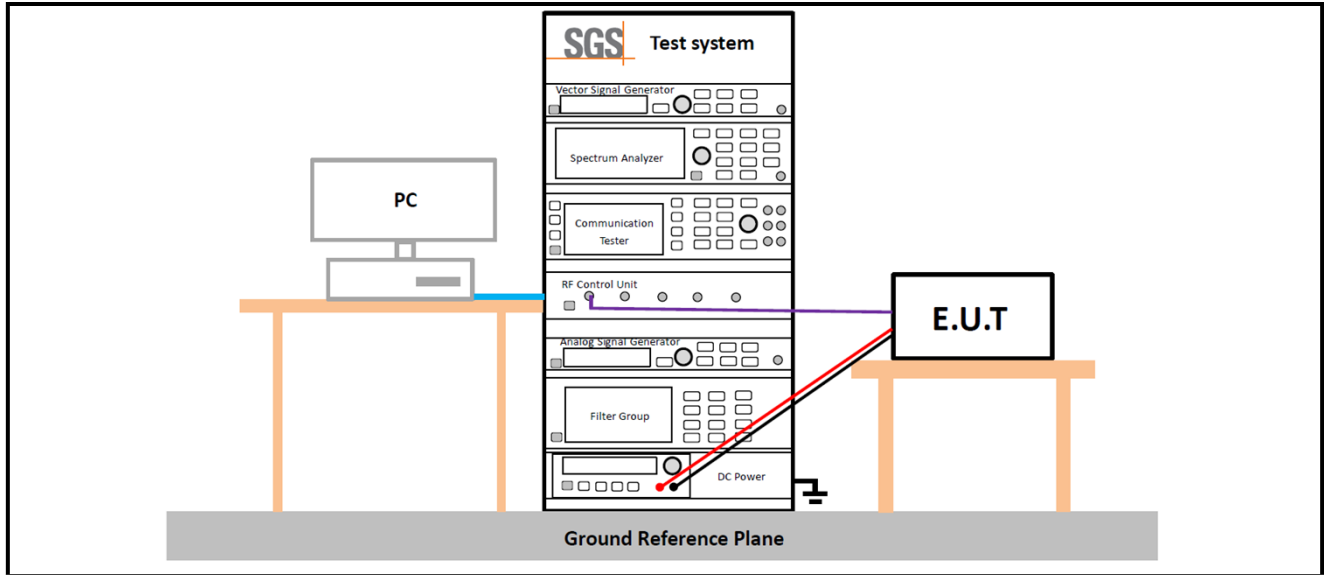
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### 4.10 Test Setups

#### 4.10.1 Test Setup 1



#### 4.10.2 Test Setup 2

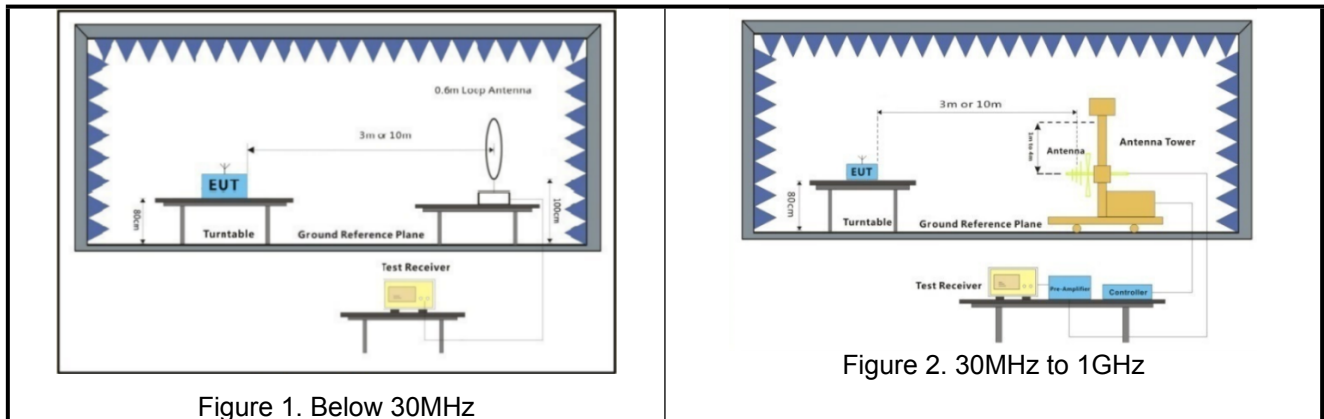


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

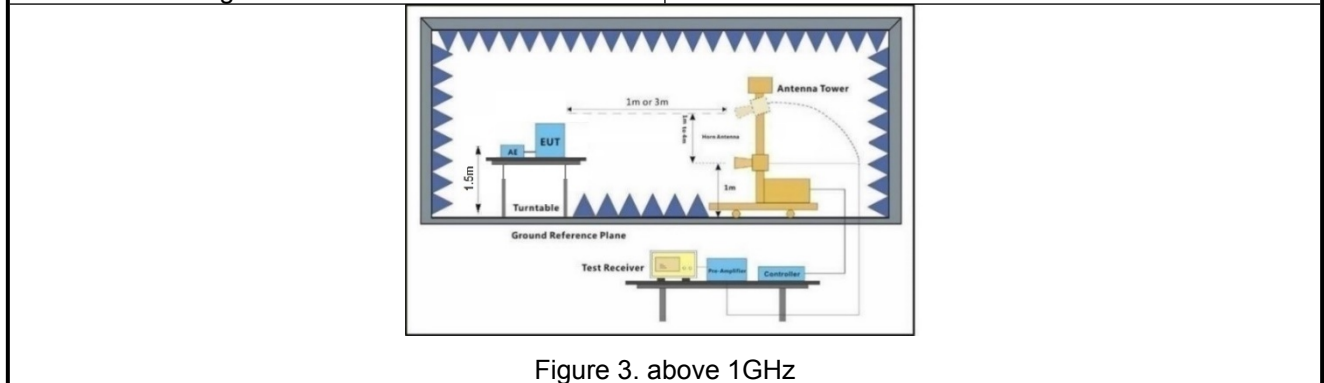


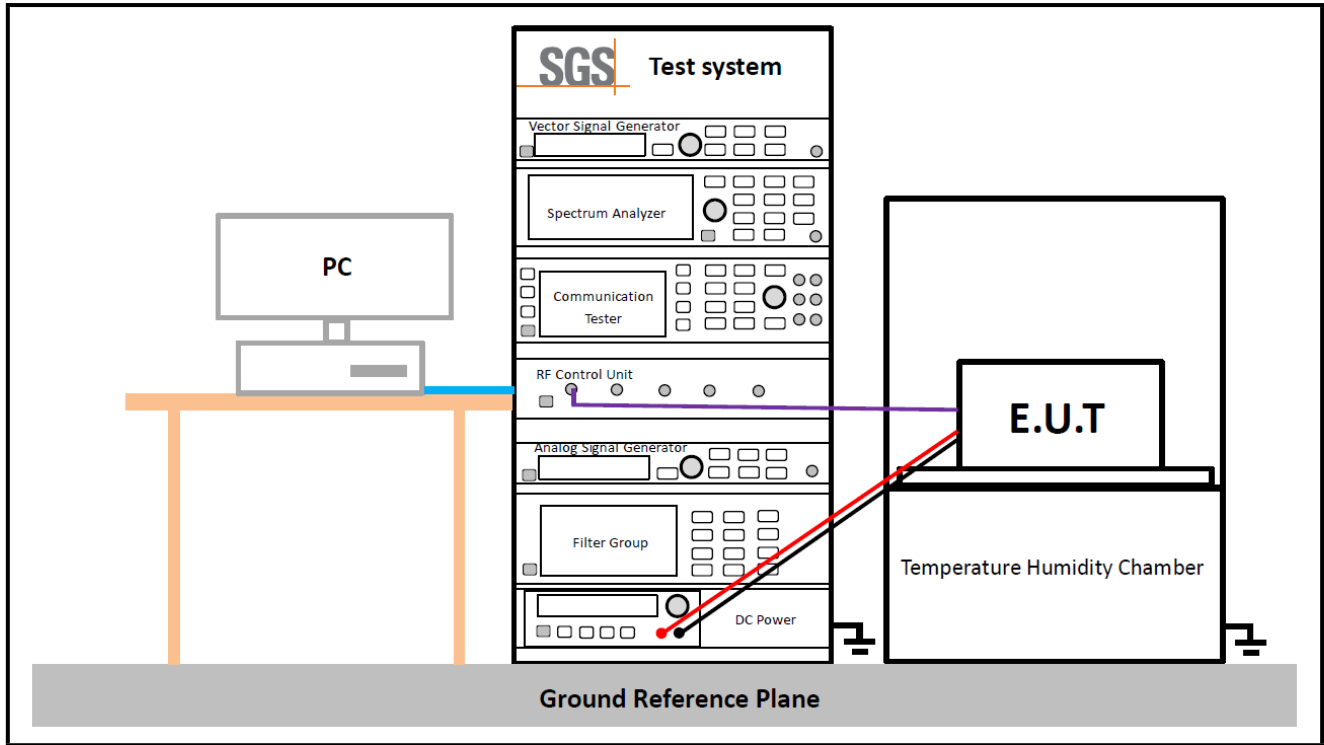
Figure 3. above 1GHz



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4.10.3 Test Setup 3



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### 4.11 Test Conditions

Field Strength of Spurious Radiation	
Test Case	Test Conditions
Test Environment	Ambient Climate & Rated Voltage
Test Setup	Test Setup 2
RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)
Test Mode	UMTS/TM1; LTE/TM1 Remark: All bandwidth and modulation of UMTS/LTE have been pre tested, and only the worst results are reflected in the report.



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## 5 Main Test Instruments

RSE Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-02	2021/11/25	2024/11/24
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-13	2023/02/07	2024/02/06
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-06	2023/11/21	2024/11/20
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9168	SUWI-01-11-04	2023/11/25	2024/11/24
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-05	2023/11/25	2024/11/24
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2023/05/12	2024/05/11
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2023/05/13	2024/05/12
Amplifier	Tonscend	TAP9K3G32	SUWI-01-14-06	2023/11/21	2024/11/20
Amplifier	Tonscend	TAP01018050	SUWI-01-14-04	2023/11/21	2024/11/20
Amplifier	Tonscend	TAP30M7G30	SUWI-01-14-05	2023/11/21	2024/11/20
Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-16-08	2023/02/06	2024/02/05
Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	2023/11/21	2024/11/20
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR

Remark: NCR=No Calibration Requirement.



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## 6 Measurement Uncertainty

For a 95% confidence level ( $k = 2$ ), the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 as following:

No.	Item	Measurement Uncertainty
1	Radiated Emission	$\pm 3.13\text{dB}$ (9k -30MHz)
		$\pm 4.88\text{dB}$ (30M -1GHz)
		$\pm 4.75\text{dB}$ (1GHz to 18GHz)
		$\pm 4.77\text{dB}$ (Above 18GHz)
Remark: The $U_{\text{lab}}$ (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.		



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## 7 Photographs - Setup Photos

Refer to Appendix A.2 WWAN Setup Photos.



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Report No.: SUCR2401000005AT01

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Page: 64 of 170

# Appendix



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**Field Strength of Spurious Radiation  
For WCDMA**

**Test Band = WCDMA Band II \_ TM1**

**Test Channel = Low**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3704.8000	40.32	-45.52	28.81	-71.66	-13.00	58.66	Horizontal
2	5557.2000	39.41	-45.14	32.61	-68.38	-13.00	55.38	Horizontal
3	7409.6000	38.17	-43.38	36.35	-64.13	-13.00	51.13	Horizontal
4	9262.0000	34.70	-40.23	36.80	-63.99	-13.00	50.99	Horizontal
5	11114.4000	30.70	-37.88	38.71	-63.73	-13.00	50.73	Horizontal
6	13380	29.83	-36.42	39.78	-62.07	-13.00	49.07	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3704.8000	38.41	-45.52	28.81	-73.57	-13.00	60.57	Vertical
2	5557.2000	39.11	-45.14	32.61	-68.68	-13.00	55.68	Vertical
3	7409.6000	37.29	-43.38	36.35	-65.01	-13.00	52.01	Vertical
4	9262.0000	34.41	-40.23	36.80	-64.28	-13.00	51.28	Vertical
5	11114.4000	29.73	-37.88	38.71	-64.70	-13.00	51.70	Vertical
6	13698	31.13	-36.16	40.36	-59.93	-13.00	46.93	Vertical



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Test Band = WCDMA Band II \_ TM1  
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760.0000	40.23	-45.75	28.86	-71.92	-13.00	58.92	Horizontal
2	5640.0000	39.10	-44.98	32.63	-68.51	-13.00	55.51	Horizontal
3	7520.0000	38.52	-43.10	36.61	-63.23	-13.00	50.23	Horizontal
4	9400.0000	33.56	-39.83	37.06	-64.47	-13.00	51.47	Horizontal
5	11280.0000	30.73	-37.41	38.73	-63.22	-13.00	50.22	Horizontal
6	13926	29.56	-35.52	40.77	-60.45	-13.00	47.45	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760.0000	39.57	-45.75	28.86	-72.58	-13.00	59.58	Vertical
2	5640.0000	38.30	-44.98	32.63	-69.31	-13.00	56.31	Vertical
3	7520.0000	37.60	-43.10	36.61	-64.15	-13.00	51.15	Vertical
4	9400.0000	33.00	-39.83	37.06	-65.03	-13.00	52.03	Vertical
5	11280.0000	31.32	-37.41	38.73	-62.63	-13.00	49.63	Vertical
6	14790.75	27.86	-35.22	41.22	-61.41	-13.00	48.41	Vertical



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**Test Band = WCDMA Band II \_ TM1**  
**Test Channel = High**

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3815.2000	41.11	-45.97	28.92	-71.21	-13.00	58.21	Horizontal
2	5722.8000	39.05	-44.83	32.64	-68.39	-13.00	55.39	Horizontal
3	7630.0000	37.55	-42.99	36.65	-64.05	-13.00	51.05	Horizontal
4	9538.0000	33.39	-40.01	37.32	-64.56	-13.00	51.56	Horizontal
5	11445.6000	31.15	-37.34	38.74	-62.71	-13.00	49.71	Horizontal
6	13932	29.56	-35.54	40.78	-60.46	-13.00	47.46	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3815.2000	39.77	-45.97	28.92	-72.55	-13.00	59.55	Vertical
2	5722.8000	37.93	-44.83	32.64	-69.51	-13.00	56.51	Vertical
3	7630.0000	37.71	-42.99	36.65	-63.89	-13.00	50.89	Vertical
4	9538.0000	33.28	-40.01	37.32	-64.67	-13.00	51.67	Vertical
5	11445.6000	29.55	-37.34	38.74	-64.31	-13.00	51.31	Vertical
6	14391.75	28.29	-34.91	41.06	-60.83	-13.00	47.83	Vertical



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**Test Band = WCDMA Band IV\_TM1**  
**Test Channel = Low**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3424.8000	41.19	-46.27	28.56	-71.79	-13.00	58.79	Horizontal
2	5137.2000	39.35	-45.34	31.73	-69.52	-13.00	56.52	Horizontal
3	6849.6000	38.55	-44.14	34.93	-65.92	-13.00	52.92	Horizontal
4	8562.0000	35.33	-41.44	36.52	-64.85	-13.00	51.85	Horizontal
5	10274.4000	31.86	-39.19	38.34	-64.26	-13.00	51.26	Horizontal
6	13604.25	30.36	-36.08	40.19	-60.80	-13.00	47.80	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3424.8000	40.89	-46.27	28.56	-72.09	-13.00	59.09	Vertical
2	5137.2000	39.20	-45.34	31.73	-69.67	-13.00	56.67	Vertical
3	6849.6000	38.39	-44.14	34.93	-66.08	-13.00	53.08	Vertical
4	8562.0000	35.42	-41.44	36.52	-64.76	-13.00	51.76	Vertical
5	10274.4000	31.93	-39.19	38.34	-64.19	-13.00	51.19	Vertical
6	14064.75	27.87	-36.02	40.93	-62.48	-13.00	49.48	Vertical



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**Test Band = WCDMA Band IV\_ TM1**  
**Test Channel = Mid**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3465.2000	44.22	-46.27	28.58	-68.73	-13.00	55.73	Horizontal
2	5197.8000	39.01	-45.28	31.88	-69.66	-13.00	56.66	Horizontal
3	6930.4000	39.10	-43.93	35.08	-65.02	-13.00	52.02	Horizontal
4	8663.0000	35.55	-41.56	36.47	-64.80	-13.00	51.80	Horizontal
5	10395.6000	32.30	-39.01	38.40	-63.58	-13.00	50.58	Horizontal
6	14455.5	28.27	-34.82	41.08	-60.73	-13.00	47.73	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3465.2000	43.36	-46.27	28.58	-69.59	-13.00	56.59	Vertical
2	5197.8000	39.18	-45.28	31.88	-69.49	-13.00	56.49	Vertical
3	6930.4000	38.10	-43.93	35.08	-66.02	-13.00	53.02	Vertical
4	8663.0000	35.30	-41.56	36.47	-65.05	-13.00	52.05	Vertical
5	10395.6000	32.28	-39.01	38.40	-63.60	-13.00	50.60	Vertical
6	13732.5	30.38	-36.24	40.42	-60.70	-13.00	47.70	Vertical



