



Report No.: SUCR251000102502
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TEST REPORT

Application No.: SUCR2510001025WM
Applicant: COOSEA GROUP (HK) COMPANY LIMITED
Address of Applicant: UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL
Manufacturer: COOSEA GROUP (HK) COMPANY LIMITED
Address of Manufacturer: UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL
EUT Description: Smart Phone
Model No.: SN512CC
FCC ID: 2A28USN512CC
Standards: 47 CFR Part 2
47 CFR Part 22
47 CFR Part 24
47 CFR Part 27
47 CFR Part 90
Date of Receipt: 2025-10-22
Date of Test: 2025-11-13
Date of Issue: 2025-11-28

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

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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Version

Revision Record			
Version	Description	Date	Remark
01	Original	2025-11-28	/

Authorized for issue by:			
Tested By		Nature Shen	
		Nature Shen / Project Manager	
Approved By		Cedar cheng	
		Cedar Cheng/Technical Manager	

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1 Test Summary

1.1 WCDMA Band5/LTE Band 5/5B

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913(a)(5)	ERP ≤ 7 W	Section 1 of Appendix B.3&B.6	Reference report SUCR250400032302
Peak-Average Ratio	§22.913(d)	Limits ≤ 13 dB	Section 4 of Appendix B.3&B.6	
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.3&B.6	
Band Edges Compliance	§2.1051, §22.917(a)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 5 of Appendix B.3&B.6	
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.	Section 5 of Appendix B.3&B.6	
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) (2) §22.355	±2.5ppm.	Section 2 of Appendix B.3&B.6	Reference report SUCR250400032302

1.2 WCDMA Band 2/LTE Band 2

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §24.232(c)	$EIRP \leq 2\text{ W}$	Section 1 of Appendix B.1&B.4	Reference report SUCR250400032302
Peak-Average Ratio	§24.232(d)	Limit $\leq 13\text{ dB}$	Section 4 of Appendix B.1&B.4	
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.1&B.4	
Band Edges Compliance	§2.1051, §24.238(a)	$\leq -13\text{ dBm}/1\% \cdot \text{EBW}$, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 5 of Appendix B.1&B.4	
Spurious Emission at Antenna Terminals	§2.1051, §24.238(a)	$\leq -13\text{ dBm}/1\text{ MHz}$, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Section 5 of Appendix B.1&B.4	
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	$\leq -13\text{ dBm}/1\text{ MHz}$.	Appendix	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §24.235	Within authorized bands of operation/frequency block.	Section 2 of Appendix B.1&B.4	Reference report SUCR250400032302

1.3 WCDMA Band 4/LTE Band 4 / 66/ 66B/ 66C

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(d)(4)	EIRP $\leq$ 1 W	Section 1 of Appendix B.2&B.5&B.12&B.14&B.15	Reference report SUCR250400032302
Peak-Average Ratio	§27.50(d)(5)	Limit $\leq$ 13 dB	Section 4 of Appendix B.2&B.5&B.12&B.14&B.15	
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.2&B.5&B.12&B.14&B.15	
Band Edges Compliance	§2.1051, §27.53(h)	$\leq$ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 5 of Appendix B.2&B.5&B.12&B.14&B.15	
Spurious Emission at Antenna Terminals	§2.1051, §27.53(h)	$\leq$ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Section 5 of Appendix B.2&B.5&B.12&B.14&B.15	
Field Strength of Spurious Radiation	§2.1053, §27.53(h)	$\leq$ -13 dBm/1 MHz.	Appendix	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	Within authorized bands of operation/frequency block.	Section 2 of Appendix B.2&B.5&B.12&B.14&B.15	Reference report SUCR250400032302

1.4 LTE Band 12/17

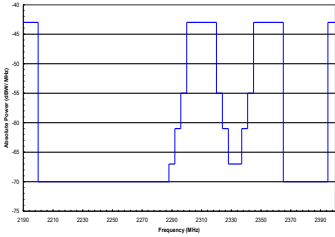
Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)(10)	ERP ≤ 3 W.	Section 1 of Appendix B.8&B.10	Reference report SUCR250400032302
Peak-Average Ratio	---	Limits ≤ 13 dB	Section 4 of Appendix B.8&B.10	
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.8&B.10	
Band Edges Compliance	§2.1051, §27.53(g)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 5 of Appendix B.8&B.10	
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Section 5 of Appendix B.8&B.10	
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) (2) §27.54	Within authorized bands of operation/frequency block.	Section 2 of Appendix B.8&B.10	Reference report SUCR250400032302

1.5 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.	Section 1 of Appendix B.9	Reference report SUCR250400032302
Peak-Average Ratio	---	Limit≤13 dB	Section 5 of Appendix B.9	
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.9	
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.	Section 4 of Appendix B.9	
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 799-805 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.	Section 6 of Appendix B.9	
Spurious	§2.1051,	FCC: ≤ -13 dBm/100 kHz, from 9 kHz	Section 6 of	

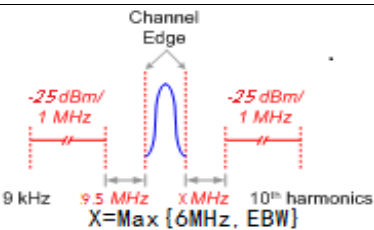
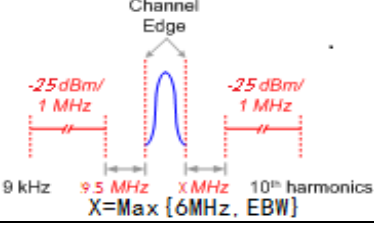
Emission at Antenna Terminals	§90.543(c) §90.543(f)	to 10th harmonics but outside authorized operating frequency ranges. For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/ MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.	Appendix B.9	
Field Strength of Spurious Radiation	§2.1053, §90.543(c) §90.543(f)	FCC: ≤ -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) (2) §90.213	Within authorized bands of operation/frequency block.	Section 2 of Appendix B.9	Reference report SUCR250400032302

1.6 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	Section 1 of Appendix B.11	
Peak-Average Ratio	---	FCC: Limits≤13 dB	Section 2 of Appendix B.11	
Bandwidth	§2.1049,	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.11	
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.	Section 4 of Appendix B.11	
Spurious Emission at Antenna Terminals	§2.1051, §27.53(a)(4)	Figure 1: Unwanted Emissions for Mobile, Portable, and Low Power Fixed Subscriber Equipment  For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands: (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; (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 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	Section 5 of Appendix B.11	Reference report SUCR250400032302

		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) (2) §27.54	within the range of the operating frequency blocks	Section 7 of Appendix B.11	Reference report SUCR250400032302

1.7 LTE Band 7

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(h)(2)	$EIRP \leq 2W$	Section 1 of Appendix B.7	Reference report SUCR250400032302
Peak-Average Ratio	---	≤ 13 dB	Section 2 of Appendix B.7	
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.7	
Band Edges Compliance	§2.1051, §27.53(m)(4)	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 than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz.	Section 4 of Appendix B.7	
Spurious Emission at Antenna Terminals	§2.1051, §27.53(m)		Section 5 of Appendix B.7	
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.	Section 7 of Appendix B.7	Reference report SUCR250400032302



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Remark:

This test report (Report No.: SUCR251000102502 issue on 2025-11-28) is based on the original test report (Report No.: SUCR250400032302 issue on 2025/06/13).

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 only the Radiated spurious emissions were performed based on the worst case of the original report with report number SUCR250400032302 issue on 2025/06/13 and other test data please refer to the previous report with report number SUCR250400032302 issue on 2025/06/13.

2 General Information

2.1 Details of Client

Applicant:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Applicant:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL
Manufacturer:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Manufacturer:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL

2.2 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:	King-p Li

2.3 Test Facility

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

- **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

- **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327

2.4 General Description of EUT

Hardware Version:	1.0		
Software Version:	SN512CCC10008		
IMEI:	RSE	352939250003475	
Antenna Type:	☐ External, ☒ Integrated		
Antenna Gain:	WCDMA Band 2: -1.80dBi (Ant3)		WCDMA Band 4: -0.8dBi (Ant3)
	WCDMA Band 5: -1.12dBi (Ant0)		LTE Band 2: -0.10dBi (Ant1) -1.80dBi (Ant3)
	LTE Band 4: -0.60dBi (Ant1) -0.80dBi (Ant3)		LTE Band 5: -1.12dBi (Ant0)
	LTE Band 7: -0.30dBi (Ant3)		LTE Band 12: -3.02dBi (Ant0)
	LTE Band 14: -1.75dBi (Ant0)		LTE Band 17: -3.02dBi (Ant0)
	LTE Band 30: -1.40dBi (Ant1) -0.10dBi (Ant3)		LTE Band 66: -0.60dBi (Ant1) -0.80dBi (Ant3)
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.		
RF Cable:	0.8dB(Below 1GHz)	1.0dB(1.0~2.4GHz)	1.2dB(2.4~3.4GHz)
	1.5dB(Above3.4GHz)		
Remark: Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.			

2.5 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.	

2.6 Test Environment

Environment Parameter	101 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.8
LTLV	-10	3.6
LTHV	-10	4.4
HTLV	55	3.6
HTHV	55	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		

2.7 Description of Support Units

The EUT has been tested as an independent unit.

2.8 Technical Specification

Characteristics	Description				
Radio System Type	☒ UMTS	☒ LTE			
Supported Frequency Range	Band		TX		RX
	UMTS Band 2		1850 to 1910 MHz		1930 to 1990 MHz
	UMTS Band 4		1710 to 1755 MHz		2110 to 2155 MHz
	UMTS Band 5		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 14		788 to 798 MHz		758 to 768 MHz
	LTE Band 17		704 to 716 MHz		734 to 746 MHz
	LTE Band 30		2305 to 2315 MHz		2350 to 2360 MHz
	LTE Band 66		1710 to 1780 MHz		2110 to 2200 MHz
	LTE UL CA: CA_2A-5A/CA_2A-12A/CA_2A-14A/CA_4A-12A/CA_5A-30A/CA_5A-66A/CA_12A-30A/CA_12A-66A/CA_14A-30A/CA_14A-66A/ CA_5B/CA_66B/CA_66C Remark: ULCA inter-band Only test RSE, report only show worst mode.				
	Supported Channel Bandwidth	UMTS system:		☒ 5 MHz	
LTE Band 2		☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz	☒ 10 MHz
		☒ 15 MHz	☒ 20 MHz		
LTE Band 4		☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz	☒ 10 MHz
		☒ 15 MHz	☒ 20 MHz		
LTE Band 5		☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz	☒ 10 MHz
LTE Band 7		☒ 5 MHz	☒ 10 MHz	☒ 15 MHz	☒ 20 MHz
LTE Band 12		☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz	☒ 10 MHz
LTE Band 14		☒ 5 MHz	☒ 10 MHz		
LTE Band 17		☒ 5 MHz	☒ 10 MHz		
LTE Band30		☒ 5 MHz	☒ 10 MHz		
LTE Band66		☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz	☒ 10 MHz
		☒ 15MHz	☒ 20MHz		

2.9 Test Frequencies

Test Mode	TX / RX	RF Channel		
		Low (L)	Middle (M)	High (H)
WCDMA Band 2	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 4	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 5	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

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

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

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

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

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

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 14	5MHz	TX	Channel 23305 790.5 MHz	Channel 23330 793 MHz	Channel 23355 795.5 MHz
		RX	Channel 5305 760.5 MHz	Channel 5330 763 MHz	Channel 5355 765.5 MHz
	10MHz	TX	Channel 23330 793MHz	Channel 23330 793 MHz	Channel 23330 793 MHz
		RX	Channel 5330 763MHz	Channel 5330 763 MHz	Channel 5330 763 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 17	5MHz	TX	Channel 23755 706.5 MHz	Channel 23790 710 MHz	Channel 23825 713.5 MHz



	10MHz	RX	Channel 5755	Channel 5790	Channel 5825
			736.5 MHz	740 MHz	743.5 MHz
		TX	Channel 23780	Channel 23790	Channel 23800
			709 MHz	710 MHz	711 MHz
	10MHz	RX	Channel 5780	Channel 5790	Channel 5800
			739 MHz	740 MHz	741 MHz

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
			2352.5MHz	2355 MHz	2357.5MHz
	10MHz	TX	Channel 27710	Channel27710	Channel27710
			2310 MHz	2310MHz	2310MHz
		RX	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 Band66 (RX 2110-2200)	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

3 Main Test Instruments

RSE Test System					
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	11/25/2024	11/24/2027
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-13	2/13/2025	2/12/2026
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	1/20/2025	1/19/2026
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-06	11/21/2024	11/20/2025
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	1/15/2025	1/14/2026
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9168	SUWI-01-11-04	9/13/2025	9/12/2026
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-05	11/25/2023	11/24/2025
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	5/7/2025	5/6/2026
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	5/7/2025	5/6/2026
Amplifier	Tonscend	TAP9K3G32	SUWI-01-14-06	11/19/2024	11/18/2025
Amplifier	Tonscend	TAP01018050	SUWI-01-14-04	11/19/2024	11/18/2025
Amplifier	Tonscend	TAP30M7G30	SUWI-01-14-05	11/19/2024	11/18/2025
Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-16-08	1/20/2025	1/19/2026
Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	11/19/2024	11/18/2025
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR
Measurement Software	Tonscend	JS32-RSE 4.0.0.1	SUWI-02-09-06	NCR	NCR
Radio Communication Analyzer	StarPoint	SP9500E	SUWI-01-28-06	11/19/2024	11/18/2025

Remark: NCR=No Calibration Requirement.

4 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	± 3.13dB (9k -30MHz)
		± 4.8dB (30M -1GHz)
		± 4.8dB (1GHz to 18 GHz)
		± 4.8dB (Above 18GHz)
Remark: The U _{lab} (lab Uncertainty) is less than U _{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.		

5 Description of Tests

5.1 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 $20 \cdot \log(3/1) = 9.54 \text{ dB}$.

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:

AF = Antenna Factor(dB/m)

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

Level = Reading Level + AF + Factor -95.26

Margin = Limit – 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.

5.2 Test Setups

5.2.1 Test Setup 2

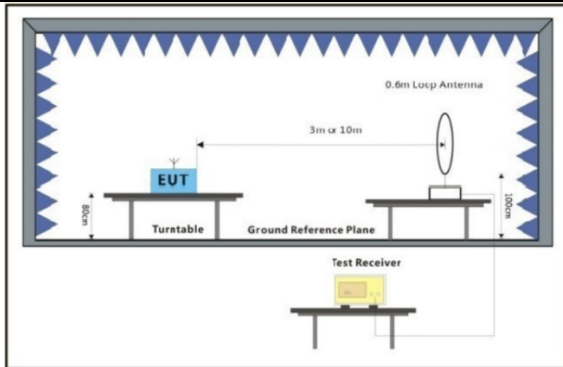


Figure 1. Below 30MHz

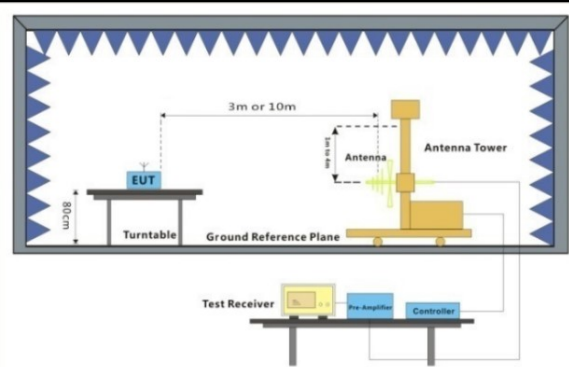


Figure 2. 30MHz to 1GHz

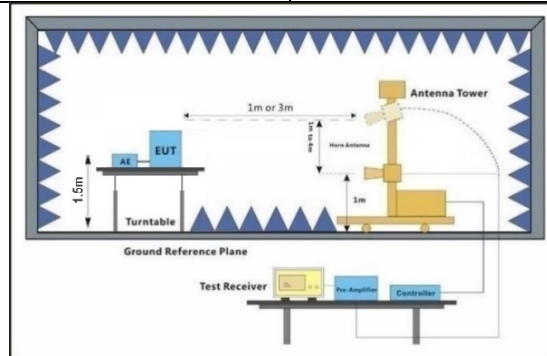


Figure 3. above 1GHz

5.3 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 GSM/ UMTS/LTE have been pre tested, and only the worst results are reflected in the report.



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6 Photographs - Setup Photos

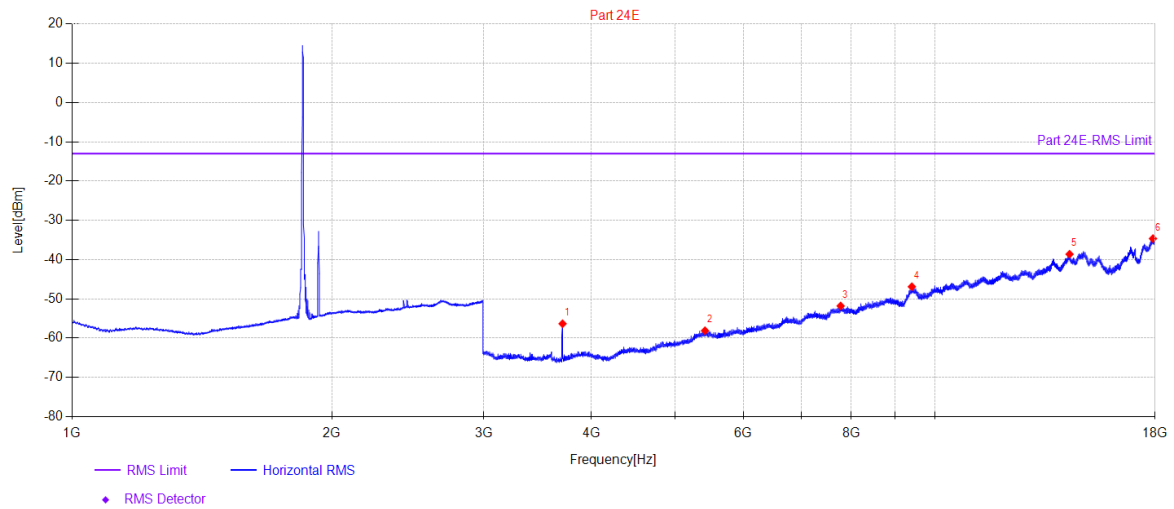
Refer to Appendix A.3 WWAN Setup Photos.