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**Test Band = WCDMA Band IV\_ TM1**  
**Test Channel = High**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3505.2000	41.15	-46.25	28.61	-71.76	-13.00	58.76	Horizontal
2	5257.8000	39.36	-45.17	32.02	-69.05	-13.00	56.05	Horizontal
3	7010.4000	38.20	-43.62	35.23	-65.45	-13.00	52.45	Horizontal
4	8763.0000	35.51	-41.41	36.42	-64.74	-13.00	51.74	Horizontal
5	10515.6000	32.14	-38.75	38.46	-63.41	-13.00	50.41	Horizontal
6	13931.25	28.96	-35.53	40.78	-61.06	-13.00	48.06	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3505.2000	41.47	-46.25	28.61	-71.44	-13.00	58.44	Vertical
2	5257.8000	39.41	-45.17	32.02	-69.00	-13.00	56.00	Vertical
3	7010.4000	39.01	-43.62	35.23	-64.64	-13.00	51.64	Vertical
4	8763.0000	35.24	-41.41	36.42	-65.01	-13.00	52.01	Vertical
5	10515.6000	31.51	-38.75	38.46	-64.04	-13.00	51.04	Vertical
6	14324.25	28.77	-35.83	41.03	-61.29	-13.00	48.29	Vertical



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**Test Band = WCDMA Band V \_ TM1**  
**Test Channel = Low**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1652.8000	43.70	-48.22	25.28	-74.50	-13.00	61.50	Horizontal
2	2479.2000	42.41	-47.31	27.24	-72.91	-13.00	59.91	Horizontal
3	3305.6000	41.99	-46.67	28.48	-71.46	-13.00	58.46	Horizontal
4	4132.0000	40.74	-45.92	29.42	-71.02	-13.00	58.02	Horizontal
5	4958.4000	40.86	-45.72	31.31	-68.81	-13.00	55.81	Horizontal
6	6734.2857	40.21	-44.08	34.72	-64.41	-13.00	51.41	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1652.8000	43.29	-48.22	25.28	-74.91	-13.00	61.91	Vertical
2	2479.2000	42.85	-47.31	27.24	-72.47	-13.00	59.47	Vertical
3	3305.6000	42.22	-46.67	28.48	-71.23	-13.00	58.23	Vertical
4	4132.0000	40.55	-45.92	29.42	-71.21	-13.00	58.21	Vertical
5	4958.4000	41.15	-45.72	31.31	-68.52	-13.00	55.52	Vertical
6	7626.8571	39.50	-43.04	36.65	-62.15	-13.00	49.15	Vertical



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**Test Band = WCDMA Band V \_ TM1**  
**Test Channel = Mid**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8000	44.46	-48.19	25.31	-73.68	-13.00	60.68	Horizontal
2	2509.2000	42.39	-47.24	27.32	-72.79	-13.00	59.79	Horizontal
3	3345.6000	41.75	-46.62	28.51	-71.62	-13.00	58.62	Horizontal
4	4182.0000	40.32	-45.95	29.54	-71.35	-13.00	58.35	Horizontal
5	5018.4000	40.61	-45.73	31.45	-68.93	-13.00	55.93	Horizontal
6	7809.7143	38.69	-42.61	36.72	-62.46	-13.00	49.46	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8000	45.47	-48.19	25.31	-72.67	-13.00	59.67	Vertical
2	2509.2000	41.66	-47.24	27.32	-73.52	-13.00	60.52	Vertical
3	3345.6000	42.02	-46.62	28.51	-71.35	-13.00	58.35	Vertical
4	4182.0000	40.02	-45.95	29.54	-71.65	-13.00	58.65	Vertical
5	5018.4000	40.86	-45.73	31.45	-68.68	-13.00	55.68	Vertical
6	7229.1429	40.25	-43.75	35.84	-62.92	-13.00	49.92	Vertical



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**Test Band = WCDMA Band V \_ TM1**  
**Test Channel = High**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1693.2000	43.39	-48.17	25.34	-74.70	-13.00	61.70	Horizontal
2	2539.8000	42.80	-47.13	27.38	-72.21	-13.00	59.21	Horizontal
3	3386.4000	42.68	-46.56	28.53	-70.61	-13.00	57.61	Horizontal
4	4233.0000	40.47	-45.90	29.66	-71.03	-13.00	58.03	Horizontal
5	5079.6000	39.68	-45.47	31.59	-69.45	-13.00	56.45	Horizontal
6	7852.5714	38.99	-42.70	36.74	-62.22	-13.00	49.22	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1693.2000	43.50	-48.17	25.34	-74.59	-13.00	61.59	Vertical
2	2539.8000	42.51	-47.13	27.38	-72.50	-13.00	59.50	Vertical
3	3386.4000	41.92	-46.56	28.53	-71.37	-13.00	58.37	Vertical
4	4233.0000	40.46	-45.90	29.66	-71.04	-13.00	58.04	Vertical
5	5079.6000	39.58	-45.47	31.59	-69.55	-13.00	56.55	Vertical
6	7025.1429	39.66	-43.73	35.27	-64.06	-13.00	51.06	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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**For LTE**  
**Test Band = LTE Band2\_ TM1**  
**Test Channel = Low**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3702	53.38	-45.51	28.80	-58.59	-13.00	45.59	Horizontal
2	5553.2700	40.07	-45.15	32.61	-67.73	-13.00	54.73	Horizontal
3	7404.3600	43.22	-43.40	36.33	-59.10	-13.00	46.10	Horizontal
4	9255.4500	35.49	-40.23	36.79	-63.22	-13.00	50.22	Horizontal
5	11106.5400	30.97	-37.93	38.71	-63.51	-13.00	50.51	Horizontal
6	12957.6300	29.44	-37.24	39.09	-63.97	-13.00	50.97	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3702	42.91	-45.51	28.80	-69.06	-13.00	56.06	Vertical
2	5553.2700	39.01	-45.15	32.61	-68.79	-13.00	55.79	Vertical
3	7404.3600	44.54	-43.40	36.33	-57.78	-13.00	44.78	Vertical
4	9255.4500	35.03	-40.23	36.79	-63.68	-13.00	50.68	Vertical
5	11106.5400	31.21	-37.93	38.71	-63.27	-13.00	50.27	Vertical
6	12957.6300	29.96	-37.24	39.09	-63.45	-13.00	50.45	Vertical



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Test Band = LTE Band2\_ TM1  
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3742.1800	51.83	-45.68	28.84	-60.27	-13.00	47.27	Horizontal
2	5613.2700	39.36	-45.04	32.62	-68.32	-13.00	55.32	Horizontal
3	7484.25	41.65	-43.18	36.56	-60.24	-13.00	47.24	Horizontal
4	9355.4500	34.94	-40.00	36.98	-63.35	-13.00	50.35	Horizontal
5	11226.5400	31.62	-37.40	38.72	-62.32	-13.00	49.32	Horizontal
6	13097.6300	29.99	-37.01	39.28	-63.00	-13.00	50.00	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3742.1800	44.82	-45.68	28.84	-67.28	-13.00	54.28	Vertical
2	5613.2700	39.41	-45.04	32.62	-68.27	-13.00	55.27	Vertical
3	7484.25	40.97	-43.18	36.56	-60.92	-13.00	47.92	Vertical
4	9355.4500	34.92	-40.00	36.98	-63.37	-13.00	50.37	Vertical
5	11226.5400	32.21	-37.40	38.72	-61.73	-13.00	48.73	Vertical
6	13097.6300	29.00	-37.01	39.28	-63.99	-13.00	50.99	Vertical



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Test Band = LTE Band2\_ TM1  
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3782.1800	54.72	-45.85	28.88	-57.50	-13.00	44.50	Horizontal
2	5673.2700	40.56	-44.91	32.63	-66.97	-13.00	53.97	Horizontal
3	7564.3600	40.34	-43.00	36.63	-61.30	-13.00	48.30	Horizontal
4	9455.4500	33.79	-40.05	37.17	-64.36	-13.00	51.36	Horizontal
5	11346.5400	30.04	-37.40	38.73	-63.88	-13.00	50.88	Horizontal
6	13237.6300	28.22	-37.08	39.53	-64.59	-13.00	51.59	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3782.1800	47.69	-45.85	28.88	-64.53	-13.00	51.53	Vertical
2	5673.2700	38.76	-44.91	32.63	-68.77	-13.00	55.77	Vertical
3	7564.3600	45.56	-43.00	36.63	-56.08	-13.00	43.08	Vertical
4	9455.4500	32.98	-40.05	37.17	-65.17	-13.00	52.17	Vertical
5	11346.5400	31.18	-37.40	38.73	-62.74	-13.00	49.74	Vertical
6	13237.6300	27.60	-37.08	39.53	-65.21	-13.00	52.21	Vertical



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**Test Band = LTE Band25\_ TM1**  
**Test Channel = Low**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3702.1800	40.32	-45.51	28.80	-71.65	-13.00	58.65	Horizontal
2	5553.2700	39.40	-45.15	32.61	-68.40	-13.00	55.40	Horizontal
3	7404.3600	38.04	-43.40	36.33	-64.28	-13.00	51.28	Horizontal
4	9255.4500	34.14	-40.23	36.79	-64.57	-13.00	51.57	Horizontal
5	11106.5400	30.61	-37.93	38.71	-63.87	-13.00	50.87	Horizontal
6	12957.6300	29.16	-37.24	39.09	-64.25	-13.00	51.25	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3702.1800	38.44	-45.51	28.80	-73.53	-13.00	60.53	Vertical
2	5553.2700	38.15	-45.15	32.61	-69.65	-13.00	56.65	Vertical
3	7404.3600	37.20	-43.40	36.33	-65.12	-13.00	52.12	Vertical
4	9255.4500	34.78	-40.23	36.79	-63.93	-13.00	50.93	Vertical
5	11106.5400	30.96	-37.93	38.71	-63.52	-13.00	50.52	Vertical
6	12957.6300	28.02	-37.24	39.09	-65.39	-13.00	52.39	Vertical



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Test Band = LTE Band25\_ TM1  
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3747	53.69	-45.70	28.85	-58.42	-13.00	45.42	Horizontal
2	5613.2700	39.57	-45.04	32.62	-68.11	-13.00	55.11	Horizontal
3	7494.75	41.31	-43.15	36.59	-60.52	-13.00	47.52	Horizontal
4	9355.4500	34.54	-40.00	36.98	-63.75	-13.00	50.75	Horizontal
5	11226.5400	31.17	-37.40	38.72	-62.77	-13.00	49.77	Horizontal
6	13097.6300	27.86	-37.01	39.28	-65.13	-13.00	52.13	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3747	46.27	-45.70	28.85	-65.84	-13.00	52.84	Vertical
2	5613.2700	39.06	-45.04	32.62	-68.62	-13.00	55.62	Vertical
3	7494	41.74	-43.16	36.58	-60.09	-13.00	47.09	Vertical
4	9355.4500	34.45	-40.00	36.98	-63.84	-13.00	50.84	Vertical
5	11226.5400	30.91	-37.40	38.72	-63.03	-13.00	50.03	Vertical
6	13097.6300	28.47	-37.01	39.28	-64.52	-13.00	51.52	Vertical



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Test Band = LTE Band25\_ TM1  
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3792.1800	41.22	-45.89	28.89	-71.04	-13.00	58.04	Horizontal
2	5688.2700	38.98	-44.87	32.64	-68.52	-13.00	55.52	Horizontal
3	7584.3600	36.93	-42.96	36.63	-64.66	-13.00	51.66	Horizontal
4	9480.4500	34.85	-40.15	37.21	-63.35	-13.00	50.35	Horizontal
5	11376.5400	29.63	-37.38	38.74	-64.27	-13.00	51.27	Horizontal
6	13272.6300	28.25	-36.97	39.59	-64.39	-13.00	51.39	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3792.1800	40.00	-45.89	28.89	-72.26	-13.00	59.26	Vertical
2	5688.2700	38.63	-44.87	32.64	-68.87	-13.00	55.87	Vertical
3	7584.3600	36.51	-42.96	36.63	-65.08	-13.00	52.08	Vertical
4	9480.4500	33.99	-40.15	37.21	-64.21	-13.00	51.21	Vertical
5	11376.5400	28.80	-37.38	38.74	-65.10	-13.00	52.10	Vertical
6	13272.6300	28.21	-36.97	39.59	-64.43	-13.00	51.43	Vertical



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Test Band = LTE Band66\_ TM1  
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3404.1800	41.33	-46.28	28.54	-71.67	-13.00	58.67	Horizontal
2	5106.2700	39.04	-45.36	31.66	-69.93	-13.00	56.93	Horizontal
3	6808.3600	39.00	-44.16	34.86	-65.57	-13.00	52.57	Horizontal
4	8510.4500	35.59	-41.59	36.54	-64.71	-13.00	51.71	Horizontal
5	10212.5400	31.54	-39.45	38.31	-64.86	-13.00	51.86	Horizontal
6	11914.6300	28.92	-37.18	38.79	-64.73	-13.00	51.73	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3404.1800	40.00	-46.28	28.54	-73.00	-13.00	60.00	Vertical
2	5106.2700	38.94	-45.36	31.66	-70.03	-13.00	57.03	Vertical
3	6808.3600	39.13	-44.16	34.86	-65.44	-13.00	52.44	Vertical
4	8510.4500	34.81	-41.59	36.54	-65.49	-13.00	52.49	Vertical
5	10212.5400	31.89	-39.45	38.31	-64.51	-13.00	51.51	Vertical
6	11914.6300	27.55	-37.18	38.79	-66.10	-13.00	53.10	Vertical



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Member of the SGS Group (SGS SA)



Test Band = LTE Band66\_ TM1  
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3454.1800	42.49	-46.27	28.57	-70.47	-13.00	57.47	Horizontal
2	5181.2700	39.16	-45.30	31.84	-69.56	-13.00	56.56	Horizontal
3	6908.3600	38.33	-44.05	35.04	-65.94	-13.00	52.94	Horizontal
4	8635.4500	36.28	-41.46	36.48	-63.96	-13.00	50.96	Horizontal
5	10362.5400	32.28	-39.04	38.38	-63.64	-13.00	50.64	Horizontal
6	12089.6300	29.34	-37.37	38.83	-64.46	-13.00	51.46	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3454.1800	41.28	-46.27	28.57	-71.68	-13.00	58.68	Vertical
2	5181.2700	39.21	-45.30	31.84	-69.51	-13.00	56.51	Vertical
3	6908.3600	39.55	-44.05	35.04	-64.72	-13.00	51.72	Vertical
4	8635.4500	35.99	-41.46	36.48	-64.25	-13.00	51.25	Vertical
5	10362.5400	32.22	-39.04	38.38	-63.70	-13.00	50.70	Vertical
6	12089.6300	28.96	-37.37	38.83	-64.84	-13.00	51.84	Vertical



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**Test Band = LTE Band66\_ TM1**  
**Test Channel = High**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3504.1800	41.58	-46.25	28.60	-71.33	-13.00	58.33	Horizontal
2	5256.2700	41.51	-45.17	32.02	-66.91	-13.00	55.69	Horizontal
3	7008.3600	39.26	-43.61	35.22	-64.38	-13.00	51.38	Horizontal
4	8760.4500	36.60	-41.42	36.42	-63.66	-13.00	50.66	Horizontal
5	10512.5400	32.80	-38.76	38.46	-62.76	-13.00	49.76	Horizontal
6	12262.6300	29.19	-37.44	38.88	-64.63	-13.00	51.63	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3504.1800	41.30	-46.25	28.60	-71.61	-13.00	58.61	Vertical
2	5256.2700	39.52	-45.17	32.02	-68.90	-13.00	55.90	Vertical
3	7008.3600	38.17	-43.61	35.22	-65.47	-13.00	52.47	Vertical
4	8760.4500	35.34	-41.42	36.42	-64.92	-13.00	51.92	Vertical
5	10512.5400	31.56	-38.76	38.46	-64.00	-13.00	51.00	Vertical
6	12262.6300	28.91	-37.44	38.88	-64.91	-13.00	51.91	Vertical



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Test Band = LTE Band71\_ TM1  
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1328.1800	44.14	-48.09	25.14	-74.08	-13.00	61.08	Horizontal
2	1992.2700	42.98	-47.91	25.89	-74.31	-13.00	61.31	Horizontal
3	2656.3600	42.84	-47.00	27.61	-71.80	-13.00	58.80	Horizontal
4	3320.4500	42.11	-46.65	28.49	-71.31	-13.00	58.31	Horizontal
5	3984.5400	41.26	-46.20	29.08	-71.12	-13.00	58.12	Horizontal
6	4648.6300	40.58	-45.79	30.63	-69.85	-13.00	56.85	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1328.1800	43.55	-48.09	25.14	-74.67	-13.00	61.67	Vertical
2	1992.2700	43.11	-47.91	25.89	-74.18	-13.00	61.18	Vertical
3	2656.3600	42.41	-47.00	27.61	-72.23	-13.00	59.23	Vertical
4	3320.4500	42.44	-46.65	28.49	-70.98	-13.00	57.98	Vertical
5	3984.5400	41.29	-46.20	29.08	-71.09	-13.00	58.09	Vertical
6	4648.6300	40.50	-45.79	30.63	-69.93	-13.00	56.93	Vertical



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Test Band = LTE Band71\_ TM1  
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1348.1800	44.11	-48.07	25.13	-74.09	-13.00	61.09	Horizontal
2	2022.2700	42.69	-47.86	25.96	-74.47	-13.00	61.47	Horizontal
3	2696.3600	42.42	-47.05	27.69	-72.19	-13.00	59.19	Horizontal
4	3370.4500	42.23	-46.58	28.52	-71.09	-13.00	58.09	Horizontal
5	4044.5400	41.91	-46.07	29.21	-70.21	-13.00	57.21	Horizontal
6	4718.6300	40.20	-45.77	30.78	-70.05	-13.00	57.05	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1348.1800	44.22	-48.07	25.13	-73.98	-13.00	60.98	Vertical
2	2022.2700	42.72	-47.86	25.96	-74.44	-13.00	61.44	Vertical
3	2696.3600	42.36	-47.05	27.69	-72.25	-13.00	59.25	Vertical
4	3370.4500	41.62	-46.58	28.52	-71.70	-13.00	58.70	Vertical
5	4044.5400	40.73	-46.07	29.21	-71.39	-13.00	58.39	Vertical
6	4718.6300	40.21	-45.77	30.78	-70.04	-13.00	57.04	Vertical



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Test Band = LTE Band71\_ TM1  
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1358.1800	44.06	-48.05	25.12	-74.13	-13.00	61.13	Horizontal
2	2037.2700	43.16	-47.83	26.01	-73.92	-13.00	60.92	Horizontal
3	2716.3600	43.15	-47.03	27.73	-71.41	-13.00	58.41	Horizontal
4	3395.4500	41.43	-46.55	28.54	-71.84	-13.00	58.84	Horizontal
5	4074.5400	40.68	-45.98	29.28	-71.28	-13.00	58.28	Horizontal
6	4753.6300	40.56	-45.71	30.86	-69.56	-13.00	56.56	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1358.1800	43.97	-48.05	25.12	-74.22	-13.00	61.22	Vertical
2	2037.2700	43.28	-47.83	26.01	-73.80	-13.00	60.80	Vertical
3	2716.3600	42.62	-47.03	27.73	-71.94	-13.00	58.94	Vertical
4	3395.4500	41.81	-46.55	28.54	-71.46	-13.00	58.46	Vertical
5	4074.5400	41.39	-45.98	29.28	-70.57	-13.00	57.57	Vertical
6	4753.6300	40.34	-45.71	30.86	-69.78	-13.00	56.78	Vertical



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**Test Band = LTE Band4\_ TM1**  
**Test Channel = Low**

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422.1800	40.33	-46.28	28.55	-72.65	-13.00	59.65	Horizontal
2	5133.2700	38.81	-45.34	31.72	-70.07	-13.00	57.07	Horizontal
3	6844.3600	38.00	-44.14	34.92	-66.48	-13.00	53.48	Horizontal
4	8555.4500	35.15	-41.46	36.52	-65.05	-13.00	52.05	Horizontal
5	10266.5400	32.18	-39.23	38.33	-63.97	-13.00	50.97	Horizontal
6	11977.6300	27.89	-37.51	38.80	-66.09	-13.00	53.09	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422.1800	40.48	-46.28	28.55	-72.50	-13.00	59.50	Vertical
2	5133.2700	39.29	-45.34	31.72	-69.59	-13.00	56.59	Vertical
3	6844.3600	38.67	-44.14	34.92	-65.81	-13.00	52.81	Vertical
4	8555.4500	35.13	-41.46	36.52	-65.07	-13.00	52.07	Vertical
5	10266.5400	32.08	-39.23	38.33	-64.07	-13.00	51.07	Vertical
6	11977.6300	28.42	-37.51	38.80	-65.56	-13.00	52.56	Vertical



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Test Band = LTE Band4\_ TM1  
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3447.1800	41.33	-46.27	28.57	-71.63	-13.00	58.63	Horizontal
2	5170.7700	39.92	-45.31	31.81	-68.83	-13.00	55.83	Horizontal
3	6894.3600	38.66	-44.10	35.01	-65.69	-13.00	52.69	Horizontal
4	8617.9500	35.52	-41.40	36.49	-64.64	-13.00	51.64	Horizontal
5	10341.5400	31.60	-39.06	38.37	-64.35	-13.00	51.35	Horizontal
6	12065.1300	29.90	-37.44	38.82	-63.98	-13.00	50.98	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3447.1800	40.84	-46.27	28.57	-72.12	-13.00	59.12	Vertical
2	5170.7700	39.65	-45.31	31.81	-69.10	-13.00	56.10	Vertical
3	6894.3600	38.71	-44.10	35.01	-65.64	-13.00	52.64	Vertical
4	8617.9500	36.09	-41.40	36.49	-64.07	-13.00	51.07	Vertical
5	10341.5400	31.94	-39.06	38.37	-64.01	-13.00	51.01	Vertical
6	12065.1300	30.16	-37.44	38.82	-63.72	-13.00	50.72	Vertical



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**Test Band = LTE Band4\_ TM1**  
**Test Channel = High**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.1800	41.19	-46.27	28.58	-71.75	-13.00	58.75	Horizontal
2	5208.2700	39.84	-45.26	31.90	-68.78	-13.00	55.78	Horizontal
3	6944.3600	38.08	-43.85	35.10	-65.93	-13.00	52.93	Horizontal
4	8680.4500	36.57	-41.62	36.46	-63.85	-13.00	50.85	Horizontal
5	10416.5400	32.62	-38.97	38.41	-63.21	-13.00	50.21	Horizontal
6	12152.6300	29.54	-37.42	38.85	-64.29	-13.00	51.29	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.1800	42.40	-46.27	28.58	-70.54	-13.00	57.54	Vertical
2	5208.2700	39.46	-45.26	31.90	-69.16	-13.00	56.16	Vertical
3	6944.3600	37.74	-43.85	35.10	-66.27	-13.00	53.27	Vertical
4	8680.4500	37.22	-41.62	36.46	-63.20	-13.00	50.20	Vertical
5	10416.5400	32.19	-38.97	38.41	-63.64	-13.00	50.64	Vertical
6	12152.6300	29.20	-37.42	38.85	-64.63	-13.00	51.63	Vertical



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Test Band = LTE Band5\_ TM1  
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.1800	43.08	-48.22	25.27	-75.13	-13.00	62.13	Horizontal
2	2473.7700	42.32	-47.32	27.23	-73.03	-13.00	60.03	Horizontal
3	3298.3600	42.16	-46.68	28.48	-71.30	-13.00	58.30	Horizontal
4	4122.9500	40.91	-45.91	29.40	-70.87	-13.00	57.87	Horizontal
5	4947.5400	41.06	-45.69	31.29	-68.60	-13.00	55.60	Horizontal
6	5772.1300	38.52	-44.64	32.65	-68.72	-13.00	55.72	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.1800	43.44	-48.22	25.27	-74.77	-13.00	61.77	Vertical
2	2473.7700	43.49	-47.32	27.23	-71.86	-13.00	58.86	Vertical
3	3298.3600	42.16	-46.68	28.48	-71.30	-13.00	58.30	Vertical
4	4122.9500	40.66	-45.91	29.40	-71.12	-13.00	58.12	Vertical
5	4947.5400	41.05	-45.69	31.29	-68.61	-13.00	55.61	Vertical
6	5772.1300	39.18	-44.64	32.65	-68.06	-13.00	55.06	Vertical



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Test Band = LTE Band5\_ TM1  
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1664.1800	43.27	-48.20	25.30	-74.90	-13.00	61.90	Horizontal
2	2496.2700	42.27	-47.28	27.29	-72.98	-13.00	59.98	Horizontal
3	3328.3600	42.01	-46.64	28.50	-71.39	-13.00	58.39	Horizontal
4	4160.4500	40.65	-45.94	29.49	-71.06	-13.00	58.06	Horizontal
5	4992.5400	41.14	-45.79	31.38	-68.53	-13.00	55.53	Horizontal
6	5824.6300	39.31	-44.74	32.67	-68.02	-13.00	55.02	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1664.1800	43.24	-48.20	25.30	-74.93	-13.00	61.93	Vertical
2	2496.2700	42.55	-47.28	27.29	-72.70	-13.00	59.70	Vertical
3	3328.3600	42.07	-46.64	28.50	-71.33	-13.00	58.33	Vertical
4	4160.4500	41.10	-45.94	29.49	-70.61	-13.00	57.61	Vertical
5	4992.5400	40.90	-45.79	31.38	-68.77	-13.00	55.77	Vertical
6	5824.6300	39.47	-44.74	32.67	-67.86	-13.00	54.86	Vertical



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Test Band = LTE Band5\_ TM1  
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679.1800	42.48	-48.18	25.32	-75.65	-13.00	60.01	Horizontal
2	2518.7700	41.98	-47.21	27.34	-73.15	-13.00	54.58	Horizontal
3	3358.3600	42.30	-46.60	28.52	-71.04	-13.00	58.04	Horizontal
4	4197.9500	39.92	-45.96	29.58	-71.72	-13.00	58.72	Horizontal
5	5037.5400	40.46	-45.65	31.49	-68.96	-13.00	55.96	Horizontal
6	5887.1300	39.95	-44.93	32.68	-67.56	-13.00	54.56	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679.1800	43.63	-48.18	25.32	-74.50	-13.00	60.37	Vertical
2	2518.7700	43.29	-47.21	27.34	-71.84	-13.00	58.84	Vertical
3	3358.3600	41.68	-46.60	28.52	-71.66	-13.00	58.66	Vertical
4	4197.9500	40.84	-45.96	29.58	-70.80	-13.00	57.80	Vertical
5	5037.5400	40.76	-45.65	31.49	-68.66	-13.00	55.66	Vertical
6	5887.1300	40.00	-44.93	32.68	-67.51	-13.00	54.51	Vertical



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Test Band = LTE Band13\_10M\_TM1  
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555.1800	49.51	-48.30	25.18	-68.87	-13.00	55.87	Horizontal
2	2332.5714	53.69	-47.48	26.83	-62.22	-13.00	49.22	Horizontal
3	3110.3600	42.69	-46.70	28.37	-70.90	-13.00	57.90	Horizontal
4	3887.9500	41.76	-46.22	28.99	-70.73	-13.00	57.73	Horizontal
5	4665.5400	41.37	-45.80	30.66	-69.02	-13.00	56.02	Horizontal
6	5443.1300	40.49	-45.04	32.46	-67.35	-13.00	54.35	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555.1800	50.62	-48.30	25.18	-67.76	-13.00	54.76	Vertical
2	2332.7700	48.46	-47.48	26.83	-67.45	-13.00	54.45	Vertical
3	3110.2857	46.35	-46.70	28.37	-67.25	-13.00	54.25	Vertical
4	3887.9500	45.43	-46.22	28.99	-67.06	-13.00	54.06	Vertical
5	4665.5400	43.22	-45.80	30.66	-67.17	-13.00	54.17	Vertical
6	5443.1300	40.53	-45.04	32.46	-67.31	-13.00	54.31	Vertical



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Test Band = LTE Band13\_5M\_TM1  
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.6800	50.04	-48.30	25.18	-68.34	-13.00	55.34	Horizontal
2	2332	51.96	-47.48	26.83	-63.95	-13.00	50.95	Horizontal
3	3109.3600	43.72	-46.71	28.37	-69.88	-13.00	56.88	Horizontal
4	3886.7000	42.03	-46.22	28.99	-70.46	-13.00	57.46	Horizontal
5	4664.0400	41.68	-45.80	30.66	-68.71	-13.00	55.71	Horizontal
6	5441.3800	40.24	-45.04	32.46	-67.60	-13.00	54.60	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.6800	50.03	-48.30	25.18	-68.35	-13.00	55.35	Vertical
2	2332	50.57	-47.48	26.83	-65.34	-13.00	52.34	Vertical
3	3109.3600	45.14	-46.71	28.37	-68.46	-13.00	55.46	Vertical
4	3886.7000	45.41	-46.22	28.99	-67.08	-13.00	54.08	Vertical
5	4664	44.47	-45.80	30.66	-65.93	-13.00	52.93	Vertical
6	5441.3800	40.46	-45.04	32.46	-67.38	-13.00	54.38	Vertical



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Test Band = LTE Band13\_5M\_TM1  
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.6800	50.77	-48.30	25.18	-67.61	-40.00	27.61	Horizontal
2	2339.4286	53.56	-47.48	26.85	-62.33	-13.00	49.33	Horizontal
3	3119.3600	42.41	-46.66	28.37	-71.14	-13.00	58.14	Horizontal
4	3899.2000	40.67	-46.23	29.00	-71.82	-13.00	58.82	Horizontal
5	4679.0400	40.35	-45.80	30.69	-70.01	-13.00	57.01	Horizontal
6	5458.8800	40.25	-45.07	32.50	-67.58	-13.00	54.58	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.4286	51.09	-48.30	25.18	-67.29	-40.00	27.29	Vertical
2	2339.4286	49.67	-47.48	26.85	-66.22	-13.00	53.22	Vertical
3	3119.3600	43.05	-46.66	28.37	-70.50	-13.00	57.50	Vertical
4	3899.2000	41.46	-46.23	29.00	-71.03	-13.00	58.03	Vertical
5	4679.0400	40.58	-45.80	30.69	-69.78	-13.00	56.78	Vertical
6	5458.8800	40.16	-45.07	32.50	-67.67	-13.00	54.67	Vertical



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Test Band = LTE Band13\_5M\_TM1  
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.5714	52.87	-48.29	25.18	-65.50	-40.00	25.50	Horizontal
2	2346.8571	60.75	-47.48	26.87	-55.12	-13.00	42.12	Horizontal
3	3129.3600	44.22	-46.61	28.38	-69.28	-13.00	56.28	Horizontal
4	3911.7000	41.52	-46.23	29.01	-70.95	-13.00	57.95	Horizontal
5	4694.0400	41.28	-45.80	30.73	-69.05	-13.00	56.05	Horizontal
6	5476.3800	40.20	-45.10	32.54	-67.62	-13.00	54.62	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.5714	51.82	-48.29	25.18	-66.55	-40.00	26.55	Vertical
2	2346.8571	54.77	-47.48	26.87	-61.10	-13.00	48.10	Vertical
3	3129.3600	44.51	-46.61	28.38	-68.99	-13.00	55.99	Vertical
4	3911.7000	44.13	-46.23	29.01	-68.34	-13.00	55.34	Vertical
5	4694.0400	43.00	-45.80	30.73	-67.33	-13.00	54.33	Vertical
6	5476.3800	39.90	-45.10	32.54	-67.92	-13.00	54.92	Vertical



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Test Band = LTE Band14\_10M\_TM1  
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1577.1429	52.80	-48.29	25.19	-65.56	-40.00	25.56	Horizontal
2	2365.7143	55.59	-47.47	26.92	-60.21	-13.00	47.21	Horizontal
3	3154.3600	42.11	-46.50	28.39	-71.25	-13.00	58.25	Horizontal
4	3942.9500	41.88	-46.22	29.04	-70.55	-13.00	57.55	Horizontal
5	4731.5400	41.45	-45.75	30.81	-68.75	-13.00	55.75	Horizontal
6	5520.1300	39.78	-45.17	32.60	-68.04	-13.00	55.04	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1577.1429	54.44	-48.29	25.19	-63.92	-40.00	23.92	Vertical
2	2365.7143	52.86	-47.47	26.92	-62.94	-13.00	49.94	Vertical
3	3154.3600	42.37	-46.50	28.39	-70.99	-13.00	57.99	Vertical
4	3942.9500	41.94	-46.22	29.04	-70.49	-13.00	57.49	Vertical
5	4731.5400	40.81	-45.75	30.81	-69.39	-13.00	56.39	Vertical
6	5520.1300	40.11	-45.17	32.60	-67.71	-13.00	54.71	Vertical



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中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com



Test Band = LTE Band14\_5M\_TM1
Test Channel = Low

Table with 9 columns: NO., Frequency [MHz], Reading [dBµV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Polarity. Contains 6 rows of data.