7 Appendix

Field Strength of Spurious Radiation

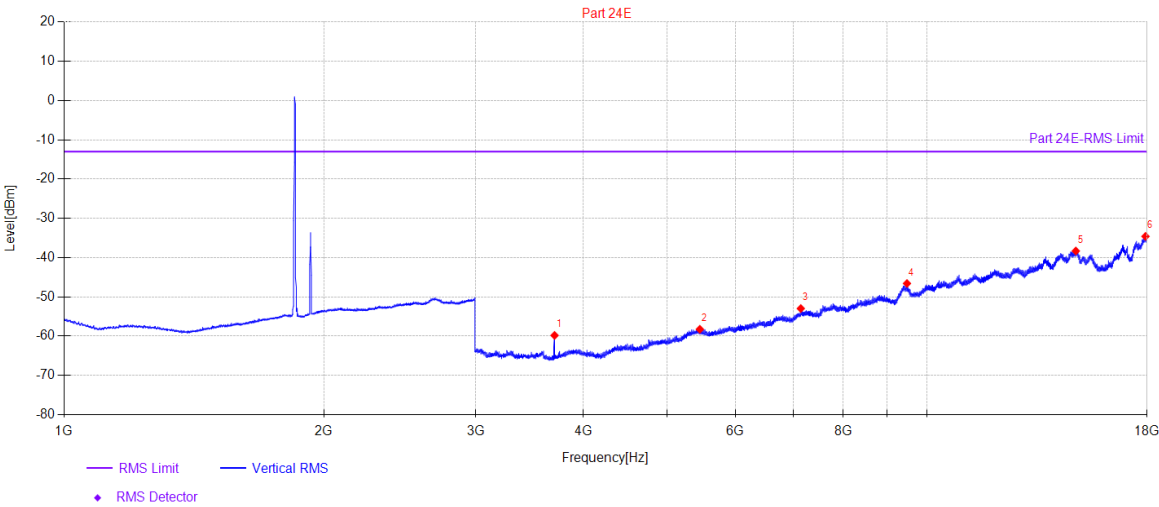
Test Band = WCDMA Band 2_ TM1

Test Channel = Low Channel



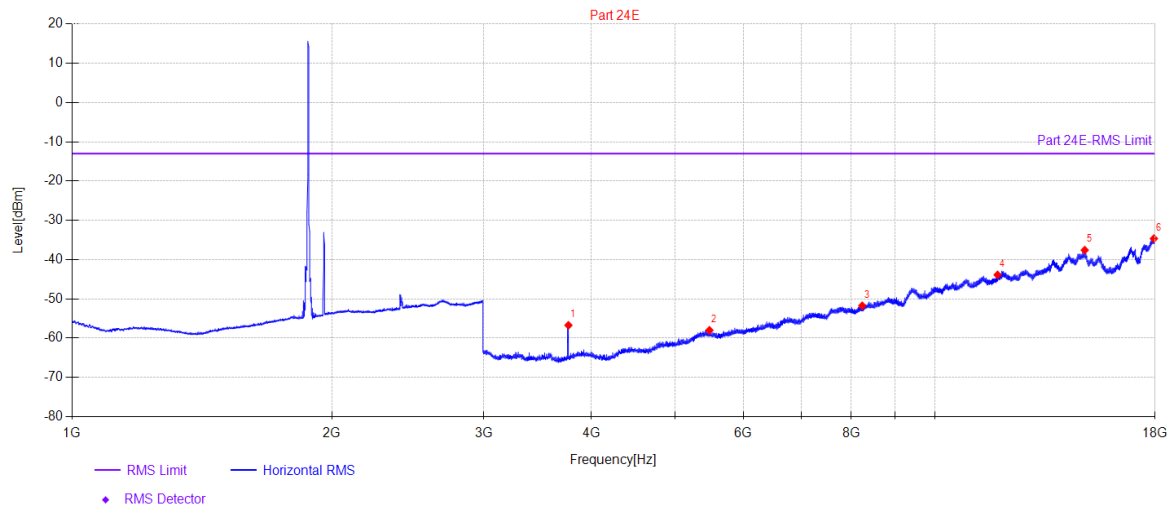
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3702.75	58.61	-48.50	28.82	-56.33	-13.00	43.33	Horizontal
2	5415	52.49	-47.70	32.36	-58.11	-13.00	45.11	Horizontal
3	7777.5	52.08	-44.98	36.34	-51.81	-13.00	38.81	Horizontal
4	9405	53.41	-43.02	37.97	-46.90	-13.00	33.90	Horizontal
5	14326.5	54.84	-38.46	40.27	-38.62	-13.00	25.62	Horizontal
6	17898.75	54.57	-38.15	44.19	-34.65	-13.00	21.65	Horizontal

Test Band = WCDMA Band 2_ TM1
Test Channel = Low Channel



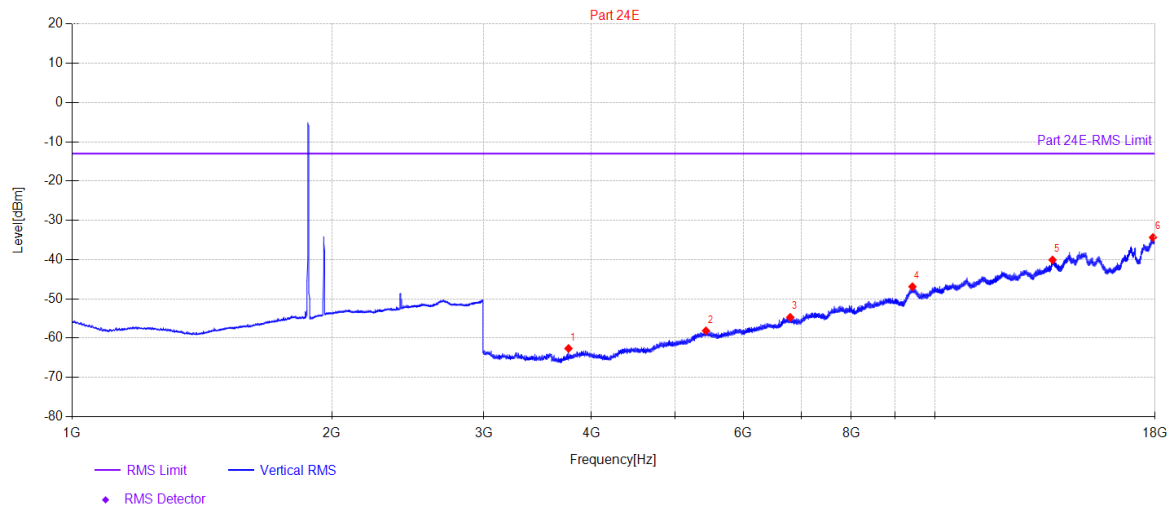
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3702.75	55.12	-48.50	28.82	-59.82	-13.00	46.82	Vertical
2	5456.25	52.19	-47.66	32.48	-58.25	-13.00	45.25	Vertical
3	7143	52.52	-45.99	35.76	-52.97	-13.00	39.97	Vertical
4	9483.75	53.07	-42.48	38.08	-46.59	-13.00	33.59	Vertical
5	14882.25	54.02	-37.28	40.21	-38.31	-13.00	25.31	Vertical
6	17922.75	54.64	-38.32	44.34	-34.60	-13.00	21.60	Vertical

Test Band = WCDMA Band 2_ TM1
Test Channel = Mid Channel



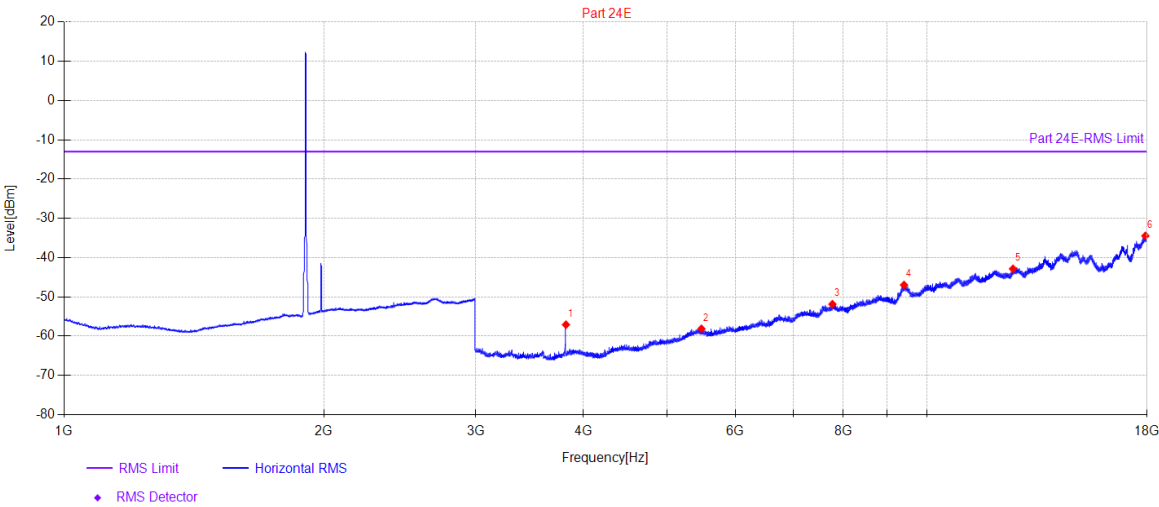
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3761.25	57.93	-48.31	28.92	-56.72	-13.00	43.72	Horizontal
2	5479.5	52.35	-47.63	32.54	-58.00	-13.00	45.00	Horizontal
3	8238	51.28	-44.32	36.56	-51.74	-13.00	38.74	Horizontal
4	11822.25	51.85	-39.90	39.42	-43.89	-13.00	30.89	Horizontal
5	14919	54.96	-37.49	40.21	-37.58	-13.00	24.58	Horizontal
6	17942.25	54.62	-38.47	44.45	-34.65	-13.00	21.65	Horizontal