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Test Band = LTE Band14\_5M\_TM1  
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1581.6800	52.15	-48.29	25.19	-66.21	-40.00	26.21	Horizontal
2	2372.5200	57.88	-47.46	26.94	-57.90	-13.00	44.90	Horizontal
3	3163.3600	42.47	-46.46	28.40	-70.85	-13.00	57.85	Horizontal
4	3954.2000	41.75	-46.21	29.05	-70.67	-13.00	57.67	Horizontal
5	4745.0400	40.70	-45.73	30.84	-69.45	-13.00	56.45	Horizontal
6	5535.8800	39.04	-45.19	32.61	-68.80	-13.00	55.80	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1581.6800	54.55	-48.29	25.19	-63.81	-40.00	23.81	Vertical
2	2372.5200	54.01	-47.46	26.94	-61.77	-13.00	48.77	Vertical
3	3163.3600	44.04	-46.46	28.40	-69.28	-13.00	56.28	Vertical
4	3954.2000	42.06	-46.21	29.05	-70.36	-13.00	57.36	Vertical
5	4745.0400	41.02	-45.73	30.84	-69.13	-13.00	56.13	Vertical
6	5535.8800	39.29	-45.19	32.61	-68.55	-13.00	55.55	Vertical



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Test Band = LTE Band14\_5M\_TM1  
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1586.6800	54.37	-48.29	25.19	-63.98	-40.00	23.98	Horizontal
2	2380	59.66	-47.46	26.96	-56.10	-13.00	43.10	Horizontal
3	3173.3600	43.32	-46.41	28.40	-69.95	-13.00	56.95	Horizontal
4	3966.7000	43.35	-46.21	29.07	-69.05	-13.00	56.05	Horizontal
5	4760.0400	40.35	-45.70	30.87	-69.74	-13.00	56.74	Horizontal
6	5553.3800	39.28	-45.21	32.61	-68.58	-13.00	55.58	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1586.6800	53.85	-48.29	25.19	-64.50	-40.00	24.50	Vertical
2	2380	55.32	-47.46	26.96	-60.44	-13.00	47.44	Vertical
3	3173.3600	43.88	-46.41	28.40	-69.39	-13.00	56.39	Vertical
4	3966.7000	43.87	-46.21	29.07	-68.53	-13.00	55.53	Vertical
5	4760.0400	42.05	-45.70	30.87	-68.04	-13.00	55.04	Vertical
6	5553.3800	39.97	-45.21	32.61	-67.89	-13.00	54.89	Vertical



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Test Band = LTE Band26\_90S\_TM1  
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1629.1800	43.55	-48.24	25.24	-74.71	-13.00	61.71	Horizontal
2	2443.7700	42.00	-47.37	27.14	-73.49	-13.00	60.49	Horizontal
3	3258.3600	41.76	-46.52	28.46	-71.56	-13.00	58.56	Horizontal
4	4072.9500	40.44	-45.98	29.28	-71.53	-13.00	58.53	Horizontal
5	4887.5400	41.30	-45.59	31.15	-68.39	-13.00	55.39	Horizontal
6	5702.1300	38.94	-44.57	32.64	-68.25	-13.00	55.25	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1629.1800	43.59	-48.24	25.24	-74.67	-13.00	61.67	Vertical
2	2443.7700	42.41	-47.37	27.14	-73.08	-13.00	60.08	Vertical
3	3258.3600	42.26	-46.52	28.46	-71.06	-13.00	58.06	Vertical
4	4072.9500	40.82	-45.98	29.28	-71.15	-13.00	58.15	Vertical
5	4887.5400	41.61	-45.59	31.15	-68.08	-13.00	55.08	Vertical
6	5702.1300	39.56	-44.57	32.64	-67.63	-13.00	54.63	Vertical



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Test Band = LTE Band26\_22H\_TM1  
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.6800	43.13	-48.22	25.27	-75.08	-13.00	62.08	Horizontal
2	2474.5200	42.54	-47.32	27.23	-72.81	-13.00	59.81	Horizontal
3	3299.3600	42.31	-46.68	28.48	-71.15	-13.00	58.15	Horizontal
4	4124.2000	40.95	-45.91	29.40	-70.83	-13.00	57.83	Horizontal
5	4949.0400	40.90	-45.69	31.29	-68.76	-13.00	55.76	Horizontal
6	5773.8800	39.01	-44.64	32.65	-68.23	-13.00	55.23	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.6800	42.73	-48.22	25.27	-75.48	-13.00	62.48	Vertical
2	2474.5200	42.64	-47.32	27.23	-72.71	-13.00	59.71	Vertical
3	3299.3600	41.87	-46.68	28.48	-71.59	-13.00	58.59	Vertical
4	4124.2000	40.82	-45.91	29.40	-70.96	-13.00	57.96	Vertical
5	4949.0400	40.90	-45.69	31.29	-68.76	-13.00	55.76	Vertical
6	5773.8800	39.18	-44.64	32.65	-68.06	-13.00	55.06	Vertical



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Test Band = LTE Band26\_22H\_TM1  
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1659.6800	42.89	-48.21	25.29	-75.29	-13.00	62.29	Horizontal
2	2489.5200	42.14	-47.29	27.27	-73.14	-13.00	60.14	Horizontal
3	3319.3600	42.47	-46.65	28.49	-70.95	-13.00	57.95	Horizontal
4	4149.2000	40.96	-45.93	29.46	-70.77	-13.00	57.77	Horizontal
5	4979.0400	40.18	-45.76	31.35	-69.49	-13.00	56.49	Horizontal
6	5805.8800	39.17	-44.68	32.66	-68.11	-13.00	55.11	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1659.6800	42.97	-48.21	25.29	-75.21	-13.00	62.21	Vertical
2	2489.5200	41.95	-47.29	27.27	-73.33	-13.00	60.33	Vertical
3	3319.3600	42.03	-46.65	28.49	-71.39	-13.00	58.39	Vertical
4	4149.2000	40.84	-45.93	29.46	-70.89	-13.00	57.89	Vertical
5	4979.0400	40.61	-45.76	31.35	-69.06	-13.00	56.06	Vertical
6	5805.8800	38.57	-44.68	32.66	-68.71	-13.00	55.71	Vertical



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Test Band = LTE Band26\_22H\_TM1  
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1669.6800	43.58	-48.20	25.30	-74.57	-13.00	61.57	Horizontal
2	2504.5200	42.76	-47.25	27.31	-72.45	-13.00	59.45	Horizontal
3	3339.3600	42.40	-46.62	28.50	-70.98	-13.00	57.98	Horizontal
4	4174.2000	41.15	-45.94	29.52	-70.54	-13.00	57.54	Horizontal
5	5009.0400	40.47	-45.77	31.42	-69.14	-13.00	56.14	Horizontal
6	5843.8800	39.30	-44.80	32.67	-68.09	-13.00	55.09	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1669.6800	42.90	-48.20	25.30	-75.25	-13.00	62.25	Vertical
2	2504.5200	42.61	-47.25	27.31	-72.60	-13.00	59.60	Vertical
3	3339.3600	42.30	-46.62	28.50	-71.08	-13.00	58.08	Vertical
4	4174.2000	40.77	-45.94	29.52	-70.92	-13.00	57.92	Vertical
5	5009.0400	40.27	-45.77	31.42	-69.34	-13.00	56.34	Vertical
6	5843.8800	40.12	-44.80	32.67	-67.27	-13.00	54.27	Vertical



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Test Band = LTE Band38\_ TM1  
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5142.1800	41.70	-45.33	31.74	-67.15	-25.00	42.15	Horizontal
2	7713.2700	38.65	-43.01	36.69	-62.94	-25.00	37.94	Horizontal
3	10284.3600	34.38	-39.15	38.34	-61.69	-25.00	36.69	Horizontal
4	12855.4500	30.42	-36.99	39.06	-62.77	-25.00	37.77	Horizontal
5	15426.5400	29.13	-34.00	40.40	-59.72	-25.00	34.72	Horizontal
6	17997.6300	31.55	-34.58	46.79	-51.50	-25.00	26.50	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5142.1800	40.66	-45.33	31.74	-68.19	-25.00	43.19	Vertical
2	7713.2700	39.78	-43.01	36.69	-61.81	-25.00	36.81	Vertical
3	10284.3600	34.11	-39.15	38.34	-61.96	-25.00	36.96	Vertical
4	12855.4500	30.91	-36.99	39.06	-62.28	-25.00	37.28	Vertical
5	15426.5400	29.34	-34.00	40.40	-59.51	-25.00	34.51	Vertical
6	17997.6300	30.96	-34.58	46.79	-52.09	-25.00	27.09	Vertical



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Test Band = LTE Band38\_ TM1  
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3967	43.51	-46.12	29.07	-68.80	-25.00	43.80	Horizontal
2	5172.1800	40.68	-45.30	31.81	-68.07	-25.00	43.07	Horizontal
3	7758.2700	38.67	-42.65	36.70	-62.53	-25.00	37.53	Horizontal
4	10344.3600	33.72	-39.05	38.37	-62.22	-25.00	37.22	Horizontal
5	12930.4500	31.33	-37.18	39.08	-62.03	-25.00	37.03	Horizontal
6	15516.5400	28.87	-35.30	40.21	-61.48	-25.00	36.48	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3506	44.15	-46.25	28.61	-68.76	-25.00	43.76	Vertical
2	5172.1800	40.28	-45.30	31.81	-68.47	-25.00	43.47	Vertical
3	7758.2700	38.76	-42.65	36.70	-62.44	-25.00	37.44	Vertical
4	10344.3600	32.92	-39.05	38.37	-63.02	-25.00	38.02	Vertical
5	12930.4500	31.85	-37.18	39.08	-61.51	-25.00	36.51	Vertical
6	15516.5400	29.35	-35.30	40.21	-61.00	-25.00	36.00	Vertical



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**Test Band = LTE Band38\_ TM1**  
**Test Channel = High**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4276.5	42.77	-45.59	29.76	-68.32	-25.00	43.32	Horizontal
2	5202.1800	40.00	-45.28	31.89	-68.65	-25.00	43.65	Horizontal
3	7803.2700	38.70	-42.33	36.72	-62.17	-25.00	37.17	Horizontal
4	10404.3600	33.56	-39.00	38.40	-62.30	-25.00	37.30	Horizontal
5	13005.4500	31.14	-37.31	39.11	-62.32	-25.00	37.32	Horizontal
6	15606.5400	29.03	-34.87	40.03	-61.08	-25.00	36.08	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4080.5	42.93	-45.81	29.29	-68.85	-25.00	43.85	Vertical
2	5202.1800	40.32	-45.28	31.89	-68.33	-25.00	43.33	Vertical
3	7803.2700	38.78	-42.33	36.72	-62.09	-25.00	37.09	Vertical
4	10404.3600	33.40	-39.00	38.40	-62.46	-25.00	37.46	Vertical
5	13005.4500	30.48	-37.31	39.11	-62.98	-25.00	37.98	Vertical
6	15606.5400	29.05	-34.87	40.03	-61.06	-25.00	36.06	Vertical



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**Test Band = LTE Band41\_ TM1**  
**Test Channel = Low**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4994.1800	41.82	-45.63	31.39	-67.69	-25.00	42.69	Horizontal
2	7491.2700	41.24	-43.16	36.58	-60.61	-25.00	35.61	Horizontal
3	9988.3600	35.35	-39.25	38.18	-60.98	-25.00	35.98	Horizontal
4	12485.4500	31.17	-37.04	38.95	-62.18	-25.00	37.18	Horizontal
5	14982.5400	24.92	-34.64	41.29	-63.69	-25.00	38.69	Horizontal
6	17479.6300	29.42	-35.10	44.46	-56.48	-25.00	31.48	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4994.1800	41.47	-45.63	31.39	-68.04	-25.00	43.04	Vertical
2	7491.2700	47.86	-43.16	36.58	-53.99	-25.00	28.99	Vertical
3	9988.3600	35.09	-39.25	38.18	-61.24	-25.00	36.24	Vertical
4	12485.4500	30.56	-37.04	38.95	-62.79	-25.00	37.79	Vertical
5	14982.5400	25.21	-34.64	41.29	-63.40	-25.00	38.40	Vertical
6	17479.6300	30.34	-35.10	44.46	-55.56	-25.00	30.56	Vertical



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Test Band = LTE Band41\_ TM1  
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3966	43.80	-46.12	29.07	-68.52	-25.00	43.52	Horizontal
2	5168.1800	40.82	-45.31	31.80	-67.94	-25.00	42.94	Horizontal
3	7752.2700	39.27	-42.69	36.70	-61.98	-25.00	36.98	Horizontal
4	10336.3600	33.72	-39.06	38.37	-62.23	-25.00	37.23	Horizontal
5	12920.4500	31.96	-37.16	39.08	-61.38	-25.00	36.38	Horizontal
6	15504.5400	30.03	-35.35	40.24	-60.34	-25.00	35.34	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4020.5	42.89	-45.98	29.15	-69.20	-25.00	44.20	Vertical
2	5168.1800	40.65	-45.31	31.80	-68.11	-25.00	43.11	Vertical
3	7752.2700	39.31	-42.69	36.70	-61.94	-25.00	36.94	Vertical
4	10336.3600	33.81	-39.06	38.37	-62.14	-25.00	37.14	Vertical
5	12920.4500	31.62	-37.16	39.08	-61.72	-25.00	36.72	Vertical
6	15504.5400	29.21	-35.35	40.24	-61.16	-25.00	36.16	Vertical



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Test Band = LTE Band41\_ TM1  
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4439	43.19	-45.78	30.15	-67.69	-25.00	42.69	Horizontal
2	5255.1800	40.87	-45.17	32.01	-67.55	-25.00	42.55	Horizontal
3	7882.7700	38.80	-42.73	36.75	-62.44	-25.00	37.44	Horizontal
4	10510.3600	33.68	-38.77	38.46	-61.89	-25.00	36.89	Horizontal
5	13137.9500	30.74	-37.08	39.35	-62.25	-25.00	37.25	Horizontal
6	15765.5400	28.39	-33.24	39.69	-60.42	-25.00	35.42	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3948	43.48	-46.16	29.05	-68.90	-25.00	43.90	Vertical
2	5255.1800	40.92	-45.17	32.01	-67.50	-25.00	42.50	Vertical
3	7882.7700	38.03	-42.73	36.75	-63.21	-25.00	38.21	Vertical
4	10510.3600	34.09	-38.77	38.46	-61.48	-25.00	36.48	Vertical
5	13137.9500	30.94	-37.08	39.35	-62.05	-25.00	37.05	Vertical
6	15765.5400	28.58	-33.24	39.69	-60.23	-25.00	35.23	Vertical



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Test Band = LTE Band30\_10M\_TM1  
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4611.1800	49.47	-45.66	30.55	-60.91	-40.00	20.91	Horizontal
2	6916.7700	48.14	-44.01	35.05	-56.08	-40.00	16.08	Horizontal
3	9222.3600	36.03	-40.24	36.72	-62.75	-40.00	22.75	Horizontal
4	11527.9500	30.58	-37.20	38.75	-63.12	-40.00	23.12	Horizontal
5	13833.5400	30.07	-36.08	40.60	-60.67	-40.00	20.67	Horizontal
6	16139.1300	29.95	-34.58	39.63	-60.26	-40.00	20.26	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4611	53.55	-45.66	30.54	-56.83	-40.00	16.83	Vertical
2	6916.7700	55.09	-44.01	35.05	-49.13	-40.00	9.13	Vertical
3	9222.3600	35.32	-40.24	36.72	-63.46	-40.00	23.46	Vertical
4	11527.9500	31.13	-37.20	38.75	-62.57	-40.00	22.57	Vertical
5	13833.5400	29.88	-36.08	40.60	-60.86	-40.00	20.86	Vertical
6	16139.1300	29.93	-34.58	39.63	-60.28	-40.00	20.28	Vertical



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Test Band = LTE Band30\_5M\_TM1  
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4610.6800	48.29	-45.66	30.54	-62.09	-40.00	22.09	Horizontal
2	6916	49.19	-44.01	35.05	-55.03	-40.00	15.03	Horizontal
3	9221.3600	35.49	-40.24	36.72	-63.29	-40.00	23.29	Horizontal
4	11526.7000	31.05	-37.20	38.75	-62.66	-40.00	22.66	Horizontal
5	13832.0400	29.86	-36.09	40.60	-60.89	-40.00	20.89	Horizontal
6	16137.3800	29.64	-34.58	39.63	-60.57	-40.00	20.57	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4610.5	50.21	-45.66	30.54	-60.17	-40.00	20.17	Vertical
2	6916	53.40	-44.01	35.05	-50.82	-40.00	10.82	Vertical
3	9221.3600	35.55	-40.24	36.72	-63.23	-40.00	23.23	Vertical
4	11526.7000	30.29	-37.20	38.75	-63.42	-40.00	23.42	Vertical
5	13832.0400	30.24	-36.09	40.60	-60.51	-40.00	20.51	Vertical
6	16137.3800	29.44	-34.58	39.63	-60.77	-40.00	20.77	Vertical



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Test Band = LTE Band30\_5M\_TM1  
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4615.5	48.25	-45.66	30.55	-62.12	-40.00	22.12	Horizontal
2	6923.5	49.83	-43.97	35.06	-54.34	-40.00	14.34	Horizontal
3	9231.3600	34.87	-40.24	36.74	-63.89	-40.00	23.89	Horizontal
4	11539.2000	30.06	-37.15	38.75	-63.59	-40.00	23.59	Horizontal
5	13847.0400	29.97	-35.95	40.63	-60.61	-40.00	20.61	Horizontal
6	16154.8800	29.53	-34.60	39.68	-60.64	-40.00	20.64	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4615.5	49.57	-45.66	30.55	-60.80	-40.00	20.80	Vertical
2	6923.5	54.84	-43.97	35.06	-49.33	-40.00	9.33	Vertical
3	9231.3600	34.74	-40.24	36.74	-64.02	-40.00	24.02	Vertical
4	11539.2000	30.50	-37.15	38.75	-63.15	-40.00	23.15	Vertical
5	13847.0400	30.70	-35.95	40.63	-59.88	-40.00	19.88	Vertical
6	16154.8800	29.54	-34.60	39.68	-60.63	-40.00	20.63	Vertical



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Test Band = LTE Band30\_5M\_TM1  
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4620.6800	44.71	-45.66	30.57	-65.64	-40.00	25.64	Horizontal
2	6931	49.09	-43.93	35.08	-55.02	-40.00	15.02	Horizontal
3	9241.3200	35.25	-40.24	36.76	-63.49	-40.00	23.49	Horizontal
4	11551.7000	30.29	-37.10	38.76	-63.31	-40.00	23.31	Horizontal
5	13862.0400	30.95	-35.81	40.65	-59.46	-40.00	19.46	Horizontal
6	16172.3800	28.98	-34.61	39.73	-61.16	-40.00	21.16	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4620.6800	47.67	-45.66	30.57	-62.68	-40.00	22.68	Vertical
2	6931	52.50	-43.93	35.08	-51.61	-40.00	11.61	Vertical
3	9241.3200	35.67	-40.24	36.76	-63.07	-40.00	23.07	Vertical
4	11551.7000	29.88	-37.10	38.76	-63.72	-40.00	23.72	Vertical
5	13862.0400	31.47	-35.81	40.65	-58.94	-40.00	18.94	Vertical
6	16172.3800	28.97	-34.61	39.73	-61.17	-40.00	21.17	Vertical



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**Test Band = LTE Band48\_ TM1**  
**Test Channel = Low**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7102.1800	39.20	-43.66	35.49	-64.23	-40.00	24.23	Horizontal
2	8884.525	38.44	-40.95	36.36	-61.41	-40.00	21.41	Horizontal
3	10653.2700	32.54	-37.73	38.53	-61.92	-40.00	21.92	Horizontal
4	14204.3600	27.90	-35.33	40.98	-61.71	-40.00	21.71	Horizontal
5	14518.375	29.10	-34.44	41.11	-59.49	-40.00	19.49	Horizontal
6	17755.4500	30.81	-33.78	45.70	-52.52	-40.00	12.52	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7511.425	48.93	-43.12	36.60	-52.85	-40.00	12.85	Vertical
2	8651.65	38.55	-41.12	36.47	-61.36	-40.00	21.36	Vertical
3	10062.7	34.81	-38.95	38.23	-61.17	-40.00	21.17	Vertical
4	10655.525	33.89	-37.72	38.53	-60.56	-40.00	20.56	Vertical
5	12225.275	32.18	-36.99	38.87	-61.20	-40.00	21.20	Vertical
6	15396.975	29.19	-34.06	40.47	-59.66	-40.00	19.66	Vertical



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Test Band = LTE Band48\_ TM1  
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7511.425	41.73	-43.12	36.60	-60.05	-40.00	20.05	Horizontal
2	9422.725	36.42	-39.93	37.10	-61.67	-40.00	21.67	Horizontal
3	10644.025	33.93	-37.78	38.52	-60.59	-40.00	20.59	Horizontal
4	12110.275	30.94	-37.18	38.83	-62.67	-40.00	22.67	Horizontal
5	13685.775	31.42	-36.00	40.33	-59.50	-40.00	19.50	Horizontal
6	15384.325	28.92	-34.04	40.49	-59.89	-40.00	19.89	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7687.95	40.07	-42.92	36.68	-61.44	-40.00	21.44	Vertical
2	9425.025	36.47	-39.93	37.11	-61.61	-40.00	21.61	Vertical
3	11145.425	32.59	-37.23	38.71	-61.18	-40.00	21.18	Vertical
4	12792.8	31.38	-36.64	39.04	-61.48	-40.00	21.48	Vertical
5	14453.4	29.23	-34.63	41.08	-59.57	-40.00	19.57	Vertical
6	15383.75	29.00	-34.04	40.49	-59.80	-40.00	19.80	Vertical



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Test Band = LTE Band48\_ TM1  
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7744.875	39.77	-42.78	36.70	-61.58	-40.00	21.58	Horizontal
2	8845.425	38.06	-41.04	36.38	-61.86	-40.00	21.86	Horizontal
3	10357.1	34.36	-38.83	38.38	-61.35	-40.00	21.35	Horizontal
4	11512.85	30.98	-36.57	38.75	-62.10	-40.00	22.10	Horizontal
5	12691.6	31.07	-36.86	39.01	-62.04	-40.00	22.04	Horizontal
6	14810.475	28.71	-35.01	41.22	-60.34	-40.00	20.34	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7800.65	39.82	-42.58	36.72	-61.30	-40.00	21.30	Vertical
2	9291.05	36.66	-40.06	36.85	-61.81	-40.00	21.81	Vertical
3	10765.925	33.24	-38.14	38.58	-61.57	-40.00	21.57	Vertical
4	12315.55	31.29	-36.69	38.89	-61.77	-40.00	21.77	Vertical
5	13938.2	29.92	-35.27	40.79	-59.82	-40.00	19.82	Vertical
6	14842.1	27.36	-35.05	41.24	-61.72	-40.00	21.72	Vertical



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Test Band = LTE Band12\_ TM1  
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1399.1800	43.88	-48.00	25.10	-74.28	-13.00	61.28	Horizontal
2	2098.7700	43.32	-47.71	26.18	-73.48	-13.00	60.48	Horizontal
3	2798.3600	42.70	-46.92	27.90	-71.58	-13.00	58.58	Horizontal
4	3497.9500	42.27	-46.54	28.60	-70.93	-13.00	57.93	Horizontal
5	4197.5400	40.74	-45.96	29.57	-70.90	-13.00	57.90	Horizontal
6	4897.1300	41.46	-45.58	31.17	-68.21	-13.00	55.21	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1399.1800	44.15	-48.00	25.10	-74.01	-13.00	61.01	Vertical
2	2098.7700	43.01	-47.71	26.18	-73.79	-13.00	60.79	Vertical
3	2798.3600	42.11	-46.92	27.90	-72.17	-13.00	59.17	Vertical
4	3497.9500	42.10	-46.54	28.60	-71.10	-13.00	58.10	Vertical
5	4197.5400	40.09	-45.96	29.57	-71.55	-13.00	58.55	Vertical
6	4897.1300	40.99	-45.58	31.17	-68.68	-13.00	55.68	Vertical



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**Test Band = LTE Band12\_ TM1**  
**Test Channel = Mid**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406.1800	45.37	-48.02	25.10	-72.81	-13.00	59.81	Horizontal
2	2109.1429	45.64	-47.71	26.21	-71.12	-13.00	58.12	Horizontal
3	2812.3600	41.95	-46.88	27.93	-72.26	-13.00	59.26	Horizontal
4	3515.4500	41.79	-46.51	28.62	-71.36	-13.00	58.36	Horizontal
5	4218.5400	40.47	-45.93	29.63	-71.09	-13.00	58.09	Horizontal
6	4921.6300	40.97	-45.63	31.23	-68.69	-13.00	55.69	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406.1800	44.50	-48.02	25.10	-73.68	-13.00	60.68	Vertical
2	2109.2700	42.62	-47.71	26.21	-74.14	-13.00	61.14	Vertical
3	2812.3600	42.67	-46.88	27.93	-71.54	-13.00	58.54	Vertical
4	3515.4500	43.21	-46.51	28.62	-69.94	-13.00	56.94	Vertical
5	4218.5400	40.71	-45.93	29.63	-70.85	-13.00	57.85	Vertical
6	4921.6300	41.48	-45.63	31.23	-68.18	-13.00	55.18	Vertical



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Test Band = LTE Band12\_ TM1  
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.1800	43.66	-48.04	25.11	-74.54	-13.00	61.54	Horizontal
2	2119.7700	42.52	-47.70	26.24	-74.21	-13.00	61.21	Horizontal
3	2826.3600	42.56	-46.83	27.95	-71.57	-13.00	58.57	Horizontal
4	3532.9500	41.67	-46.47	28.63	-71.43	-13.00	58.43	Horizontal
5	4239.5400	40.66	-45.89	29.68	-70.81	-13.00	57.81	Horizontal
6	4946.1300	41.11	-45.69	31.28	-68.55	-13.00	55.55	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.1800	43.46	-48.04	25.11	-74.74	-13.00	61.74	Vertical
2	2119.7700	42.31	-47.70	26.24	-74.42	-13.00	61.42	Vertical
3	2826.3600	42.43	-46.83	27.95	-71.70	-13.00	58.70	Vertical
4	3532.9500	41.78	-46.47	28.63	-71.32	-13.00	58.32	Vertical
5	4239.5400	40.78	-45.89	29.68	-70.69	-13.00	57.69	Vertical
6	4946.1300	40.89	-45.69	31.28	-68.77	-13.00	55.77	Vertical



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中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com



Test Band = LTE Band17\_ TM1  
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411.4286	47.10	-48.04	25.11	-71.09	-13.00	58.09	Horizontal
2	2117.1429	49.53	-47.70	26.23	-67.21	-13.00	54.21	Horizontal
3	2818.3600	42.43	-46.85	27.94	-71.75	-13.00	58.75	Horizontal
4	3522.9500	41.71	-46.49	28.62	-71.42	-13.00	58.42	Horizontal
5	4227.5400	40.10	-45.91	29.65	-71.42	-13.00	58.42	Horizontal
6	4932.1300	41.19	-45.65	31.25	-68.47	-13.00	55.47	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409.1800	44.29	-48.03	25.10	-73.90	-13.00	60.90	Vertical
2	2113.7700	42.60	-47.71	26.22	-74.15	-13.00	61.15	Vertical
3	2818.3600	42.15	-46.85	27.94	-72.03	-13.00	59.03	Vertical
4	3522.9500	41.64	-46.49	28.62	-71.49	-13.00	58.49	Vertical
5	4227.5400	40.73	-45.91	29.65	-70.79	-13.00	57.79	Vertical
6	4932.1300	40.97	-45.65	31.25	-68.69	-13.00	55.69	Vertical



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Test Band = LTE Band17\_ TM1  
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411.1800	46.91	-48.04	25.11	-71.28	-13.00	58.28	Horizontal
2	2116.5714	51.43	-47.71	26.23	-65.31	-13.00	52.31	Horizontal
3	2822.3600	42.76	-46.84	27.95	-71.39	-13.00	58.39	Horizontal
4	3527.9500	41.75	-46.48	28.63	-71.37	-13.00	58.37	Horizontal
5	4233.5400	40.78	-45.90	29.66	-70.72	-13.00	57.72	Horizontal
6	4939.1300	41.36	-45.67	31.27	-68.30	-13.00	55.30	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411.1800	44.48	-48.04	25.11	-73.71	-13.00	60.71	Vertical
2	2116.7700	43.01	-47.70	26.23	-73.73	-13.00	60.73	Vertical
3	2822.3600	43.24	-46.84	27.95	-70.91	-13.00	57.91	Vertical
4	3527.9500	42.47	-46.48	28.63	-70.65	-13.00	57.65	Vertical
5	4233.5400	40.33	-45.90	29.66	-71.17	-13.00	58.17	Vertical
6	4939.1300	41.22	-45.67	31.27	-68.44	-13.00	55.44	Vertical



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Test Band = LTE Band17\_ TM1  
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1410.8571	47.24	-48.03	25.11	-70.95	-13.00	57.95	Horizontal
2	2116.5714	51.05	-47.71	26.23	-65.69	-13.00	52.69	Horizontal
3	2826.3600	42.68	-46.83	27.95	-71.45	-13.00	58.45	Horizontal
4	3532.9500	41.81	-46.47	28.63	-71.29	-13.00	58.29	Horizontal
5	4239.5400	40.69	-45.89	29.68	-70.78	-13.00	57.78	Horizontal
6	4946.1300	41.03	-45.69	31.28	-68.63	-13.00	55.63	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.1800	44.38	-48.04	25.11	-73.82	-13.00	60.82	Vertical
2	2119.7700	42.54	-47.70	26.24	-74.19	-13.00	61.19	Vertical
3	2826.3600	42.36	-46.83	27.95	-71.77	-13.00	58.77	Vertical
4	3532.9500	41.77	-46.47	28.63	-71.33	-13.00	58.33	Vertical
5	4239.5400	40.70	-45.89	29.68	-70.77	-13.00	57.77	Vertical
6	4946.1300	41.41	-45.69	31.28	-68.25	-13.00	55.25	Vertical



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Test Band = LTE Band42\_TM1  
Test Channel = Low 3450-3550

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	6902.1800	40.25	-43.88	35.02	-63.86	-13.00	50.86	Horizontal
2	8323.9	39.87	-41.75	36.64	-60.50	-13.00	47.50	Horizontal
3	10353.2700	33.71	-38.84	38.38	-62.01	-13.00	49.01	Horizontal
4	12771.525	32.32	-36.68	39.03	-60.59	-13.00	47.59	Horizontal
5	13804.3600	31.51	-36.22	40.55	-59.42	-13.00	46.42	Horizontal
6	17255.4500	30.69	-35.06	43.45	-56.18	-13.00	43.18	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	6902.1800	39.53	-43.88	35.02	-64.58	-13.00	51.58	Vertical
2	8470.525	40.02	-41.67	36.56	-60.35	-13.00	47.35	Vertical
3	10353.2700	33.59	-38.84	38.38	-62.13	-13.00	49.13	Vertical
4	12375.35	32.95	-36.90	38.91	-60.30	-13.00	47.30	Vertical
5	13804.3600	31.44	-36.22	40.55	-59.49	-13.00	46.49	Vertical
6	17255.4500	31.05	-35.06	43.45	-55.82	-13.00	42.82	Vertical



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Test Band = LTE Band42\_TM1  
Test Channel = Mid 3450-3550

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	6982.1800	39.98	-43.15	35.17	-63.26	-13.00	50.26	Horizontal
2	8756.875	38.24	-41.23	36.42	-61.82	-13.00	48.82	Horizontal
3	10473.2700	33.85	-38.75	38.44	-61.72	-13.00	48.72	Horizontal
4	12807.75	33.42	-36.64	39.04	-59.44	-13.00	46.44	Horizontal
5	13964.3600	30.95	-35.06	40.84	-58.53	-13.00	45.53	Horizontal
6	17455.4500	30.47	-34.25	44.35	-54.69	-13.00	41.69	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	6982.1800	39.61	-43.15	35.17	-63.63	-13.00	50.63	Vertical
2	8383.125	39.53	-41.45	36.61	-60.58	-13.00	47.58	Vertical
3	10473.2700	34.08	-38.75	38.44	-61.49	-13.00	48.49	Vertical
4	12319.575	33.30	-36.71	38.90	-59.77	-13.00	46.77	Vertical
5	13964.3600	30.58	-35.06	40.84	-58.90	-13.00	45.90	Vertical
6	17455.4500	30.55	-34.25	44.35	-54.61	-13.00	41.61	Vertical



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Test Band = LTE Band42\_TM1  
 Test Channel = High 3450-3550

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7062.1800	39.74	-43.41	35.37	-63.55	-13.00	50.55	Horizontal
2	8409	39.66	-41.41	36.60	-60.41	-13.00	47.41	Horizontal
3	10593.2700	33.60	-38.06	38.50	-61.22	-13.00	48.22	Horizontal
4	12333.375	33.24	-36.76	38.90	-59.88	-13.00	46.88	Horizontal
5	14124.3600	29.82	-35.87	40.95	-60.36	-13.00	47.36	Horizontal
6	17655.4500	29.52	-33.40	45.25	-53.89	-13.00	40.89	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7062.1800	40.33	-43.41	35.37	-62.96	-13.00	49.96	Vertical
2	8470.525	39.99	-41.67	36.56	-60.38	-13.00	47.38	Vertical
3	10593.2700	33.34	-38.06	38.50	-61.48	-13.00	48.48	Vertical
4	12329.925	33.27	-36.74	38.90	-59.84	-13.00	46.84	Vertical
5	14124.3600	30.54	-35.87	40.95	-59.64	-13.00	46.64	Vertical
6	17655.4500	29.11	-33.40	45.25	-54.30	-13.00	41.30	Vertical



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Test Band = LTE Band43\_TM1  
Test Channel = Low 3700-3800

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8029.5	38.73	-41.90	36.79	-61.64	-13.00	48.64	Horizontal
2	9302.55	37.55	-40.07	36.87	-60.90	-13.00	47.90	Horizontal
3	10146.65	35.28	-38.97	38.27	-60.68	-13.00	47.68	Horizontal
4	11215	34.14	-36.69	38.72	-59.09	-13.00	46.09	Horizontal
5	14449.95	31.46	-34.66	41.08	-57.38	-13.00	44.38	Horizontal
6	15394.675	31.15	-34.05	40.47	-57.69	-13.00	44.69	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7678.175	40.06	-42.90	36.67	-61.43	-13.00	48.43	Vertical
2	8389.45	39.67	-41.42	36.61	-60.41	-13.00	47.41	Vertical
3	9649.85	36.25	-39.34	37.53	-60.81	-13.00	47.81	Vertical
4	10646.325	34.75	-37.77	38.52	-59.76	-13.00	46.76	Vertical
5	12500.125	33.79	-36.95	38.95	-59.47	-13.00	46.47	Vertical
6	13922.675	32.68	-35.39	40.76	-57.21	-13.00	44.21	Vertical



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Test Band = LTE Band43\_TM1  
Test Channel = Mid 3700-3800

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7436.1	40.73	-42.93	36.42	-61.04	-13.00	48.04	Horizontal
2	9426.75	37.46	-39.93	37.11	-60.62	-13.00	47.62	Horizontal
3	10630.225	35.16	-37.85	38.52	-59.44	-13.00	46.44	Horizontal
4	11501.35	32.85	-36.52	38.75	-60.18	-13.00	47.18	Horizontal
5	12659.4	33.80	-36.98	39.00	-59.44	-13.00	46.44	Horizontal
6	13925.55	32.46	-35.37	40.77	-57.40	-13.00	44.40	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7788	39.80	-42.62	36.72	-61.37	-13.00	48.37	Vertical
2	8762.05	38.99	-41.22	36.42	-61.07	-13.00	48.07	Vertical
3	9879.85	36.34	-39.17	37.97	-60.12	-13.00	47.12	Vertical
4	10718.775	34.33	-37.67	38.56	-60.04	-13.00	47.04	Vertical
5	12657.1	33.71	-36.99	39.00	-59.54	-13.00	46.54	Vertical
6	13462.1	33.46	-36.43	39.93	-58.30	-13.00	45.30	Vertical



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Test Band = LTE Band43\_TM1  
Test Channel = High 3700-3800