Test Band = WCDMA Band 2_ TM1
Test Channel = Mid Channel



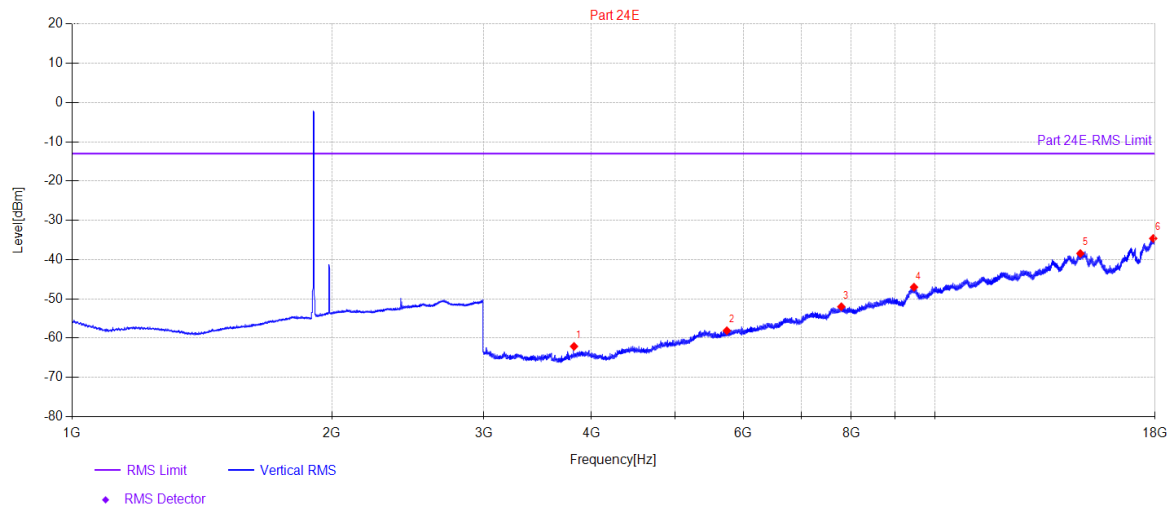
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3762	52.02	-48.31	28.92	-62.63	-13.00	49.63	Vertical
2	5429.25	52.42	-47.69	32.40	-58.13	-13.00	45.13	Vertical
3	6798	52.27	-46.88	35.18	-54.70	-13.00	41.70	Vertical
4	9419.25	53.30	-42.92	37.99	-46.89	-13.00	33.89	Vertical
5	13690.5	53.41	-38.07	39.84	-40.09	-13.00	27.09	Vertical
6	17898.75	54.86	-38.15	44.19	-34.36	-13.00	21.36	Vertical

Test Band = WCDMA Band 2_ TM1
Test Channel = High Channel



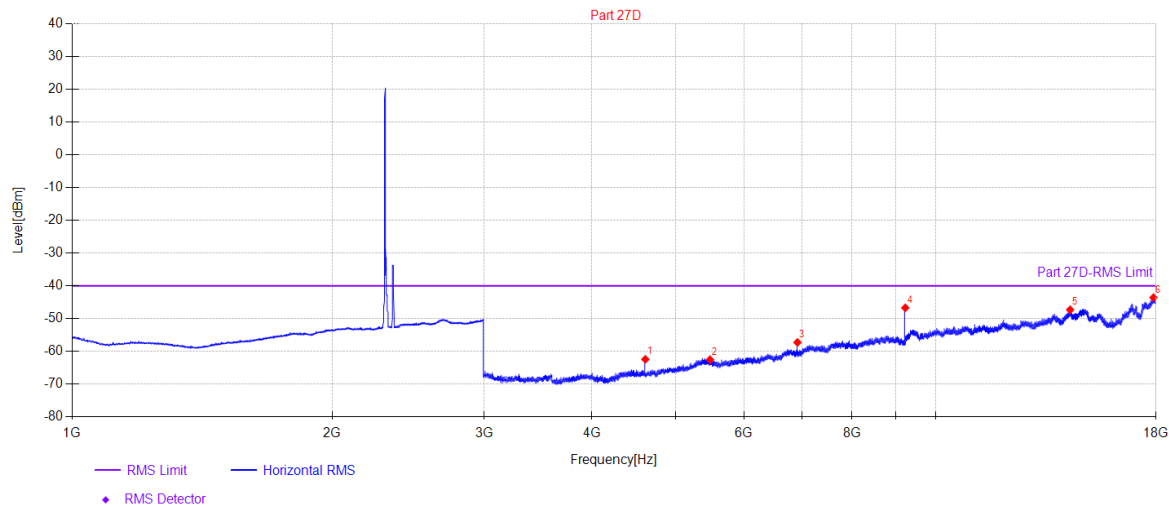
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3816.75	57.37	-48.20	29.01	-57.08	-13.00	44.08	Horizontal
2	5479.5	52.22	-47.63	32.54	-58.13	-13.00	45.13	Horizontal
3	7772.25	52.05	-44.99	36.35	-51.86	-13.00	38.86	Horizontal
4	9408.75	53.31	-42.99	37.97	-46.97	-13.00	33.97	Horizontal
5	12584.25	52.48	-39.13	39.05	-42.86	-13.00	29.86	Horizontal
6	17917.5	54.77	-38.28	44.31	-34.47	-13.00	21.47	Horizontal

Test Band = WCDMA Band 2_ TM1
Test Channel = High Channel



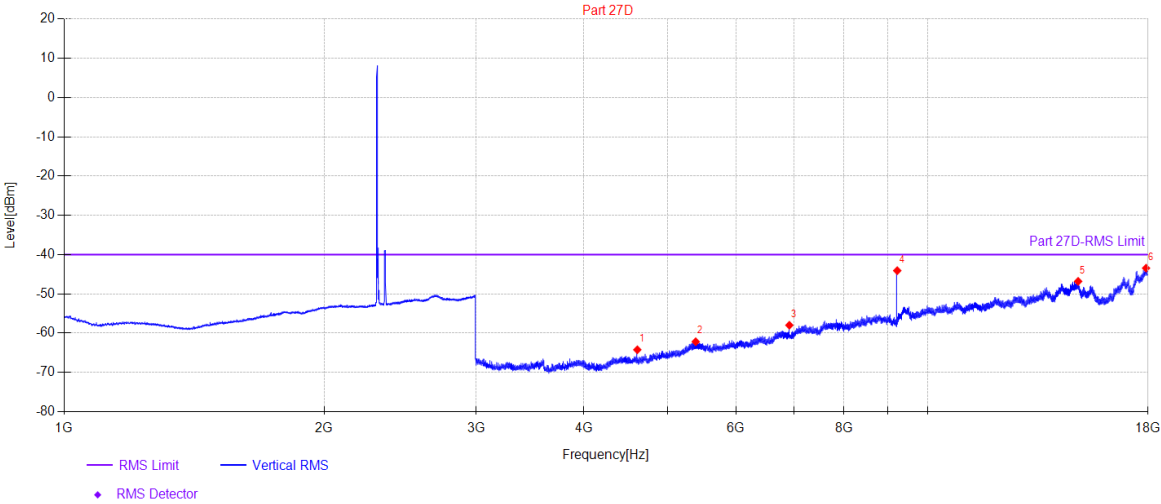
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3817.5	52.35	-48.20	29.01	-62.10	-13.00	49.10	Vertical
2	5740.5	52.02	-47.55	32.70	-58.10	-13.00	45.10	Vertical
3	7791	51.87	-44.94	36.34	-51.99	-13.00	38.99	Vertical
4	9459	52.85	-42.65	38.04	-47.02	-13.00	34.02	Vertical
5	14746.5	53.35	-36.76	40.23	-38.44	-13.00	25.44	Vertical
6	17910.75	54.62	-38.23	44.26	-34.61	-13.00	21.61	Vertical