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8065.15	39.08	-41.62	36.77	-61.03	-13.00	48.03	Horizontal
2	9629.15	36.10	-39.28	37.50	-60.95	-13.00	47.95	Horizontal
3	11215.575	33.62	-36.70	38.72	-59.62	-13.00	46.62	Horizontal
4	12680.675	34.34	-36.90	39.00	-58.82	-13.00	45.82	Horizontal
5	14512.05	31.28	-34.36	41.10	-57.24	-13.00	44.24	Horizontal
6	15829.95	32.32	-33.38	39.56	-56.76	-13.00	43.76	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7798.35	40.22	-42.59	36.72	-60.91	-13.00	47.91	Vertical
2	9419.85	37.78	-39.93	37.10	-60.31	-13.00	47.31	Vertical
3	10680.25	34.57	-37.59	38.54	-59.74	-13.00	46.74	Vertical
4	11738.825	32.97	-36.52	38.77	-60.04	-13.00	47.04	Vertical
5	13929.575	32.53	-35.34	40.77	-57.29	-13.00	44.29	Vertical
6	14513.775	31.08	-34.38	41.11	-57.46	-13.00	44.46	Vertical



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Test Band = LTE Band42\_TM1  
Test Channel = Low 3550-3600

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7102.025	43.21	-43.66	35.49	-60.22	-40.00	20.22	Horizontal
2	8673.5	37.35	-41.22	36.46	-62.67	-40.00	22.67	Horizontal
3	10138.025	32.46	-38.92	38.27	-63.45	-40.00	23.45	Horizontal
4	11139.1	30.42	-37.30	38.71	-63.43	-40.00	23.43	Horizontal
5	12789.35	28.08	-36.64	39.04	-64.79	-40.00	24.79	Horizontal
6	13930.15	27.16	-35.33	40.77	-62.66	-40.00	22.66	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7102.025	47.41	-43.66	35.49	-56.02	-40.00	16.02	Vertical
2	8307.8	37.96	-41.83	36.65	-62.48	-40.00	22.48	Vertical
3	10062.7	32.54	-38.95	38.23	-63.44	-40.00	23.44	Vertical
4	10692.9	30.78	-37.53	38.55	-63.46	-40.00	23.46	Vertical
5	12312.675	27.98	-36.68	38.89	-65.07	-40.00	25.07	Vertical
6	13865.175	27.87	-35.81	40.66	-62.54	-40.00	22.54	Vertical



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Test Band = LTE Band42\_TM1  
Test Channel = Mid 3550-3600

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7131.925	43.08	-43.64	35.57	-60.25	-40.00	20.25	Horizontal
2	8604.5	36.93	-40.91	36.50	-62.74	-40.00	22.74	Horizontal
3	10017.85	32.84	-39.26	38.21	-63.47	-40.00	23.47	Horizontal
4	11503.075	28.92	-36.52	38.75	-64.11	-40.00	24.11	Horizontal
5	13475.325	26.95	-36.51	39.96	-64.86	-40.00	24.86	Horizontal
6	14668.45	25.46	-34.95	41.17	-63.58	-40.00	23.58	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7131.925	45.47	-43.64	35.57	-57.86	-40.00	17.86	Vertical
2	8473.4	37.65	-41.69	36.56	-62.73	-40.00	22.73	Vertical
3	9605	34.25	-39.21	37.45	-62.77	-40.00	22.77	Vertical
4	10663.575	30.88	-37.68	38.53	-63.53	-40.00	23.53	Vertical
5	12205.15	27.86	-37.09	38.86	-65.62	-40.00	25.62	Vertical
6	13604.125	27.93	-36.04	40.19	-63.18	-40.00	23.18	Vertical



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Test Band = LTE Band42\_TM1  
Test Channel = High 3550-3600

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7162.4	41.01	-43.63	35.65	-62.22	-40.00	22.22	Horizontal
2	8655.1	37.02	-41.14	36.47	-62.91	-40.00	22.91	Horizontal
3	9606.725	34.31	-39.22	37.45	-62.72	-40.00	22.72	Horizontal
4	11154.625	29.36	-37.12	38.72	-64.31	-40.00	24.31	Horizontal
5	12236.2	28.17	-36.94	38.87	-65.16	-40.00	25.16	Horizontal
6	13860.575	26.79	-35.84	40.65	-63.66	-40.00	23.66	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7162.4	46.15	-43.63	35.65	-57.08	-40.00	17.08	Vertical
2	9560.725	35.01	-39.50	37.37	-62.38	-40.00	22.38	Vertical
3	10368.6	31.37	-38.80	38.38	-64.30	-40.00	24.30	Vertical
4	12212.05	27.84	-37.05	38.86	-65.61	-40.00	25.61	Vertical
5	13337.9	26.87	-36.66	39.71	-65.34	-40.00	25.34	Vertical
6	15359.6	25.23	-34.00	40.54	-63.49	-40.00	23.49	Vertical



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Test Band = LTE Band43\_TM1  
Test Channel = Low 3600-3700

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7395.275	39.50	-42.82	36.31	-62.27	-40.00	22.27	Horizontal
2	8989.75	36.01	-40.87	36.31	-63.82	-40.00	23.82	Horizontal
3	10052.35	32.70	-39.02	38.23	-63.36	-40.00	23.36	Horizontal
4	11140.25	29.38	-37.29	38.71	-64.45	-40.00	24.45	Horizontal
5	12284.5	27.00	-36.71	38.89	-66.09	-40.00	26.09	Horizontal
6	13655.3	27.07	-36.01	40.28	-63.92	-40.00	23.92	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7202.075	45.54	-43.60	35.77	-57.56	-40.00	17.56	Vertical
2	10061.55	33.14	-38.96	38.23	-62.85	-40.00	22.85	Vertical
3	11244.9	29.00	-36.88	38.72	-64.42	-40.00	24.42	Vertical
4	12819.825	27.58	-36.67	39.05	-65.30	-40.00	25.30	Vertical
5	14325.75	25.70	-35.66	41.03	-64.19	-40.00	24.19	Vertical
6	15827.65	25.36	-33.36	39.56	-63.69	-40.00	23.69	Vertical



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Test Band = LTE Band43\_TM1  
Test Channel = Mid 3600-3700

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7398.15	39.61	-42.80	36.31	-62.14	-40.00	22.14	Horizontal
2	9689.525	33.14	-39.45	37.61	-63.96	-40.00	23.96	Horizontal
3	11158.075	28.57	-37.08	38.72	-65.06	-40.00	25.06	Horizontal
4	12177.55	27.26	-37.13	38.85	-66.27	-40.00	26.27	Horizontal
5	13755.925	26.84	-36.14	40.46	-64.09	-40.00	24.09	Horizontal
6	14521.25	24.83	-34.47	41.11	-63.79	-40.00	23.79	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7282	44.59	-43.38	35.99	-58.06	-40.00	18.06	Vertical
2	9475.05	34.49	-39.95	37.20	-63.52	-40.00	23.52	Vertical
3	10011.525	32.67	-39.30	38.21	-63.69	-40.00	23.69	Vertical
4	11441.55	28.22	-37.09	38.74	-65.39	-40.00	25.39	Vertical
5	13336.75	26.33	-36.67	39.71	-65.89	-40.00	25.89	Vertical
6	14669.025	24.86	-34.94	41.17	-64.18	-40.00	24.18	Vertical



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**Test Band = LTE Band43\_TM1**  
**Test Channel = High 3600-3700**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7392.4	39.95	-42.83	36.30	-61.84	-40.00	21.84	Horizontal
2	9690.1	32.42	-39.45	37.61	-64.68	-40.00	24.68	Horizontal
3	11139.675	29.10	-37.29	38.71	-64.74	-40.00	24.74	Horizontal
4	12653.075	27.38	-37.00	39.00	-65.89	-40.00	25.89	Horizontal
5	14489.05	24.73	-34.32	41.10	-63.76	-40.00	23.76	Horizontal
6	17572.2	26.63	-33.77	44.87	-57.52	-40.00	17.52	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7362.5	40.12	-42.99	36.22	-61.92	-40.00	21.92	Vertical
2	8416.475	38.27	-41.44	36.59	-61.84	-40.00	21.84	Vertical
3	9588.325	34.50	-39.29	37.42	-62.63	-40.00	22.63	Vertical
4	10640.575	30.13	-37.80	38.52	-64.41	-40.00	24.41	Vertical
5	11561.15	26.10	-36.80	38.76	-67.20	-40.00	27.20	Vertical
6	13736.375	26.71	-36.08	40.43	-64.21	-40.00	24.21	Vertical

**Remark:**

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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**For LTE CA**  
**Test Band = LTE Band2CA\_ TM1**  
**Test Channel = Low**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4394.25	40.85	-45.80	30.05	-70.17	-13.00	57.17	Horizontal
2	5899.5	40.46	-44.97	32.68	-67.09	-13.00	54.09	Horizontal
3	7224	38.57	-43.50	35.83	-64.36	-13.00	51.36	Horizontal
4	8415	37.61	-41.48	36.59	-62.53	-13.00	49.53	Horizontal
5	10018.5	33.10	-39.22	38.21	-63.17	-13.00	50.17	Horizontal
6	11505	29.86	-37.29	38.75	-63.94	-13.00	50.94	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4731.75	40.35	-45.58	30.81	-69.68	-13.00	56.68	Vertical
2	6336.75	39.14	-44.49	33.78	-66.83	-13.00	53.83	Vertical
3	6745.5	39.02	-43.97	34.74	-65.47	-13.00	52.47	Vertical
4	8411.25	36.84	-41.47	36.59	-63.29	-13.00	50.29	Vertical
5	10014	33.05	-39.22	38.21	-63.23	-13.00	50.23	Vertical
6	12303.75	30.01	-37.42	38.89	-63.77	-13.00	50.77	Vertical



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Test Band = LTE Band2CA\_ TM1  
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4434	40.77	-45.78	30.14	-70.13	-13.00	57.13	Horizontal
2	5455.5	39.80	-45.27	32.49	-68.23	-13.00	55.23	Horizontal
3	6560.25	39.57	-44.45	34.41	-65.73	-13.00	52.73	Horizontal
4	7773	37.90	-42.53	36.71	-63.18	-13.00	50.18	Horizontal
5	9882.75	33.30	-39.36	37.98	-63.34	-13.00	50.34	Horizontal
6	11392.5	30.26	-37.37	38.74	-63.63	-13.00	50.63	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4428	40.61	-45.79	30.13	-70.31	-13.00	57.31	Vertical
2	5502.75	39.42	-45.24	32.60	-68.47	-13.00	55.47	Vertical
3	6564.75	39.64	-44.44	34.42	-65.65	-13.00	52.65	Vertical
4	7820.25	37.35	-42.41	36.73	-63.60	-13.00	50.60	Vertical
5	9850.5	32.84	-39.40	37.92	-63.91	-13.00	50.91	Vertical
6	12099	29.75	-37.34	38.83	-64.02	-13.00	51.02	Vertical



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Test Band = LTE Band2CA\_ TM1  
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3973.5	41.09	-46.10	29.07	-71.20	-13.00	58.20	Horizontal
2	4926.75	40.88	-45.56	31.24	-68.70	-13.00	55.70	Horizontal
3	6609	39.16	-44.30	34.50	-65.91	-13.00	52.91	Horizontal
4	7785	37.62	-42.43	36.71	-63.36	-13.00	50.36	Horizontal
5	11847	30.19	-37.02	38.78	-63.30	-13.00	50.30	Horizontal
6	13368	29.64	-36.49	39.76	-62.35	-13.00	49.35	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4313.25	40.39	-45.58	29.85	-70.60	-13.00	57.60	Vertical
2	5486.25	39.80	-45.25	32.57	-68.14	-13.00	55.14	Vertical
3	7235.25	38.31	-43.54	35.86	-64.63	-13.00	51.63	Vertical
4	8214	36.98	-42.28	36.69	-63.86	-13.00	50.86	Vertical
5	10689.75	31.28	-37.94	38.54	-63.38	-13.00	50.38	Vertical
6	12178.5	30.09	-37.46	38.85	-63.77	-13.00	50.77	Vertical



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Test Band = LTE Band5B\_ TM1  
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.1800	42.92	-48.22	25.27	-75.29	-13.00	62.29	Horizontal
2	2473.7700	41.51	-47.32	27.23	-73.84	-13.00	60.84	Horizontal
3	3298.3600	40.99	-46.68	28.48	-72.47	-13.00	59.47	Horizontal
4	4122.9500	39.65	-45.91	29.40	-72.13	-13.00	59.13	Horizontal
5	4947.5400	41.10	-45.69	31.29	-68.56	-13.00	55.56	Horizontal
6	5772.1000	38.64	-44.64	32.65	-68.60	-13.00	55.60	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.1800	42.58	-48.22	25.27	-75.63	-13.00	62.63	Vertical
2	2473.7700	41.48	-47.32	27.23	-73.87	-13.00	60.87	Vertical
3	3298.3600	41.86	-46.68	28.48	-71.60	-13.00	58.60	Vertical
4	4122.9500	39.78	-45.91	29.40	-72.00	-13.00	59.00	Vertical
5	4947.5400	40.31	-45.69	31.29	-69.35	-13.00	56.35	Vertical
6	5772.1000	38.19	-44.64	32.65	-69.05	-13.00	56.05	Vertical



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Test Band = LTE Band5B\_ TM1  
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1654.3600	42.47	-48.21	25.28	-75.72	-13.00	62.72	Horizontal
2	2481.5700	40.96	-47.30	27.25	-74.35	-13.00	61.35	Horizontal
3	3308.7600	40.67	-46.67	28.49	-72.77	-13.00	59.77	Horizontal
4	4135.9500	39.52	-45.92	29.43	-72.24	-13.00	59.24	Horizontal
5	4963.1400	39.94	-45.73	31.32	-69.73	-13.00	56.73	Horizontal
6	5790.3300	38.07	-44.65	32.66	-69.18	-13.00	56.18	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1654.3600	42.63	-48.21	25.28	-75.56	-13.00	62.56	Vertical
2	2481.5700	42.03	-47.30	27.25	-73.28	-13.00	60.28	Vertical
3	3308.7600	41.05	-46.67	28.49	-72.39	-13.00	59.39	Vertical
4	4135.9500	40.00	-45.92	29.43	-71.76	-13.00	58.76	Vertical
5	4963.1400	40.88	-45.73	31.32	-68.79	-13.00	55.79	Vertical
6	5790.3300	38.27	-44.65	32.66	-68.98	-13.00	55.98	Vertical



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Test Band = LTE Band5B\_ TM1  
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1749.3800	43.17	-48.06	25.42	-74.72	-13.00	61.72	Horizontal
2	2624.0700	41.66	-46.96	27.55	-73.01	-13.00	60.01	Horizontal
3	3498.7600	40.83	-46.54	28.60	-72.37	-13.00	59.37	Horizontal
4	4373.4500	40.16	-45.86	30.00	-70.96	-13.00	57.96	Horizontal
5	5248.1400	39.46	-45.14	32.00	-68.94	-13.00	55.94	Horizontal
6	6122.8300	37.70	-44.74	33.09	-69.20	-13.00	56.20	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1749.3800	42.84	-48.06	25.42	-75.05	-13.00	62.05	Vertical
2	2624.0700	41.79	-46.96	27.55	-72.88	-13.00	59.88	Vertical
3	3498.7600	41.24	-46.54	28.60	-71.96	-13.00	58.96	Vertical
4	4373.4500	39.87	-45.86	30.00	-71.25	-13.00	58.25	Vertical
5	5248.1400	39.18	-45.14	32.00	-69.22	-13.00	56.22	Vertical
6	6122.8300	37.90	-44.74	33.09	-69.00	-13.00	56.00	Vertical



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Test Band = LTE Band7C\_ TM1  
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5002.1800	39.94	-45.63	31.41	-69.55	-25.00	44.55	Horizontal
2	7503.2700	37.02	-43.13	36.60	-64.77	-25.00	39.77	Horizontal
3	10004.3600	32.70	-39.23	38.20	-63.59	-25.00	38.59	Horizontal
4	12505.4500	28.45	-36.99	38.95	-64.85	-25.00	39.85	Horizontal
5	15006.5400	22.08	-34.65	41.29	-66.55	-25.00	41.55	Horizontal
6	17507.6300	29.95	-34.95	44.59	-55.67	-25.00	30.67	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5002.1800	40.67	-45.63	31.41	-68.82	-25.00	43.82	Vertical
2	7503.2700	38.24	-43.13	36.60	-63.55	-25.00	38.55	Vertical
3	10004.3600	32.26	-39.23	38.20	-64.03	-25.00	39.03	Vertical
4	12505.4500	29.00	-36.99	38.95	-64.30	-25.00	39.30	Vertical
5	15006.5400	23.47	-34.65	41.29	-65.16	-25.00	40.16	Vertical
6	17507.6300	29.13	-34.95	44.59	-56.49	-25.00	31.49	Vertical