Test Band = LTE Band 30_10Mhz_TM1
Test Channel = Mid Channel



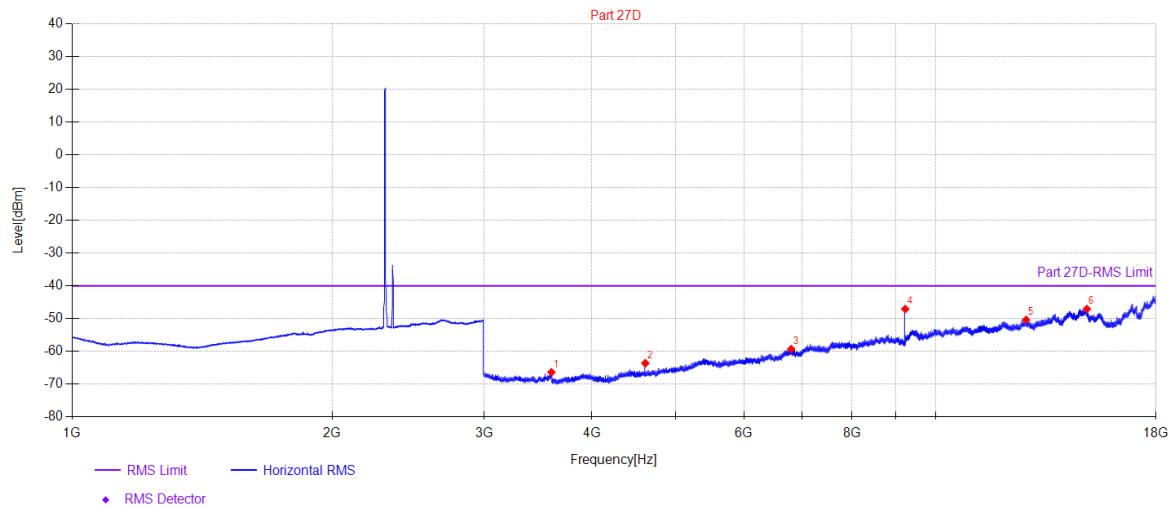
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4611	50.44	-48.00	30.34	-62.47	-40.00	22.47	Horizontal
2	5479.5	47.78	-47.63	32.54	-62.57	-40.00	22.57	Horizontal
3	6917	49.30	-46.71	35.37	-57.30	-40.00	17.30	Horizontal
4	9222.5	54.21	-43.39	37.71	-46.73	-40.00	6.73	Horizontal
5	14314.5	46.10	-38.44	40.27	-47.33	-40.00	7.33	Horizontal
6	17879.5	45.73	-38.16	44.08	-43.61	-40.00	3.61	Horizontal

Test Band = LTE Band 30_10Mhz_TM1
Test Channel = Mid Channel



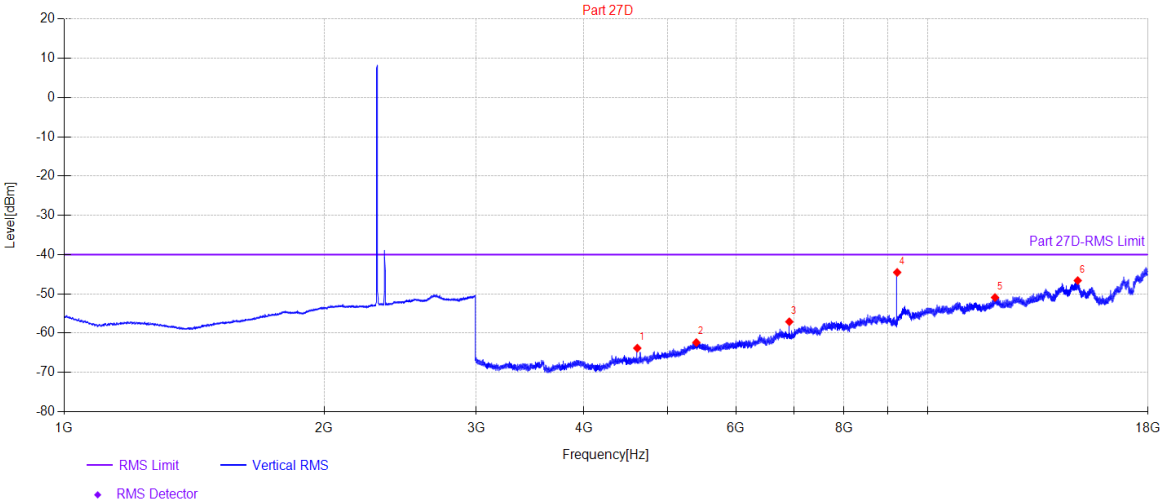
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4611	48.68	-48.00	30.34	-64.23	-40.00	24.23	Vertical
2	5388	48.51	-47.73	32.29	-62.19	-40.00	22.19	Vertical
3	6916.5	48.62	-46.71	35.37	-57.98	-40.00	17.98	Vertical
4	9222.5	56.85	-43.39	37.71	-44.09	-40.00	4.09	Vertical
5	14939	45.86	-37.62	40.21	-46.81	-40.00	6.81	Vertical
6	17905.5	45.77	-38.19	44.23	-43.45	-40.00	3.45	Vertical

Test Band = LTE Band 30_5Mhz_ TM1
Test Channel = Low Channel



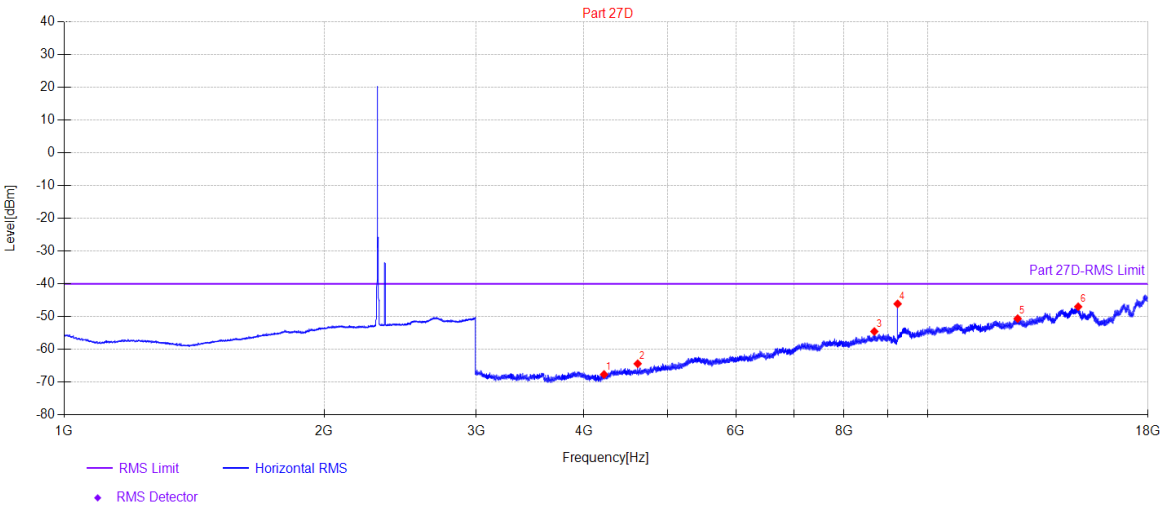
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3589.5	48.47	-48.28	28.64	-66.43	-40.00	26.43	Horizontal
2	4610.5	49.24	-48.00	30.34	-63.67	-40.00	23.67	Horizontal
3	6803.5	47.62	-46.88	35.19	-59.34	-40.00	19.34	Horizontal
4	9221.5	53.85	-43.40	37.71	-47.10	-40.00	7.10	Horizontal
5	12729.5	45.16	-39.28	38.96	-50.42	-40.00	10.42	Horizontal
6	14967	45.75	-37.79	40.20	-47.10	-40.00	7.10	Horizontal

Test Band = LTE Band 30_5Mhz_ TM1
Test Channel = Low Channel



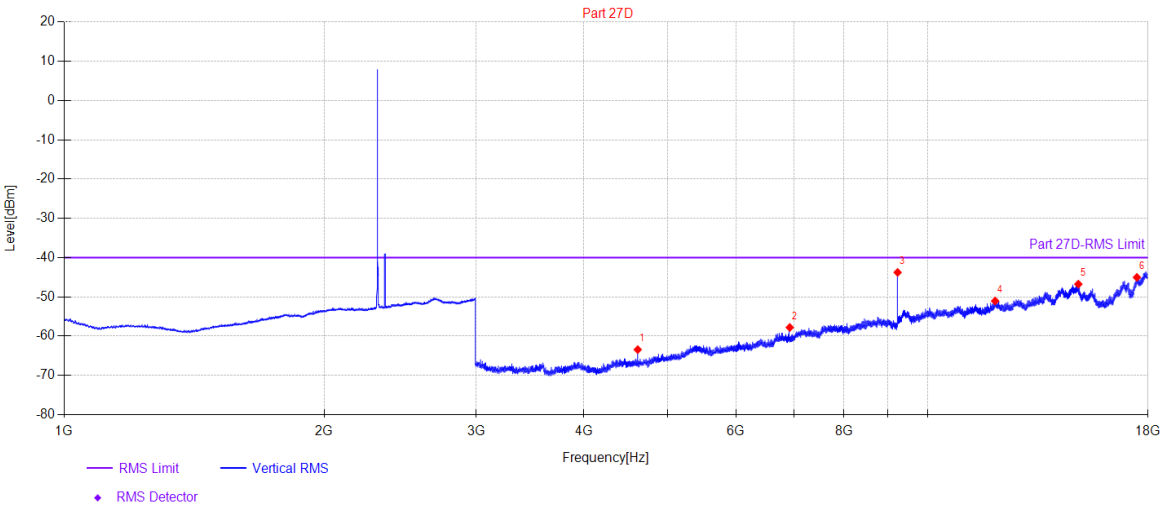
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4610.5	49.09	-48.00	30.34	-63.82	-40.00	23.82	Vertical
2	5397	48.28	-47.72	32.31	-62.39	-40.00	22.39	Vertical
3	6916	49.50	-46.71	35.37	-57.10	-40.00	17.10	Vertical
4	9221.5	56.42	-43.40	37.71	-44.53	-40.00	4.53	Vertical
5	11968	44.54	-39.60	39.40	-50.92	-40.00	10.92	Vertical
6	14923	45.95	-37.51	40.21	-46.62	-40.00	6.62	Vertical