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Test Band = LTE Band7C\_ TM1  
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5032.3800	38.61	-45.55	31.48	-70.72	-25.00	45.72	Horizontal
2	7548.2700	36.52	-43.04	36.62	-65.16	-25.00	40.16	Horizontal
3	10064.7600	32.83	-39.16	38.23	-63.36	-25.00	38.36	Horizontal
4	12580.9500	28.69	-37.49	38.97	-65.09	-25.00	40.09	Horizontal
5	15097.1400	24.38	-34.94	41.10	-64.73	-25.00	39.73	Horizontal
6	17613.3300	29.45	-33.34	45.06	-54.09	-25.00	29.09	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5032.3800	39.93	-45.55	31.48	-69.40	-25.00	44.40	Vertical
2	7548.2700	37.90	-43.04	36.62	-63.78	-25.00	38.78	Vertical
3	10064.7600	32.67	-39.16	38.23	-63.52	-25.00	38.52	Vertical
4	12580.9500	28.51	-37.49	38.97	-65.27	-25.00	40.27	Vertical
5	15097.1400	24.04	-34.94	41.10	-65.07	-25.00	40.07	Vertical
6	17613.3300	29.23	-33.34	45.06	-54.31	-25.00	29.31	Vertical



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Test Band = LTE Band7C\_ TM1  
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5062.5800	39.98	-45.47	31.55	-69.20	-25.00	44.20	Horizontal
2	7593.8700	37.02	-42.94	36.64	-64.55	-25.00	39.55	Horizontal
3	10125.1600	32.35	-39.22	38.26	-63.86	-25.00	38.86	Horizontal
4	12656.4500	29.53	-37.09	39.00	-63.82	-25.00	38.82	Horizontal
5	15187.7400	25.64	-34.04	40.91	-62.76	-25.00	37.76	Horizontal
6	17719.0300	30.01	-34.15	45.54	-53.86	-25.00	28.86	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5062.5800	39.81	-45.47	31.55	-69.37	-25.00	44.37	Vertical
2	7593.8700	37.78	-42.94	36.64	-63.79	-25.00	38.79	Vertical
3	10125.1600	32.52	-39.22	38.26	-63.69	-25.00	38.69	Vertical
4	12656.4500	29.64	-37.09	39.00	-63.71	-25.00	38.71	Vertical
5	15187.7400	25.93	-34.04	40.91	-62.47	-25.00	37.47	Vertical
6	17719.0300	30.70	-34.15	45.54	-53.17	-25.00	28.17	Vertical



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**Test Band = LTE Band38C\_ TM1**  
**Test Channel = Low**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5142.1800	39.61	-45.33	31.74	-69.24	-25.00	44.24	Horizontal
2	7713.2700	36.93	-43.01	36.69	-64.66	-25.00	39.66	Horizontal
3	10284.3600	32.49	-39.15	38.34	-63.58	-25.00	38.58	Horizontal
4	12855.4500	28.99	-36.99	39.06	-64.20	-25.00	39.20	Horizontal
5	15426.5400	26.88	-34.00	40.40	-61.97	-25.00	36.97	Horizontal
6	17997.6300	30.25	-34.58	46.79	-52.80	-25.00	27.80	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5142.1800	40.01	-45.33	31.74	-68.84	-25.00	43.84	Vertical
2	7713.2700	38.06	-43.01	36.69	-63.53	-25.00	38.53	Vertical
3	10284.3600	32.15	-39.15	38.34	-63.92	-25.00	38.92	Vertical
4	12855.4500	29.22	-36.99	39.06	-63.97	-25.00	38.97	Vertical
5	15426.5400	26.65	-34.00	40.40	-62.20	-25.00	37.20	Vertical
6	17997.6300	30.18	-34.58	46.79	-52.87	-25.00	27.87	Vertical



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Test Band = LTE Band38C\_ TM1  
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3322	43.57	-46.42	28.49	-69.62	-25.00	44.62	Horizontal
2	5152.3800	38.93	-45.32	31.77	-69.89	-25.00	44.89	Horizontal
3	7728.5700	38.04	-42.89	36.69	-63.41	-25.00	38.41	Horizontal
4	10304.7600	32.85	-39.09	38.35	-63.14	-25.00	38.14	Horizontal
5	12880.9500	28.41	-37.06	39.06	-64.84	-25.00	39.84	Horizontal
6	15457.1400	27.76	-34.57	40.34	-61.73	-25.00	36.73	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3490.5	43.44	-46.26	28.59	-69.49	-25.00	44.49	Vertical
2	5152.3800	39.31	-45.32	31.77	-69.51	-25.00	44.51	Vertical
3	7728.5700	37.88	-42.89	36.69	-63.57	-25.00	38.57	Vertical
4	10304.7600	33.11	-39.09	38.35	-62.88	-25.00	37.88	Vertical
5	12880.9500	29.22	-37.06	39.06	-64.03	-25.00	39.03	Vertical
6	15457.1400	27.51	-34.57	40.34	-61.98	-25.00	36.98	Vertical



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Test Band = LTE Band38C\_ TM1  
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3509	42.84	-46.25	28.61	-70.06	-25.00	45.06	Horizontal
2	5162.5800	39.24	-45.31	31.79	-69.54	-25.00	44.54	Horizontal
3	7743.8700	37.45	-42.76	36.70	-63.88	-25.00	38.88	Horizontal
4	10325.1600	32.40	-39.07	38.36	-63.57	-25.00	38.57	Horizontal
5	12906.4500	29.02	-37.12	39.07	-64.29	-25.00	39.29	Horizontal
6	15487.7400	27.35	-35.14	40.28	-62.78	-25.00	37.78	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3511.5	43.20	-46.25	28.61	-69.69	-25.00	44.69	Vertical
2	5162.5800	40.77	-45.31	31.79	-68.01	-25.00	43.01	Vertical
3	7743.8700	37.44	-42.76	36.70	-63.89	-25.00	38.89	Vertical
4	10325.1600	31.99	-39.07	38.36	-63.98	-25.00	38.98	Vertical
5	12906.4500	28.55	-37.12	39.07	-64.76	-25.00	39.76	Vertical
6	15487.7400	26.44	-35.14	40.28	-63.69	-25.00	38.69	Vertical



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**Test Band = LTE Band41CA\_ TM1**  
**Test Channel = Low**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4994.1800	40.65	-45.63	31.39	-68.86	-25.00	43.86	Horizontal
2	7491.2700	37.69	-43.16	36.58	-64.16	-25.00	39.16	Horizontal
3	9988.3600	32.99	-39.25	38.18	-63.34	-25.00	38.34	Horizontal
4	12485.4500	29.14	-37.04	38.95	-64.21	-25.00	39.21	Horizontal
5	14982.5400	24.60	-34.64	41.29	-64.01	-25.00	39.01	Horizontal
6	17479.6300	28.63	-35.10	44.46	-57.27	-25.00	32.27	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4994.1800	40.84	-45.63	31.39	-68.67	-25.00	43.67	Vertical
2	7491.2700	38.42	-43.16	36.58	-63.43	-25.00	38.43	Vertical
3	9988.3600	33.50	-39.25	38.18	-62.83	-25.00	37.83	Vertical
4	12485.4500	29.28	-37.04	38.95	-64.07	-25.00	39.07	Vertical
5	14982.5400	23.24	-34.64	41.29	-65.37	-25.00	40.37	Vertical
6	17479.6300	28.98	-35.10	44.46	-56.92	-25.00	31.92	Vertical



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Test Band = LTE Band41CA\_ TM1  
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3453	43.31	-46.27	28.57	-69.65	-25.00	44.65	Horizontal
2	5148.3800	39.22	-45.33	31.76	-69.61	-25.00	44.61	Horizontal
3	7722.5700	37.90	-42.93	36.69	-63.60	-25.00	38.60	Horizontal
4	10296.7600	32.55	-39.10	38.35	-63.46	-25.00	38.46	Horizontal
5	12870.9500	29.39	-37.03	39.06	-63.84	-25.00	38.84	Horizontal
6	15445.1400	27.59	-34.35	40.36	-61.65	-25.00	36.65	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3495.5	43.51	-46.26	28.60	-69.41	-25.00	44.41	Vertical
2	5148.3800	39.54	-45.33	31.76	-69.29	-25.00	44.29	Vertical
3	7722.5700	37.77	-42.93	36.69	-63.73	-25.00	38.73	Vertical
4	10296.7600	32.91	-39.10	38.35	-63.10	-25.00	38.10	Vertical
5	12870.9500	29.34	-37.03	39.06	-63.89	-25.00	38.89	Vertical
6	15445.1400	27.64	-34.35	40.36	-61.60	-25.00	36.60	Vertical



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Test Band = LTE Band41CA\_ TM1  
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3685.5	40.95	-45.59	28.79	-71.12	-25.00	46.12	Horizontal
2	5302.5800	38.49	-45.10	32.13	-69.74	-25.00	44.74	Horizontal
3	7953.8700	36.45	-42.57	36.78	-64.59	-25.00	39.59	Horizontal
4	10605.1600	31.89	-38.44	38.50	-63.30	-25.00	38.30	Horizontal
5	13256.4500	28.36	-37.02	39.56	-64.36	-25.00	39.36	Horizontal
6	15907.5400	27.43	-34.34	39.39	-62.78	-25.00	37.78	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3403	43.47	-46.28	28.54	-69.53	-25.00	44.53	Vertical
2	5302.5800	39.37	-45.10	32.13	-68.86	-25.00	43.86	Vertical
3	7953.8700	36.87	-42.57	36.78	-64.17	-25.00	39.17	Vertical
4	10605.1600	31.47	-38.44	38.50	-63.72	-25.00	38.72	Vertical
5	13256.4500	28.50	-37.02	39.56	-64.22	-25.00	39.22	Vertical
6	15907.5400	27.08	-34.34	39.39	-63.13	-25.00	38.13	Vertical



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Test Band = LTE Band42CA\_TM1  
Test Channel = Low 3550-3600

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7848.95	38.76	-42.66	36.74	-62.42	-40.00	22.42	Horizontal
2	9288.175	35.88	-40.06	36.85	-62.59	-40.00	22.59	Horizontal
3	10718.2	31.66	-37.67	38.56	-62.71	-40.00	22.71	Horizontal
4	11586.45	29.65	-36.92	38.76	-63.77	-40.00	23.77	Horizontal
5	14436.15	28.25	-34.77	41.07	-60.71	-40.00	20.71	Horizontal
6	15726.45	27.48	-33.21	39.77	-61.21	-40.00	21.21	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7918.525	38.88	-42.63	36.77	-62.24	-40.00	22.24	Vertical
2	8930.525	37.14	-40.90	36.33	-62.68	-40.00	22.68	Vertical
3	10306.5	33.48	-38.95	38.35	-62.38	-40.00	22.38	Vertical
4	11460.525	31.03	-36.90	38.75	-62.39	-40.00	22.39	Vertical
5	13423.575	29.18	-36.21	39.86	-62.42	-40.00	22.42	Vertical
6	15289.45	26.96	-33.90	40.69	-61.51	-40.00	21.51	Vertical



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Test Band = LTE Band42CA\_TM1  
 Test Channel = Mid 3550-3600

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8384.275	38.34	-41.45	36.61	-61.76	-40.00	21.76	Horizontal
2	10073.625	33.89	-38.88	38.24	-62.01	-40.00	22.01	Horizontal
3	11227.65	30.94	-36.77	38.72	-62.37	-40.00	22.37	Horizontal
4	12734.725	29.25	-36.76	39.02	-63.75	-40.00	23.75	Horizontal
5	14667.875	27.93	-34.95	41.17	-61.11	-40.00	21.11	Horizontal
6	16626.9	30.49	-34.61	41.14	-58.23	-40.00	18.23	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7360.2	39.78	-43.00	36.21	-62.28	-40.00	22.28	Vertical
2	8405.55	38.49	-41.39	36.60	-61.57	-40.00	21.57	Vertical
3	9594.65	34.68	-39.24	37.43	-62.39	-40.00	22.39	Vertical
4	10953.375	31.12	-37.69	38.68	-63.16	-40.00	23.16	Vertical
5	12800.275	30.06	-36.62	39.04	-62.78	-40.00	22.78	Vertical
6	15154.9	26.95	-34.08	40.97	-61.42	-40.00	21.42	Vertical



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Test Band = LTE Band42CA\_TM1  
 Test Channel = High 3550-3600

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7449.9	39.60	-42.98	36.46	-62.18	-40.00	22.18	Horizontal
2	9185.25	35.41	-40.02	36.65	-63.22	-40.00	23.22	Horizontal
3	10369.75	33.29	-38.80	38.38	-62.38	-40.00	22.38	Horizontal
4	11622.675	28.60	-36.78	38.76	-64.68	-40.00	24.68	Horizontal
5	13920.375	28.60	-35.41	40.76	-61.31	-40.00	21.31	Horizontal
6	15363.05	26.97	-34.01	40.54	-61.76	-40.00	21.76	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7800.65	39.13	-42.58	36.72	-61.99	-40.00	21.99	Vertical
2	8967.9	37.04	-40.88	36.32	-62.79	-40.00	22.79	Vertical
3	11165.55	31.37	-37.00	38.72	-62.17	-40.00	22.17	Vertical
4	12314.4	29.26	-36.69	38.89	-63.80	-40.00	23.80	Vertical
5	14582.775	27.41	-35.16	41.13	-61.87	-40.00	21.87	Vertical
6	15836.275	27.40	-33.45	39.54	-61.76	-40.00	21.76	Vertical



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Test Band = LTE Band42CA\_TM1  
Test Channel = Low 3450-3550

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7799.5	39.49	-42.58	36.72	-61.63	-13.00	48.63	Horizontal
2	9439.4	35.61	-39.94	37.13	-62.45	-13.00	49.45	Horizontal
3	10691.75	32.06	-37.53	38.55	-62.19	-13.00	49.19	Horizontal
4	12190.2	29.67	-37.12	38.86	-63.85	-13.00	50.85	Horizontal
5	13919.8	29.02	-35.41	40.76	-60.90	-13.00	47.90	Horizontal
6	14522.4	26.92	-34.48	41.11	-61.71	-13.00	48.71	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8008.225	38.24	-42.07	36.80	-62.29	-13.00	49.29	Vertical
2	9634.325	34.51	-39.30	37.51	-62.54	-13.00	49.54	Vertical
3	11751.475	28.35	-36.66	38.78	-64.80	-13.00	51.80	Vertical
4	13602.975	29.04	-36.04	40.19	-62.07	-13.00	49.07	Vertical
5	15154.325	26.14	-34.09	40.98	-62.23	-13.00	49.23	Vertical
6	16354.925	30.03	-34.67	40.30	-59.60	-13.00	46.60	Vertical



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Test Band = LTE Band42CA\_TM1  
 Test Channel = Mid 3450-3550

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8420.5	38.52	-41.46	36.59	-61.61	-13.00	48.61	Horizontal
2	10388.725	32.96	-38.75	38.39	-62.65	-13.00	49.65	Horizontal
3	11495.6	29.92	-36.55	38.75	-63.14	-13.00	50.14	Horizontal
4	13603.55	29.75	-36.04	40.19	-61.36	-13.00	48.36	Horizontal
5	15326.825	26.66	-33.96	40.61	-61.94	-13.00	48.94	Horizontal
6	16342.85	28.88	-34.62	40.26	-60.74	-13.00	47.74	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7793.75	38.90	-42.60	36.72	-62.25	-13.00	49.25	Vertical
2	9134.65	35.80	-40.25	36.56	-63.15	-13.00	50.15	Vertical
3	10353.65	33.34	-38.84	38.38	-62.38	-13.00	49.38	Vertical
4	12690.45	29.24	-36.87	39.01	-63.88	-13.00	50.88	Vertical
5	14448.225	27.10	-34.67	41.08	-61.75	-13.00	48.75	Vertical
6	16431.975	30.03	-34.67	40.54	-59.37	-13.00	46.37	Vertical



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Test Band = LTE Band42CA\_TM1  
Test Channel = High 3450-3550

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7387.225	39.74	-42.86	36.28	-62.09	-13.00	49.09	Horizontal
2	8633.825	37.14	-41.04	36.48	-62.68	-13.00	49.68	Horizontal
3	11453.05	30.78	-36.98	38.75	-62.71	-13.00	49.71	Horizontal
4	12335.1	29.04	-36.76	38.90	-64.08	-13.00	51.08	Horizontal
5	14281.475	28.09	-35.76	41.01	-61.92	-13.00	48.92	Horizontal
6	15783.95	26.28	-33.09	39.65	-62.42	-13.00	49.42	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7391.25	40.16	-42.84	36.30	-61.64	-13.00	48.64	Vertical
2	8542.4	37.76	-41.41	36.53	-62.39	-13.00	49.39	Vertical
3	10066.15	33.51	-38.93	38.23	-62.45	-13.00	49.45	Vertical
4	11454.2	30.27	-36.97	38.75	-63.21	-13.00	50.21	Vertical
5	12823.275	28.79	-36.68	39.05	-64.10	-13.00	51.10	Vertical
6	14452.825	26.60	-34.63	41.08	-62.21	-13.00	49.21	Vertical



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**Test Band = LTE Band43CA\_TM1**  
**Test Channel = Low 3600-3700**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7454.5	39.57	-43.00	36.47	-62.21	-40.00	22.21	Horizontal
2	8176.7	38.50	-41.96	36.71	-62.01	-40.00	22.01	Horizontal
3	9186.4	35.98	-40.01	36.65	-62.64	-40.00	22.64	Horizontal
4	10480.15	33.03	-38.75	38.44	-62.54	-40.00	22.54	Horizontal
5	12237.925	29.52	-36.93	38.87	-63.80	-40.00	23.80	Horizontal
6	14448.225	27.48	-34.67	41.08	-61.37	-40.00	21.37	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7399.875	39.86	-42.79	36.32	-61.87	-40.00	21.87	Vertical
2	8402.1	38.37	-41.38	36.60	-61.67	-40.00	21.67	Vertical
3	8892	36.82	-40.93	36.35	-63.01	-40.00	23.01	Vertical
4	10044.875	33.87	-39.07	38.22	-62.24	-40.00	22.24	Vertical
5	11147.725	31.36	-37.20	38.71	-62.39	-40.00	22.39	Vertical
6	13395.975	28.49	-36.11	39.81	-63.07	-40.00	23.07	Vertical