Test Band = LTE Band 30_5Mhz_ TM1
Test Channel = Mid Channel



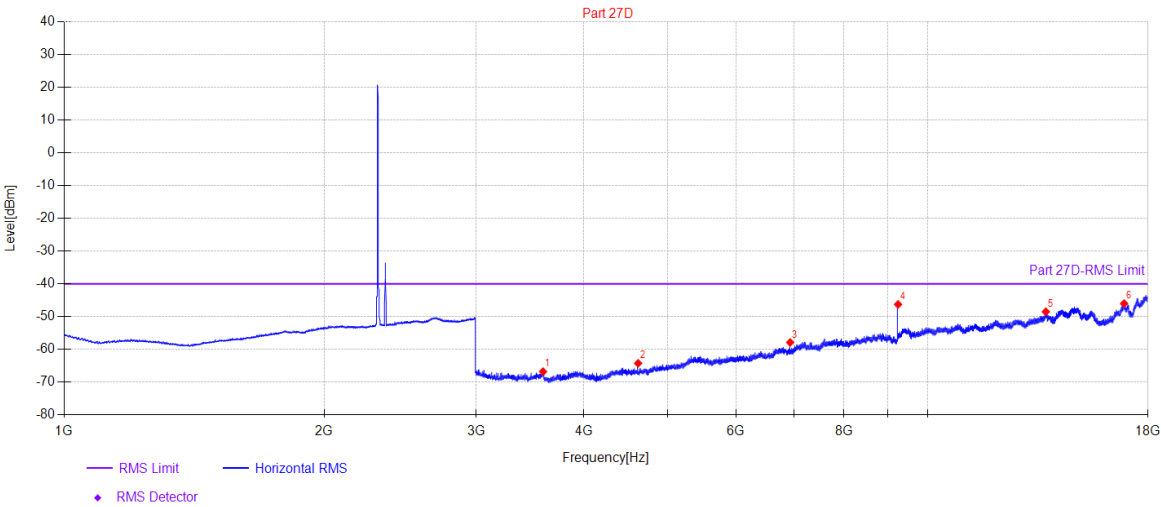
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4219.5	46.15	-48.25	29.65	-67.71	-40.00	27.71	Horizontal
2	4615.5	48.47	-47.99	30.35	-64.43	-40.00	24.43	Horizontal
3	8676	47.73	-44.08	37.04	-54.57	-40.00	14.57	Horizontal
4	9231.5	54.73	-43.33	37.72	-46.14	-40.00	6.14	Horizontal
5	12713.5	44.91	-39.27	38.97	-50.65	-40.00	10.65	Horizontal
6	14941.5	45.68	-37.63	40.21	-47.01	-40.00	7.01	Horizontal

Test Band = LTE Band 30_5Mhz_ TM1
Test Channel = Mid Channel



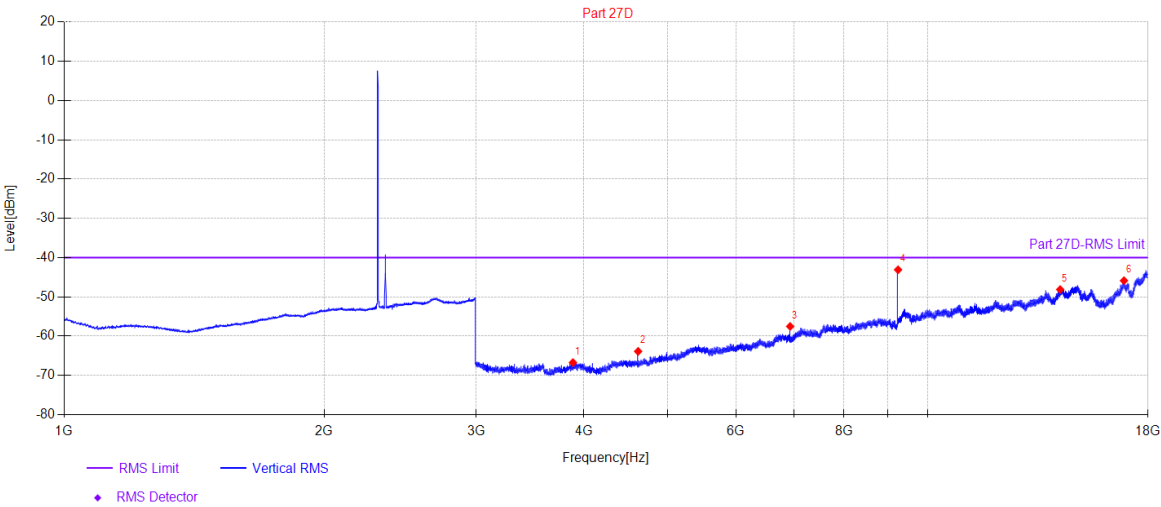
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4616	49.47	-47.99	30.36	-63.43	-40.00	23.43	Vertical
2	6923.5	48.80	-46.70	35.38	-57.78	-40.00	17.78	Vertical
3	9231	57.10	-43.34	37.72	-43.77	-40.00	3.77	Vertical
4	11971.5	44.40	-39.58	39.40	-51.04	-40.00	11.04	Vertical
5	14947.5	45.96	-37.67	40.21	-46.76	-40.00	6.76	Vertical
6	17471.5	45.55	-36.95	41.63	-45.03	-40.00	5.03	Vertical

Test Band = LTE Band 30_5Mhz_ TM1
Test Channel = High Channel



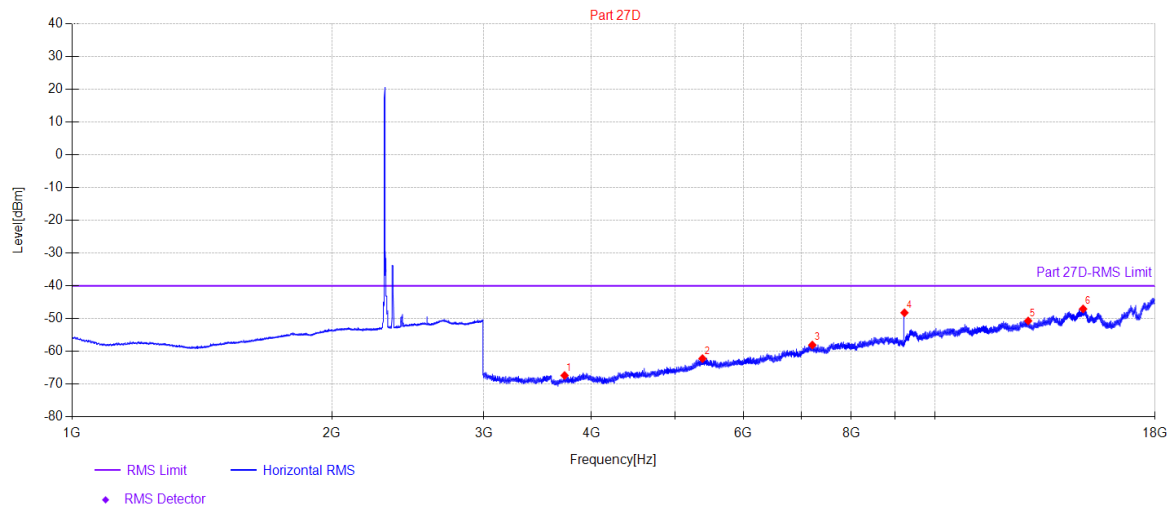
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3586	48.06	-48.28	28.64	-66.84	-40.00	26.84	Horizontal
2	4620.5	48.59	-47.99	30.37	-64.30	-40.00	24.30	Horizontal
3	6931	48.64	-46.69	35.39	-57.92	-40.00	17.92	Horizontal
4	9241.5	54.48	-43.27	37.74	-46.31	-40.00	6.31	Horizontal
5	13704.5	44.87	-38.02	39.86	-48.55	-40.00	8.55	Horizontal
6	16885.5	47.36	-36.89	38.75	-46.04	-40.00	6.04	Horizontal

Test Band = LTE Band 30_5Mhz_ TM1
Test Channel = High Channel



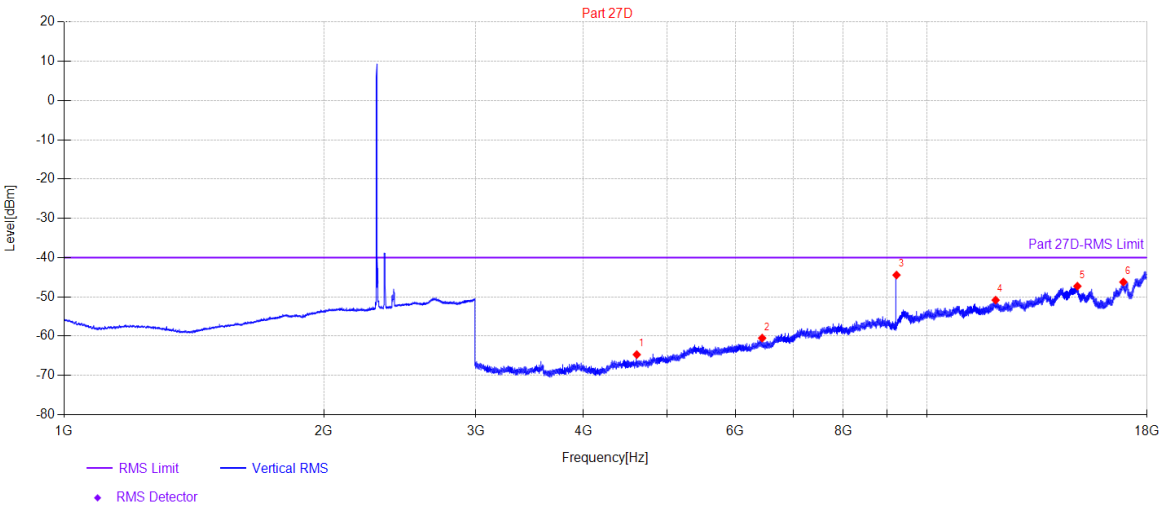
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3883.5	47.69	-48.27	29.11	-66.73	-40.00	26.73	Vertical
2	4620.5	49.01	-47.99	30.37	-63.88	-40.00	23.88	Vertical
3	6931	49.03	-46.69	35.39	-57.53	-40.00	17.53	Vertical
4	9241.5	57.69	-43.27	37.74	-43.10	-40.00	3.10	Vertical
5	14239.5	45.43	-38.57	40.28	-48.12	-40.00	8.12	Vertical
6	16881.5	47.56	-36.92	38.75	-45.87	-40.00	5.87	Vertical

Test Band = LTE CA 14A-30A_10MHZ_TM1
Test Channel = Mid Channel



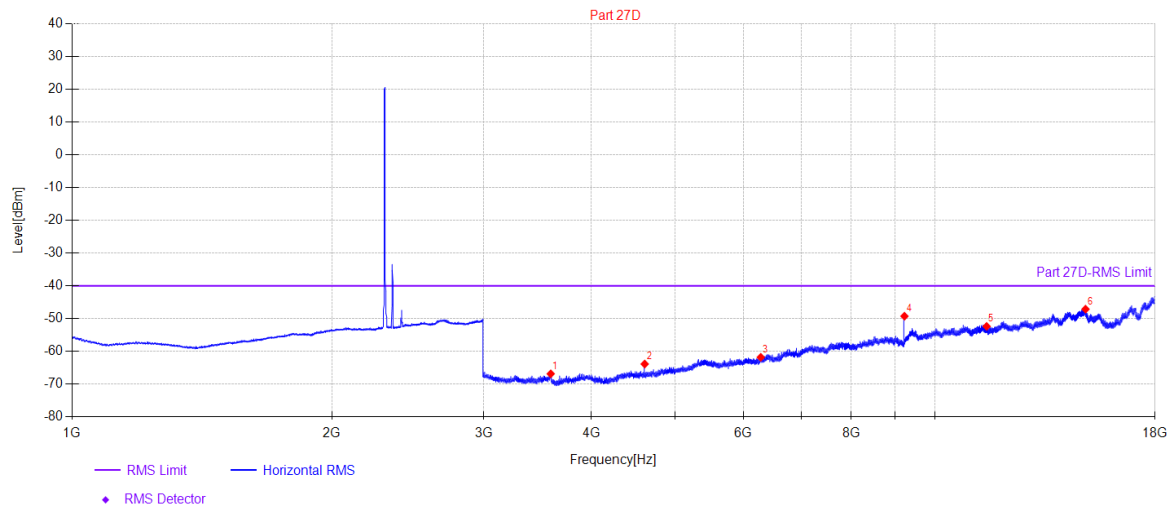
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3722.5	47.43	-48.44	28.86	-67.41	-40.00	27.41	Horizontal
2	5378.5	48.47	-47.73	32.26	-62.26	-40.00	22.26	Horizontal
3	7211.5	47.47	-46.20	35.88	-58.10	-40.00	18.10	Horizontal
4	9222	52.70	-43.39	37.71	-48.24	-40.00	8.24	Horizontal
5	12828	44.96	-39.34	38.90	-50.73	-40.00	10.73	Horizontal
6	14853.5	45.10	-37.13	40.21	-47.07	-40.00	7.07	Horizontal

Test Band = LTE CA 14A-30A_10MHZ_TM1
Test Channel = Mid Channel



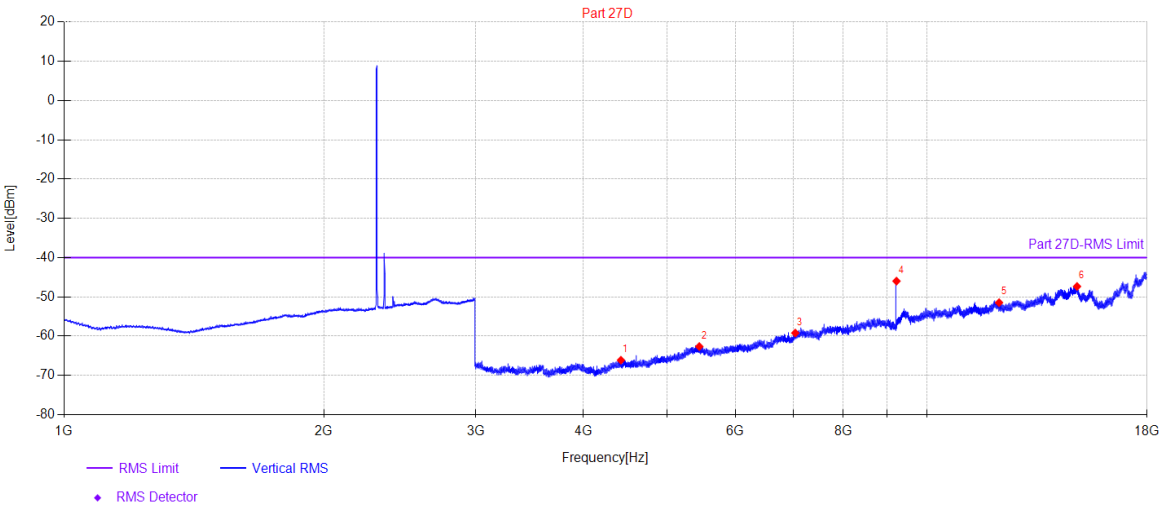
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4611	48.21	-48.00	30.34	-64.70	-40.00	24.70	Vertical
2	6444	47.23	-46.96	34.49	-60.50	-40.00	20.50	Vertical
3	9222.5	56.50	-43.39	37.71	-44.44	-40.00	4.44	Vertical
4	12015	44.50	-39.45	39.39	-50.82	-40.00	10.82	Vertical
5	14945.5	45.43	-37.66	40.21	-47.28	-40.00	7.28	Vertical
6	16895.5	47.10	-36.81	38.76	-46.22	-40.00	6.22	Vertical

Test Band = LTE CA 14A-30A_5MHZ_ TM1
Test Channel = Low Channel



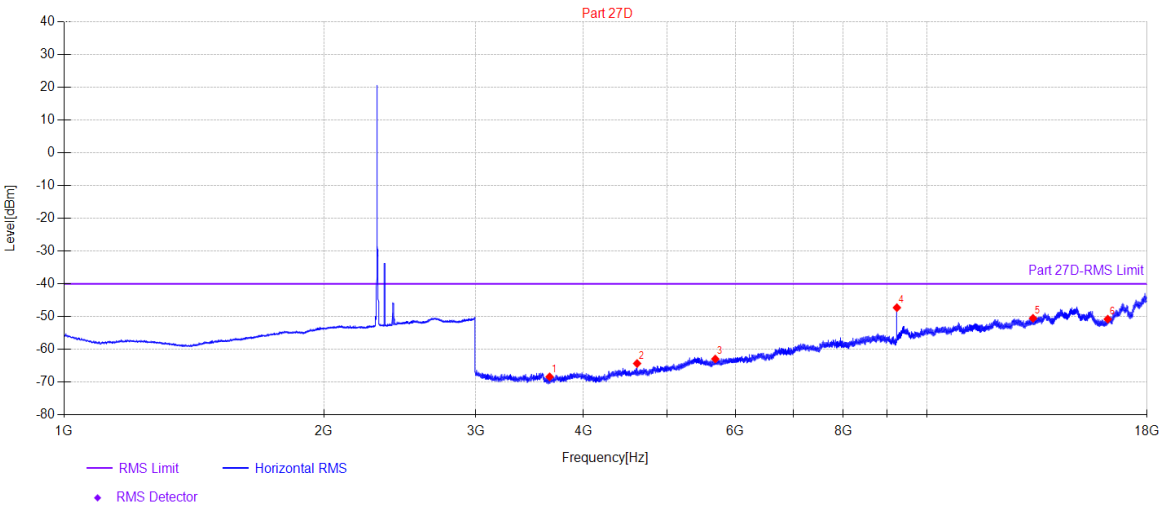
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3587.5	48.00	-48.28	28.64	-66.90	-40.00	26.90	Horizontal
2	4610.5	49.00	-48.00	30.34	-63.91	-40.00	23.91	Horizontal
3	6284	46.89	-47.36	33.88	-61.85	-40.00	21.85	Horizontal
4	9221	51.66	-43.40	37.71	-49.29	-40.00	9.29	Horizontal
5	11482.5	43.47	-40.06	39.45	-52.40	-40.00	12.40	Horizontal
6	14950	45.60	-37.69	40.21	-47.14	-40.00	7.14	Horizontal