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Test Band = LTE Band43CA\_TM1  
Test Channel = Mid 3600-3700

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7931.75	39.32	-42.55	36.77	-61.71	-40.00	21.71	Horizontal
2	8893.15	37.21	-40.93	36.35	-62.62	-40.00	22.62	Horizontal
3	10085.125	33.40	-38.80	38.24	-62.42	-40.00	22.42	Horizontal
4	11583	29.18	-36.90	38.76	-64.22	-40.00	24.22	Horizontal
5	15172.15	25.80	-33.96	40.94	-62.48	-40.00	22.48	Horizontal
6	15824.775	27.01	-33.33	39.57	-62.01	-40.00	22.01	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7953.025	38.64	-42.42	36.78	-62.26	-40.00	22.26	Vertical
2	9832.125	34.09	-39.10	37.88	-62.39	-40.00	22.39	Vertical
3	11150.6	31.28	-37.17	38.72	-62.43	-40.00	22.43	Vertical
4	12082.1	29.23	-37.19	38.82	-64.39	-40.00	24.39	Vertical
5	13638.625	29.48	-36.02	40.25	-61.55	-40.00	21.55	Vertical
6	15154.9	26.14	-34.08	40.97	-62.23	-40.00	22.23	Vertical



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Test Band = LTE Band43CA\_TM1  
Test Channel = High 3600-3700

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7451.05	40.00	-42.98	36.46	-61.78	-40.00	21.78	Horizontal
2	9114.525	36.68	-40.34	36.52	-62.41	-40.00	22.41	Horizontal
3	9605	34.64	-39.21	37.45	-62.38	-40.00	22.38	Horizontal
4	10593.425	32.59	-38.06	38.50	-62.23	-40.00	22.23	Horizontal
5	12234.475	29.58	-36.95	38.87	-63.76	-40.00	23.76	Horizontal
6	13629.425	29.77	-36.03	40.23	-61.28	-40.00	21.28	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7689.675	39.37	-42.93	36.68	-62.14	-40.00	22.14	Vertical
2	9588.9	35.46	-39.28	37.42	-61.67	-40.00	21.67	Vertical
3	10644.025	32.11	-37.78	38.52	-62.41	-40.00	22.41	Vertical
4	11462.25	30.85	-36.89	38.75	-62.55	-40.00	22.55	Vertical
5	13134.35	28.77	-36.60	39.34	-63.74	-40.00	23.74	Vertical
6	15295.775	26.75	-33.91	40.68	-61.74	-40.00	21.74	Vertical



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Test Band = LTE Band43CA\_TM1  
Test Channel = Low 3700-3800

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7642.525	40.02	-42.83	36.66	-61.41	-13.00	48.41	Horizontal
2	8648.775	37.70	-41.11	36.48	-62.19	-13.00	49.19	Horizontal
3	9426.75	35.89	-39.93	37.11	-62.19	-13.00	49.19	Horizontal
4	10654.375	32.39	-37.73	38.53	-62.07	-13.00	49.07	Horizontal
5	12321.875	29.57	-36.72	38.90	-63.51	-13.00	50.51	Horizontal
6	15154.325	26.28	-34.09	40.98	-62.09	-13.00	49.09	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7382.625	40.40	-42.88	36.27	-61.47	-13.00	48.47	Vertical
2	9116.25	36.05	-40.34	36.52	-63.02	-13.00	50.02	Vertical
3	10499.125	32.72	-38.76	38.45	-62.85	-13.00	49.85	Vertical
4	12185.6	29.82	-37.12	38.86	-63.71	-13.00	50.71	Vertical
5	13929	28.70	-35.34	40.77	-61.13	-13.00	48.13	Vertical
6	15382.025	26.82	-34.03	40.50	-61.98	-13.00	48.98	Vertical



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Test Band = LTE Band43CA\_TM1  
Test Channel = Mid 3700-3800

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8075.5	37.98	-41.53	36.76	-62.05	-13.00	49.05	Horizontal
2	9634.325	34.89	-39.30	37.51	-62.16	-13.00	49.16	Horizontal
3	11237.425	31.13	-36.84	38.72	-62.24	-13.00	49.24	Horizontal
4	12711.725	29.13	-36.81	39.01	-63.92	-13.00	50.92	Horizontal
5	14671.9	27.26	-34.93	41.17	-61.76	-13.00	48.76	Horizontal
6	15827.65	27.49	-33.36	39.56	-61.56	-13.00	48.56	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7375.725	39.85	-42.92	36.25	-62.08	-13.00	49.08	Vertical
2	8671.2	37.82	-41.21	36.46	-62.19	-13.00	49.19	Vertical
3	10075.35	33.42	-38.87	38.24	-62.47	-13.00	49.47	Vertical
4	11139.675	31.18	-37.29	38.71	-62.66	-13.00	49.66	Vertical
5	13405.175	28.61	-36.10	39.83	-62.92	-13.00	49.92	Vertical
6	14666.725	26.82	-34.96	41.17	-62.23	-13.00	49.23	Vertical



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Test Band = LTE Band43CA\_TM1  
Test Channel = High 3700-3800

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7441.275	40.13	-42.95	36.44	-61.64	-13.00	48.64	Horizontal
2	8649.35	37.91	-41.11	36.48	-61.99	-13.00	48.99	Horizontal
3	10054.075	34.18	-39.01	38.23	-61.87	-13.00	48.87	Horizontal
4	11148.875	31.41	-37.19	38.71	-62.32	-13.00	49.32	Horizontal
5	12774.4	29.51	-36.67	39.03	-63.39	-13.00	50.39	Horizontal
6	13920.95	28.55	-35.40	40.76	-61.36	-13.00	48.36	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7747.75	39.75	-42.77	36.70	-61.58	-13.00	48.58	Vertical
2	9621.1	34.76	-39.26	37.48	-62.28	-13.00	49.28	Vertical
3	10645.175	32.41	-37.78	38.52	-62.10	-13.00	49.10	Vertical
4	12082.1	29.29	-37.19	38.82	-64.33	-13.00	51.33	Vertical
5	13347.675	29.52	-36.57	39.73	-62.58	-13.00	49.58	Vertical
6	15155.475	26.56	-34.08	40.97	-61.81	-13.00	48.81	Vertical



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Test Band = LTE Band66B\_ TM1  
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3424.1800	40.42	-46.28	28.55	-72.56	-13.00	59.56	Horizontal
2	5131.7700	39.09	-45.34	31.72	-69.79	-13.00	56.79	Horizontal
3	6842.3600	38.04	-44.14	34.92	-66.44	-13.00	53.44	Horizontal
4	8552.9500	35.79	-41.47	36.52	-64.41	-13.00	51.41	Horizontal
5	10263.5400	30.75	-39.24	38.33	-65.42	-13.00	52.42	Horizontal
6	11974.1300	27.86	-37.49	38.80	-66.10	-13.00	53.10	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3424.1800	40.37	-46.28	28.55	-72.61	-13.00	59.61	Vertical
2	5131.7700	38.24	-45.34	31.72	-70.64	-13.00	57.64	Vertical
3	6842.3600	38.90	-44.14	34.92	-65.58	-13.00	52.58	Vertical
4	8552.9500	34.87	-41.47	36.52	-65.33	-13.00	52.33	Vertical
5	10263.5400	31.37	-39.24	38.33	-64.80	-13.00	51.80	Vertical
6	11974.1300	27.25	-37.49	38.80	-66.71	-13.00	53.71	Vertical



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Test Band = LTE Band66B\_ TM1  
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3491.3800	41.10	-46.26	28.60	-71.83	-13.00	58.83	Horizontal
2	5237.0700	39.24	-45.21	31.97	-69.26	-13.00	56.26	Horizontal
3	6982.7600	37.57	-43.64	35.17	-66.16	-13.00	53.16	Horizontal
4	8728.4500	36.33	-41.56	36.44	-64.06	-13.00	51.06	Horizontal
5	10474.1400	31.45	-38.85	38.44	-64.23	-13.00	51.23	Horizontal
6	12219.8300	28.88	-37.47	38.87	-64.99	-13.00	51.99	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3491.3800	41.71	-46.26	28.60	-71.22	-13.00	58.22	Vertical
2	5237.0700	39.42	-45.21	31.97	-69.08	-13.00	56.08	Vertical
3	6982.7600	37.98	-43.64	35.17	-65.75	-13.00	52.75	Vertical
4	8728.4500	35.31	-41.56	36.44	-65.08	-13.00	52.08	Vertical
5	10474.1400	31.62	-38.85	38.44	-64.06	-13.00	51.06	Vertical
6	12219.8300	28.28	-37.47	38.87	-65.59	-13.00	52.59	Vertical



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Test Band = LTE Band66B\_ TM1  
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3521.3800	41.32	-46.23	28.62	-71.55	-13.00	58.55	Horizontal
2	5282.0700	38.46	-45.12	32.08	-69.85	-13.00	56.85	Horizontal
3	7042.7600	37.82	-43.84	35.32	-65.95	-13.00	52.95	Horizontal
4	8803.4500	35.20	-41.25	36.40	-64.91	-13.00	51.91	Horizontal
5	10564.1400	30.76	-38.59	38.48	-64.60	-13.00	51.60	Horizontal
6	12324.8300	29.80	-37.45	38.90	-64.01	-13.00	51.01	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3521.3800	40.73	-46.23	28.62	-72.14	-13.00	59.14	Vertical
2	5282.0700	38.56	-45.12	32.08	-69.75	-13.00	56.75	Vertical
3	7042.7600	37.67	-43.84	35.32	-66.10	-13.00	53.10	Vertical
4	8803.4500	34.91	-41.25	36.40	-65.20	-13.00	52.20	Vertical
5	10564.1400	30.92	-38.59	38.48	-64.44	-13.00	51.44	Vertical
6	12324.8300	28.95	-37.45	38.90	-64.86	-13.00	51.86	Vertical



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Wireless Laboratories

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Test Band = LTE Band66CA\_ TM1  
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3404.1800	40.84	-46.28	28.54	-72.16	-13.00	59.16	Horizontal
2	5106.2700	39.40	-45.36	31.66	-69.57	-13.00	56.57	Horizontal
3	6808.3600	38.41	-44.16	34.86	-66.16	-13.00	53.16	Horizontal
4	8510.4500	35.29	-41.59	36.54	-65.01	-13.00	52.01	Horizontal
5	10212.5400	32.11	-39.45	38.31	-64.29	-13.00	51.29	Horizontal
6	11914.6300	28.23	-37.18	38.79	-65.42	-13.00	52.42	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3404.1800	40.82	-46.28	28.54	-72.18	-13.00	59.18	Vertical
2	5106.2700	39.01	-45.36	31.66	-69.96	-13.00	56.96	Vertical
3	6808.3600	39.41	-44.16	34.86	-65.16	-13.00	52.16	Vertical
4	8510.4500	35.03	-41.59	36.54	-65.27	-13.00	52.27	Vertical
5	10212.5400	31.12	-39.45	38.31	-65.28	-13.00	52.28	Vertical
6	11914.6300	27.78	-37.18	38.79	-65.87	-13.00	52.87	Vertical



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Test Band = LTE Band66CA\_ TM1  
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.3800	40.90	-46.27	28.58	-72.04	-13.00	59.04	Horizontal
2	5208.5700	39.80	-45.26	31.90	-68.82	-13.00	55.82	Horizontal
3	6944.7600	38.38	-43.85	35.10	-65.63	-13.00	52.63	Horizontal
4	8680.9500	36.06	-41.62	36.46	-64.36	-13.00	51.36	Horizontal
5	10417.1400	31.87	-38.97	38.41	-63.95	-13.00	50.95	Horizontal
6	12153.3300	28.22	-37.42	38.85	-65.61	-13.00	52.61	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.3800	41.48	-46.27	28.58	-71.46	-13.00	58.46	Vertical
2	5208.5700	38.59	-45.26	31.90	-70.03	-13.00	57.03	Vertical
3	6944.7600	37.03	-43.85	35.10	-66.98	-13.00	53.98	Vertical
4	8680.9500	35.74	-41.62	36.46	-64.68	-13.00	51.68	Vertical
5	10417.1400	31.19	-38.97	38.41	-64.63	-13.00	51.63	Vertical
6	12153.3300	28.50	-37.42	38.85	-65.33	-13.00	52.33	Vertical



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**Test Band = LTE Band66CA\_ TM1**  
**Test Channel = High**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3482.5800	41.40	-46.26	28.59	-71.53	-13.00	58.53	Horizontal
2	5223.8700	39.16	-45.23	31.94	-69.39	-13.00	56.39	Horizontal
3	6965.1600	38.00	-43.74	35.14	-65.86	-13.00	52.86	Horizontal
4	8706.4500	36.54	-41.66	36.45	-63.93	-13.00	50.93	Horizontal
5	10447.7400	31.30	-38.91	38.42	-64.44	-13.00	51.44	Horizontal
6	12189.0300	29.59	-37.47	38.86	-64.29	-13.00	51.29	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3482.5800	41.61	-46.26	28.59	-71.32	-13.00	58.32	Vertical
2	5223.8700	39.71	-45.23	31.94	-68.84	-13.00	55.84	Vertical
3	6965.1600	37.88	-43.74	35.14	-65.98	-13.00	52.98	Vertical
4	8706.4500	35.66	-41.66	36.45	-64.81	-13.00	51.81	Vertical
5	10447.7400	32.12	-38.91	38.42	-63.62	-13.00	50.62	Vertical
6	12189.0300	29.76	-37.47	38.86	-64.12	-13.00	51.12	Vertical



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Test Band = LTE Band48CA\_ TM1  
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7443	40.41	-42.95	36.44	-61.36	-40.00	21.36	Horizontal
2	9289.325	37.11	-40.06	36.85	-61.36	-40.00	21.36	Horizontal
3	10075.35	34.49	-38.87	38.24	-61.40	-40.00	21.40	Horizontal
4	12302.9	30.92	-36.65	38.89	-62.10	-40.00	22.10	Horizontal
5	13603.55	31.00	-36.04	40.19	-60.11	-40.00	20.11	Horizontal
6	15154.325	28.39	-34.09	40.98	-59.98	-40.00	19.98	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8377.375	39.13	-41.48	36.61	-61.00	-40.00	21.00	Vertical
2	10020.725	35.00	-39.24	38.21	-61.29	-40.00	21.29	Vertical
3	11146.575	32.07	-37.21	38.71	-61.69	-40.00	21.69	Vertical
4	12378.8	31.16	-36.92	38.91	-62.10	-40.00	22.10	Vertical
5	14388.425	29.37	-35.17	41.06	-60.00	-40.00	20.00	Vertical
6	15387.775	28.82	-34.04	40.49	-60.00	-40.00	20.00	Vertical



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Test Band = LTE Band48CA\_ TM1  
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8007.65	38.66	-42.07	36.80	-61.87	-40.00	21.87	Horizontal
2	9563.6	35.65	-39.48	37.37	-61.72	-40.00	21.72	Horizontal
3	10663	33.07	-37.68	38.53	-61.34	-40.00	21.34	Horizontal
4	11600.825	30.49	-36.97	38.76	-62.98	-40.00	22.98	Horizontal
5	13648.4	31.03	-36.02	40.27	-59.98	-40.00	19.98	Horizontal
6	14671.9	28.55	-34.93	41.17	-60.47	-40.00	20.47	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7737.975	39.56	-42.81	36.70	-61.81	-40.00	21.81	Vertical
2	9200.2	36.19	-39.95	36.68	-62.34	-40.00	22.34	Vertical
3	10519.825	34.13	-38.61	38.46	-61.28	-40.00	21.28	Vertical
4	11455.925	31.60	-36.95	38.75	-61.87	-40.00	21.87	Vertical
5	13606.425	30.97	-36.04	40.19	-60.14	-40.00	20.14	Vertical
6	15387.775	28.25	-34.04	40.49	-60.57	-40.00	20.57	Vertical



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**Test Band = LTE Band48CA\_ TM1**  
**Test Channel = High**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7447.025	40.19	-42.97	36.45	-61.59	-40.00	21.59	Horizontal
2	9186.975	36.16	-40.01	36.66	-62.45	-40.00	22.45	Horizontal
3	10058.1	34.43	-38.98	38.23	-61.59	-40.00	21.59	Horizontal
4	12178.125	30.79	-37.13	38.85	-62.74	-40.00	22.74	Horizontal
5	13409.2	30.10	-36.12	39.84	-61.45	-40.00	21.45	Horizontal
6	15154.9	27.29	-34.08	40.97	-61.08	-40.00	21.08	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8011.675	38.52	-42.04	36.79	-61.98	-40.00	21.98	Vertical
2	9661.925	35.25	-39.37	37.56	-61.83	-40.00	21.83	Vertical
3	10649.2	32.84	-37.75	38.52	-61.65	-40.00	21.65	Vertical
4	12086.7	30.69	-37.19	38.83	-62.93	-40.00	22.93	Vertical
5	12827.3	30.63	-36.69	39.05	-62.27	-40.00	22.27	Vertical
6	13936.475	29.73	-35.28	40.79	-60.03	-40.00	20.03	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Report---



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