Test Band = LTE CA 14A-30A_5MHZ_ TM1
Test Channel = Low Channel



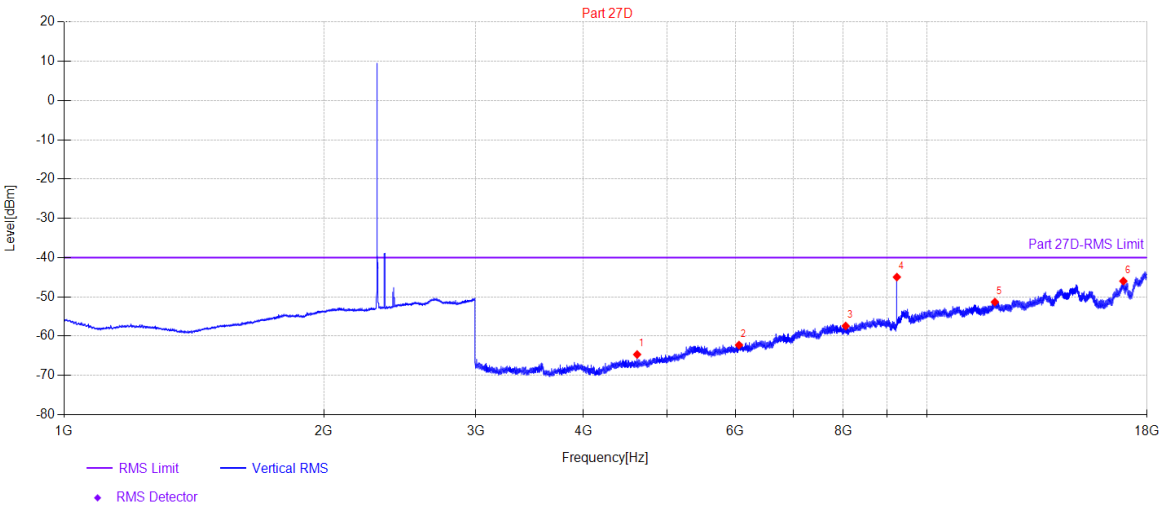
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4420	47.24	-48.08	29.97	-66.13	-40.00	26.13	Vertical
2	5448	47.82	-47.67	32.45	-62.65	-40.00	22.65	Vertical
3	7039	46.78	-46.30	35.57	-59.21	-40.00	19.21	Vertical
4	9221.5	54.96	-43.40	37.71	-45.99	-40.00	5.99	Vertical
5	12126	44.15	-39.68	39.32	-51.47	-40.00	11.47	Vertical
6	14930	45.26	-37.56	40.21	-47.35	-40.00	7.35	Vertical

Test Band = LTE CA 14A-30A_5MHZ_ TM1
Test Channel = Mid Channel



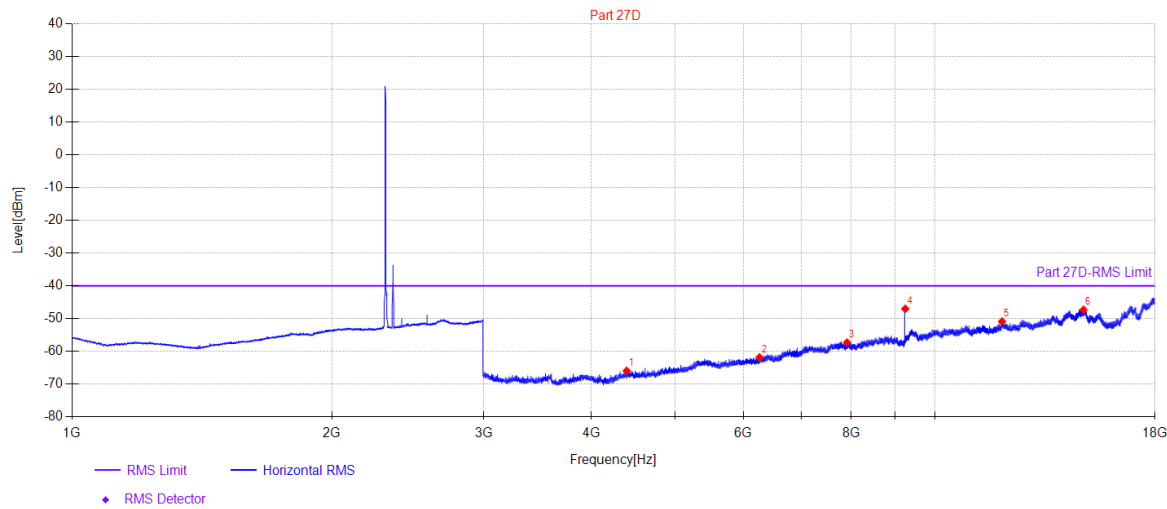
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3654	46.49	-48.40	28.75	-68.43	-40.00	28.43	Horizontal
2	4615.5	48.54	-47.99	30.35	-64.36	-40.00	24.36	Horizontal
3	5686	47.12	-47.52	32.67	-62.99	-40.00	22.99	Horizontal
4	9231.5	53.58	-43.33	37.72	-47.29	-40.00	7.29	Horizontal
5	13276.5	44.49	-39.00	39.21	-50.55	-40.00	10.55	Horizontal
6	16206.5	44.32	-38.35	38.48	-50.81	-40.00	10.81	Horizontal

Test Band = LTE CA 14A-30A_5MHZ_ TM1
Test Channel = Mid Channel



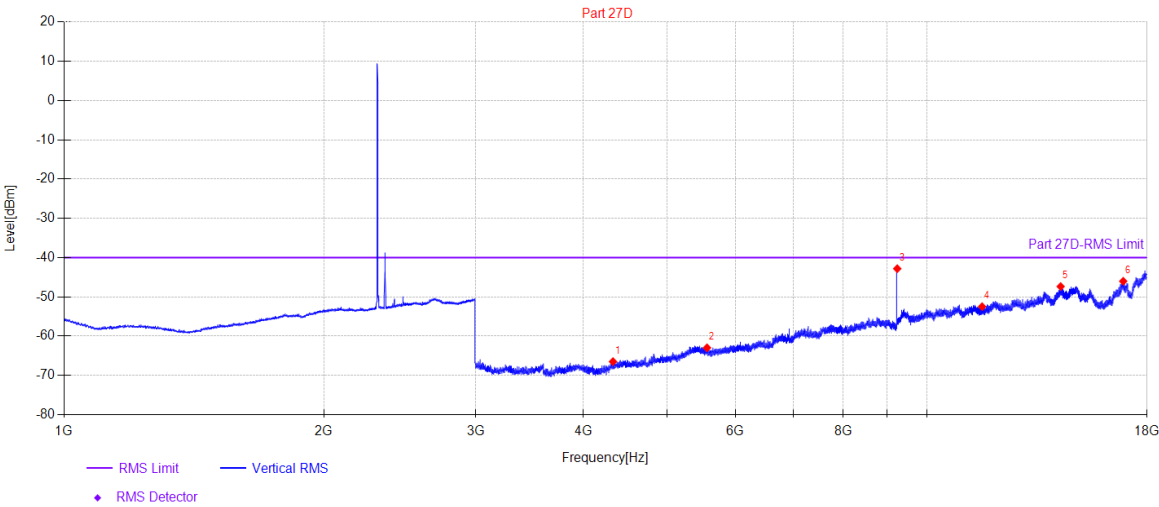
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4615.5	48.23	-47.99	30.35	-64.67	-40.00	24.67	Vertical
2	6057	47.40	-47.43	33.02	-62.28	-40.00	22.28	Vertical
3	8052.5	46.03	-44.55	36.36	-57.42	-40.00	17.42	Vertical
4	9231.5	55.91	-43.33	37.72	-44.96	-40.00	4.96	Vertical
5	11991.5	44.02	-39.47	39.40	-51.31	-40.00	11.31	Vertical
6	16895.5	47.34	-36.81	38.76	-45.98	-40.00	5.98	Vertical

Test Band = LTE CA 14A-30A_5MHZ_ TM1
Test Channel = High Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4393.5	47.42	-48.09	29.93	-66.00	-40.00	26.00	Horizontal
2	6263	46.96	-47.41	33.80	-61.91	-40.00	21.91	Horizontal
3	7911	46.90	-45.32	36.32	-57.37	-40.00	17.37	Horizontal
4	9241.5	53.76	-43.27	37.74	-47.03	-40.00	7.03	Horizontal
5	11965.5	44.55	-39.62	39.40	-50.92	-40.00	10.92	Horizontal
6	14871.5	44.92	-37.22	40.21	-47.35	-40.00	7.35	Horizontal

Test Band = LTE CA 14A-30A_5MHZ_ TM1
Test Channel = High Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4327	46.82	-47.87	29.82	-66.49	-40.00	26.49	Vertical
2	5562	47.33	-47.67	32.62	-62.97	-40.00	22.97	Vertical
3	9241	57.97	-43.27	37.74	-42.82	-40.00	2.82	Vertical
4	11589.5	43.13	-39.80	39.44	-52.49	-40.00	12.49	Vertical
5	14292	46.07	-38.44	40.27	-47.36	-40.00	7.36	Vertical
6	16888	47.36	-36.87	38.76	-46.02	-40.00	6.02	Vertical

---End of Report---